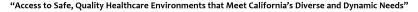


# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

## OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP) APPLICATION #: OSP-0381 HCAI Special Seismic Certification Preapproval (OSP) X Type: New Renewal Manufacturer Information Manufacturer: Vertiv Corporation Manufacturer's Technical Representative: Kiel Stephens Mailing Address: 1050 Dearborn Drive, Columbus, OH 43085 Telephone: (614) 841-8168 Email: Kiel.Stephens@Vertiv.com Product Information Product Name: Air Conditioning Units Product Type: Air Conditioning Units - Data Room Product Model Number: CR019, CR020, CR035, CR040, and CR032 CRV units 300mm and 600mm wide, 19, 20, and 35kW air cooled and water/glycol unit, 32kW and 40 General Description: kW chilled water unit. Units using aluminum fan assemblies. Mounting Description: Rigid base mount to carbon steel floor stand mounted up to 24" in height., Floor Mounted Seismic enhancements made to the test units and/or modifications required to address **Tested Seismic Enhancements:** anomalies during the tests shall be incorporated into the production units. Applicant Information Applicant Company Name: BUEHLER ENGINEERING, INC Contact Person: Gillian Montgomery Mailing Address: 600 Q St., Suite 200, Sacramento, CA 95811 Telephone: (916) 443-0303 Email: gmontgomery@buehlerengineering.com

Title: Senior Associate







# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Re	Responsible for the Engineering and Test Report(s)
Company Name: BUEHLER ENGINEERING, INC	C.
Name: Scott Hooker	California License Number: S3937
Mailing Address: 600 Q St., Suite 200, Sacramer	nto, CA 95811
Telephone: (916) 443-0303	_ Email: shooker@buehlerengineering.com
Certification Method	
GR-63-Core X ICC-ES AC156	6 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):	
	EORCODECO
Testing Laboratory	Mp.
Company Name: CLARK TESTING LABORATO	IRY, INC.
Contact Person: Alex Rossman	2
Mailing Address: 1801 Route 51, Jefferson Hills I	PA 15025
Telephone: (412) 387-1676	Email: arossman@clarktesting.com
	ATE: 10/17/2022
CALIFORN	
RN	17
	BUILDING

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



### DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION **FACILITIES DEVELOPMENT DIVISION**

Seisn	nic Parameters						
Desigr	Basis of Equipment or Components	s (Fp/Wp) = See Attachment					
:	SDS (Design spectral response accel	eration at short period, g) = See Attachment					
;	ap (Amplification factor) =	2.5					
I	Rp (Response modification factor) =	6.0					
$\Omega_0$ (System overstrength factor) = 2.0							
I	lp (Importance factor) =	1.5					
;	z/h (Height ratio factor) =	1					
I	Natural frequencies (Hz) =	See Attachment					
(	Overall dimensions and weight =	See Attachment					
		NEDFOR					
HCAI	Approval (For Office Use Only)	Approval Expires on 10/17/2028					
Date:	10/17/2022	OSP-0381					
Name	Mohammad Karim	Title: Supervisor, Health Facilities					

10/1

RORNIA BUI

ING CODE

z/h =

1

Special Seismic Certification Valid Up to: SDS (g) = See Above Condition of Approval (if applicable):

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY





#### Table 1a. CRV 300mm - Certified Product List (Rigid Base Mounted)

Seismic Parameters	S <sub>DS</sub> (g) =	0.8	z/h = 1.0		$F_{p}/W_{p} = 0.6$	a <sub>p</sub> = 2.5	R <sub>p</sub> = 6.0	$\Omega_0 = 2.0$	
	Nominal Capacity	Unit Length	Unit Width	Unit Height	Unit Maximum Operating	Heat Rejection		Tested /	Seismic
Model Number	(kW)	(in)	(in)	(in)	Weight (lbs)	Туре	Voltage (V)	Interpolated	Kit
CR019RA1Y70D0A13P060PA	19	43.3	11.81	78.7	514	Air Cooled	208-230 Three Phase	Interpolated	Without
CR019RA1370D0A13P060PA1734	19	43.3	11.81	78.7	504	Air Cooled	460 Three Phase Wye	UUT-1C	Without
CR019RA1370D0A13P060PA	19	43.3	11.81	78.7	514	Air Cooled	460 Three Phase Wye	Interpolated	Without
CR019RW1Y40D0A73P060PA1734	19	43.3	11.81	78.7	548	Water / Glycol	208-230 Three Phase	UUT-3C	Without
CR019RW1Y40D0A73P060PA	19	43.3	11.81	78.7	555	Water / Glycol	208-230 Three Phase	Interpolated	Without
CR019RW1340D0A73P060PA	19	43.3	11.81	(78.7)	555	Water / Glycol	460 Three Phase Wye	Interpolated	Without
CR032RC1Y30D0AH3P060PA	32	43.3	11.81	78.7	491	Chilled Water	208-230 Three Phase	Interpolated	Without
CR032RC1330D0AH3P060PA	32	43.3	11.81	78.7	491	Chilled Water	460 Three Phase Wye	Interpolated	Without
CR032RC1P30D0AH3P060PA	32	43.3	11.81	78.7	491	Chilled Water	208-230 Single Phase	Interpolated	Without
CR032RC1K30D0CH35060PA598	32	43.3	14.81S	P-78.73	81 <sub>438</sub>	Chilled Water	120 Single Phase	UUT-5C	Without
CR032RC1K30D0CH35060PA	32	43.3	11.81	78.7	491	Chilled Water	120 Single Phase	Interpolated	Without

Notes

1. The 9th digit for the above models specifies the 60 Hz. unit voltage. "Y" is for 208-230V three phase, "3" is for 460V wye three phase, "P" is for 208-230V single

phase and "K" is for 120V single phase.

2. The 10th digit for above CR032 models specifies chilled water piping configuration. A "3" is three way which are listed above and "2" is two way not listed above. Both two and three way piping use the same valve. Piping is the same except for two way has no bypass piping connection to bypass of valve.

3. The 10th digit for above CR019RW models specifies customer piping connections. A "4" is top which are listed above and "5" is bottom not listed above.

4. The 14th digit in above model numbers specifies the air filter type. An "A" is Merv 8 and a "C" is Merv 1.

5. The 15th digit for above CR019RW models specifies water/glycol piping configuration. A "7" is three way which are listed above and "1" is two way not listed above. Both two and three way piping use the same valve. Piping is the same except for two way has no bypass piping connection to bypass of valve.

6. The 16th digit in above model numbers specifies inclusion of seismic kit. "3" is for models without seismic kits listed above and "4" for models with seismic kit.

7. The 19th digit in above model numbers specifies IntelliSlot Card type. All above models are "6" for one IS-Unity-DP Card and one Sitelink-Ecard.

8. Above models include condensate pump option.

DUI 9. See "Model Number Nomenclature" for complete model number nomenclature.

10. Unit height includes casters.

11. Listed unit maximum operating weights are calculated from actual unit dry weight and fluids operating in the unit.





#### Table 1a. CRV 300mm - Certified Product List (Rigid Base Mounted) Cont.

Seismic Parameters	S <sub>DS</sub> (g) =	2.0	z/h = 1.0		$F_{p}/W_{p} = 1.5$	a <sub>p</sub> = 2.5	R <sub>p</sub> = 6.0	$\Omega_0 = 2.0$	
Model Number	Nominal Capacity (kW)	Unit Length (in)	Unit Width (in)	Unit Height (in)	Unit Maximum Operating Weight (Ibs)	Heat Rejection Type	Voltage (V)	Tested / Interpolated	Seismic Kit
CR019RA1Y70D0A14P060PA	19	43.3	11.81	78.7	514	Air Cooled	208-230 Three Phase	Interpolated	With
CR019RA1370D0A14P060PA1734	19	43.3	11.81	78.7	504	Air Cooled	460 Three Phase Wye	UUT-1B	With
CR019RA1370D0A14P060PA	19	43.3	11.81	78.7	514	Air Cooled	460 Three Phase Wye	Interpolated	With
CR019RW1Y40D0A74P060PA1734	19	43.3	11.81	78.7	548	Water / Glycol	208-230 Three Phase	UUT-3B	With
CR019RW1Y40D0A74P060PA	19	43.3	11.81	78.7	555	Water / Glycol	208-230 Three Phase	Interpolated	With
CR019RW1340D0A74P060PA	19	43.3	11.81	78.7	555	Water / Glycol	460 Three Phase Wye	Interpolated	With
CR032RC1Y30D0AH4P060PA	32	43.3	11.81	78.7	491	Chilled Water	208-230 Three Phase	Interpolated	With
CR032RC1330D0AH4P060PA	32	43.3	11.81	78.7	491	Chilled Water	460 Three Phase Wye	Interpolated	With
CR032RC1P30D0AH4P060PA	32	43.3	11.81	78.7	491	Chilled Water	208-230 Single Phase	Interpolated	With
CR032RC1K30D0CH45060PA598	32	43.3	11.85	D_ <b>78.7</b> 3	81 438	Chilled Water	120 Single	UUT-5B	With
CR032RC1K30D0CH45060PA	32	43.3	11.81	78.7	491	Chilled Water	120 Single Phase	Interpolated	With

Notes 1. The 9th digit for the above models specifies the 60 Hz. unit voltage. "Y" is for 208-230V three phase, "3" is for 460V wye three phase, "P" is for 208-230V single phase and "K" is for 120V single phase.

2. The 10th digit for above CR032 models specifies chilled water piping configuration. A "3" is three way which are listed above and "2" is two way not listed above. Both two and three way piping use the same valve. Piping is the same except for two way has no bypass piping connection to bypass of valve.

3. The 10th digit for above CR019RW models specifies customer piping connections. A "4" is top which are listed above and "5" is bottom not listed above.

4. The 14th digit in above model numbers specifies the air filter type. An "A" is Merv 8 and a "C" is Merv 1.

5. The 15th digit for above CR019RW models specifies water/glycol piping configuration. A "7" is three way which are listed above and "1" is two way not

listed above. Both two and three way piping use the same valve. Piping is the same except for two way has no bypass piping connection to bypass of valve.

6. The 16th digit in above model numbers specifies inclusion of seismic kit. "3" is for models without seismic kits listed above and "4" for models with seismic kit.

7. The 19th digit in above model numbers specifies IntelliSlot Card type. All above models are "6" for one IS-Unity-DP Card and one Sitelink-Ecard. PI

8. Above models include condensate pump option.

9. See "Model Number Nomenclature" for complete model number nomenclature.

10. Unit height includes casters.

11. Listed unit maximum operating weights are calculated from actual unit dry weight and fluids operating in the unit. Does not include seismic mounting clips (add 3lbs).





#### Table 1a. CRV 300mm - Certified Product List (Floor Stand Mounted)

ted Kit									
	Tested /		Heat Rejection	Unit Maximum Operating	Unit Height	Unit Width	Unit Length	Nominal Capacity	
ted With	Interpolated	Voltage (V)	Туре	Weight (lbs)	(in)	(in)	(in)	(kW)	Model Number
	Interpolated	208-230 Three Phase	Air Cooled	514	78.7	11.81	43.3	19	CR019RA1Y70D0A14P060PA
- With	UUT-2 18" Floor Stand	460 Three Phase Wye	Air Cooled	503	78.7	11.81	43.3	19	CR019RA1370D0A14P060PA1734
ted With	Interpolated	460 Three Phase Wye	Air Cooled	503	78.7	11.81	43.3	19	CR019RA1370D0A14P060PA
With	UUT-4 24" Floor Stand	208-230 Three Phase	Water / Glycol	547	78.7	11.81	43.3	19	CR019RW1Y40D0A74P060PA1734
ted With	Interpolated	208-230 Three Phase	Water / Glycol	555	78.7	11.81	43.3	19	CR019RW1Y40D0A74P060PA
ted With	Interpolated	460 Three Phase Wye	Water / Glycol	555	78.7	11.81	43.3	19	CR019RW1340D0A74P060PA
ted With	Interpolated	208-230 Three Phase	Chilled Water	491	78.7	11.81	43.3	32	CR032RC1Y30D0AH4P060PA
ted With	Interpolated	460 Three Phase Wye	Chilled Water	491	78.7	11.81	43.3	32	CR032RC1330D0AH4P060PA
ted With	Interpolated	208-230 Single Phase	Chilled Water	491	78.7	11.81	43.3	32	CR032RC1P30D0AH4P060PA
With	UUT-6 12" Floor Stand	120 Single Phase	Chilled Water	31 435	D_ <b>78.7</b> 38	11.815	43.3	32	CR032RC1K30D0CH45060PA598
	Interpolated	120 Single Phase	Chilled Water	491	78.7	11.81	43.3	32	CR032RC1K30D0CH45060PA
ola 5 1	Interpo UUT-6 Floor S	460 Three Phase Wye 208-230 Single Phase <b>120 Single</b> <b>120 Single</b>	Chilled Water Chilled Water Chilled Water Chilled	491 B1 435	78.7 P <u>78.7</u> 3	11.81 11.81	43.3 43.3	32	CR032RC1P30D0AH4P060PA CR032RC1K30D0CH45060PA598

Notes 1. The 9th digit for the above models specifies the 60 Hz. unit voltage. "Y" is for 208-230V three phase, "3" is for 460V wye three phase, "P" is for 208-230V single

phase and "K" is for 120V single phase.

2. The 10th digit for above CR032 models specifies chilled water piping configuration. A "3" is three way which are listed above and "2" is two way not listed above. Both two and three way piping use the same valve. Piping is the same except for two way has no bypass piping connection to bypass of valve.

3. The 10th digit for above CR019RW models specifies customer piping connections. A "4" is top which are listed above and "5" is bottom not listed above.

4. The 14th digit in above model numbers specifies the air filter type. An "A" is Merv 8 and a "C" is Merv 1.

5. The 15th digit for above CR019RW models specifies water/glycol piping configuration. A "7" is three way which are listed above and "1" is two way not

listed above. Both two and three way piping use the same valve. Piping is the same except for two way has no bypass piping connection to bypass of valve. 6. The 16th digit in above model numbers specifies inclusion of seismic kit. "3" is for models without seismic kits listed above and "4" for models with seismic kit.

7. The 19th digit in above model numbers specifies IntelliSlot Card type. All above models are "6" for one IS-Unity-DP Card and one Sitelink-Ecard.

8. Above models include condensate pump option.

9. See "Model Number Nomenclature" for complete model number nomenclature.

10. Unit height includes casters. Unit height does not include floor stand.

11. Listed unit maximum operating weights are calculated from actual unit dry weight and fluids operating in the unit. Does not include floorstand (70 lbs to 88 lbs).





#### Table 1b. CRV 600mm - Certified Product List (Rigid Base Mounted)

S <sub>DS</sub> (g) =	0.8	z/h = 1.0		$F_{p}/W_{p} = 0.6$	a <sub>p</sub> = 2.5	R <sub>p</sub> = 6.0	$\Omega_0 = 2.0$	
Nominal Capacity (kW)	Unit Length (in)	Unit Width (in)	Unit Height (in)	Unit Maximum Operating Weight (Ibs)	Heat Rejection Type	Voltage (V)	Tested / Interpolated	Seismic Kit
20	46.25	22.63	78.75	758	Air Cooled	208	Interpolated	Without
20	46.25	22.63	78.75	758	Air Cooled	460	Interpolated	Without
20	46.25	22.63	78.75	834	Water / Glycol	208	UUT-7C	Without
20	46.25	22.63	78.75	834	Water / Glycol	460	Interpolated	Without
35	46.25	22.63	78.75	827	Air Cooled	208	Interpolated	Without
35	46.25	22.63	78.75	827	Air Cooled	460	Interpolated	Without
35	46.25	22.63	78.75	938	Water / Glycol	208	Interpolated	Without
35	46.25	22.63	78.75	938	Water / Glycol	460	UUT-8C	Without
40	46.25	22.63	78.75	790	Chilled Water	208	Interpolated	Without
40	46.25	22.63	78.75	790	Chilled Water	460	Interpolated	Without
	Nominal Capacity (kW)           20           20           20           20           20           20           35           35           35           35           35           35           40	Nominal Capacity (kW)         Unit Length (in)           20         46.25           20         46.25           20         46.25           20         46.25           20         46.25           20         46.25           35         46.25           35         46.25           35         46.25           35         46.25           35         46.25           35         46.25           35         46.25           35         46.25           35         46.25           40         46.25	Nominal Capacity (kW)         Unit Length (in)         Unit Width (in)           20         46.25         22.63           20         46.25         22.63           20         46.25         22.63           20         46.25         22.63           20         46.25         22.63           20         46.25         22.63           35         46.25         22.63           35         46.25         22.63           35         46.25         22.63           35         46.25         22.63           35         46.25         22.63           35         46.25         22.63           40         46.25         22.63	Nominal Capacity (kW)         Unit Length (in)         Unit Width (in)         Unit Height (in)           20         46.25         22.63         78.75           20         46.25         22.63         78.75           20         46.25         22.63         78.75           20         46.25         22.63         78.75           20         46.25         22.63         78.75           20         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           40         46.25         22.63         78.75	Nominal Capacity (kW)         Unit Length (in)         Unit Width (in)         Unit Height (in)         Unit Maximum Operating Weight (lbs)           20         46.25         22.63         78.75         758           20         46.25         22.63         78.75         758           20         46.25         22.63         78.75         758           20         46.25         22.63         78.75         834           20         46.25         22.63         78.75         834           20         46.25         22.63         78.75         834           20         46.25         22.63         78.75         827           35         46.25         22.63         78.75         827           35         46.25         22.63         78.75         938           35         46.25         22.63         78.75         938           35         46.25         22.63         78.75         938           35         46.25         22.63         78.75         938           40         46.25         22.63         78.75         790	Nominal Capacity (kW)         Unit Length (in)         Unit Width (in)         Unit Height (in)         Maximum Operating (in)         Heat Rejection Type           20         46.25         22.63         78.75         758         Air Cooled           20         46.25         22.63         78.75         758         Air Cooled           20         46.25         22.63         78.75         834         Water / Glycol           20         46.25         22.63         78.75         827         Air Cooled           35         46.25         22.63         78.75         938         Water / Glycol           35         46.25         22.63         78.75         938         Water / Glycol           35         46.25         22.63         78.75         938         Water / Glycol           35         46.25         22.63         78.75         938         Glycol           40         46.25	Nominal Capacity (kW)         Unit Length (in)         Unit Width (in)         Unit Height (in)         Maximum Maximum (in)         Heat Rejection Weight (lbs)         Voltage Type           20         46.25         22.63         78.75         758         Air Cooled         208           20         46.25         22.63         78.75         758         Air Cooled         460           20         46.25         22.63         78.75         834         Water / Glycol         208           20         46.25         22.63         78.75         834         Water / Glycol         208           20         46.25         22.63         78.75         834         Water / Glycol         208           20         46.25         22.63         78.75         827         Air Cooled         208           35         46.25         22.63         78.75         827         Air Cooled         460           35         46.25         22.63         78.75         938         Water / Glycol         208           35         46.25         22.63         78.75         938         Water / Glycol         208           35         46.25         22.63         78.75         938         Water / Glycol	Nominal Capacity (kW)Unit Length (in)Unit Width (in)Unit Height (in)Unit Height (in)Maximum Meight (lbs)Heat Rejection TypeVoltage Voltage (V)Tested / Interpolated2046.2522.6378.75758Air Cooled208Interpolated2046.2522.6378.75758Air Cooled460Interpolated2046.2522.6378.75758Air Cooled460Interpolated2046.2522.6378.75834Water / Glycol208UUT-7C2046.2522.6378.75834Water / Glycol208Interpolated3546.2522.6378.75827Air Cooled208Interpolated3546.2522.6378.75827Air Cooled208Interpolated3546.2522.6378.75938Water / Glycol208Interpolated3546.2522.6378.75938Water / Glycol208Interpolated3546.2522.6378.75938Water / Glycol208Interpolated4046.2522.6378.75790Chilled Water208Interpolated

Notes

1. The 9th digit for the above models specifies the 60 Hz. unit voltage. "C" is for 208-230V three phase, "A" is for 460V three phase phase and "K" is for 120V single phase. OSP-0381

2. The 10th digit specifies chilled water piping configuration. A "7" is for all 600 mm units and "3" is three way valve which was tested in 300 mm units.

above. Both two and three way piping use the same valve. Piping is the same except for two way has no bypass piping connection to bypass of valve.

3. The 14th digit in above model numbers specifies the air filter type. An "8" specifies Merv 8 and "9" specifies Merv 9, additional tested in 300mm.

4. The 15th digit specifies water/glycol piping configuration. A "7" is three way which are listed above, "1" is two way and "H" is default.

listed above. Both two and three way piping use the same valve. Piping is the same except for two way has no bypass piping connection to bypass of valve.

5. The 16th digit in above model numbers specifies inclusion of seismic kit. "3" is for models without seismic kits listed above and "4" for models with seismic kit.

6. The 19th digit in above model numbers specifies IntelliSlot Card type. All above models are "6" for one IS-Unity-DP Card and one Sitelink-Ecard.

7. Above models include humidifier, reheat, condensate pump and 65KA SCCR disconnect options.

8. Air cooled units listed above are identical to the Water/Glycol without following parts condenser plate heat exchanger, refrigerant receiver, heat rejection control valve and actuator. No additional structural support is included in the Water/Glycol units compared to Air-Cooled. Center of Gravity of both units are substantially similar. 9. See "Model Number Nomenclature" for complete model number nomenclature.

10. Unit height includes casters.

11. Listed unit maximum operating weights are calculated from actual unit dry weight and fluids operating in the unit.





#### Table 1b. CRV 600mm - Certified Product List (Rigid Base Mounted) Cont.

Seismic Parameters	S <sub>DS</sub> (g) =	2.0	z/h = 1.0		$F_{p}/W_{p} = 1.5$	a <sub>p</sub> = 2.5	R <sub>p</sub> = 6.0	$\Omega_0 = 2.0$	
Model Number	Nominal Capacity (kW)	Unit Length (in)	Unit Width (in)	Unit Height (in)	Unit Maximum Operating Weight (Ibs)	Heat Rejection Type	Voltage (V)	Tested / Interpolated	Seismic Kit
CR020RA1C7SD1814P060PA	20	46.25	22.63	78.75	758	Air Cooled	208	Interpolated	With
CR020RA1A7SD1814P060PA	20	46.25	22.63	78.75	758	Air Cooled	460	Interpolated	With
CR020RW1C7SD1874P060PA	20	46.25	22.63	78.75	834	Water / Glycol	208	UUT-7B	With
CR020RW1A7SD1874P060PA	20	46.25	22.63	78.75	834	Water / Glycol	460	Interpolated	With
CR035RA1C7SD1814P060PA	35	46.25	22.63	78.75	827	Air Cooled	208	Interpolated	With
CR035RA1A7SD1814P060PA	35	46.25	22.63	78.75	827	Air Cooled	460	Interpolated	With
CR035RW1C7SD1974P060PA	35	46.25	22.63	78.75	938	Water / Glycol	208	Interpolated	With
CR035RW1A7SD1974P060PA	35	46.25	22.63	78,75	938	Water / Glycol	460	UUT-8B	With
CR040RC1C3SD19H4P060PA	40	46.25	22.63	78.75	790	Chilled Water	208	Interpolated	With
CR040RC1A3SD19H4P060PA	40	46.25	22.63	78.75	790	Chilled Water	460	Interpolated	With
Notes				W ANA W		Y			

1. The 9th digit for the above models specifies the 60 Hz. unit voltage. "C" is for 208-230V three phase, "A" is for 460V three phase

phase and "K" is for 120V single phase.

2. The 10th digit specifies chilled water piping configuration. A "7" is for all 600 mm units and "3" is three way valve which was tested in 300 mm units.

above. Both two and three way piping use the same valve. Piping is the same except for two way has no bypass piping connection to bypass of valve.

3. The 14th digit in above model numbers specifies the air filter type. An "8" specifies Merv 8 and "9" specifies Merv 9, additional tested in 300mm.

4. The 15th digit specifies water/glycol piping configuration. A "7" is three way which are listed above, "1" is two way and "H" is default. listed above. Both two and three way piping use the same valve. Piping is the same except for two way has no bypass piping connection to bypass of valve.

5. The 16th digit in above model numbers specifies inclusion of seismic kit. "3" is for models without seismic kits listed above and "4" for models with seismic kit.

6. The 19th digit in above model numbers specifies IntelliSlot Card type. All above models are "6" for one IS-Unity-DP Card and one Sitelink-Ecard.

7. Above models include humidifier, reheat, condensate pump and 65KA SCCR disconnect options.

8. Air cooled units listed above are identical to the Water/Glycol without following parts condenser plate heat exchanger, refrigerant receiver, heat rejection control valve and actuator. No additional structural support is included in the Water/Glycol units compared to Air-Cooled. Center of Gravity of both units are substantially similar. 9. See "Model Number Nomenclature" for complete model number nomenclature.

BLITINTNG

10. Unit height includes casters.

11. Listed unit maximum operating weights are calculated from actual unit dry weight and fluids operating in the unit. Does not include seismic braces (add 14lbs).







#### Table 1b. CRV 600mm - Certified Product List (Floor Stand Mounted)

				$F_{p}/W_{p} = 1.5$	a <sub>p</sub> = 2.5	R <sub>p</sub> = 6.0	$\Omega_0 = 2.0$	
Nominal Capacity (kW)	Unit Length (in)	Unit Width (in)	Unit Height (in)	Unit Maximum Operating Weight (Ibs)	Heat Rejection Type	Voltage (V)	Tested / Interpolated	Seismic Kit
20	46.25	22.63	78.75	758	Air Cooled	208	Interpolated	With
20	46.25	22.63	78.75	758	Air Cooled	460	Interpolated	With
20	46.25	22.63	78.75	834	Water / Glycol	208	UUT-9 12" Floor Stand	With
20	46.25	22.63	78.75	834	Water / Glycol	460	Interpolated	With
35	46.25	22.63	78.75	827	Air Cooled	208	Interpolated	With
35	46.25	22.63	78.75	827	Air Cooled	460	Interpolated	With
35	46.25	22.63	78.75	938	Water / Glycol	208	Interpolated	With
35	46.25	22.63	78.75	938	Water / Glycol	460	UUT-10 24" Floor Stand	With
40	46.25	22.63	78.75	790	Chilled Water	208	Interpolated	With
40	46.25	22.63	78.75	790	Chilled Water	460	Interpolated	With
	Capacity (KW) 20 20 20 20 20 35 35 35 35 35 35 35	Capacity (kW)         Length (in)           20         46.25           20         46.25           20         46.25           20         46.25           20         46.25           20         46.25           35         46.25           35         46.25           35         46.25           35         46.25           35         46.25           40         46.25	Capacity (kW)         Length (in)         Width (in)           20         46.25         22.63           20         46.25         22.63           20         46.25         22.63           20         46.25         22.63           20         46.25         22.63           35         46.25         22.63           35         46.25         22.63           35         46.25         22.63           35         46.25         22.63           35         46.25         22.63           35         46.25         22.63           35         46.25         22.63           46.25         22.63           35         46.25         22.63           46.25         22.63           46.25         22.63	Capacity (kW)         Length (in)         Width (in)         Height (in)           20         46.25         22.63         78.75           20         46.25         22.63         78.75           20         46.25         22.63         78.75           20         46.25         22.63         78.75           20         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           35         46.25         22.63         78.75           40         46.25         22.63         78.75	Nominal Capacity (KW)         Unit Length (in)         Unit Width (in)         Unit Height (in)         Maximum Operating Weight (lbs)           20         46.25         22.63         78.75         758           20         46.25         22.63         78.75         758           20         46.25         22.63         78.75         758           20         46.25         22.63         78.75         834           20         46.25         22.63         78.75         834           20         46.25         22.63         78.75         827           35         46.25         22.63         78.75         827           35         46.25         22.63         78.75         827           35         46.25         22.63         78.75         938           35         46.25         22.63         78.75         938           35         46.25         22.63         78.75         938           40         46.25         22.63         78.75         790	Nominal Capacity (KW)Unit Length (in)Unit Width (in)Unit Height (in)Maximum Operating Weight (lbs)Heat Rejection Type2046.2522.6378.75758Air Cooled2046.2522.6378.75758Air Cooled2046.2522.6378.75834Water / Glycol2046.2522.6378.75834Water / Glycol2046.2522.6378.75834Water / Glycol2046.2522.6378.75827Air Cooled3546.2522.6378.75827Air Cooled3546.2522.6378.75938Water / Glycol3546.2522.6378.75938Water / Glycol3546.2522.6378.75938Water / Glycol3546.2522.6378.75938Water / Glycol4046.2522.6378.75790Chilled Water	Nominal Capacity (KW)Unit Length (in)Unit Width (in)Unit Height (in)Maximum Operating Weight (lbs)Heat Rejection TypeVoltage (V)2046.2522.6378.75758Air Cooled2082046.2522.6378.75758Air Cooled4602046.2522.6378.75834Water / Glycol2082046.2522.6378.75834Water / Glycol2082046.2522.6378.75834Water / Glycol4603546.2522.6378.75827Air Cooled2083546.2522.6378.75827Air Cooled2083546.2522.6378.75938Water / Glycol2083546.2522.6378.75938Water / Glycol2083546.2522.6378.75938Water / Glycol2084046.2522.6378.75790Chilled Water208	Nominal Capacity (kW)Unit Length (in)Unit Width (in)Unit Height (in)Maximum Operating Weight (lbs)Heat Rejection TypeVoltage VoltageTested / Interpolated2046.2522.6378.75758Air Cooled208Interpolated2046.2522.6378.75758Air Cooled460Interpolated2046.2522.6378.75834Water / Glycol208UUT-9 12" Floor Stand2046.2522.6378.75834Water / Glycol208Interpolated2046.2522.6378.75834Water / Glycol208Interpolated2046.2522.6378.75827Air Cooled208Interpolated3546.2522.6378.75827Air Cooled208Interpolated3546.2522.6378.75938Water / Glycol208Interpolated3546.2522.6378.75938Water / Glycol208Interpolated3546.2522.6378.75938Water / Glycol208Interpolated3646.2522.6378.75938Water / Glycol208Interpolated3646.2522.6378.75938Water / Glycol208Interpolated3646.2522.6378.75790Chilled Water208Interpolated

Notes

1. The 9th digit for the above models specifies the 60 Hz. unit voltage. "C" is for 208-230V three phase, "A" is for 460V three phase phase and "K" is for 120V single phase.

2. The 10th digit specifies chilled water piping configuration. A "7" is for all 600 mm units and "3" is three way valve which was tested in 300 mm units. above. Both two and three way piping use the same valve. Piping is the same except for two way has no bypass piping connection to bypass of valve.

3. The 14th digit in above model numbers specifies the air filter type. An "8" specifies Merv 8 and "9" specifies Merv 9, additional tested in 300mm.

4. The 15th digit specifies water/glycol piping configuration. A "7" is three way which are listed above, "1" is two way and "H" is default.

listed above. Both two and three way piping use the same valve. Piping is the same except for two way has no bypass piping connection to bypass of valve.

5. The 16th digit in above model numbers specifies inclusion of seismic kit. "3" is for models without seismic kits listed above and "4" for models with seismic kit.

6. The 19th digit in above model numbers specifies IntelliSlot Card type. All above models are "6" for one IS-Unity-DP Card and one Sitelink-Ecard.

7. Above models include humidifier, reheat, condensate pump and 65KA SCCR disconnect options.

 Air cooled units listed above are identical to the Water/Glycol without following parts condenser plate heat exchanger, refrigerant receiver, heat rejection control valve and actuator. No additional structural support is included in the Water/Glycol units compared to Air-Cooled. Center of Gravity of both units are substantially similar.
 See "Model Number Nomenclature" for complete model number nomenclature.

10. Unit height includes casters. Unit height does not include floor stand.

11. Listed unit maximum operating weights are calculated from actual unit dry weight and fluids operating in the unit. Does not include seismic braces (add 14lbs). Does not include floorstand (84 lbs to 100 lbs).





#### Table 2a. CRV 300mm - Certified Sub-Component List

Cooling Fans						
Туре	Unit Voltage	Manufacturer	P/N	Material	Designed Model Usage	Tested / Interpolated
	208-230 Single Phase		315021P2		CR032RC1P	Interpolated
EC Fan	All CR019 Models	EBM	315021P2	Aluminum blades. Carbon Steel & Copper Motor	CR019RA1Y / CR019RW1Y / CR032RC1Y / CR019RA13 / CR019RW13 / CR032RC13	UUT-1,2,3 &
	120 Single Phase		315021P3		CR035RC1K	UUT-5 & 6
Cooling Coils						
Туре	Unit Voltage	Manufacturer	P/N	Material	Designed Model Usage	Tested / Interpolated
Cooling Coil 3 Row 30" height	All CR019 Models	Vertiv Corporation	315051G1	Copper Tube/ Alum. Fins	CR019RA1Y / CR019RW1Y / CR019RA13 / CR019RW13	UUT-1,2,3 &
Cooling Coil 3 Row 36" height	All CR032 Models	NEL	316672G1		CR032RC	UUT-5 & 6
Electrical Panel A	ssemblies			Y-		
Туре	Unit Voltage	Manufacturer	P/N	P-0381Material	Designed Model Usage	Tested / Interpolate
	208-230 Three Phase		315033G1		CR019RA1Y	Interpolated
	208-230 Three Phase	OB	315033G2	ammad Karim	CR019RW1Y	UUT-3 & 4
	460 Wye Three Phase		315033G3		CR019RA13	UUT-1 & 2
Electrical Panel	460 Wye Three Phase		315033G4	10/1 //2022 18 Gauge Painted	CR019RW13	Interpolated
Assemblies	208-230 Three Phase	Vertiv Corporation	315033G5	Cold Rolled Steel box	CR032RC1Y	Interpolated
	460 Wye Three Phase		315033G6		CR032RC13	Interpolated
	208-230 Single Phase		315033G7	CONTRACT OF	CR032RC1P	Interpolated
	120 Single Phase		315033G8	ILDING CODE	CR032RC1K	UUT-5 & 6
Electrical Panel D	)isconnects					
Туре	Unit Voltage	Manufacturer	P/N	Material	Designed Model Usage	Tested / Interpolate
60A Fused 65KA SCCR	208-230 Three Phase		303397P2		CR019RA1Y / CR019RW1Y	UUT-3 & 4
30A Fused 65KA SCCR	460 Wye Three Phase	Allen Bradley	303397P1		CR019RA13 / CR019RW13 / CR032RC13	UUT-1 & 2
30A Fused 65KA SCCR	208-230 Three Phase	Allen brauley	303397P1	Aluminum shaft, plated carbon steel body, copper contacts and plastic body	CR032RC1Y	Interpolated
30A Fused 65KA	208-230 Single		303397P1		CR032RC1P	Interpolated

Scroll Compresso	Scroll Compressors											
Туре	Unit Voltage	Manufacturer	P/N	Material	Designed Model Usage	Tested / Interpolated						
ZPD72KCE-TF5	208-230 three phase	Copeland	315631P1 Sh	Shell is painted	CR019RA1Y & CR019RW1Y	UUT-3 & 4						
ZPD72KCE-TFD	460 Wye Three Phase		315631P2	cold rolled carbon steel	CR019RA13 & CR019RW13	UUT-1 & 2						

320064P1

ABB & Mersen

SCCR

Fused 5KA

Phase 120 Single

Phase

UUT-5 & 6

CR032RC1K





## Table 2a. CRV 300mm - Certified Sub-Component List Cont.

Condenser : Braz	ed Plate Heat	Exchanger				
Туре	Unit Voltage	Manufacturer	P/N	Material	Designed Model Usage	Tested / Interpolated
Condenser Plate 26 plates	All CR019RW Models	SWEP	257382P2	All 316 stainless steel HX with copper Braze	CR019RW	UUT-3 & 4
Filter						
Туре	Туре	Manufacturer	P/N	Material	Designed Model Usage	Tested / Interpolated
Air Filter	MERV1	Koch Filter Corp.	155419P4	Metal galvanized steel frame, washable quadrafoam filter, MERV	ALL MODELS	UUT-5 & 6
	MERV8		315029P1	media metal mesh backing on both sides	ALL MODELS	UUT-1,2,3 & 4
Condensate Pum	р					
Туре	Unit Voltage	Manufacturer	P/N	Material	Designed Model Usage	Tested / Interpolated
	120		319860G2		CR032RC1K	UUT-5 & 6
1/10 HP	208-230 Single Phase	IED	319860G1	Carbon Steel (motor), Stainless steel shaft, copper (motor windings), plastic	CR032RC1P	Interpolated
Condensate Pump	208-230 Three Phase	Hartell	319860G1	(pump housing, impeller and piping connections).	CR019RA1Y / CR019RW1Y / CR032RC1Y	UUT-3 & 4
	460 Wye Three Phase		319860G3		CR019RA13 / CR019RW13 / CR032RC13	UUT-1 & 2
TEV		R	00	P-0301		
Туре	Unit Voltage	Manufacturer	P/N	Material	Designed Model Usage	Tested / Interpolated
Thermal Expansion Valve	All CR019 Models	Emerson Climate Technologies	315077P1	Brass (body), copper (piping) and stainless steel (internals).	CR019RA / CR019RW	UUT-1,2,3 & 4
Electrical Panel T	ransformer	PDI	HE:	10/11/2022		
Туре	Unit Voltage	Manufacturer	P/N	Material	Designed Model Usage	Tested / Interpolated
Low Voltage Control Isolation Transformer	All	PRA	180792P1	COT.	All Models	UUT-1,2,3,4,5 & 6
	120		317839P1	LIDING	CR032RC1K	UUT-5 & 6
Electrical Panel	208-230 Single Phase	Emerson (Emermex)	136201P1	Carbon Steel laminations and copper windings	CR032RC1P	Interpolated
High Voltage Transformer	208-230 Three Phase	(,	136201P1		CR019RA1Y / CR019RW1Y / CR032RC1Y	UUT-3 & 4
	460 Wye Three Phase		136201P3		CR019RA13/CR019RW1 3 /CR032RC13	UUT-1 & 2
Miscellaneous						
Sub-component	Unit Voltage	Manufacturer	P/N	Material	Designed Model Usage	Tested / Interpolated
Display	All	Vertiv Corporation	314979G2		All Models	UUT-1,2,3,4,5 & 6
		Corporation				
Heat Rejection Control Valve	All CR019RW	Siemens	257271P1	Electrical parts and plastic	CR019RW	UUT-3 & 4
Control Valve Actuator	All CR019RW		257271P1 257371P1	Electrical parts and plastic	CR019RW CR019RW	UUT-3 & 4 UUT-3 & 4
Control Valve Actuator 3 Way Valve/Actuator		Siemens		Stainless steel valve. Electrical parts		
Control Valve Actuator 3 Way	All CR019RW All CR032	Siemens	257371P1	Stainless steel valve. Electrical parts	CR019RW	UUT-3 & 4





#### Table 2b. CRV 600mm - Certified Sub-Component List

Cooling Fans					
Туре	Unit Voltage	Manufacturer	P/N	Material	Tested / Interpolated
EC Fan	208/460	EBM	191881P1	Aluminum blades. Carbon Steel & Copper Motor	UUT-7 & UUT-8
EC Fall	208	EDIVI	257241P1	Auminum blades. Carbon Steer & Copper Motor	Interpolated
	460		257240P1		UUT-9 & UUT-10

Cooling Coils				
Туре	Manufacturer	P/N	Material	Tested / Interpolated
Cooling Coil 4 Row		197515G1	Copper Tube/ Alum. Fins	UUT-7 & UUT-8
Cooling Coil 5 Row	Vertiv Corporation	197479G1		Interpolated
Cooling Coil 6 Row		197542G1	T IIIS	UUT-9 & UUT10
_		OPC	ODE	

Туре	Unit Voltage	Manufacturer	P/N	Material	Tested / Interpolated
	208		191986G1		UUT-7 & UUT-8
	460	Vertiv Corporation	191850G3		Interpolated
Electrical Panel	208		191986G2	Galvanized G90 Steel panel	Interpolated
Assemblies	460		191986G4		UUT-9 & UUT-10
	208		191986G5		Interpolated
	460	DV.	191986G6	rim	Interpolated

<b>Electrical Panel</b>	ectrical Panel Disconnects							
Туре	Unit Voltage	Manufacturer	TE: 1/17/2	022 Material	Tested / Interpolated			
100A Fused 65KA SCCR	208/460	Socomec	303399P3		UUT-7 & UUT-8			
60A Fused 65KA SCCR	208/460	Allen Bradley	303397P2	Aluminum shaft, plated carbon steel body, copper contacts and plastic body	UUT-7, UUT-8, UUT-9 & UUT-10			
30A Fused 65KA SCCR	208/460	Socomec	303399P1	0	UUT-8 & UUT-10			
			BLITININ	69				

Scroll Compressors						
Туре	Unit Voltage	Manufacturer	P/N	Material	Tested / Interpolated	
ZPD72KCE-TF5	208		257220P1	Shell is painted cold rolled carbon steel	UUT-7 & UUT-9	
ZPD72KCE-TFD	460	Canaland	257220P2		Interpolated	
ZPD120KCE-TF5	208	Copeland	257223P1		Interpolated	
ZPD120KCE-TFD	460		257223P2		UUT-8 & UUT-10	

Condenser : Brazed Plate Heat Exchanger						
Туре	Manufacturer	P/N	Material	Tested / Interpolated		
Condenser Plate 26 plates	SWEP	257382P2	All 316 stainless steel HX with copper Braze	UUT-7 & UUT-8		
Condenser Plate 42 plates	SWEF	257383P2		UUT-8 & UUT-10		

Humidifier					
Туре	Unit Voltage	Manufacturer	P/N	Material	Tested / Interpolated
Humidifier	208	Nortec	257521P3	Electrical parts, carbon steel sheetmetal and	UUT-7 & UUT-9
Humunier	460	Nonec	257521P4	plastic	UUT-8 & UUT-10





#### Table 2b. CRV 600mm - Certified Sub-Component List Cont.

Filter							
Туре	Туре	Manufacturer	P/N	Material	Tested / Interpolated		
Air Filter	MERV8 Kash Filter Com 196968P1	196968P1	Beverage board frame, pleated polypropylene	UUT-7 & UUT-9			
All Filler	MERV11	Koch Filter Corp.	196968P2	blend MERV media & metal mesh backing	UUT-8 & UUT-10		

Reheat Assembly								
Туре	Unit Voltage	Manufacturer	P/N	Material	Tested / Interpolated			
6 kW Reheat	208		257604G13	Galvanized steel (mounting plates), nickel plated steel (mounting nuts), stainless steel (electrical	UUT-7 & UUT-9			
Assembly	460	Vertiv Corporation	257604G14	connections) and silicone rubber (insulating terminals).	UUT-8 & UUT-10			

Condensate Pur	np	E	ORCODE	CO	
Туре	Unit Voltage	Manufacturer	P/N	Material	Tested / Interpolated
1/3 HP Condensate	208	Hartell	1A19271P1	Carbon Steel (motor), copper (motor windings), plastic (pump housing and impeller) and brass	UUT-7 & UUT-9
Pump	460	Saiteii	1A19271P2	(piping connections).	UUT-8 & UUT-10
			OSP-038		

TEX					
Туре	Unit Voltage	Manufacturer	Moh <b>æ</b> mmad	Karim Material	Tested / Interpolated
Thermal Expansion	208/460	Sporlan Valve	257260P2	Brass (body), coppe <mark>r (pipi</mark> ng) and stainless steel	UUT-7 & UUT-9
Valve	208/460	Sponan valve	257261P1 - / )	(internals).	UUT-8 & UUT-10

Electrical Panel Transformer						
Туре	Unit Voltage	<b>Manufacturer</b>	P/N	Material	Tested / Interpolated	
Electrical Panel	208	Emerson (Emermex)	136202P1	Carbon Steel laminations and copper windings	UUT-7 & UUT-9	
Transformer	460	Emerson (Emermex)	136202P2		UUT-8 & UUT-10	
			RITOTAL	(1)		

Miscellaneous		BUILDIN	0	
Sub-component	Manufacturer	P/N	Material	Tested / Interpolated
Refrigerant Receiver	Westermeyer	300842P1	Carbon Steel Shell attached to unit base frame	UUT-7, UUT-8, UUT-9 & UUT-10
Heat Rejection Control Valve	Siemens	257271P1	Electrical parts and plastic	UUT-7, UUT-8, UUT-9 & UUT-10
Actuator	Siemens	257371P1	Electrical parts and plastic	UUT-7, UUT-8, UUT-9 & UUT-10
Transformer	ACME	1C23973P1	Carbon Steel and Copper	UUT-7, UUT-8, UUT-9 & UUT-10
Communication Card	Vertiv Corporation	191944G3	Plastic, solder, semiconductors	UUT-7, UUT-8, UUT-9 & UUT-10





Testing Lab:	Clark Testi	ing Lab										
esting Report:	JID 14-129											
Festing Unit Num:	1B		•									
-		Mansingl							Hainh	Too	sted	1
Madal Number		Nominal		Exc	citation	Frequency	Length	Width	Heigh			
Model Number	r	Capacity	Mounting	Diı	rection	* (Hz)	(in)	(in)	t (in)		ating	
		(kW)					<u> </u>	<u> </u>	(in)	weign	nt (Ibs)	
CR019RA13717	34		Rigid Base		Front - Back	17.8						
(CR019RA1370D0A14P0	-	19	Mounted	Y	Side - Side	5.3	43	11 7/8	78 3/4	50	04	
<b>v</b>	,			Z	Vertical	>33.3						
Frequencies are for units pr			0									
Jnit length, width, height and		•										
Nodel Number in parenthesis												
Attachment Method			316G0), cons	0	Seismic Para	ameters					1	
vith Seismic		U	e brackets we		Duilding	Test			Horiz	zontal	Ver	tical
Modifications			the unit. The		Building	Test	S <sub>DS</sub> (g)	z/h		1		
			with four (4)-		Code	Criteria			A <sub>FLX-H</sub>	$\mathbf{A}_{RIG-H}$	A <sub>FLX-V</sub>	ARIG
			angles of the			1						
			Ø self tappin		000 0000	1000	2.00	1.0	0.00	0.40	4 66	0.00
			ke table with		CBC 2022	AC 156	2.50	0.0	3.20g	2.40g	1.68g	0.68
		Glaue o DO	lts per bracke	FL AAAA								L
		CALIF	BY: Moh	amm 10/1		B B		a vor	12			
otes: The UUTs were full The structural integ After the test, the U	I of contents (i grity of the com	t: Unit on the refrigerant & waponent attach	SATE:	e test. e-resisting	g systems was	maintained.	•	1B.2: Mcdif	•			
The structural integ After the test, the U UUT-1B Summary	I of contents (in prity of the con JUT was functi / <b>Tested</b>	t: Unit on the refrigerant & w ponent attachtional and oper	SATE: SATE: Shake table a shake table rater) during the ment and force ated within the mponent	e test. e-resistinge manuface	g systems was curer operation	maintained.	•	/ith Modif	ications			
The structural integ After the test, the U JUT-1B Summary Sub-Component	I of contents (r prity of the con JUT was functi <b>/ Tested</b> Descr	I: Unit on the refrigerant & wa ponent attach ional and oper Sub-Correcting for the section of t	e shake table rater) during th ument and force ated within the mponent PN	e test. e-resisting manufact	g systems was	maintained.		ith Modif	ications			
The structural integ After the test, the U JUT-1B Summary Sub-Component Cooling Fan	I of contents (r grity of the com JUT was functi <b>/ Tested</b> Descr EC (200-277	A: Unit on the refrigerant & w ponent attach ional and oper Sub-Corr ription V 1 phase)	e shake table rater) during th iment and force ated within the mponent PN 315021P2	e test. e-resisting manufact BBM	g systems was curer operation	maintained. hal limits	w des. Carbo	vith Modif Mate	ications	Motor		
The structural integ After the test, the U UUT-1B Summary Sub-Component Cooling Fan Cooling Coil Assembly	I of contents (r grity of the com IUT was functi <b>/ Tested</b> Descr EC (200-277' 3 Row Tube	I: Unit on the refrigerant & w ponent attach ional and oper Sub-Corr ription V 1 phase) & Fin Coil	e shake table rater) during th ment and force ated within the mponent <i>PN</i> 315021P2 315051G1	e test. e-resisting manuface EBM Vertiv Coo	g systems was currer operation ufacturer	maintained. hal limits	W des. Carbo Copper Tu	vith Modif Mate on Steel & ube, Galv.	ications	Motor		
The structural integ After the test, the U JUT-1B Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	rested     Contents (in     rested     Contents (in     rested     Contents (in     rested     Contents	I: Unit on the refrigerant & w ponent attach ional and oper Sub-Corr ription V 1 phase) & Fin Coil 460V	e shake table rater) during th ment and force ated within the mponent PN 315021P2 315051G1 315033G3	e test. e-resisting manuface EBM Vertiv Coo Vertiv Coo	g systems was currer operation ufacturer opporation opporation	maintained. nal limits	des. Carbo Copper Tu 90 Steel pa	vith Modif Mate on Steel & ube, Galv. anel	ications rial Copper I Tube sh	Motor eets		
The structural integ After the test, the U JUT-1B Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect	A Contents (in prity of the conduct	I: Unit on the refrigerant & w ponent attach ional and oper Sub-Cor ription V 1 phase) & Fin Coil 460V A SCCR	e shake table rater) during th ment and force ated within the mponent <i>PN</i> 315021P2 315051G1 315033G3 303397P1	e test. e-resisting manuface EBM Vertiv Co Vertiv Co Allen Bra	g systems was sturer operation ufacturer opporation adley	maintained. hal limits	des. Carbo Copper Tu 90 Steel pa ft, plated ca	/ith Modif ////////////////////////////////////	ications rial Copper I Tube sh	Motor eets	copper co	ontact
The structural integ After the test, the U JUT-1B Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display	I of contents (i prity of the con UT was functi <b>/ Tested</b> EC (200-277 3 Row Tube - CR019RA13 30 Amp 65K ICOM Contro	I: Unit on the refrigerant & w ponent attack ional and oper Sub-Cor ription V 1 phase) & Fin Coil 460V A SCCR of CRV300	e shake table rater) during th ment and force ated within the mponent <i>PN</i> 315021P2 315051G1 315031G3 303397P1 314979G2	e test. e-resisting Manu EBM Vertiv Co Vertiv Co Allen Bra Vertiv Co	g systems was cturer operation ufacturer opporation adley opporation	maintained. hal limits	des. Carbo Copper Tu 90 Steel pa ft, plated ca s and plast	/ith Modif ////////////////////////////////////	rial Copper I Tube sh	Motor eets	copper co	ontact
The structural integ After the test, the U JUT-1B Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor	I of contents (i grity of the con IUT was functi <b>/ Tested</b> EC (200-2777 3 Row Tube e CR019RA13 30 Amp 65K ICOM Contro Scroll ZPD72	1: Unit on the refrigerant & w ponent attach ional and oper <b>Sub-Corr</b> V 1 phase) & Fin Coil 460V A SCCR 0 CRV300 KCE-TFD	e shake table rater) during th iment and force ated within the mponent <i>PN</i> 315021P2 315051G1 315033G3 303397P1 314979G2 315631P2	e test. e-resisting manuface EBM Vertiv Co Vertiv Co Allen Bra Vertiv Co Copeland	g systems was cturer operation ufacturer opporation adley opporation	Aluminum bla Aluminum fin, Galvanized G Aluminum shai Electrical part	des. Carbo Copper Tu 90 Steel pa ft, plated ca s and plass ed cold rolle	/ith Modif // Mate on Steel & Jube, Galv. Jube, Galv.	ications rial Copper I Tube shi plastic bo	Motor eets ody, and ¢		
The structural integ After the test, the U JUT-1B Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor	I of contents (i prity of the con UT was functi <b>/ Tested</b> EC (200-277 3 Row Tube - CR019RA13 30 Amp 65K ICOM Contro	1: Unit on the refrigerant & w ponent attach ional and oper <b>Sub-Corr</b> V 1 phase) & Fin Coil 460V A SCCR 0 CRV300 KCE-TFD	e shake table rater) during th ment and force ated within the mponent <i>PN</i> 315021P2 315051G1 315031G3 303397P1 314979G2	e test. e-resisting Manu EBM Vertiv Co Vertiv Co Allen Bra Vertiv Co	g systems was cturer operation ufacturer opporation adley opporation	maintained. hal limits Aluminum bla Aluminum fin, Galvanized G Aluminum shar Electrical part Shell is painte Carbon Steel	des. Carbo Copper Tu 90 Steel pa ft, plated ca s and plass d cold rolle (motor), cc	Mate Mate on Steel & Jbe, Galv. John Steel Jicon Steel Troon steel tic ed carbon opper (mot	ications rial Copper I Tube shi 'plastic bo steel or windir	Motor eets ody, and o	stic (pum	
The structural integ After the test, the U JUT-1B Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor Condensate Pump	I of contents (i prity of the con UT was functi <b>/ Tested</b> EC (200-277' 3 Row Tube CR019RA13 30 Amp 65K ICOM Contro Scroll ZPD72 1/10 HP 266 <sup>1</sup>	t: Unit on the refrigerant & w ponent attach ional and oper Sub-Corr ription V 1 phase) & Fin Coil 460V A SCCR A SCCR A CCR A CCR A CCR VAC	e shake table rater) during th ment and force rated within the mponent <u>PN</u> 315051G1 315031P2 315051G1 315033G3 303397P1 315031P2 315631P2 319860G3	e test. e-resisting manufac EBM Vertiv Co Vertiv Co Copeland Hartell	esteres was currer operation ufacturer opporation adley opporation d	maintained. hal limits Aluminum bla Aluminum fin, Galvanized G Aluminum shar Electrical part Shell is paintee Carbon Steel housing and in	des. Carbo Copper Tu 90 Steel pa ft, plated ca s and plas d cold rolle (motor), co mpeller) ar	Mate Mate on Steel & Jbe, Galv. anel Irbon steel tic ed carbon opper (mot d brass (p	rial Copper I Tube sh plastic bo steel or windir iping con	Motor eets ody, and d ngs), plas	stic (pum	
The structural integ After the test, the U JUT-1B Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor Condensate Pump Thermal Expansion Valve	A contents (in prity of the conturbed of the conturb	I: Unit on the refrigerant & w ponent attack ional and oper Sub-Corr ription V 1 phase) & Fin Coil 460V A SCCR A SCCR A SCCR CRV300 KCE-TFD VAC	ATE: ATE: ATE: ATE: ATE: ATE: ATE: ATE:	e test. e-resisting EBM Vertiv Co Vertiv Co Allen Bra Vertiv Co Copelanc Hartell Emerson	g systems was sturer operation ufacturer opporation adley opporation d	maintained. nal limits Aluminum bla Aluminum fin, Galvanized G Aluminum shai Electrical part Shell is painte Carbon Steel housing and it Brass (body),	des. Carboo Copper Tu 90 Steel pa 90 Steel pa ft, plated ca s and plass d cold rolle (motor), cc mpeller) ar copper (pi	Mate Mate on Steel & Jbe, Galv. anel Inton steel tic ed carbon opper (mot d brass (p ping) and	rial Copper I Tube shr plastic bo steel or windir iping con stainless	Motor eets ody, and d ngs), plas nnections steel (in	stic (pum s). ternals).	p
The structural integ After the test, the U JUT-1B Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor Condensate Pump Thermal Expansion Valve	I of contents (i prity of the con UT was functi <b>/ Tested</b> EC (200-277' 3 Row Tube CR019RA13 30 Amp 65K ICOM Contro Scroll ZPD72 1/10 HP 266 <sup>1</sup>	I: Unit on the refrigerant & w ponent attack ional and oper Sub-Corr ription V 1 phase) & Fin Coil 460V A SCCR A SCCR A SCCR CRV300 KCE-TFD VAC	e shake table rater) during th ment and force rated within the mponent <u>PN</u> 315051G1 315031P2 315051G1 315033G3 303397P1 315031P2 315631P2 319860G3	e test. e-resisting manufac EBM Vertiv Co Vertiv Co Copeland Hartell	g systems was sturer operation ufacturer opporation adley opporation d	maintained. hal limits Aluminum bla Aluminum bla Aluminum fan Galvanized Aluminum shai Electrical part Shell is painte Carbon Steel housing and it Brass (body), Beverage boa	des. Carbo Copper Tu 90 Steel pa 5 and plas d cold rolle (motor), co mpeller) ar copper (pi urd frame, p	Mate Mate on Steel & ube, Galv. anel irbon steel tic ed carbon opper (mol d brass (p ping) and oleated poo	rial Copper I Tube shr plastic bo steel or windir iping con stainless	Motor eets ody, and d ngs), plas nnections steel (in	stic (pum s). ternals).	p
The structural integ After the test, the U UUT-1B Summary Sub-Component Cooling Fan	A contents (in prity of the conturbed of the conturb	1: Unit on the refrigerant & w ponent attach ional and oper Sub-Corr ription V 1 phase) & Fin Coil 460V A SCCR of CRV300 KCE-TFD VAC sion Valve	ATE: ATE: ATE: ATE: ATE: ATE: ATE: ATE:	e test. e-resisting Manu EBM Vertiv Co Allen Bra Vertiv Co Copelanc Hartell Emerson Koch Filtu	g systems was sturer operation ufacturer opporation adley opporation d	maintained. nal limits Aluminum bla Aluminum fin, Galvanized G Aluminum shai Electrical part Shell is painte Carbon Steel housing and it Brass (body),	des. Carbo Copper Tu 90 Steel pa ft, plated ca s and plass d cold rolle (motor), cc mpeller) ar copper (pi urd frame, p I mesh bac	Mate Mate on Steel & ube, Galv. anel arbon steel tic ad carbon opper (mol ad brass (p ping) and oleated po cking	ications rial Copper I Tube sh 'plastic bo steel or windir piping con stainless lypropyle	Motor eets ody, and o ngs), plas nnections steel (in ene blence	stic (pum s). ternals).	p
The structural integ After the test, the U JUT-1B Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor Condensate Pump Thermal Expansion Valve Air Filter	I of contents (i prity of the com JUT was functi / Tested EC (200-2777 3 Row Tube CR019RA13 30 Amp 65K ICOM Contro Scroll ZPD72 1/10 HP 266V 6 Ton Expans MERV8 Filter 200VA 460-6 X 24 Volt 60	1: Unit on the refrigerant & w ponent attach ional and oper Sub-Cor Sub-Cor Sub-Cor Sub-Cor Sub-Cor Cor Sub-Cor Cor Sub-Cor Cor A SCCR of CRV300 RCE-TFD VAC sion Valve r 000 Volt Hz.	ATE: ATE: ATE: ATE: ATE: ATE: ATE: ATE:	e test. e-resisting manufac EBM Vertiv Co Vertiv Co Vertiv Co Copeland Hartell Emerson Koch Filte Emerson	uut-1 uut-1	Aluminum bla Aluminum bla Aluminum bla Aluminum fin, Galvanized G Aluminum shat Electrical part Shell is painte Carbon Steel housing and ii Brass (body), Beverage boa media & meta	des. Carbo Copper Tu 90 Steel pa t, plated ca s and plass ad cold roller (motor), co mpeller) ar copper (pi rrd frame, p I mesh bac lamination	/ith Modif /ith Modif // // // // // // // // // // // // //	ications vrial Copper I Tube shu 'plastic bo steel or windir piping con stainless lypropyle ber windi	Motor eets ody, and o ngs), plas nnections steel (in ene blenc	stic (pum s). ternals).	p





Testing Lab:	Clark Testi	ind Lab										
Testing Report:	JID 14-129		-									
Testing Unit Num:	10	-	-									
			-								_	
		Nominal		F	xcitation	Frequency	Length	Width	Height		sted	
Model Numbe	er	Capacity	Mounting		Direction	* (Hz)	(in)	(in)	(in)		ating	
		(kW)		2	in eetion	(112)	(11)	(11)	(11)	Weigh	nt (lbs)	
				Х	Front - Back	17.1						
CR019RA13717	• ·	19	Rigid Base	Y	Side - Side	4.2	43	11 7/8	78 3/4	50	04	
CR019RA1370D0A13P0	J60PA1734)	-	Mounted	Z	Vertical	>33.3						
Frequencies are for units p	rior to ICC ES	AC-156 testir	ıg.	_		0010						
Jnit length, width, height and	d operating we	ight within 10	% of those list	ted in Ta	ble 1.							
lodel Number in parenthesi	s is full model	number base	d on current r									
Attachment Method	Carbon stee	el angles (pa	art # 317816	G2)	Seismic Para	meters						
	were installe	ed on each	end of the ur	nit with					Horiz	ontal	Vert	ical
	(6) 1/4"Ø se				Building	Test	S <sub>DS</sub> (g)	z/h	HUNZ		ver	udi
	anchored to	the shake t	able with (4)	) -1/2ӯ	Code	Criteria	ODS (9)	2/11	Δ	Δ	A <sub>FLX-V</sub>	Δ.
	Grade 8 bol	lts (8 per bra	acket).		((				A <sub>FLX-H</sub>	∽RIG-H	TFLX-V	- RIO
				<u>λλλλλλ</u>	• CBC 2022	AC 156	0.80	1.0	1.28g	0.96g	0.54g	0.2
		K		11///6/11	CBC 2022	AC 150	0.00	1.0	1.20y	0.909	0.54g	0.24
			BY: No ATE:	hám 10,	ССКат UUT-10					0 00		
The structural integ	Il of contents (i grity of the com	refrigerant & v nponent attac	ATE: ATE: ATE: ATE: ATE: ATE: ATE: ATE:	e the test. rce-resis	ting systems was	e maintained.	Figure	1C.2: M	ounting E	Details		
The structural integ After the test, the L	Il of contents (i grity of the con JUT was functi	refrigerant & v nponent attac ional and ope	ATE: ATE: ATE: Attributed and the shake table water) during the herent and for irrated within the	100 View of the set of	ting systems was	e maintained.	Figure	1C.2: M	ounting D	Details		
The structural integ After the test, the L	Il of contents (i grity of the con JUT was functi	refrigerant & v nponent attac ional and ope	ATE: ATE: ATE: Attributed and the shake table water) during the herent and for irrated within the	100 View of the set of	ting systems was	e maintained.	Figure	1c.2: M	ounting E	Details		
The structural integ After the test, the L	Il of contents (i grity of the con JUT was functi	refrigerant & v nponent attac ional and ope <b>Sub-Co</b>	ATE: ATE: ATE: Attributed and the shake table water) during the herent and for irrated within the	e the test. rce-resiste me manuf	ting systems was	e maintained.	Figure	1C.2: Mate		Details		
The structural integ After the test, the L JUT-1C Summary Sub-Component Cooling Fan	Il of contents (i grity of the con JUT was functi <b>y Tested</b>	refrigerant & v nponent attac ional and ope Sub-Co iption	e shake tabl water) during the ment and for rrated within the mponen	e the test. rce-resiste me manuf	ting systems was facturing operation	e maintained. onal limits	les. Carbo	Mate	erial Copper M	lotor		
The structural integ After the test, the L JUT-1C Summary Sub-Component Cooling Fan	II of contents (n grity of the con JUT was functi <b>y Tested</b> Descr	refrigerant & v nponent attac ional and ope <b>Sub-Co</b> iption V 1 phase)	e shake tabl water) during t hment and for rated within th mponem PN 315021P2 315051G1	e the test. rce-resiste manufit t Mau EBM	ting systems was facturing operation	e maintained.	les. Carbo	Mate	erial Copper M	lotor		
The structural integ After the test, the L JUT-1C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	II of contents (i grity of the con JUT was functi <b>y Tested</b> <u>Descr</u> EC (200-277 3 Row Tube CR019RA13	refrigerant & \ nponent attac ional and ope <b>Sub-Co</b> <i>iption</i> V 1 phase) & Fin Coil 460V	e shake tabl water) during the herent and for rated within the mponem PN 315021P2 315051G1 315033G3	e the test. cce-resisting manufit EBM Vertiv C Vertiv C	ting systems was facturing operation nufacturer	e maintained. conal limits	les. Carbo Copper Tu 20 Steel pa	<i>Mate</i> n Steel & be, Galv. nel	erial Copper M Tube she	lotor ets		
The structural integ After the test, the L JUT-1C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	I of contents (i grity of the con JUT was functi <b>y Tested</b> EC (200-277 3 Row Tube CR019RA13 30 Amp 65K	refrigerant & v nponent attactional and ope Sub-Co iption V 1 phase) & Fin Coil 460V A SCCR	e shake tabl water) during t hment and for rated within th mponem <u>PN</u> 315021P2 315051G1 315033G3 303397P1	e the test. cce-resistive manufit t BBM Vertiv C Vertiv C Allen Br	ting systems was facturing operation nufacturer Corporation corporation radley	e maintained. conal limits Aluminum blac Aluminum fin, Galvanized GG Aluminum shaft	les. Carbo Copper Tu 00 Steel pa	Mate n Steel & be, Galv. nel	erial Copper M Tube she	lotor ets		
The structural integ After the test, the U JUT-1C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display	I of contents (i grity of the con JUT was functi <b>y Tested</b> EC (200-277 3 Row Tube CR019RA13 30 Amp 65K ICOM Contro	refrigerant & v nponent attactional and oper Sub-Co <i>iption</i> V 1 phase) & Fin Coil 460V A SCCR I CRV300	e shake tabl water) during the ment and for rated within the mponem 315021P2 315051G1 315033G3 303397P1 314979G2	e the test. cce-resist me manuf t BBM Vertiv C Vertiv C Allen Br Vertiv C	ting systems was facturing operation nufacturer Corporation Corporation cadley Corporation	a maintained. bonal limits	les. Carbo Copper Tu 00 Steel pa t, plated car a and plasti	Mate n Steel & be, Galv. nel rbon steel/ c	erial Copper M Tube she	lotor ets		
The structural integ After the test, the U JUT-1C Summary Sub-Component Cooling Fan Cooling Coil Assembly dectrical Panel Assembly disconnect display	I of contents (i grity of the con JUT was functi <b>y Tested</b> EC (200-277 3 Row Tube CR019RA13 30 Amp 65K	refrigerant & v nponent attactional and oper Sub-Co <i>iption</i> V 1 phase) & Fin Coil 460V A SCCR I CRV300	e shake tabl water) during t hment and for rated within th mponem <u>PN</u> 315021P2 315051G1 315033G3 303397P1	e the test. cce-resistive manufit t BBM Vertiv C Vertiv C Allen Br	ting systems was facturing operation nufacturer Corporation Corporation cadley Corporation	a maintained. onal limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Shell is painted	les. Carbo Copper Tu 30 Steel pa t, plated car and plasti d cold rolle	Mate n Steel & be, Galv. nel bon steel/ c d carbon	erial Copper M Tube she /plastic boo	lotor ets dy, and c	••• 	
The structural integ After the test, the U JUT-1C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor	I of contents (i grity of the con JUT was functi <b>y Tested</b> EC (200-277 3 Row Tube CR019RA13 30 Amp 65K ICOM Contro	refrigerant & v nponent attac ional and ope <b>Sub-Co</b> iption V 1 phase) & Fin Coil 460V A SCCR I CRV300 KCE-TFD	e shake tabl water) during the ment and for rated within the mponem 315021P2 315051G1 315033G3 303397P1 314979G2	e the test. cce-resist me manuf t BBM Vertiv C Vertiv C Allen Br Vertiv C	ting systems was facturing operation nufacturer Corporation Corporation cadley Corporation	e maintained. onal limits Aluminum blac Aluminum shaft Electrical parts Shell is painter Carbon Steel (	les. Carbo Copper Tu 30 Steel pa 1, plated car 5 and plasti d cold rolle motor), co	Mate n Steel & be, Galv. nel 'bon steel/ c d carbon ppper (mot	erial Copper M Tube she /plastic boo steel steel oor winding	lotor ets dy, and co	tic (pump	
The structural integ After the test, the U JUT-1C Summary Sub-Component Cooling Fan Cooling Coil Assembly lectrical Panel Assembly disconnect tisplay compressor	I of contents (i grity of the con JUT was functi <b>y Tested</b> EC (200-277' 3 Row Tube CR019RA13 30 Amp 65K ICOM Contro Scroll ZPD72 1/10 HP 266V	refrigerant & v opponent attactional and oper Sub-Co iption V 1 phase) & Fin Coil 460V A SCCR M CRV300 KCE-TFD VAC	e shake tabl water) during the ment and for rated within th mponem 315021P2 315051G1 315033G3 303397P1 314979G2 315631P2 319860G3	e the test. ce-resis me manuf t BBM Vertiv C Vertiv C Allen Br Vertiv C Copelar Hartell	ting systems was facturing operation nufacturer Corporation Corporation adley Corporation and	a maintained. onal limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Shell is paintee Carbon Steel ( housing and in	les. Carbo Copper Tu 30 Steel pa 1, plated car 5 and plasti d cold rolle motor), co npeller) an	Mate n Steel & be, Galv. nel 'bon steel/ c d carbon pper (mot d brass (p	erial Copper M Tube she /plastic boo steel steel or winding iping con	lotor ets dy, and co gs), plast nections	tic (pump ).	
The structural integ After the test, the U JUT-1C Summary Sub-Component Cooling Fan Cooling Coil Assembly lectrical Panel Assembly disconnect tisplay compressor	II of contents (r grity of the con JUT was functi y Tested Descr EC (200-277' 3 Row Tube e CR019RA13 30 Amp 65K ICOM Contro Scroll ZPD72	refrigerant & v opponent attactional and oper Sub-Co iption V 1 phase) & Fin Coil 460V A SCCR M CRV300 KCE-TFD VAC	e shake tabl water) during the ment and for rated within the mponem 315021P2 315051G1 31503G3 303397P1 314979G2 315631P2	e the test. ce-resis me manuf t BBM Vertiv C Vertiv C Allen Br Vertiv C Copelar Hartell	ting systems was facturing operation nufacturer Corporation Corporation cadley Corporation	a maintained. onal limits Aluminum blac Aluminum blac Aluminum shaft Electrical parts Shell is painter Carbon Steel ( housing and in Brass (body), o	les. Carbo Copper Tu 30 Steel pa 1, plated car 5 and plasti d cold rolle motor), co npeller) an copper (pip	Mate n Steel & be, Galv. nel bon steel/ c d carbon pper (mot d brass (p ing) and	erial Copper M Tube she /plastic boo steel or winding oiping con stainless s	lotor ets dy, and co gs), plast nections steel (into	iic (pump ). ernals).	
The structural integ After the test, the U JUT-1C Summary Sub-Component cooling Fan cooling Coil Assembly lectrical Panel Assembly isconnect isplay compressor condensate Pump hermal Expansion Valve	I of contents (i grity of the con JUT was functi <b>y Tested</b> EC (200-277' 3 Row Tube CR019RA13 30 Amp 65K ICOM Contro Scroll ZPD72 1/10 HP 266V	refrigerant & v nponent attac- ional and oper Sub-Co iption V 1 phase) & Fin Coil 460V A SCCR I CRV300 KCE-TFD VAC sion Valve	e shake tabl water) during the ment and for rated within th mponem 315021P2 315051G1 315033G3 303397P1 314979G2 315631P2 319860G3	e the test. cce-resis me manuf t EBM Vertiv C Allen Br Vertiv C Copelar Hartell Emerso	ting systems was facturing operation nufacturer Corporation Corporation adley Corporation and	a maintained. onal limits Aluminum blace Aluminum fin, Galvanized GS Aluminum shaff Electrical parts Shell is painter Carbon Steel ( housing and in Brass (body), o Beverage boar	les. Carbo Copper Tu 20 Steel pa t, plated car a and plasti d cold rolle motor), co npeller) an copper (pip rd frame, p	Mate n Steel & be, Galv. nel bon steel/ c d carbon pper (mot d brass (p ing) and	erial Copper M Tube she /plastic boo steel or winding oiping con stainless s	lotor ets dy, and co gs), plast nections steel (into	iic (pump ). ernals).	
The structural integ After the test, the U JUT-1C Summary Sub-Component Cooling Fan Cooling Coil Assembly dectrical Panel Assembly disconnect display compressor condensate Pump hermal Expansion Valve ir Filter	I of contents (i grity of the con JUT was functi <b>y Tested</b> Descr EC (200-277 3 Row Tube e CR019RA13 30 Amp 65K ICOM Contro Scroll ZPD72 1/10 HP 266 <sup>1</sup> 6 Ton Expansi MERV8 Filter 200VA 460-6	refrigerant & v nponent attactional and oper Sub-Co iption V 1 phase) & Fin Coil 460V A SCCR I CRV300 KCE-TFD VAC sion Valve	ATE: ATE: ATE: ATE: Attribute Attrib	e the test. ce-resis me manuf EBM Vertiv C Vertiv C Allen Br Vertiv C Copelar Hartell Emerso Koch Fi	ting systems was facturing operation nufacturer Corporation cadley Corporation adley Corporation adley Corporation adley Corporation adley Corporation adley Corporation adley Corporation adley Corporation adley Corporation	a maintained. bonal limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Shell is painter Carbon Steel ( housing and in Brass (body), d Beverage boar & metal mesh	les. Carbo Copper Tu 30 Steel pa 4, plated car a and plasti d cold rolle motor), co npeller) an copper (pip rd frame, p backing	Mate n Steel & be, Galv. nel con steel/ c d carbon pper (mot d brass (p oing) and leated po	Prial Copper M Tube she /plastic boo steel or winding opiping con stainless s lypropyler	lotor ets dy, and co gs), plast nections steel (into he blend	iic (pump ). ernals).	
The structural integ After the test, the U JUT-1C Summary Sub-Component cooling Fan cooling Coil Assembly lectrical Panel Assembly isconnect isplay compressor condensate Pump hermal Expansion Valve ir Filter	I of contents (i grity of the con JUT was functi y Tested EC (200-277' 3 Row Tube CR019RA13 30 Amp 65K ICOM Contro Scroll ZPD72 1/10 HP 266V 6 Ton Expans MERV8 Filter 200VA 460-6 X 24 Volt 60	refrigerant & v nponent attac ional and oper Sub-Co iption V 1 phase) & Fin Coil 460V A SCCR I CRV300 KCE-TFD VAC sion Valve 100 Volt Hz.	ATE: ATE: ATE: ATE: Attributions e shake table water) during the ment and for rated within the mponen Monen	e the test. rce-resiste manuf EBM Vertiv C Vertiv C Allen Br Vertiv C Copelar Hartell Emerso Koch Fi Emerso	ting systems was facturing operation corpo	a maintained. bonal limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaff Electrical parts Shell is painted Carbon Steel ( housing and in Brass (body), Beverage boar & metal mesh Carbon Steel I	les. Carbo Copper Tu 20 Steel pa t, plated can a and plasti d cold rolle motor), co npeller) an copper (pip rd frame, p backing aminations	Mate n Steel & be, Galv. nel 'bon steel/ c d carbon pper (mot d brass (p bing) and i leated po	erial Copper M Tube she /plastic boo steel or winding biping con stainless s lypropyler per windin	lotor ets dy, and co gs), plast nections steel (into ne blend gs	iic (pump ). ernals).	
The structural integ After the test, the U UUT-1C Summary	I of contents (i grity of the con JUT was functi y Tested EC (200-277' 3 Row Tube CR019RA13 30 Amp 65K ICOM Contro Scroll ZPD72 1/10 HP 266V 6 Ton Expans MERV8 Filter 200VA 460-6 X 24 Volt 60	refrigerant & v apponent attactional and oper Sub-Co iption V 1 phase) & Fin Coil 460V A SCCR I CRV300 KCE-TFD VAC sion Valve r 00 Volt Hz. X 22 Volt	ATE: ATE: ATE: ATE: Attribute Attrib	e the test. tree-resiste manuf EBM Vertiv C Vertiv C Allen Br Vertiv C Copelar Hartell Emerso Koch Fi Emerso	ting systems was facturing operation nufacturer Corporation cadley Corporation adley Corporation adley Corporation adley Corporation adley Corporation adley Corporation adley Corporation adley Corporation adley Corporation	a maintained. bonal limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Shell is painter Carbon Steel ( housing and in Brass (body), d Beverage boar & metal mesh	les. Carbo Copper Tu 20 Steel pa t, plated can a and plasti d cold rolle motor), co npeller) an copper (pip rd frame, p backing aminations aminations	Mate n Steel & be, Galv. nel rbon steel/ c d d carbon pper (mot d brass (p bing) and leated po and copp and copp	erial Copper M Tube she /plastic boo steel or winding biping con stainless s lypropyler per windin	lotor ets dy, and co gs), plast nections steel (into ne blend gs	iic (pump ). ernals).	





UUT-2 Test Sum	mary											
Testing Lab:	Clark Testi	ng Lab										
Testing Report:	JID 14-129											
Testing Unit Num:	2											
		Nominal								Tes	ted	1
Model Numbe	er	Capacity (kW)	Mounting		citation irection	Frequency * (Hz)	Length (in)	Width (in)	Height (in)	Oper	ating It (Ibs)	
CR019RA13717 (CR019RA1370D0A14P0		19	Rigid on 18" Floor	X Y	Front - Back Side - Side	24.0 5.0	43	11 7/8	78 3/4	5	03	
•	,		Stand	Z	Vertical	>33.3						
* Frequencies are for units p Unit length, width, height and Model Number in parenthes	d operating we	eight within 1	0% of those lis									
Attachment Method		,i		/	Seismic Para	meters			1			
with Seismic Modifications	with (14) 1/4	"Ø self tap	d back of the bing screws (	each	Building	Test	S <sub>DS</sub> (g)	z/h	Horiz	ontal	Ver	tical
	The floor sta	and is ancho	nit to the floo ored to the sh	nake	Code	Criteria	- 53 (3)		A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
	table with (2 per bracket		eter Grade 8	bolts	CBC 2022	AC 156	2.00 2.50	1.0 0.0	3.20g	2.40g	1.68g	0.68g
Notes: The UUTs were fu The structural inte After the test, the I	grity of the co UUT was func	refrigerant & nponent atta tional and op	hake table water) during chment and fo erated within t	rce-resis			Figure	2: Mount Modific	ting Deta	ils with		
Sub-Component	Descr	ption	PN	Mar	ufacturer			Mat	erial			
Cooling Fan	EC (200-277)		315021P2	EBM		Aluminum blac	les, Carbo			lotor		
Cooling Coil Assembly	3 Row Tube	. ,	315051G1		orporation	Aluminum fin,						
Electrical Panel Assembly	CR019RA13		315033G3		orporation	Galvanized G						
Disconnect	30 Amp 65K		303397P1	Allen Br		Aluminum shaf	t, plated ca	rbon steel	/plastic boo	dy and co	pper con	tacts
Display	ICOM Contro		314979G2		orporation	Electrical parts						
Compressor Condensate Pump	Scroll ZPD72		315631P2 319860G3	Copelar Hartell	nd	Shell is painted Carbon Steel ( housing and in	motor), co	pper (mo	tor winding			1
Thermal Expansion Valve	6 Ton Expans	sion Valve	315077P1	Emerso	n Climate Tech.	Brass (body),						
Air Filter	MERV8 Filter		315029P1		ter Corp.	Beverage boar & metal mesh	rd frame, p					media
Electrical Panel Transformer	200VA 460-6 X 24 Volt 60		136201P3	Emerso	n (Emermex)	Carbon Steel I		s and cop	per windin	gs		
Electrical Panel Transforme			180792P1	Emerso	n (Emermex)	Carbon Steel I	amination	s and cop	per windin	gs		
Communication Card	1-WEBL card		191944G3		orporation	Plastic, solder						
				•								





Testing Lab:	Clark Testin	g Lab										
Testing Report:	JID 14-1292		-									
Testing Unit Num:	3B		-									
		Nominal								Tes	tea	1
Model Nun	nhor	Capacity	Mounting	E	excitation	Frequency	Length	Width	Height	Oper	ating	
Model Null	ibei	(kW)	wounting	Ĺ	Direction	* (Hz)	(in)	(in)	(in)		ight	
				Х	Front - Back	17.8				(lh	<u>(a</u>	
CR019RW1Y		19	Rigid Base	Ŷ	Side - Side	5.3	43	11 7/8	78 3/4	54	48	
(CR019RW1Y40D0A7	4P060PA1734)	15	Mounted	Z	Vertical	>33.3	40	11770	10 3/4	0-	10	
Frequencies are for unit Jnit length, width, height Model Number in parenth	and operating wei	ght within 10%	of those liste	d in Tab	le 1. ure							4
Attachment Method	Seismic kits (		<i>/</i> :	<u> </u>	Seismic Para	meters	I		I			
with Seismic	of seismic pla					<b>-</b> ·			Horiz	ontal	Ver	tica
Modifications	installed on e				Building	Test	S <sub>DS</sub> (g)	z/h	<u> </u>	1		
	of the kit were				Code	Criteria			A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RI</sub>
	self tapping s attached with				With O	1					<u> </u>	
	and anchored				CBC 2022	AC 156	2.00	1.0	3.20g	2.40g	1 680	0.6
	1/2" diameter (				000 2022	A0 150	2.00	1.0	0.209	2.40g	1.009	0.0
			ATE:	10/	ad Kær 7/2022					1.	*	
The structural ir After the test, th	Figure 3B.1: efull of contents (rentegrity of the comme UUT was function	efrigerant & wa ponent attachr onal and opera	ater) during th ment and force ated within the	e-resisti				3B.2: Mo		Details		
The structural ir After the test, th UUT-3B Summa	e full of contents (rentegrity of the com ne UUT was function ary Tested	efrigerant & wa ponent attachr onal and opera Sub-Con	ater) during the ment and force ated within the <b>ponent</b>	e-resistii manufa	acturer operationa			vith Modif	fications	Details		
The structural in After the test, th UUT-3B Summa Sub-Component	e full of contents (rentegrity of the com ne UUT was function ary Tested ( Descri	efrigerant & wa ponent attachr onal and opera Sub-Con	ater) during th ment and force ated within the <b>nponent</b> <i>PN</i>	e-resistii manufa <u>Ma</u>		al limits	w	rith Modif Mater	fications			
The structural in After the test, th UUT-3B Summa Sub-Component Cooling Fan	e full of contents (rentegrity of the com ne UUT was function ary Tested ( Descrit EC (200-277V	efrigerant & wa ponent attachr onal and opera Sub-Con iption 1 phase)	ater) during th ment and forca ated within the <b>nponent</b> <i>PN</i> 315021P2	e-resistii manufa <b>Ma</b> EBM	acturer operationa	al limits	w des. Carbo	rith Modif Mater	fications rial Copper M	otor	1	
The structural in After the test, th UUT-3B Summa Sub-Component Cooling Fan Cooling Coil Assembly	e full of contents (re ntegrity of the com ne UUT was function ary Tested Descrit EC (200-277V 3 Row Tube &	efrigerant & wa ponent attachr onal and opera Sub-Con Sub-Con iption 1 phase) Fin Coil	ater) during th ment and force ated within the <b>nponent</b> <i>PN</i>	e-resistii manufa <u>Ma</u> EBM Vertiv (	acturer operationa	al limits	w des. Carbo Copper Tu	vith Modif Mater n Steel & ( be, Galv.	fications rial Copper M	otor		
The structural in After the test, th UUT-3B Summa Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	e full of contents (re ntegrity of the com ne UUT was function ary Tested Descrit EC (200-277V 3 Row Tube &	efrigerant & wa ponent attachr onal and opera <b>Sub-Con</b> iption 1 phase) Fin Coil 208-230V	ater) during th ment and forca ated within the <b>nponent</b> <i>PN</i> 315021P2 315051G1	e-resistii manufa <u>Ma</u> EBM Vertiv (	nufacturer operationa nufacturer Corporation Corporation	al limits Aluminum blao Aluminum fin,	des. Carbo Copper Tu 20 Steel pa	ith Modif Mater n Steel & ( be, Galv. nel	fications rial Copper M Tube shee	otor ets		Dontac
The structural in After the test, th JUT-3B Summa Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect	e full of contents (re ntegrity of the com ne UUT was function ary Tested ( Descrit EC (200-277V 3 Row Tube & ( CR019RW1Y 2	efrigerant & wa ponent attacht onal and opera Sub-Con Sub-Con iption 1 phase) Fin Coil 208-230V SCCR	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2	e-resistii manufa <b>Ma</b> EBM Vertiv ( Allen B	nufacturer operationa nufacturer Corporation Corporation	al limits Aluminum blace Aluminum fin, Galvanized GS	des. Carbo Copper Tu 20 Steel pa t, plated car	Mater Mater n Steel & ( be, Galv. nel bon steel/j	fications rial Copper M Tube shee	otor ets	opper cc	ontac
The structural in After the test, th JUT-3B Summa Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor	e full of contents (rentegrity of the com the UUT was function ary Tested 5 EC (200-277V) 3 Row Tube & 7 CR019RW1Y 2 60 Amp 65KA ICOM Control 0 Scroll ZPD120	efrigerant & wa ponent attacht onal and opera <b>Sub-Con</b> <b>jption</b> 1 phase) Fin Coil 208-230V SCCR CRV300 KCE-TF5	ater) during th ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2	e-resistii manufa <b>Ma</b> EBM Vertiv ( Allen B	Corporation Corporation Corporation Corporation radley Corporation	al limits Aluminum blao Aluminum fin, Galvanized GS Aluminum shaf Electrical parts Shell is painte	des. Carbo Copper Tu 20 Steel pa t, plated car s and plasti d cold rolle	Mater n Steel & 0 be, Galv. <sup>-</sup> nel bon steel/ c d carbon s	fications rial Copper M Tube shee plastic boo	otor ets dy and cc	opper cc	pontac
The structural in After the test, th JUT-3B Summa Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor	e full of contents (re the tregrity of the com- the UUT was function ary Tested 5 Descrit EC (200-277V 3 Row Tube & 7 CR019RW1Y 2 60 Amp 65KA ICOM Control of	efrigerant & wa ponent attacht onal and opera <b>Sub-Con</b> <b>jption</b> 1 phase) Fin Coil 208-230V SCCR CRV300 KCE-TF5	ater) during th ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2	e-resistii manufa BBM Vertiv ( Vertiv ( Allen B Vertiv (	Corporation Corporation Corporation Corporation radley Corporation	al limits Aluminum blac Aluminum fin, Galvanized G Aluminum shaf Electrical parts Shell is painte All 316 stainle	des. Carbo Copper Tu 90 Steel pa t, plated car s and plasti d cold rolle ss steel HX	Mater n Steel & C be, Galv nel bon steel/p c d carbon s 4 with copp	fications fications rial Copper M Tube she plastic boo steel per Braze	otor ets dy and cc		
The structural in After the test, th JUT-3B Summa Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger	e full of contents (rentegrity of the com the UUT was function ary Tested 5 EC (200-277V) 3 Row Tube & 7 CR019RW1Y 2 60 Amp 65KA ICOM Control 0 Scroll ZPD120	efrigerant & wa ponent attacht onal and opera <b>Sub-Con</b> <b>ption</b> 1 phase) Fin Coil 208-230V SCCR CRV300 KCE-TF5 B80X26 UL	ater) during th ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2	e-resistii manufa Ma EBM Vertiv C Vertiv C Allen B Vertiv C Copela	Corporation Corporation Corporation Corporation radley Corporation	al limits Aluminum blac Aluminum fin, Galvanized G Aluminum shaf Electrical parts Shell is painte All 316 stainle Carbon Steel (	des. Carbo Copper Tu 20 Steel pa t, plated car s and plasti d cold rolle ss steel HX (motor), co	Mater n Steel & C be, Galv. nel bon steel/p c d carbon s { with copp oper (moto	fications fications rial Copper M Tube shee plastic boo steel per Braze or winding	otor ets dy and cc	tic (pur	
The structural in After the test, th UUT-3B Summa Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP)	e full of contents (rentegrity of the comme UUT was function ary Tested S EC (200-277V) 3 Row Tube & CR019RW1Y 2 60 Amp 65KA ICOM Control ( Scroll ZPD1200 Condenser PL 1/10 HP 208VA	efrigerant & wa ponent attachr onal and opera Sub-Con Sub-Con I phase) Fin Coil 208-230V SCCR CRV300 KCE-TF5 B80X26 UL	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3	e-resistii manufa EBM Vertiv ( Vertiv ( Allen B Vertiv ( Copela Swep Hartell	Inufacturer Corporation Corporation radley Corporation nd	Al limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaf Electrical parts Shell is painte All 316 stainle Carbon Steel housing and ir	des. Carbo Copper Tu 90 Steel pa t, plated car s and plasti d cold rolle ss steel HX (motor), co npeller) an	Mater n Steel & C be, Galv hel bon steel/p c d carbon s ( with copp oper (moto d brass (p	fications fications rial Copper M Tube shee plastic boo steel per Braze or winding iping coni	otor ets dy and cc gs), plast nections	tic (pun	ιp
The structural in After the test, th UUT-3B Summa Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP)	e full of contents (rentegrity of the comme UUT was functionary Tested States) EC (200-277V) 3 Row Tube & CR019RW1Y 2 60 Amp 65KA ICOM Control ( Scroll ZPD120) Condenser PL 1/10 HP 208VA	efrigerant & wa ponent attachr onal and opera Sub-Con Sub-Con I phase) Fin Coil 208-230V SCCR CRV300 KCE-TF5 B80X26 UL	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2	e-resistii manufa EBM Vertiv ( Vertiv ( Allen B Vertiv ( Copela Swep Hartell	Corporation Corporation Corporation Corporation radley Corporation	Aluminum blac Aluminum blac Aluminum fin, Galvanized Gg Aluminum shaf Electrical parts Shell is painte All 316 stainle Carbon Steel ( housing and ir Brass (body),	des. Carbo Copper Tu 30 Steel pa t, plated car s and plasti d cold rolle ss steel HX (motor), co npeller) an copper (pip	Mater n Steel & C be, Galv. : bon steel/p c d carbon s with copp oper (moto d brass (p ing) and s	rial Copper M Tube shee plastic boo steel per Braze or winding iping coni stainless s	otor ets dy and co gs), plast nections steel (into	tic (pum .). ernals).	חף
The structural in After the test, th UUT-3B Summa Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP)	e full of contents (rentegrity of the comme UUT was function ary Tested S EC (200-277V) 3 Row Tube & CR019RW1Y 2 60 Amp 65KA ICOM Control ( Scroll ZPD1200 Condenser PL 1/10 HP 208VA	efrigerant & wa ponent attachr onal and opera Sub-Con Sub-Con I phase) Fin Coil 208-230V SCCR CRV300 KCE-TF5 B80X26 UL	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3 315077P1	e-resistii manufa EBM Vertiv ( Vertiv ( Allen B Vertiv ( Copela Swep Hartell Emerso	Inufacturer Corporation Corporation radley Corporation nd	Aluminum blac Aluminum blac Aluminum fin, Galvanized Gg Aluminum shaf Electrical parts Shell is painte All 316 stainle Carbon Steel ( housing and ir Brass (body), Beverage boa	des. Carbo Copper Tu 30 Steel pa t, plated car s and plasti d cold rolle ss steel HX (motor), co npeller) an copper (pip rd frame, p	Mater n Steel & c be, Galv nel bon steel/n c d carbon s (with copp oper (motto d brass (p ing) and s leated pol	rial Copper M Tube shee plastic boo steel per Braze or winding iping coni stainless s	otor ets dy and co gs), plast nections steel (into	tic (pum .). ernals).	חף
The structural in After the test, th UUT-3B Summa Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP) Thermal Expansion Valve Air Filter	e full of contents (rentegrity of the com ne UUT was function ary Tested S EC (200-277V 3 Row Tube & CR019RW1Y 2 60 Amp 65KA ICOM Control ( Scroll ZPD120) Condenser PL 1/10 HP 208V/ 6 Ton Expansion MERV8 Filter	efrigerant & wa ponent attach onal and opera Sub-Con Sub-Con I phase) Fin Coil 208-230V SCCR CRV300 KCE-TF5 B80X26 UL AC on Valve	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3 315077P1 315029P1	e-resistii manufa EBM Vertiv ( Vertiv ( Allen B Vertiv ( Copela Swep Hartell Emerso	Corporation Corporation Corporation radley Corporation nd	Aluminum blac Aluminum blac Aluminum fin, Galvanized Gg Aluminum shaf Electrical parts Shell is painte All 316 stainle Carbon Steel ( housing and ir Brass (body),	des. Carbo Copper Tu 30 Steel pa t, plated car s and plasti d cold rolle ss steel HX (motor), co npeller) an copper (pip rd frame, p	Mater n Steel & c be, Galv nel bon steel/n c d carbon s (with copp oper (motto d brass (p ing) and s leated pol	rial Copper M Tube shee plastic boo steel per Braze or winding iping coni stainless s	otor ets dy and co gs), plast nections steel (into	tic (pum .). ernals).	חף
The structural in After the test, th UUT-3B Summa Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP) Thermal Expansion Valve Air Filter Electrical Panel	e full of contents (re the regrity of the com- the UUT was function ary Tested S Descrit EC (200-277V 3 Row Tube & 7 CR019RW1Y 2 60 Amp 65KA ICOM Control ( Scroll ZPD120) Condenser PL 1/10 HP 208VA e 6 Ton Expansion MERV8 Filter 200VA 208-23	efrigerant & wa ponent attacht onal and opera Sub-Con Sub-Con I phase) Fin Coil 208-230V SCCR CRV300 KCE-TF5 B80X26 UL AC on Valve	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3 315077P1	e-resistii manufa EBM Vertiv ( Vertiv ( Allen B Vertiv ( Copela Swep Hartell Emerso Koch F	Corporation Corporation Corporation radley Corporation nd	Aluminum blac Aluminum blac Aluminum fin, Galvanized Gg Aluminum shaf Electrical parts Shell is painte All 316 stainle Carbon Steel ( housing and ir Brass (body), Beverage boa	des. Carbo Copper Tu 20 Steel pa t, plated can s and plasti d cold rolle ss steel HX (motor), co npeller) an copper (pip rd frame, p	Mater n Steel & d be, Galv. nel bon steel// c d carbon s (with cop- poper (moted d brass (p ining) and s leated pol king	fications fications rial Copper M Tube shee plastic boc steel per Braze or winding iping coni stainless s stainless s	otor ets dy and cc gs), plast nections steel (intr blend	tic (pum .). ernals).	חף
The structural in After the test, th UUT-3B Summa Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP) Thermal Expansion Valve Air Filter Electrical Panel Transformer	e full of contents (re the regrity of the com- the UUT was function ary Tested S Descrit EC (200-277V 3 Row Tube & 7 CR019RW1Y 2 60 Amp 65KA ICOM Control 0 Scroll ZPD1201 Condenser PL 1/10 HP 208VA 6 Ton Expansion MERV8 Filter 200VA 208-23 X 24 Volt 60 Hz	efrigerant & wa ponent attacht onal and opera Sub-Con Sub-Con I phase) Fin Coil 208-230V SCCR CRV300 KCE-TF5 B80X26 UL AC on Valve	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3 315077P1 315029P1 136201P3	e-resistii manufa EBM Vertiv C Vertiv C Allen B Vertiv C Copela Swep Hartell Emerso Koch F Emerso	Corporation Corporation Corporation Corporation radley Corporation nd on Climate Tech. ilter Corp.	Al limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaf Electrical parts Shell is painte Carbon Steel I housing and ir Brass (body), Beverage boa media & metal Carbon Steel I	des. Carbo Copper Tu 20 Steel pa t, plated car s and plasti d cold rolle ss steel HX (motor), co npeller) an copper (pip rd frame, p mesh bac aminations	Mater n Steel & C be, Galv nel bon steel/n c d carbon s ć with copp poper (moto d brass (p) sing) and s leated pol king and copp	fications fications rial Copper M Tube shee plastic boo steel per Braze or winding iping con stainless s typropyler ber windin	otor ets dy and cc gs), plast nections steel (intr he blend gs	tic (pum .). ernals).	חף
The structural in After the test, th UUT-3B Summa Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP) Thermal Expansion Valve Air Filter Electrical Panel Transformer Electrical Panel Transform	e full of contents (re ntegrity of the com ne UUT was function ary Tested S Descrit EC (200-277V 3 Row Tube & V CR019RW1Y 2 60 Amp 65KA ICOM Control 0 Scroll ZPD1200 Condenser PL 1/10 HP 208VA 6 Ton Expansion MERV8 Filter 200VA 208-23 X 24 Volt 60 Hz ne 45VA 24Volt X	efrigerant & wa ponent attacht onal and opera Sub-Con iption 1 phase) Fin Coil 208-230V SCCR CRV300 KCE-TF5 B80X26 UL AC on Valve 0 Volt z. 22 Volt	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3 315077P1 315029P1 136201P3 180792P1	e-resistii manufa EBM Vertiv C Vertiv C Allen B Vertiv C Copela Swep Hartell Emerso Koch F Emerso Emerso	Corporation Corporation Corporation Corporation radley Corporation nd on Climate Tech. ilter Corp. on (Emermex) on (Emermex)	Al limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaf Electrical parts Shell is painte All 316 stainle Carbon Steel housing and ir Brass (body), Beverage boa media & metal Carbon Steel I Carbon Steel I	des. Carbo Copper Tu 20 Steel pat t, plated car s and plasti d cold rolle ass steel HX (motor), co npeller) an copper (pip rd frame, p mesh bac aminations aminations	Mater n Steel & C be, Galv. T nel bon steel/y c d carbon s (with copp oper (mote d brass (p ing) and s leated pol king and copp and copp	fications fications rial Copper M Tube shee plastic boo steel per Braze or winding iping con stainless s typropyler ber windin	otor ets dy and cc gs), plast nections steel (intr he blend gs	tic (pum .). ernals).	יף י
The structural ir After the test, th UUT-3B Summa	e full of contents (re ntegrity of the com ne UUT was function ary Tested S Descrit EC (200-277V 3 Row Tube & V CR019RW1Y 2 60 Amp 65KA ICOM Control 0 Scroll ZPD1200 Condenser PL 1/10 HP 208VA 6 Ton Expansion MERV8 Filter 200VA 208-23 X 24 Volt 60 Hz ne 45VA 24Volt X	efrigerant & wa ponent attacht onal and opera Sub-Con iption 1 phase) Fin Coil 208-230V SCCR CRV300 KCE-TF5 B80X26 UL AC on Valve 0 Volt z. 22 Volt live	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3 315077P1 315029P1 136201P3	e-resistii manufa EBM Vertiv C Vertiv C Allen B Vertiv C Copela Swep Hartell Emerso Koch F Emerso	Corporation Corporation Corporation Corporation radley Corporation nd on Climate Tech. ilter Corp. on (Emermex) on (Emermex) is	Al limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaf Electrical parts Shell is painte Carbon Steel I housing and ir Brass (body), Beverage boa media & metal Carbon Steel I	des. Carbo Copper Tu 20 Steel pat t, plated can s and plasti d cold rolle ss steel HX (motor), co npeller) an copper (pig rod frame, p mesh bac aminations s and plasti	Mater n Steel & c be, Galv. nel bon steel/ c d carbon s ( with copp oper (mote d brass (p ing) and s leated pol king and copp and copp c	fications fications rial Copper M Tube shee plastic boo steel per Braze or winding iping con stainless s typropyler ber windin	otor ets dy and cc gs), plast nections steel (intr he blend gs	tic (pum .). ernals).	וף





Testing Report: <u>J</u> Testing Unit Num: <u>3</u> (	Clark Testing L ID 14-1292 C		-									
esting Unit Num: <u>30</u>												
	0		-									
	No	minal		F	xcitation	Frequency	Length	Width	Height	Tes	sted	
Model Number	Ca	pacity	Mounting		Direction	* (Hz)	U U			Oper	ating	
	(	kW)		<sup>D</sup>	nection	(112)	(in)	(in)	(in)	Weigh	nt (lbs)	
				Х	Front - Back	17.1						
CR019RW1Y41734		19	Rigid Base	Y	Side - Side	4.2	43	11 7/8	78 3/4	5	48	
CR019RW1Y40D0A73P060	0PA1734)	10	Mounted	Z	Vertical	>33.3		11//0	100/4	Ŭ	10	
Frequencies are for units prior	r to ICC ES AC-1	56 testino	l	2	Ventical	200.0						4
Init length, width, height and op				d in Tab	le 1							
lodel Number in parenthesis is												
	arbon steel and				Seismic Para	meters						
	ere installed on	, .,		/		1						
	6) 1/4"Ø self tap				Building	Test	<b>.</b>		Horiz	ontal	Ver	tica
	the shake tabl				Code	Criteria	S <sub>DS</sub> (g)	z/h				
	olts (8 per bracl		COK	CU	DE CO				A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>R</sub>
				A X X X X Y	With	11					-	
	4	$\langle \langle \rangle \rangle$			CBC 2022	AC 156	0.80	1.0	1.28g	0.96g	0.54g	0.2
		N	NAME OF TAXABLE PARTY.	11					I	1		<u> </u>
			100000000000000	100		1				Curr	P	
	y of the compone	erant & w nt attach	ater) during th ment and forc	ie test. e-resistir			Figure	3C.2: Mc	ounting D	Details	-	
otes: The UUTs were full of The structural integrity After the test, the UUT JUT-3C Summary	f contents (refrige y of the compone T was functional a <b>Tested Sul</b>	erant & w nt attach and opera <b>o-Con</b>	ater) during th ment and forc ated within the <b>nponent</b>	e test. e-resistir e manufa	octurer operation		Figure			Details		
otes: The UUTs were full of The structural integrity After the test, the UUT JUT-3C Summary	f contents (refrige y of the compone T was functional a Tested Sul Descriptio	erant & w nt attach and opera <b>o-Con</b>	ater) during th ment and forc ated within the <b>nponent</b> <i>PN</i>	e test. e-resistir e manufa Mar		al limits		Mate	rial			
lotes: The UUTs were full of The structural integrity After the test, the UUT JUT-3C Summary Sub-Component Cooling Fan	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> Descriptio C (200-277V 1 pt	erant & w nt attach and opera <b>D-CON</b> n nase)	ater) during th ment and forc ated within the <b>nponent</b> <u>PN</u> 315021P2	e test. e-resistir e manufa <u>Mar</u> EBM	nutacturer operation	al limits	des. Carbo	Mate n Steel & G	rial Copper M	otor		
otes: The UUTs were full of The structural integrity After the test, the UUT JUT-3C Summary Sub-Component cooling Fan EC cooling Coil Assembly 3	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> <u>Descriptio</u> C (200-277V 1 pt Row Tube & Fin	erant & w nt attach and opera <b>D-CON</b> nase) Coil	ater) during th ment and forc ated within the <b>nponent</b> <u>PN</u> 315021P2 315051G1	e test. e-resistir e manufa <u>Mar</u> EBM Vertiv C	nufacturer	al limits Aluminum blac Aluminum fin,	Jes. Carbo Copper Tu	Mater n Steel & ( be, Galv. :	rial Copper M	otor		
lotes:       The UUTs were full of The structural integrity After the test, the UUT         JUT-3C Summary       Integration         Sub-Component       Integration         Cooling Fan       EC         Cooling Coil Assembly       3 Integration         Sub-Correct       Cooling Coil Assembly	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> Descriptio C (200-277V 1 ph Row Tube & Fin R019RW1Y 208-	erant & w nt attach and opera <b>D-CON</b> nase) Coil 230V	ater) during the ment and force ated within the <b>nponent</b> <u><b>PN</b></u> 315021P2 315051G1 315033G2	e test. e-resistir e manufa <u>Mar</u> EBM Vertiv C Vertiv C	orporation	al limits Aluminum blace Aluminum fin, Galvanized GS	des. Carbo Copper Tu 20 Steel pa	Mater n Steel & ( be, Galv. nel	rial Copper M Tube shee	otor ets		
Interstein Content of	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> <b>Descriptio</b> C (200-277V 1 ph Row Tube & Fin R019RW1Y 208- 0 Amp 65KA SCO	erant & w nt attach and opera <b>D-CON</b> nase) Coil 230V CR	ater) during the ment and force ated within the <b>nponent</b> 315021P2 315051G1 315033G2 303397P2	e test. e-resistir e manufa <u>Mar</u> EBM Vertiv C Vertiv C Allen Br	adley	al limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shafi	des. Carbo Copper Tu 20 Steel pa t, plated car	Matel n Steel & ( be, Galv. nel rbon steel/	rial Copper M Tube shee	otor ets		ntact
lotes:       The UUTs were full of The structural integrity After the test, the UUT         JUT-3C Summary       Image: Component         Sub-Component       Image: Component         Cooling Fan       EC         Cooling Coil Assembly       3 I         Electrical Panel Assembly       CF         Disconnect       60         Display       IC	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> <b>Descriptio</b> C (200-277V 1 ph Row Tube & Fin R019RW1Y 208- 0 Amp 65KA SCC COM Control CRV	erant & w nt attach and opera <b>o-Con</b> nase) Coil 230V CR /300	ater) during th ment and force ated within the <b>nponent</b> 315021P2 315051G1 315033G2 303397P2 314979G2	e test. e-resistir e manufa BBM Vertiv C Vertiv C Allen Br. Vertiv C	inufacturer operation	al limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shafi Electrical parts	des. Carbo Copper Tu 20 Steel pa t, plated car s and plasti	Matel n Steel & ( be, Galv. nel rbon steel/ ic	rial Copper M Tube shea	otor ets		ntact
lotes: The UUTs were full of The structural integrity After the test, the UUT JUT-3C Summary JUT-3C Summary Sub-Component Cooling Fan EC Cooling Coil Assembly 3 I Electrical Panel Assembly CF Disconnect 60 Display IC	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> <b>Descriptio</b> C (200-277V 1 ph Row Tube & Fin R019RW1Y 208- 0 Amp 65KA SCC COM Control CRV croll ZPD120KCE	erant & w nt attach and opera <b>o-Con</b> nase) Coil 230V CR /300 E-TF5	ater) during th ment and force ated within the <b>NPONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2	e test. e-resistir e manufa <u>Mar</u> EBM Vertiv C Vertiv C Allen Br Vertiv C Copelar	inufacturer operation	al limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shafi Electrical parts Shell is painted	des. Carbo Copper Tu 30 Steel pa t, plated car s and plasti d cold rolle	Mater n Steel & ( be, Galv. be, Galv. inel rbon steel/ ic d carbon s	rial Copper M Tube shee plastic boo	otor ets		ntact
lotes: The UUTs were full of The structural integrity After the test, the UUT JUT-3C Summary JUT-3C Summary Sub-Component Cooling Fan EC Cooling Coil Assembly 3 I Electrical Panel Assembly CF Disconnect 60 Display IC	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> <b>Descriptio</b> C (200-277V 1 ph Row Tube & Fin R019RW1Y 208- 0 Amp 65KA SCC COM Control CRV	erant & w nt attach and opera <b>o-Con</b> nase) Coil 230V CR /300 E-TF5	ater) during th ment and force ated within the <b>nponent</b> 315021P2 315051G1 315033G2 303397P2 314979G2	e test. e-resistir e manufa BBM Vertiv C Vertiv C Allen Br. Vertiv C	inufacturer operation	al limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shafi Electrical parts Shell is painted All 316 stainles	des. Carbo Copper Tu 30 Steel pa t, plated car s and plasti d cold rolle ss steel HX	Mater n Steel & ( be, Galv. i nel ic c d carbon s ( with copy	rial Copper M Tube sher plastic boo	otor ets		
Iotes:       The UUTs were full of The structural integrity After the test, the UUT         JUT-3C Summary       Iotext         Sub-Component       Iotext         Cooling Fan       EC         Cooling Coil Assembly       3 Iotext         Silectrical Panel Assembly       Ch         Disconnect       60         Display       IC         Compressor       So         CP - Heat Exchanger       Co	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> <b>Descriptio</b> C (200-277V 1 ph Row Tube & Fin R019RW1Y 208- 0 Amp 65KA SCC COM Control CRV croll ZPD120KCE	erant & w nt attach and opera <b>o-Con</b> nase) Coil 230V CR /300 E-TF5	ater) during th ment and force ated within the <b>NPONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2	e test. e-resistir e manufa <u>Mar</u> EBM Vertiv C Vertiv C Allen Br Vertiv C Copelar	inufacturer operation	al limits Aluminum blac Aluminum fin, Galvanized Gg Aluminum shafi Electrical parts Shell is painter All 316 stainler Carbon Steel (	des. Carbo Copper Tu 90 Steel pa t, plated car s and plasti d cold rolle ss steel HX (motor), co	Mater n Steel & de, Galv. inel rbon steel/ ic d carbon s ( with copp pper (mote	rial Copper M Tube sheet plastic boot steel per Braze por Winding	otor ets dy and cc	tic (pum	
lotes:       The UUTs were full of The structural integrity After the test, the UUT         JUT-3C Summary       I         Sub-Component       I         cooling Fan       EC         cooling Coil Assembly       31         lectrical Panel Assembly       IC         bisconnect       60         ompressor       Sc         condensate Pump (CP)       1/1	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> <b>Descriptio</b> C (200-277V 1 pt Row Tube & Fin R019RW1Y 208- 0 Amp 65KA SCC COM Control CRV croll ZPD120KCE ondenser PL B80	erant & w nt attach and opera <b>D-COII</b> nase) Coil 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V COII 230V CCR 2400 240 240 240 240 240 240 240 240 24	ater) during th ment and force ated within the <b>NDONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3	e fest. e-resistir manufa EBM Vertiv C Vertiv C Vertiv C Copelar Swep Hartell	nufacturer orporation iorporation adley iorporation adley iorporation	al limits Aluminum blac Aluminum fin, Galvanized Gg Aluminum shafi Electrical parts Shell is painter All 316 stainler Carbon Steel ( housing and in	des. Carboo Copper Tu 90 Steel pa t, plated car s and plasti d cold rolle ss steel HX (motor), co npeller) an	Mater n Steel & be, Galv. hel cbon steel/ ic d carbon s ( with copp pper (mote d brass (p	rial Copper M Tube sheet plastic boot steel per Braze or winding iping conr	otor ets dy and co gs), plast nections	tic (pum ).	
lotes:       The UUTs were full of The structural integrity After the test, the UUT         JUT-3C Summary       I         Sub-Component       I         Cooling Fan       E0         Cooling Coil Assembly       31         Liectrical Panel Assembly       CP         Disconnect       60         Display       IC         Condensate Pump (CP)       1/1	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> <b>Descriptio</b> C (200-277V 1 ph Row Tube & Fin R019RW1Y 208- 0 Amp 65KA SCC COM Control CRV croll ZPD120KCE ondenser PL B80	erant & w nt attach and opera <b>D-COII</b> nase) Coil 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V COII 230V CCR 2400 240 240 240 240 240 240 240 240 24	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2 314979G2 315631P2 257382P2	e fest. e-resistir manufa EBM Vertiv C Vertiv C Vertiv C Copelar Swep Hartell	inufacturer operation	Aluminum blac Aluminum blac Aluminum fin, Galvanized Gg Aluminum shaft Electrical parts Shell is painter All 316 stainler Carbon Steel ( housing and in Brass (body),	des. Carboo Copper Tu 30 Steel pa t, plated cars s and plasti d cold rolle ss steel HX (motor), co npeller) an copper (pip	Mater n Steel & 6 be, Galv. inel rbon steel// ic d carbon s ( with copp pper (mote d brass (p ping) and s	rial Copper M Tube sheet plastic boot steel per Braze or winding iping conristainless s	otor ets dy and co gs), plast nections steel (into	tic (pum ). ernals).	p
lotes: The UUTs were full of The structural integrity After the test, the UUT JUT-3C Summary Sub-Component Cooling Fan EC Cooling Coil Assembly 31 Electrical Panel Assembly CF Disconnect 60 Display IC Compressor Sc CP - Heat Exchanger Cc Condensate Pump (CP) 1/ hermal Expansion Valve 6	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> <b>Descriptio</b> C (200-277V 1 pt Row Tube & Fin R019RW1Y 208- 0 Amp 65KA SCC COM Control CRV croll ZPD120KCE ondenser PL B80	erant & w nt attach and opera <b>D-COII</b> nase) Coil 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V COII 230V CCR 2400 240 240 240 240 240 240 240 240 24	ater) during th ment and force ated within the <b>NDONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3	e test. e-resistir e manufa EBM Vertiv C Vertiv C Copelar Swep Hartell Emerson	nufacturer orporation iorporation adley iorporation adley iorporation	Aluminum blac Aluminum blac Aluminum fin, Galvanized Gg Aluminum shaft Electrical parts Shell is painter All 316 stainler Carbon Steel ( housing and in Brass (body), Beverage boa	des. Carboo Copper Tu 30 Steel pa t, plated can s and plasti d cold rolle ss steel HX (motor), co npeller) an copper (pip rd frame, p	Mater n Steel & 6 be, Galv. inel rbon steel// ic d carbon s ( with copp pper (mote d brass (p bing) and s leated pol	rial Copper M Tube sheet plastic boot steel per Braze or winding iping conristainless s	otor ets dy and co gs), plast nections steel (into	tic (pum ). ernals).	p
Iotes:       The UUTs were full of The structural integrity After the test, the UUT         JUT-3C Summary       Iotext         Sub-Component       Iotext         Cooling Fan       EC         Cooling Coil Assembly       3 Iotext         Cooling Coil Assembly       3 Iotext         Cooling Coil Assembly       1 Iotext         Disconnect       60         Display       IC         Condensate Pump (CP)       1/         Thermal Expansion Valve       6         Air Filter       Min	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> Descriptio C (200-277V 1 pt Row Tube & Fin R019RW1Y 208- 0 Amp 65KA SCC 20M Control CRV croll ZPD120KCE ondenser PL B8C /10 HP 208VAC Ton Expansion V IERV8 Filter	erant & wint attach and operation o-Con nase) Coil 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 240 230V CR 240 240 240 240 240 240 240 240 240 240	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2 314979G2 315631P2 257382P2 319860G3 315077P1	e test. e-resistir e manufa EBM Vertiv C Vertiv C Copelar Swep Hartell Emerson	n Climate Tech	Aluminum blac Aluminum blac Aluminum fin, Galvanized Gg Aluminum shaft Electrical parts Shell is painter All 316 stainler Carbon Steel ( housing and in Brass (body), (	des. Carboo Copper Tu 30 Steel pa t, plated can s and plasti d cold rolle ss steel HX (motor), co npeller) an copper (pip rd frame, p	Mater n Steel & 6 be, Galv. inel rbon steel// ic d carbon s ( with copp pper (mote d brass (p bing) and s leated pol	rial Copper M Tube sheet plastic boot steel per Braze or winding iping conristainless s	otor ets dy and co gs), plast nections steel (into	tic (pum ). ernals).	p
Iotes:       The UUTs were full of The structural integrity After the test, the UUT         JUT-3C Summary       I         Sub-Component       I         Cooling Fan       EC         Cooling Coil Assembly       3 I         Electrical Panel Assembly       CF         Disconnect       60         Display       IC         Condensate Pump (CP)       1/         Thermal Expansion Valve       6         Air Filter       MI         Electrical Panel Transformer       24	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> <b>Descriptio</b> C (200-277V 1 pf Row Tube & Fin R019RW1Y 208- 0 Amp 65KA SCC 20M Control CRV croll ZPD120KCE ondenser PL B80 (10 HP 208VAC Ton Expansion V IERV8 Filter	erant & wint attach and operation o-Con nase) Coil 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 230V CR 240 230V CR 240 240 240 240 240 240 240 240 240 240	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 314979G2 314979G2 315631P2 257382P2 319860G3 315077P1	e test. e-resistir e manufa EBM Vertiv C Vertiv C Copelar Swep Hartell Emerson Koch Fil	n Climate Tech	Aluminum blac Aluminum blac Aluminum fin, Galvanized Gg Aluminum shaft Electrical parts Shell is painter All 316 stainler Carbon Steel ( housing and in Brass (body), Beverage boa	des. Carbo Copper Tu 20 Steel pa t, plated car s and plasti d cold rolle ss steel HX (motor), co npeller) an copper (pip rd frame, p	Mate n Steel & ( be, Galv. inel fbon steel/ ic d carbon s ( with copp per (moto d brass (p ping) and s ileated pol king	rial Copper M Tube sheet plastic boot steel per Braze or winding iping conn stainless s ypropylen	otor ets dy and cc gs), plast nections steel (intr ine blend	tic (pum ). ernals).	p
Iotes:       The UUTs were full of The structural integrity After the test, the UUT         JUT-3C Summary       I         Sub-Component       I         Cooling Fan       EC         Cooling Coil Assembly       3 I         Electrical Panel Assembly       CP         Disconnect       60         Display       IC         Condensate Pump (CP)       1/         Thermal Expansion Valve       6         Air Filter       MI         Electrical Panel Transformer       24	f contents (refrige y of the compone T was functional a <b>Descriptio</b> C (200-277V 1 pf Row Tube & Fin R019RW1Y 208- 0 Amp 65KA SCC COM Control CRV croll ZPD120KCE ondenser PL B8C (10 HP 208VAC Ton Expansion V IERV8 Filter 200VA 208-230 V 24 Volt 60 Hz.	erant & wint attach and opera <b>D-CON</b> nase) Coil 230V CR 300 CR 300 CR 300 CR 300 CR 300 CR 300 CR 300 CR 300 CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL COIL 230V CR 300 COIL COIL CR 300 COIL C	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 315631P2 257382P2 319860G3 315077P1 315029P1 136201P3	e test. e-resistir e manufa EBM Vertiv C Vertiv C Allen Br. Vertiv C Copelar Swep Hartell Emerson Koch Fil	n Climate Tech Iter Corp. n (Emermex)	al limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Shell is paintee All 316 stainlee Carbon Steel ( housing and ir Brass (body), Beverage boa media & metal Carbon Steel I	des. Carbo Copper Tu 20 Steel pa t, plated car s and plasti d cold rolle ss steel HX (motor), co (motor), co (motor), co (moter) an copper (pip rd frame, p mesh bac aminations	Mate n Steel & c be, Galv. inel con steel/, ic d carbon st c with copp pper (mote d brass (p ping) and s leated pol king and copp	rial Copper M Tube shee plastic boo steel per Braze por winding iping con stainless s ypropylen ber winding	otor ets dy and cc gs), plast nections steel (intr he blend gs	tic (pum ). ernals).	p
Iotes:       The UUTs were full of The structural integrity After the test, the UUT         JUT-3C Summary       I         Sub-Component       I         Cooling Fan       EC         Cooling Coil Assembly       3 I         Electrical Panel Assembly       CF         Disconnect       60         Display       IC         Condensate Pump (CP)       1/         Thermal Expansion Valve       6         Air Filter       MI         Electrical Panel Transformer       20         X       Electrical Panel Transformer	f contents (refrige y of the compone T was functional a <b>Tested Sul</b> <b>Descriptio</b> C (200-277V 1 pf Row Tube & Fin R019RW1Y 208- 0 Amp 65KA SCC COM Control CRV croll ZPD120KCE ondenser PL B80 (10 HP 208VAC Ton Expansion V IERV8 Filter 200VA 208-230 Vo 24 Volt 60 Hz.	erant & wint attach and opera <b>D-CON</b> nase) Coil 230V CR 300 CR 300 CR 300 CR 300 CR 300 CR 300 CR 300 CR 300 CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL 230V CR 300 COIL COIL 230V CR 300 COIL COIL CR 300 COIL C	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 315631P2 257382P2 319860G3 315077P1 315029P1 136201P3 180792P1	e test. e-resistir e manufa EBM Vertiv C Vertiv C Vertiv C Copelar Swep Hartell Emerson Emerson Emerson	n Climate Tech Iter Corp. n (Emermex)	al limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Shell is painter All 316 stainle Carbon Steel ( housing and in Brass (body), Beverage boa media & metal Carbon Steel I Carbon Steel I	des. Carbo Copper Tu 20 Steel pa t, plated car s and plasti d cold rolle ss steel HX (motor), co npeller) an copper (pip rd frame, p mesh bac aminations aminations	Mate n Steel & be, Galv. nel rbon steel/, ic d carbon s ( with copp pper (mote d brass (p ing) and s leated pol king a and copp a and copp	rial Copper M Tube shee plastic boo steel per Braze por winding iping con stainless s ypropylen ber winding	otor ets dy and cc gs), plast nections steel (intr he blend gs	tic (pum ). ernals).	p
Notes:       The UUTs were full of The structural integrity After the test, the UUT         UUT-3C Summary       Image: Component         Sub-Component       Image: Component         Cooling Fan       EC         Cooling Coil Assembly       3 I         Electrical Panel Assembly       Cf         Disconnect       60         Display       IC         Condensate Pump (CP)       1/         Thermal Expansion Valve       6         Air Filter       Mi         Electrical Panel Transformer       22         Air Filter       45         Heat rejection control valve       3	f contents (refrige y of the compone T was functional a <b>Descriptio</b> C (200-277V 1 pf Row Tube & Fin R019RW1Y 208- 0 Amp 65KA SCC COM Control CRV croll ZPD120KCE ondenser PL B8C (10 HP 208VAC Ton Expansion V IERV8 Filter 200VA 208-230 V 24 Volt 60 Hz.	erant & wint attach and operation o-Conii nase) Coiii 230V CR 3000 -TF5 X26 UL 'alve olt	ater) during the ment and force ated within the <b>PN</b> 315021P2 315051G1 315033G2 303397P2 315631P2 257382P2 319860G3 315077P1 315029P1 136201P3	e test. e-resistir e manufa EBM Vertiv C Vertiv C Allen Br. Vertiv C Copelar Swep Hartell Emerson Koch Fil	n Climate Tech Iter Corp. n (Emermex) n (Emermex)	al limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Shell is paintee All 316 stainlee Carbon Steel ( housing and ir Brass (body), Beverage boa media & metal Carbon Steel I	des. Carbo Copper Tu 20 Steel pa t, plated car s and plasti d cold rolle ss steel HX (motor), co npeller) an copper (pig mesh bac aminations s and plasti	Mate n Steel & d be, Galv. nel rbon steel/ ic d carbon s d carbon s d carbon s d carbon s d brass (p bileated pol king s and copp c	rial Copper M Tube shee plastic boo steel per Braze por winding iping con stainless s ypropylen ber winding	otor ets dy and cc gs), plast nections steel (intr he blend gs	tic (pum ). ernals).	p





<mark>UUT-4 Test Sumn</mark> Testing Lab:	Clark Testir	halah										
Testing Report:	JID 14-129											
Testing Unit Num:	4	2	•									
	<u>'</u>									T	4 I	1
Ma dal Numbra		Nominal		E	xcitation	Frequency	Length	Width	Height		sted	
Model Numbe	er	Capacity (kW)	Mounting	D	Direction	* (Hz)	(in)	(in)	(in)		ating t (lbs)	
		(KVV)								weign	it (ibs)	
CR019RW1Y417	734	10	Rigid on	X	Front - Back	24.0		4.4 7/0	70.0/4	-	47	
(CR019RW1Y40D0A74P	060PA1734)	19	24" Floor Stand	Y Z	Side - Side	5.0	43	11 7/8	78 3/4	54	47	
* Frequencies are for units pr	rior to ICC ES /	AC 156 tooting		Z	Vertical	>33.3						J
Unit length, width, height and				l in Table	e 1							
Model Number in parenthesis												
Attachment Method	Holdown bra				Seismic Para	meters						
with Seismic	installed on	the front and	back of the	unit					Horiz	ontal	Vert	lical
Modifications	with (14) 1/4				Building	Test	S <sub>DS</sub> (g)	z/h	TIONZ	ontai	ven	licai
	bracket) atta	-			Code	Criteria	ODS (9)	2/11	A <sub>FLX-H</sub>	Anau	A <sub>FLX-V</sub>	A
	The floor sta			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					- +LX-H	- <del>K</del> IG-H	· +LX-V	
	table with (2		er Grade 8 bo	olts		4	2.00	1.0				
	per bracket (	(8 total).			CBC 2022	AC 156	2.50	0.0	3.20g	2.40g	1.68g	0.68
		B	Y: Mor									
The structural integ After the test, the U	grity of the com JUT was function	efrigerant & wa ponent attachr onal and opera	ater) during the ment and force ated within the	e-resistin	g systems was n			4.2: Modified		etails		
The structural integ After the test, the U UUT-4 Summary	I of contents (re grity of the com JUT was functio Tested Si	efrigerant & wa ponent attachr onal and opera ub-Comp	ater) during the ment and force ated within the <b>conent</b>	e-resistin manufac	g systems was a cturer operational			vith Modif	ications	etails		
The structural integ After the test, the U UUT-4 Summary Sub-Component	I of contents (re grity of the com JUT was function Tested Su Descr	efrigerant & wa ponent attachr onal and opera ub-Comp iption	ater) during the ment and force ated within the <b>DONENT</b>	e-resistin manufac <u>Ma</u> ı	g systems was n	al limits	w	vith Modif	ications rial			
The structural integ After the test, the U UUT-4 Summary Sub-Component Cooling Fan	I of contents (re grity of the com JUT was function Tested St Descr EC (200-277V	efrigerant & wa ponent attachn onal and opera ub-Comp iption / 1 phase)	ater) during the ment and force ated within the <b>Donent</b> <b>PN</b> 315021P2	e-resistin manufac <u>Mar</u> EBM	g systems was a cturer operational	al limits	w des. Carbo	rith Modif Mater n Steel &	ications rial Copper M	lotor		
The structural integ After the test, the U UUT-4 Summary	I of contents (re grity of the com JUT was function Tested Su Descr	efrigerant & wa ponent attachr onal and opera ub-Comp iption / 1 phase) & Fin Coil	ater) during the ment and force ated within the <b>DONENT</b>	e-resistin manufac <u>Mar</u> EBM Vertiv C	g systems was n cturer operationa	al limits	w des. Carbo Copper Tu	rith Modif Mater n Steel & be, Galv.	ications rial Copper M	lotor		
The structural integ After the test, the U UUT-4 Summary Sub-Component Cooling Fan Cooling Coil Assembly	I of contents (re prity of the com JUT was function Tested So Descr EC (200-277V 3 Row Tube & CR019RW1Y 60 Amp 65KA	efrigerant & wa ponent attacht onal and opera ub-Comp iption / 1 phase) k Fin Coil 208-230V A SCCR	ater) during the ment and force ated within the <b>DONENT</b> <b>PN</b> 315021P2 315051G1	e-resistin manufac <u>Mar</u> EBM Vertiv C	g systems was in currer operational nufacturer	al limits Aluminum blac Aluminum fin,	des. Carbo Copper Tu 90 Steel pa	vith Modif Mate n Steel & be, Galv. nel	rial Copper M Tube she	lotor ets	opper cc	ontaci
The structural integ After the test, the U UUT-4 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display	I of contents (re prity of the com JUT was function Tested So Descr EC (200-277V 3 Row Tube & CR019RW1Y 60 Amp 65KA ICOM Control	efrigerant & wa ponent attachr onal and opera ub-Comp iption ( 1 phase) i Fin Coil 208-230V A SCCR CRV300	ater) during the ment and force ated within the <b>DONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2	e-resistin manufac BBM Vertiv C Vertiv C Allen Br Vertiv C	g systems was n cturer operationa mufacturer Corporation cadley Corporation	al limits Aluminum blau Aluminum fin, Galvanized G Aluminum shaf Electrical parts	des. Carbo Copper Tu 90 Steel pa t, plated ca s and plast	vith Modif Mate n Steel & be, Galv. inel rbon steel/ ic	rial Copper M Tube she	lotor ets	opper cc	pontac
The structural integ After the test, the U UUT-4 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor	I of contents (re prity of the com JUT was function Tested Soft EC (200-277V) 3 Row Tube & CR019RW1Y 60 Amp 65KA ICOM Control Scroll ZPD120	efrigerant & wa ponent attachr onal and opera ub-Comp iption / 1 phase) & Fin Coil 208-230V A SCCR CRV300 DKCE-TF5	ater) during the ment and force ated within the <b>DONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2	-resistin manufac BBM Vertiv C Vertiv C Allen Br Vertiv C Copelar	g systems was n cturer operationa mufacturer Corporation cadley Corporation	al limits Aluminum blae Aluminum fin, Galvanized G Aluminum shaf Electrical parts Shell is painte	des. Carbo Copper Tu 90 Steel pa t, plated ca s and plast d cold rolle	Mate Mate n Steel & be, Galv. inel rbon steel/ ic d carbon st	rications rial Copper M Tube she plastic boo	lotor ets dy, and c	opper cc	pontac
The structural integ After the test, the U UUT-4 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor	I of contents (re prity of the com JUT was function Tested So Descr EC (200-277V 3 Row Tube & CR019RW1Y 60 Amp 65KA ICOM Control	efrigerant & wa ponent attachr onal and opera ub-Comp iption / 1 phase) & Fin Coil 208-230V A SCCR CRV300 DKCE-TF5	ater) during the ment and force ated within the <b>DONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2	e-resistin manufac BBM Vertiv C Vertiv C Allen Br Vertiv C	g systems was n cturer operationa mufacturer Corporation cadley Corporation	al limits Aluminum blao Aluminum fin, Galvanized G Aluminum shaf Electrical parts Shell is painte All 316 stainle	des. Carbo Copper Tu 90 Steel pa t, plated ca s and plast d cold rolle ss steel HX	Maten n Steel & be, Galv. inel rbon steel/ ic d carbon : ( with copi	rications rial Copper M Tube she plastic boo steel per Braze	lotor ets dy, and c		
The structural integ After the test, the U UUT-4 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	I of contents (re prity of the com JUT was function Tested Soft EC (200-277V) 3 Row Tube & CR019RW1Y 60 Amp 65KA ICOM Control Scroll ZPD120	efrigerant & wa ponent attacht onal and opera <b>ub-Comp</b> <b>iption</b> ( 1 phase) ( 1 phase) ( Fin Coil 208-230V A SCCR CRV300 DKCE-TF5 _ B80X26 UL	ater) during the ment and force ated within the <b>DONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2	-resistin manufac BBM Vertiv C Vertiv C Allen Br Vertiv C Copelar	g systems was n cturer operationa mufacturer Corporation cadley Corporation	Al limits Aluminum blac Aluminum fin, Galvanized G Aluminum shaf Electrical parts Shell is painte All 316 stainle Carbon Steel	des. Carbo Copper Tu 90 Steel pa t, plated ca s and plast d cold rolle ss steel H2 (motor), co	Mater Mater n Steel & be, Galv. inel rbon steel/ ic d carbon : ( with copp pper (mot	rications rial Copper M Tube she plastic boo steel per Braze or winding	lotor ets dy, and c	tic (pum	
The structural integ After the test, the U UUT-4 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP)	I of contents (re prity of the com JUT was function Tested Soft EC (200-277V) 3 Row Tube & CR019RW1Y 60 Amp 65KA ICOM Control Scroll ZPD12(Condenser PL 1/10 HP 208V	efrigerant & wa ponent attach onal and opera ub-Comp iption (1 phase) & Fin Coil 208-230V A SCCR CRV300 DKCE-TF5 _ B80X26 UL (AC	ater) during the ment and force ated within the <b>DONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3	-resistin manufac Man EBM Vertiv C Vertiv C Allen Br Vertiv C Copelar Swep Hartell	g systems was recturer operationa	Al limits Aluminum blac Aluminum fin, Galvanized G Aluminum shaf Electrical parts Shell is painte All 316 stainle Carbon Steel housing and ir	des. Carbo Copper Tu 90 Steel pa t, plated ca s and plast d cold rolle ss steel H2 (motor), co npeller) an	Maten Maten n Steel & be, Galv. inel róton steel/ ic d carbon : ( with copp pper (mot d brass (p	rications rial Copper M Tube she plastic boo steel per Braze or winding iping con	lotor ets dy, and c gs), plass nections	tic (pum	
The structural integ After the test, the U UUT-4 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP) Thermal Expansion Valve	I of contents (re prity of the com JUT was function Tested So Descr EC (200-277V 3 Row Tube & CR019RW1Y 60 Amp 65KA ICOM Control Scroll ZPD120 Condenser PL 1/10 HP 208V 6 Ton Expans	efrigerant & wa ponent attach onal and opera ub-Comp iption (1 phase) & Fin Coil 208-230V A SCCR CRV300 DKCE-TF5 _ B80X26 UL (AC	ater) during the ment and force ated within the <b>DONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3 315077P1	e-resistin manufac EBM Vertiv C Vertiv C Allen Br Vertiv C Copelar Swep Hartell Emerso	g systems was n cturer operationa mufacturer Corporation corporation nd	Al limits Aluminum blac Aluminum fin, Galvanized G Aluminum shaf Electrical parts Shell is painte All 316 stainle Carbon Steel	des. Carbo Copper Tu 90 Steel pa t, plated ca s and plast d cold rolle ss steel HX (motor), co npeller) an copper (pip	Mateu Mateu n Steel & be, Galv. inel rbon steel/ ic d carbon : ( with copp pper (mot d brass (p ping) and s	rications rial Copper M Tube she plastic boo steel per Braze or winding iping con stainless s	lotor ets dy, and c gs), plas nections steel (int	tic (pum .). ernals).	p
The structural integ After the test, the U UUT-4 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP) Thermal Expansion Valve	I of contents (re prity of the com JUT was function Tested Soft EC (200-277V) 3 Row Tube & CR019RW1Y 60 Amp 65KA ICOM Control Scroll ZPD12(Condenser PL 1/10 HP 208V	efrigerant & wa ponent attach onal and opera ub-Comp iption (1 phase) & Fin Coil 208-230V A SCCR CRV300 DKCE-TF5 _ B80X26 UL (AC	ater) during the ment and force ated within the <b>DONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3	e-resistin manufac EBM Vertiv C Vertiv C Allen Br Vertiv C Copelar Swep Hartell Emerso	g systems was recturer operationa	Aluminum blad Aluminum blad Aluminum fin, Galvanized Gr Aluminum shaf Electrical parts Shell is painte All 316 stainle Carbon Steel housing and ir Brass (body),	des. Carbo Copper Tu 90 Steel pa t, plated ca s and plast d cold rolle d cold rolle d cold rolle (motor), co npeller) an copper (pig rd frame, p	Mater Mater n Steel & be, Galv. inel d carbon steel/ ic d carbon st ( with copp per (motot d brass (p ping) and s leated pol	rications rial Copper M Tube she plastic boo steel per Braze or winding iping con stainless s	lotor ets dy, and c gs), plas nections steel (int	tic (pum .). ernals).	p
The structural integ After the test, the U UUT-4 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP) Thermal Expansion Valve Air Filter	I of contents (re prity of the com JUT was function Tested So Descr EC (200-277V 3 Row Tube & CR019RW1Y 60 Amp 65KA ICOM Control Scroll ZPD120 Condenser PL 1/10 HP 208V 6 Ton Expans	efrigerant & wa ponent attach onal and opera ub-Comp iption (1 phase) & Fin Coil 208-230V A SCCR CRV300 0KCE-TF5 _ B80X26 UL 'AC ion Valve	ater) during the ment and force ated within the <b>DONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3 315077P1 315029P1	e-resistin manuface EBM Vertiv C Vertiv C Allen Br Vertiv C Copelar Swep Hartell Emerso Koch Fi	g systems was n cturer operationa mufacturer Corporation corporation nd corporation nd corporation nd corporation nd corporation corporati	Al limits Aluminum blau Aluminum fin, Galvanized G Aluminum shaf Electrical parts Shell is painte All 316 stainle Carbon Steel housing and ir Brass (body), Beverage boa media & meta	des. Carbo Copper Tu 90 Steel pa t, plated ca s and plast d cold rolle ss steel HX (motor), co npeller) an copper (pip rd frame, p	Mate Mate n Steel & 1 be, Galv. inel rbon steel/ ic d carbon steel/ ic d brass (p bing) and s ileated pol king	rial Copper M Tube she plastic boo steel per Braze or winding iping con stainless s lypropyler	otor ets dy, and c gs), plass nections steel (int ne blend	tic (pum .). ernals).	p
The structural integ After the test, the U UUT-4 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP) Thermal Expansion Valve Air Filter Electrical Panel Transformer	I of contents (re prity of the com JUT was function Tested St Descr EC (200-277V) 3 Row Tube 8 CR019RW1Y 60 Amp 65KA ICOM Control Scroll ZPD120 Condenser PL 1/10 HP 208V 6 Ton Expans MERV8 Filter 200VA 208-2 X 24 Volt 60 F	efrigerant & we ponent attach onal and opera <b>ub-Comp</b> iption ( 1 phase) & Fin Coil 208-230V A SCCR CRV300 0KCE-TF5 _ B80X26 UL AC ion Valve 30 Volt Iz.	ater) during the ment and force ated within the <b>DONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3 315077P1	e-resistin manuface EBM Vertiv C Vertiv C Allen Br Vertiv C Copelar Swep Hartell Emerso Koch Fi	g systems was n cturer operationa mufacturer Corporation corporation nd	Aluminum blad Aluminum blad Aluminum fin, Galvanized Gr Aluminum shaf Electrical parts Shell is painte All 316 stainle Carbon Steel housing and ir Brass (body), Beverage boa	des. Carbo Copper Tu 90 Steel pa t, plated ca s and plast d cold rolle ss steel HX (motor), co npeller) an copper (pip rd frame, p	Mate Mate n Steel & 1 be, Galv. inel rbon steel/ ic d carbon steel/ ic d brass (p bing) and s ileated pol king	rial Copper M Tube she plastic boo steel per Braze or winding iping con stainless s lypropyler	otor ets dy, and c gs), plass nections steel (int ne blend	tic (pum .). ernals).	p
The structural integ After the test, the U UUT-4 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP) Thermal Expansion Valve Air Filter Electrical Panel Transformer Electrical Panel Transformer	I of contents (re prity of the com JUT was function Tested St Descr EC (200-277V) 3 Row Tube & CR019RW1Y 60 Amp 65KA ICOM Control Scroll ZPD120 Condenser Pl 1/10 HP 208V 6 Ton Expans MERV8 Filter 200VA 208-2 X 24 Volt 60 H 45VA 24Volt 2	efrigerant & wa ponent attach onal and opera <b>ub-Comp</b> iption ( 1 phase) Fin Coil 208-230V A SCCR CRV300 OKCE-TF5 B80X26 UL AC ion Valve 30 Volt dz. ( 22 Volt	ater) during the ment and force ated within the <b>DONENT</b> 315021P2 315051G1 315033G2 303397P2 315631P2 257382P2 319860G3 315077P1 315029P1 136201P3 180792P1	-resistin manuface EBM Vertiv C Vertiv C Allen Br Vertiv C Copelar Swep Hartell Emerso Emerso Emerso	g systems was a cturer operationa mufacturer Corporation Corporation cadley Corporation and corporation corporatio	al limits Aluminum blaa Aluminum fin, Galvanized G Aluminum shaf Electrical parts Shell is painte All 316 stainte Carbon Steel housing and ir Brass (body), Beverage boa media & meta Carbon Steel Carbon Steel	des. Carbo Copper Tu 90 Steel pa t, plated ca s and plast d cold rolle ss steel HJ (motor), co npeller) an copper (pig rd frame, p I mesh bac laminations	Mate Mate n Steel & be, Galv. inel rbon steel/ c d carbon st ( with copp pper (mote d brass (p ping) and st leated pol king and copp and copp and copp	rications rial Copper M Tube she plastic boo steel per Braze or winding iping con stainless s lypropyler ber windin	otor ets dy, and c gs), plas nections steel (int he blend gs	tic (pum .). ernals).	p
The structural integ After the test, the U UUT-4 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Compressor CP - Heat Exchanger Condensate Pump (CP) Thermal Expansion Valve Air Filter Electrical Panel Transformer	I of contents (re prity of the com JUT was function Tested St Descr EC (200-277V) 3 Row Tube 8 CR019RW1Y 60 Amp 65KA ICOM Control Scroll ZPD120 Condenser PL 1/10 HP 208V 6 Ton Expans MERV8 Filter 200VA 208-2 X 24 Volt 60 H	efrigerant & wa ponent attach onal and opera <b>ub-Comp</b> <i>iption</i> (1 phase) Fin Coil 208-230V SCCR CRV300 0KCE-TF5 B80X26 UL AC ion Valve 30 Volt dz. (22 Volt alve	ater) during the ment and force ated within the <b>DONENT</b> 315021P2 315051G1 315033G2 303397P2 314979G2 315631P2 257382P2 319860G3 315077P1 315029P1 136201P3	e-resistin manuface EBM Vertiv C Vertiv C Allen Br Vertiv C Copelar Swep Hartell Emerso Koch Fi Emerso	g systems was in cturer operational mufacturer Corporation Corporation Corporation adley Corporation and Corporation and Corporation and Corporation and Corporation and Corporation corporation and Corporation corporation and Corporation corporation corporation and Corporation corporation corporation corporation corporation and corporation corporation corporation and corporation corporation corporation and corporation corporation and corporation c	Al limits Aluminum blau Aluminum fin, Galvanized G Aluminum shaf Electrical parts Shell is painte Carbon Steel housing and ir Brass (body), Beverage boa media & meta Carbon Steel	des. Carbo Copper Tu 90 Steel pa t, plated ca s and plast d cold rolle ss steel H> (motor), co npeller) an copper (pig rd frame, p I mesh bac laminations s and plast	Mate Mate n Steel & be, Galv. inel rbon steel/ ic d carbon st d carbon st d carbon st d carbon st d obrass (p bing) and s leated pol king s and copp s and copp ic	rications rial Copper M Tube she plastic boo steel per Braze or winding iping con stainless s lypropyler ber windin	otor ets dy, and c gs), plas nections steel (int he blend gs	tic (pum .). ernals).	p





UUT-5B Test Sun	innu y											
Testing Lab:	Clark Testi	ng Lab										
Festing Report:	JID 14-129		-									
Festing Unit Num:	5B		-									
_		Nominal	-							Tes	tod	l
Model Numbe	or	Capacity	Mounting	Ex	citation	Frequency	Length	Width	Height	Opera		
wouer wurnbe	21	(kW)	wounting	D	irection	* (Hz)	(in)	(in)	(in)	Weigh		
				X	Event Deals	17.0				Teigh	(153)	
CR032RC1K3L	598	20	Rigid Base	X	Front - Back		40	44 7/0	70.0/4	40	0	
(CR032RC1K30D0CH45	5060PA598)	32	Mounted	Y Z	Side - Side	5.3	43	11 7/8	78 3/4	43	00	
Frequencies are for units p	rior to ICC ES	AC 156 tootin		Z	Vertical	>33.3						
Jnit length, width, height and				those lis	sted in Table 1							
Model Number in parenthesi												
Attachment Method			316G0), cons		Seismic Pa	rameters						
vith Seismic			e brackets we	0							1	
<b>Nodifications</b>	installed on	each end of	the unit. The	plates	Building	Test	S (m)	-//-	Horiz	ontai	Vert	icai
	of the kit we	ere attached	with four (4)-	1/4"Ø	Code	Criteria	S <sub>DS</sub> (g)	z/h	^	^	^	^
	self tapping	screws. The	angles of th	e kit					A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	RIG
	attached with	th six (6)-1/4	"Ø self tappir	ng		1/1	2.00	1.0				
	and anchor	ed to the sha	ke table with		CBC 2022	AC 156	2.00	0.0	3.20g	2.40g	1.68g	0.68
	1/2" diameter	r Grade 8 bo	Its per bracke	et.			2.50	0.0				
UUT-5B			BY: Moh	iami 10/	CLARK	m 2		UUT	57			
	Il of contents (I	refrigerant & w	ATE: shake table vater) during th	e test.	17/2022		-	5B.2: M	s ounting I ifications	Details		
Notes: The UUTs were fur The structural inter After the test, the U	ll of contents (i grity of the con JUT was functi	refrigerant & w nponent attach ional and oper	ATE: ATE: A shake table (ater) during the ment and force rated within the	e test. e-resistin	ng systems wa	s maintained.	-	5B.2: M	ounting E	Details		
Notes: The UUTs were fur The structural inter After the test, the UUT-35 Summary	Il of contents (i grity of the con JUT was functi <b>y Tested</b>	refrigerant & w nponent attach ional and oper Sub-Con	ATE: ATE: A shake table (ater) during the ment and force ated within the mponent	e test. e-resistin e manufa	ng systems wa acturer operation	s maintained.	-	5B.2: M with Mod	ounting E ifications	Details		
Notes: The UUTs were fur The structural inter After the test, the UUT-35 Summary Sub-Component	Ill of contents (r grity of the con JUT was functi <b>y Tested</b> Descr	refrigerant & w oponent attach ional and oper Sub-Con ription	e shake table vater) during the ment and force rated within the mponent PN	A constraints of the second seco	ng systems wa	In a smaintained. Somal limits		5B.2: M with Mod	ounting L ifications			
Notes: The UUTs were fu The structural inter After the test, the UUT-35 Summary Sub-Component Cooling Fan	III of contents (r grity of the con JUT was functi y Tested Descr EC (200-277	refrigerant & w oponent attach ional and oper <b>Sub-Con</b> ription V 1 phase)	ATE: ATE: ATE: ATE: ATE: ATE: ATE: ATE:	e test. e-resistin e manufa Manu EBM	ng systems wa acturer operation	In a second seco	les. Carbo	5B.2: M with Mod	ounting E ifications	otor		
Notes: The UUTs were fu The structural inte After the test, the UUT-35 Summary Sub-Component Cooling Fan Cooling Coil Assembly	Ill of contents (r grity of the con JUT was functi <b>y Tested</b> EC (200-277' 3 Row Tube	refrigerant & w oponent attach ional and oper <b>Sub-Con</b> <b>Sub-Con</b> V 1 phase) & Fin Coil	e shake table a shake table vater) during the ment and force rated within the mponent <u>PN</u> 315021P3 316672G1	e test. e-resistin e manufa EBM Vertiv C	ng systems wa acturer operation	es maintained. Sonal limits	les. Carbo Copper Tu	5B.2: M with Modi	ounting E ifications	otor		
Notes: The UUTs were fu The structural inte After the test, the UUT-35 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	II of contents (i grity of the con JUT was functi <b>Tested</b> EC (200-277 3 Row Tube CR032RC1K	refrigerant & w oponent attach ional and oper <b>Sub-Con</b> <b>Sub-Con</b> V 1 phase) & Fin Coil	e shake table vater) during th ment and force rated within the <b>nponent</b> <u><b>PN</b></u> <u>315021P3</u> <u>316672G1</u> <u>315033G8</u>	e test. e-resistin e manufa EBM Vertiv C Vertiv C	ing systems wat acturer operation Corporation	as maintained. conal limits	les. Carbo Copper Tu 00 Steel pa	5B.2: M with Mod	ounting E ifications	otor ets		acts
Iotes: The UUTs were fu The structural inte After the test, the U JUT-35 Summary Sub-Component Cooling Fan Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect	II of contents (i grity of the con JUT was functi <b>y Tested</b> EC (200-277 3 Row Tube CR032RC1K 5KA	refrigerant & w aponent attack ional and oper <b>Sub-Con</b> <i>ription</i> V 1 phase) & Fin Coil 120V	e shake table vater) during th ment and force rated within the mponent <u>PN</u> 315021P3 316672G1 315033G8 300308P2	e test. e-resistin e manufa EBM Vertiv C Vertiv C ABB & 3	acturer operation	s maintained. onal limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft	les. Carbo Copper Tu 00 Steel pa , plated ca	5B.2: M with Modi	ounting E ifications	otor ets	oper cont	acts
Notes: The UUTs were fu The structural inte After the test, the UUT-35 Summary Sub-Component Cooling Fan Cooling Coil Assembly	II of contents (i grity of the con JUT was functi <b>Tested</b> EC (200-277 3 Row Tube CR032RC1K	refrigerant & w aponent attach ional and oper <b>Sub-Con</b> <b>ription</b> V 1 phase) & Fin Coil 120V I CRV300	e shake table vater) during th ment and force rated within the <b>nponent</b> <u><b>PN</b></u> <u>315021P3</u> <u>316672G1</u> <u>315033G8</u>	e test. e-resistin e manufa EBM Vertiv C Vertiv C ABB & 3	ing systems wat acturer operation Corporation	s maintained. onal limits Aluminum blac Aluminum shaft Electrical parts Carbon Steel (	les. Carbo Copper Tu 00 Steel pa 1, plated ca 2 and plast motor), co	5B.2: M with Mod	ounting I ifications	otor ets ly and cop	c (pump	acts
Notes: The UUTs were fu The structural inte After the test, the UUT-35 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Electrical Panel Assembly Disconnect Display Condensate Pump	II of contents (r grity of the con JUT was functi <b>y Tested</b> EC (200-277' 3 Row Tube CR032RC1K 5KA ICOM Contro	refrigerant & w nponent attack ional and oper Sub-Con ription V 1 phase) & Fin Coil 120V I CRV300 /AC	e shake table vater) during th ment and force rated within the mponent <u>PN 315021P3 316672G1 315033G8 300308P2 314979G2</u>	e test. e-resistin e manufa EBM Vertiv C ABB & 3 Vertiv C Hartell	acturer operation	s maintained. onal limits	les. Carbo Copper Tu 00 Steel pa ; plated ca ; and plast motor), co apeller) an rd frame, p	5B.2: M with Mod	ounting E ifications	otor ets ly and cop rs), plastic nections).	c (pump	
Notes: The UUTs were fu The structural inter After the test, the UUT-35 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display	II of contents (i grity of the con JUT was function <b>y Tested</b> EC (200-2777 3 Row Tube CR032RC1K 5KA ICOM Contro 1/10 HP 1200 MERV1 Filter 200VA 120 V	refrigerant & w apponent attack ional and oper Sub-Con ription V 1 phase) & Fin Coil 120V I CRV300 VAC - folt	e shake table vater) during th ment and force rated within the nponent <u>PN 315021P3 316672G1 315033G8 300308P2 314979G2 319860G2</u>	e test. e-resistin e manufa EBM Vertiv C ABB & 3 Vertiv C Hartell Koch Fi	ng systems wa acturer operation Corporation Socomec (1) Corporation	s maintained. onal limits Aluminum blac Aluminum shaft Electrical parts Carbon Steel ( housing and in Beverage boar	les. Carbo Copper Tu 00 Steel pa , plated ca and plast motor), co apeller) an rd frame, p backing	5B.2: M with Modi n Steel & be, Galv. mel rbon steel/ ic pper (mot d brass (p	ounting E ifications	otor ets ly and cop (s), plastinections). e blend N	c (pump	
Notes: The UUTs were fu The structural inter After the test, the UUT-35 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Condensate Pump Air Filter	II of contents (i grity of the con JUT was function <b>y Tested</b> EC (200-2777 3 Row Tube CR032RC1K 5KA ICOM Contro 1/10 HP 1200 MERV1 Filter 200VA 120 V X 24 Volt 60	refrigerant & w apponent attack ional and oper Sub-Con ription V 1 phase) & Fin Coil 120V I CRV300 VAC - folt Hz.	ATE: ATE:	e test. e-resistin e manufa EBM Vertiv C Vertiv C ABB & 3 Vertiv C Hartell Koch Fi Emersc	Ing systems wat acturer operation Corporation Corporation Socomec (1) Corporation Socomec (1) Corporation	Aluminum black Aluminum black Aluminum black Aluminum shaft Electrical parts Carbon Steel ( housing and in Beverage boar & metal mesh Carbon Steel I	les. Carbo Copper Tu 00 Steel pa ; plated ca ; and plast motor), co npeller) an rd frame, p backing aminations	5B.2: M with Mode n Steel & bbe, Galv. inel rbon steel/ ic pper (mot d brass (p pleated poi	ounting E ifications	otor ets ly and cop is), plastin nections). e blend M gs	c (pump	
Aotes: The UUTs were fu The structural inter After the test, the U UUT-35 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Condensate Pump Air Filter Electrical Panel Transformer	II of contents (i grity of the con JUT was function <b>y Tested</b> EC (200-2777 3 Row Tube CR032RC1K 5KA ICOM Contro 1/10 HP 1200 MERV1 Filter 200VA 120 V X 24 Volt 60	refrigerant & wapponent attack ional and open Sub-Con iption V 1 phase) & Fin Coil 120V I CRV300 VAC - volt Hz. X 22 Volt	ATE: ATE: ATE: ATE: ATE: ATE: ATE: ATE:	e test. e-resistin e manufa EBM Vertiv C Vertiv C ABB & 3 Vertiv C Hartell Koch Fi Emersc	acturer operation Corporation Socomec (1) Corporation	Aluminum blac Aluminum blac Aluminum blac Aluminum shaft Electrical parts Carbon Steel ( housing and in Beverage boar & metal mesh	les. Carbo Copper Tu 00 Steel pa ; plated ca a and plast motor), co apeller) an rd frame, p backing aminations aminations	5B.2: M with Modified and the second	ounting E ifications correctio	otor ets ly and cop is), plastin nections). e blend N gs gs	MERV 8 <sup>-</sup>	
Notes: The UUTs were fu The structural inte After the test, the UUT-35 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Condensate Pump Air Filter	II of contents (r grity of the con JUT was function <b>y Tested</b> EC (200-277' 3 Row Tube CR032RC1K 5KA ICOM Contro 1/10 HP 120' MERV1 Filter 200VA 120 V X 24 Volt 60 r 45VA 24Volt	refrigerant & w nponent attack ional and oper Sub-Con ription V 1 phase) & Fin Coil 120V I CRV300 /AC 	ATE: ATE:	e test. e-resistin e manufa EBM Vertiv C Vertiv C ABB & 3 Vertiv C Hartell Koch Fi Emersco Emersco	Ing systems wat acturer operation Corporation Corporation Socomec (1) Corporation Socomec (1) Corporation	Aluminum black Aluminum black Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Carbon Steel ( housing and in Beverage boar & metal mesh Carbon Steel II Carbon Steel II	les. Carbo Copper Tu 00 Steel pa ; plated ca a and plast motor), co 1peller) an rd frame, p backing aminations valve. Ele	5B.2: M with Mod Mate n Steel & be, Galv. inel rbon steel/ ic pper (mot d brass (p leated po s and copp s and copp ctrical pair	ounting E ifications ifications corper M Tube shee plastic boo or winding piping com typropyler or windin typropyler cor windin ts and pla	otor ets is), plastin rections). e blend N gs gs gs stic actua	MERV 8 <sup>-</sup>	





	mary											
Testing Report:	Clark Testi JID 14-129 5C											
Model Number	r	Nominal Capacity (kW)	Mounting		ccitation irection	Frequency * (Hz)	Length (in)	Width (in)	Height (in)	Oper	ted ating t (lbs)	
CR032RC1K3L5 (CR032RC1K30D0CH350	060PA598)	32	Rigid Base Mounted	X Y Z	Front - Back Side - Side Vertical	17.1 4.2 >33.3	43	11 7/8	78 3/4	43	38	
* Frequencies are for units pr Unit length, width, height and Model Number in parenthesis	operating we	ight is approx	imately 10% o									
Attachment Method	Carbon stee were installe	el angles (pa ed on each	art # 3178160 end of the un	G2) nit with	Seismic Para				Horiz	ontal	Ver	tical
		e table with	crews and an (4) -½"Ø Gra		Building	Test Criteria	S <sub>DS</sub> (g)	z/h	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
					CBC 2022	AC 156	0.80	1.0	1.28g	0.96g	0.54g	0.22g
		C		10/	17/2022	2	R				1	
Notes: The UUTs were full The structural integ After the test, the U UUT-5C Summary	l of contents (i prity of the con IUT was functi	refrigerant & v nponent attac ional and ope	hment and fore erated within th	he test. ce-resist e manufa			-	5C.2: Ma vith Modi	-	Details		
Notes: The UUTs were full The structural integ After the test, the U UUT-5C Summary Sub-Component	I of contents (i prity of the con IUT was functi <b>/ Tested</b> Descri	refrigerant & v nponent attac ional and ope Sub-Co iption	water) during the hment and fore prated within the mponent PN	he test. ce-resist e manufa Mar		nal limits	v	vith Modi Mate	fications			
Notes: The UUTs were full The structural integ After the test, the U UUT-5C Summary Sub-Component Cooling Fan	I of contents (r prity of the com IUT was functi <b>/ Tested</b> Descr EC (200-277	refrigerant & v nponent attac ional and ope <b>Sub-Co</b> iption V 1 phase)	water) during ti hment and for erated within th mponent PN 315021P3	he test. ce-resist e manufa	acturer operatio	nal limits	v Jes. Carbon	vith Modi Mate	fications rial Copper Me	otor		
Notes: The UUTs were full The structural integ After the test, the U UUT-5C Summary Sub-Component Cooling Fan Cooling Coil Assembly	I of contents (i prity of the com IUT was functi / Tested Descr EC (200-277 3 Row Tube	refrigerant & v aponent attact ional and ope <b>Sub-Co</b> <i>iption</i> V 1 phase) & Fin Coil	water) during ti hment and ford rrated within th mponent PN 315021P3 316672G1	he test. ce-resisti e manufa <u>Mar</u> EBM Vertiv C	acturer operation	nal limits Aluminum blac Aluminum fin, f	v Jes. Carbo Copper Tu	with Modi Mate n Steel & ( be, Galv.	fications rial Copper Me	otor		
Notes: The UUTs were full The structural integ After the test, the U UUT-5C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	I of contents (i prity of the con UT was functi <b>/ Tested</b> Descrite EC (200-277 3 Row Tube CR032RC1K	refrigerant & v aponent attact ional and ope <b>Sub-Co</b> <i>iption</i> V 1 phase) & Fin Coil	water) during ti hment and for rrated within th mponent 915021P3 316672G1 315033G8	he test. ce-resisti e manufa Mar BBM Vertiv C Vertiv C	acturer operation aufacturer corporation corporation	nal limits Aluminum blace Aluminum fin, ' Galvanized GS	v les. Carbor Copper Tu 90 Steel pa	Mate Mate n Steel & ( be, Galv. nel	fications fications copper Ma Tube shee	otor ets		racts
Notes: The UUTs were full The structural integ After the test, the U UUT-5C Summary Sub-Component Cooling Fan Cooling Coil Assembly	I of contents (i prity of the com IUT was functi / Tested Descr EC (200-277 3 Row Tube	refrigerant & v nponent attaccional and oper Sub-Co iption V 1 phase) & Fin Coil 120V	water) during ti hment and ford rrated within th mponent PN 315021P3 316672G1	he test. ce-resist e manufa BBM Vertiv C Vertiv C ABB & S	acturer operation	nal limits Aluminum blac Aluminum fin, f	v les. Carbor Copper Tu 90 Steel pa t, plated car	with Modi Mate n Steel & ( be, Galv. nel bon steel/j	fications fications copper Ma Tube shee	otor ets	pper con	tacts
Notes: The UUTs were full The structural integ After the test, the U UUT-5C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect	I of contents (i prity of the con UT was functi <b>/ Tested</b> Descr. EC (200-277 3 Row Tube CR032RC1K 5KA	refrigerant & of oponent attaccional and oper <b>Sub-Co</b> iption V 1 phase) & Fin Coil 120V I CRV300	water) during ti hment and for rrated within th mponent 315021P3 316672G1 315033G8 300308P2	he test. ce-resist e manufa BBM Vertiv C Vertiv C ABB & S	acturer operation aufacturer corporation corporation Socomec (1)	nal limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Carbon Steel ( housing and in	V des. Carbor Copper Tu 30 Steel pa 1, plated car 3 and plasti motor), co npeller) an	Mate Mate n Steel & ( be, Galv. nel bon steel/j c poper (moto d brass (p	fications rial Copper Ma Tube sheet plastic bod pr winding iping conr	otor ets ly and cop is), plasti nections)	c (pump	
Notes: The UUTs were full The structural integ After the test, the U UUT-5C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display	I of contents (i prity of the con UT was function <b>/ Tested</b> Descr. EC (200-277 3 Row Tube - CR032RC1K 5KA ICOM Contro 1/10 HP 120 MERV1 Filter	refrigerant & v nponent attactional and oper Sub-Co iption V 1 phase) & Fin Coil 120V I CRV300 VAC	water) during ti hment and ford rrated within th <b>mponent</b> 315021P3 316672G1 315033G8 300308P2 314979G2	he test. ce-resist e manufa EBM Vertiv C Vertiv C ABB & S Vertiv C Hartell	acturer operation aufacturer corporation corporation Socomec (1)	nal limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Carbon Steel (	les. Carbo Copper Tu 00 Steel pa t, plated cars and plasti motor), co npeller) an rd frame, p	Mate Mate n Steel & ( be, Galv. nel bon steel/j c poper (moto d brass (p	fications rial Copper Ma Tube sheet plastic bod pr winding iping conr	otor ets ly and cop is), plasti nections)	c (pump	
Notes: The UUTs were full The structural integ After the test, the U UUT-5C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Condensate Pump	I of contents (i prity of the con UT was functi <b>/ Tested</b> Descri EC (200-277 3 Row Tube CR032RC1K 5KA ICOM Contro 1/10 HP 1200	refrigerant & v nponent attactional and oper Sub-Co (ption V 1 phase) & Fin Coil 120V I CRV300 VAC	water) during ti hment and for rrated within th <b>mponent</b> 315021P3 316672G1 315033G8 300308P2 314979G2 319860G2	he fest. ce-resist e manufr EBM Vertiv C ABB & S Vertiv C Hartell Koch Fil	acturer operation orporation corporation Socomec (1) corporation	nal limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Carbon Steel ( housing and in Beverage boar	des. Carbon Copper Tu 20 Steel pa t, plated car a and plasti motor), co npeller) and rd frame, p backing	with Modi Mate n Steel & ( be, Galv. nel bon steel/y c oper (mote d brass (p leated pol	fications fications	otor ets ly and cop is), plasti nections) e blend I	c (pump	
Notes: The UUTs were full The structural integ After the test, the U UUT-5C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Condensate Pump Air Filter Electrical Panel Transformer	I of contents (i prity of the con UT was function <b>/ Tested</b> EC (200-2777 3 Row Tube CR032RC1K 5KA ICOM Contro 1/10 HP 1200 MERV1 Filter 200VA 120 V	refrigerant & v nponent attactional and oper Sub-Co iption V 1 phase) & Fin Coil 120V I CRV300 VAC - folt Hz.	water) during ti hment and for rrated within th <b>mponent</b> 315021P3 316672G1 315033G8 300308P2 314979G2 319860G2 155419P4	he test. ce-resist e manufa EBM Vertiv C Vertiv C ABB & S Vertiv C Hartell Koch Fii Emerso	acturer operation orporation corporation Socomec (1) corporation	nal limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Carbon Steel ( housing and in Beverage boat & metal mesh	les. Carbon Copper Tu 30 Steel pa t, plated cars and plasti motor), cop npeller) and rd frame, p backing aminations	Mate Mate n Steel & C be, Galv. bon steel/y c opper (moto d brass (p leated pol and copp	fications fications copper Ma Copper Ma Dastic bod provinding iping conr ypropylen er winding	otor ets ly and cop s), plasti nections) e blend f gs	c (pump	
Notes: The UUTs were full The structural integ After the test, the U UUT-5C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Condensate Pump Air Filter Electrical Panel Transformer	I of contents (i prity of the con UT was function <b>/ Tested</b> EC (200-2777 3 Row Tube CR032RC1K 5KA ICOM Contro 1/10 HP 1200 MERV1 Filter 200VA 120 V X 24 Volt 60	refrigerant & v nponent attac ional and ope Sub-Co iption V 1 phase) & Fin Coil 120V I CRV300 VAC - volt Hz. X 22 Volt	water) during ti hment and for rrated within th <b>mponent</b> 315021P3 316672G1 315033G8 300308P2 314979G2 319860G2 155419P4 317839P1 180792P1 185661P13	he fest. ce-resist e manufa EBM Vertiv C ABB & S Vertiv C Hartell Koch Fii Emerso Belimo	acturer operation <b>nufacturer</b> corporation corporation Socomec (1) corporation ter Corp. n (Emermex)	nal limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Carbon Steel ( housing and in Beverage boar & metal mesh Carbon Steel I	les. Carbor Copper Tu 30 Steel pa t, plated cars s and plasti motor), co npeller) and rd frame, p backing aminations aminations	Mate Mate n Steel & C be, Galv. bon steel/j c oper (moto d brass (p leated pol and copp and copp	fications fications Copper Mit Dastic bod privinding iping conr ypropylen ier winding ier winding	otor ets y and cop s), plasti nections) e blend I gs gs	MERV 8	
Notes: The UUTs were full The structural integ After the test, the U UUT-5C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Condensate Pump Air Filter Electrical Panel Transformer Electrical Panel Transformer	I of contents (i prity of the con UT was function <b>/ Tested</b> EC (200-2777 3 Row Tube CR032RC1K 5KA ICOM Contro 1/10 HP 1200 MERV1 Filter 200VA 120 V X 24 Volt 60 45VA 24Volt	refrigerant & v poponent attactional and oper Sub-Co iption V 1 phase) & Fin Coil 120V I CRV300 VAC VAC VAC VAC VAC VAC VAC VAC VAC VAC	water) during ti hment and for rrated within th mponent 315021P3 316672G1 315033G8 300308P2 314979G2 319860G2 155419P4 317839P1 180792P1 185661P13	he fest. ce-resist e manufa EBM Vertiv C ABB & S Vertiv C Hartell Koch Fii Emerso Belimo Belimo	acturer operation <b>nufacturer</b> corporation corporation Socomec (1) corporation ter Corp. n (Emermex)	nal limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Carbon Steel ( housing and in Beverage boar & metal mesh Carbon Steel II Carbon Steel II	des. Carboo Copper Tu 20 Steel pa t, plated car s and plasti motor), co npeller) and rd frame, p backing aminations aminations valve. Ele valve. Ele	with Modi Mate n Steel & C be, Galv nel bon steel/y c oper (mote d brass (p leated pol leated pol and copp ctrical par ctrical par	fications fications orial Copper Mi Tube sheet plastic bod or winding iping conr ypropylen er winding ter winding ts and pla	otor ets y and cop s), plasti nections) e blend f gs gs gs stic actus	c (pump MERV 8	





UUT-6 Test Summ	nary											
Testing Lab:	Clark Testi	ing Lab										
Testing Report:	JID 14-129		-									
Testing Unit Num:	6	-	-									
	<u> </u>		-								_	
		Nominal		E	xcitation	Frequency	Length	Width	Height	Tes		
Model Numbe	er	Capacity	Mounting		Direction	* (Hz)	(in)	(in)	(in)	Oper		
		(kW)		L 2		(112)	(11)	(111)	(11)	Weigh	t (lbs)	
			Rigid on	X	Front - Back	24.0						
CR032RC1K3L5		32	12" Floor	Y	Side - Side	5.0	43	11 7/8	78 3/4	43	35	
(CR032RC1K30D0CH45	5060PA598)		Stand	Z	Vertical	>33.3	10	11 1/0	100/1			
* Frequencies are for units p	rior to ICC ES	AC-156 testir		2	Vertiour	- 00.0						
Jnit length, width, height and			0	of those I	listed in Table 1.							
lodel Number in parenthesi												
Attachment Method					Seismic Para	meters						
vith Seismic		<b>,</b>	d back of the	/								
<b>Nodifications</b>			oing screws		Building	Test			Horiz	ontal	Ver	ical
			init to the floo		Code	Criteria	S <sub>DS</sub> (g)	z/h			_	_
			ored to the s			ontonia			A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG</sub> .
			ter Grade 8		WWXXX	11						
	per bracket		Nor Grade 0	5016	CBC 2022	AC 156	2.00	1.0	3.20g	2.40g	1.68g	0 68
	per bracket	(0 10121).			ODO 2022	A0 100	2.50	0.0	0.20g	2.40g	1.00g	0.00
UUT-6			BY:MO DATE:	ham 10								
UUT-6	Figure 6.1:	Unit on the	BY: Mo DATE: MANNE Shake table				Figure 6	.2: Moun Modific	-	ails with		
	•						Figure 6		-	ails with		
Notes: The UUTs were ful The structural integr	Il of contents (i grity of the con	refrigerant & v	water) during t hment and for	10 10	ting systems was	e maintained.	Figure 6		-	ails with		
Notes: The UUTs were ful	Il of contents (i grity of the con	refrigerant & v	water) during t hment and for	10 10	ting systems was	e maintained.	Figure 6		-	ails with		
Notes: The UUTs were ful The structural integration of the structural integratin of the structur	Il of contents (i grity of the con JUT was functi	refrigerant & nponent attac ional and ope	water) during t hment and for rated within th	10 10	ting systems was	e maintained.	Figure 6		-	ails with		
Notes: The UUTs were ful The structural integration of the structural integratin of the structur	Il of contents (r grity of the con JUT was functi Tested S	refrigerant & n nponent attac ional and ope	water) during t hment and for rated within th	10 10 10 10 10 10 10 10 10 10 10 10 10 1	ting systems was	e maintained.	Figure 6		ations	ails with		
Notes: The UUTs were ful The structural inter After the test, the UUT-6 Summary Sub-Component	Il of contents (r grity of the con JUT was functi <b>Tested S</b> Descr	refrigerant & u nponent attac ional and ope <b>ub-Com</b> iption	water) during t hment and for rrated within th <b>ponent</b> <i>PN</i>	the test. rce-resis the manual	ting systems was facturer operation	maintained.		Modific Mate	ations			
Notes: The UUTs were ful The structural integ After the test, the UUTs <b>UUT-6 Summary</b> Sub-Component Cooling Fan	II of contents (r grity of the con JUT was functi Tested S Descr EC (200-277	refrigerant & m nponent attac ional and ope <b>ub-Com</b> iption V 1 phase)	water) during t hment and for rrated within th <b>ponent</b> <u>PN</u> 315021P3	the test. rce-resis the manufilter	ting systems was facturer operation	s maintained. nal limits	les. Carbo	Modific Mate	ations rial Copper Me	otor		
Notes: The UUTs were ful The structural integ After the test, the UUT-6 Summary Sub-Component Cooling Fan Cooling Coil Assembly	Il of contents (r grity of the con JUT was functi <b>Tested S</b> Descr	refrigerant & v aponent attact ional and ope <b>ub-Com</b> <i>iption</i> V 1 phase) & Fin Coil	water) during t hment and for rrated within th <b>ponent</b> <i>PN</i>	the test. rce-resis ne manuru EBM Vertiv C	ting systems was facturer operation	maintained.	les. Carbo Copper Tu	Modific Mate n Steel & ( be, Galv.	ations rial Copper Me	otor		
Notes: The UUTs were ful The structural inter After the test, the UUT-6 Summary Sub-Component Cooling Fan Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	II of contents (n grity of the con JUT was functi Tested S Descr EC (200-277' 3 Row Tube	refrigerant & v aponent attact ional and ope <b>ub-Com</b> <i>iption</i> V 1 phase) & Fin Coil	water) during t hment and for prated within th ponent PN 315021P3 316672G1	the test. tree-resis me manur EBM Vertiv C Vertiv C	ting systems was facturer operation	s maintained. nal limits	les. Carbo Copper Tu 30 Steel pa	Modific Mate n Steel & ( be, Galv. nel	rial Copper Mo Tube shee	otor ets	oper con	tacts
Notes: The UUTs were ful The structural inter After the test, the U JUT-6 Summary Sub-Component Cooling Fan Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect	II of contents (i grity of the con JUT was functi Tested S Descr EC (200-277 3 Row Tube CR032RC1K	refrigerant & v nponent attactional and operational and operat	water) during t hment and for rated within th <b>ponent</b> <u>PN</u> 315021P3 316672G1 315033G8	the test. rce-resis he manur EBM Vertiv C ABB & S	ting systems was facturer operation	s maintained. nal limits Aluminum blac Aluminum fin, Galvanized GS	les. Carbo Copper Tu 20 Steel pa	Modific Mate n Steel & ( be, Galv. nel bon steel/j	rial Copper Mo Tube shee	otor ets	pper con	acts
Notes: The UUTs were ful The structural integ After the test, the UUTs defended JUT-6 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect	II of contents (i grity of the con JUT was functi Tested S Descr EC (200-277 3 Row Tube CR032RC1K 5KA	refrigerant & u nponent attactional and operational and operational and operational and operational attaction and the second state of the second s	water) during t hment and for rrated within th <b>ponent</b> 315021P3 316672G1 315033G8 300308P2	the test. rce-resis he manur EBM Vertiv C ABB & S	ting systems was facturer operation	a maintained. nal limits Aluminum blac Aluminum fin, Galvanized GG	les. Carbo Copper Tu 30 Steel pa 5. plated car 5. and plasti motor), co	Modific Mate n Steel & ( be, Galv. ` hel ton steel/p c pper (moto	ations rial Copper Ma Tube sheet plastic bod	otor ets y and cop	c (pump	
Notes: The UUTs were ful The structural integ After the test, the UUT-6 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Electrical Panel Assembly Disconnect Display Condensate Pump	II of contents (r grity of the con JUT was functi Tested S Descr EC (200-277 3 Row Tube e CR032RC1K 5KA ICOM Contro	refrigerant & v nponent attactional and operative <b>sub-Com</b> <b>iption</b> V 1 phase) & Fin Coil 120V AC	water) during t hment and for rrated within th <b>ponent</b> 315021P3 316672G1 315033G8 300308P2 314979G2	the test. tree-resis me manuru EBM Vertiv C ABB & S Vertiv C Hartell	ting systems was facturer operation	a maintained. nal limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shaft Electrical parts Carbon Steel (	les. Carbo Copper Tu 30 Steel pa 5 and plasti motor), co 1peller) an rd frame, p	Modific Mate n Steel & ( be, Galv. <sup>-</sup> nel bon steel/p c pper (moto d brass (p leated pol	ations rial Copper Ma Dastic bod pr winding iping conr	otor ets y and cop s), plastin rections).	c (pump	
Notes: The UUTs were ful The structural integ After the test, the UUT-6 Summary	II of contents (i grity of the con JUT was functi Tested S Descr EC (200-277 3 Row Tube CR032RC1K 5KA ICOM Contro 1/10 HP 120 MERV1 Filter 200VA 120 V	refrigerant & v nponent attactional and operational and operat	water) during t hment and for rated within th <b>ponent</b> <u><b>PN</b> 315021P3 316672G1 315033G8 300308P2 314979G2 319860G2</u>	the test. rce-resis he manur EBM Vertiv C ABB & S Vertiv C Hartell Koch Fi	ting systems was facturer operation Corporation Socomec (1) Corporation	a maintained. nal limits Aluminum blac Aluminum blac Aluminum shaft Electrical parts Carbon Steel ( housing and in Beverage boal	les. Carbo Copper Tu 00 Steel pa ; plated car a and plasti motor), co npeller) an rd frame, p tal mesh b	Modific Mate n Steel & c be, Galv. hel bon steel/µ c oper (mote d brass (p leated pol acking	ations rial Copper M Tube shee plastic bod pr winding iping conr ypropylen	otor ets y and cop s), plastin ections) e blend N	c (pump	
Notes: The UUTs were ful The structural integration of the structural structural structural structural structural integration of the structural struct	I of contents (i grity of the con JUT was functi Tested S EC (200-277' 3 Row Tube CR032RC1K 5KA ICOM Contro 1/10 HP 120' MERV1 Filter 200VA 120 V X 24 Volt 60	refrigerant & di opponent attactional and operational and oper	water) during t hment and for rrated within th <b>ponent</b> 315021P3 316672G1 315033G8 300308P2 314979G2 319860G2 155419P4	Line test. Trace-resis the test. Trace-resis the manufiller EBM Vertiv C Vertiv C Vertiv C Hartell Koch Fi Emerso	ting systems was facturer operation corporation Socomec (1) corporation	Aluminum blac Aluminum blac Aluminum shaft Electrical parts Carbon Steel ( housing and in Beverage boat 81media & me	les. Carbon Copper Tu 30 Steel pa 5 and plasti motor), co 1peller) an rd frame, p tal mesh b aminations	Modific Mate n Steel & C be, Galv. <sup>-</sup> hon steel/y c pper (moto d brass (p leated pol acking and copp	ations rial Copper Ma Dastic bod pr winding iping conn ypropylen er winding	otor ets y and cop s), plastin rections). e blend M	c (pump	
Notes: The UUTs were ful The structural inter After the test, the U UUT-6 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Condensate Pump Air Filter	I of contents (i grity of the con JUT was functi Tested S EC (200-277' 3 Row Tube CR032RC1K 5KA ICOM Contro 1/10 HP 120' MERV1 Filter 200VA 120 V X 24 Volt 60	refrigerant & v nponent attactional and operational and operat	water) during t hment and for rrated within th <b>ponent</b> 315021P3 316672G1 315033G8 300308P2 314979G2 319860G2 155419P4 317839P1 180792P1	Line test. Trace-resis the test. Trace-resis the manufiller EBM Vertiv C Vertiv C Vertiv C Hartell Koch Fi Emerso	ting systems was facturer operation Corporation Socomec (1) Corporation Iter Corp.	a maintained. nal limits Aluminum blac Aluminum blac Aluminum shaft Electrical parts Carbon Steel ( housing and in Beverage boar 81media & me Carbon Steel I	les. Carbo Copper Tu 30 Steel pa ; plated car ; and plasti motor), co npeller) and rd frame, p tal mesh b aminations aminations	Modific Mate n Steel & C be, Galv hol bon steel/ c opper (moto d brass (p leated pol acking and copp and copp	ations rial Copper Ma Dastic bod pr winding iping conr ypropylen ier winding ier winding	otor ets y and cop s), plastin nections)) e blend N gs	MERV	
Notes: The UUTs were ful The structural integ After the test, the UUTs were ful The structural integ After the test, the UUT-6 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Display Condensate Pump Air Filter Electrical Panel Transformer	II of contents (i grity of the con JUT was functi Tested S EC (200-277' 3 Row Tube CR032RC1K 5KA ICOM Contro 1/10 HP 120' MERV1 Filter 200VA 120 V X 24 Volt 60 45VA 24Volt	refrigerant & v nponent attactional and operational and operat	water) during t hment and for rrated within th <b>ponent</b> 315021P3 316672G1 315033G8 300308P2 314979G2 319860G2 155419P4 317839P1 180792P1 185661P13	the test. cce-resis me manu EBM Vertiv C Vertiv C ABB & S Vertiv C Hartell Koch Fi Emerso Belimo	ting systems was facturer operation Corporation Socomec (1) Corporation Iter Corp.	Aluminum blac Aluminum blac Aluminum fin, Galvanized GS Aluminum shaff Electrical parts Carbon Steel ( housing and in Beverage boar 81media & me Carbon Steel II Carbon Steel II	les. Carbo Copper Tu 00 Steel pa ; plated car a and plasti motor), co ppeller) and rd frame, p tal mesh b aminations valve. Ele	Modific Mate n Steel & C be, Galv. <sup>-</sup> nel bon steel/y c pper (moto d brass (p leated pol acking and copp ctrical par	ations rial Copper Ma Tube sheet plastic bod or winding iping conr ypropylen- er winding ter winding ts and pla	otor ets s), plastinections). e blend N gs gs gs stic actua	MERV	





Testing Lab:	Clark Tes	ting Lab									
Testing Report:	JID 2672-										
Festing Unit Num:	1										
<b>J</b>		Nominal							Tes	ted	
Model Numbe	r	Capacity (kW)	Mounting	Excitation Direction	Frequency * (Hz)	Length (in)	Width (in)	Height (in)	Oper		
000000000000000000000000000000000000000	0740			X Front - Ba	ck 10.6					<u></u>	
CR020RW1C7SD1 (CR020RW1C7SD1874F	-	20	Rigid Base Mounted	Y Side - Sid Z Vertical	e 7.9 >33.3	46.25	22.63	78.75	83	34	
* Frequencies are for units p	prior to ICC ES	S AC-156 testi	ng.								
Jnit length, width, height an		•									
Model Number in parenthes Attachment Method					ramatara						
with Seismic		(part # 31781 unit with eight	,	Seismic Pa	arameters	T		Ι			
Modifications	-	ews on each e		Building	Test			Horiz	ontal	Ver	ical
liounioutiono		et was attache		Code	Criteria	S <sub>DS</sub> (g)	z/h		•		•
	three (3) 1/2	2"-13 Grade 5	bolts (6 bolts p					A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG</sub>
	unit). Cross below was i	brace (PN 31) installed	3743G1), shov	CBC 202	2 AC 156	2.00 2.50	1.0 0.0	3.20 g	2.40 g	1.68 g	0.68
			SV·Mo	hammad k	arim						
The structural inte After the test, the	III of contents grity of the co UUT was fund	omponent attac ctional and ope	e shake table water) during t chment and for erated within the	he test. ce-resisting systen e manufacturer op	s was maintained.			lounting E lifications	Details		
The structural inte After the test, the UUT-7B Summar	Ill of contents grity of the co UUT was fund <b>y Testec</b>	(refrigerant & omponent attac ctional and ope d Sub-Co	e shake table water) during t shment and for erated within the mponent	he test. ce-resisting system e manufacturer op	as was maintained. erational limits		with Mod	-	Details		
The structural inte After the test, the UUT-7B Summar Sub-Component	Ill of contents grity of the co UUT was fund <b>y Testec</b>	(refrigerant & mponent attac ctional and ope <b>I Sub-Co</b> ription	e shake table water) during t chment and for erated within the	he test. ce-resisting system e manufacturer op	as was maintained. erational limits		with Mod	lifications			
The structural inte After the test, the UUT-7B Summar	III of contents grity of the co UUT was fund <b>y Testec</b> Desc	(refrigerant & omponent attactional and open and open attactional and open attactional and open attactional and open attaction	e shake table water) during t thment and for prated within th mponent PN	he test. ce-resisting system e manufacturer op	is was maintained erational limits	des. Carbo	with Mod Mat	terial Copper Mo			
The structural inte After the test, the I UUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	III of contents grity of the co UUT was func <b>y Testec</b> EC (208VAC 4 Row Tube CR020 208	(refrigerant & imponent attactional and ope d Sub-Co pription C) e & Fin Coil V	e shake table water) during t chment and for prated within th mponent PN 191881P1 197515G1 191986G1	he test. ce-resisting system e manufacturer op t Manufacturer EBM Vertiv Corporation Vertiv Corporation	s was maintained erational limits	des. Carbo Copper Tu 90 Steel pa	with Mod Mat n Steel & ibe, Galv. inel	terial Copper Mo Tube shee	otor ets		
The structural inte After the test, the I UUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect	III of contents grity of the co UUT was func <b>y Testec</b> EC (208VAd 4 Row Tube CR020 208 60 Amp 65	(refrigerant & mponent attactional and operational and operational artiption C) e & Fin Coil V KA SCCR	e shake table water) during t ihment and for prated within th mponent PN 191881P1 197515G1 191986G1 303397P2	he test. ce-resisting system e manufacturer op t Manufacturer EBM Vertiv Corporation Vertiv Corporation Allen Bradley	s was maintained erational limits	des. Carbo Copper Tu 90 Steel pa fft, plated c	with Mod Mat n Steel & be, Galv. nel arbon stee	terial Copper Mo Tube shee	otor ets ody and c		
The structural inte After the test, the I UUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect	III of contents grity of the co UUT was fund <b>y Testec</b> EC (208VAd 4 Row Tube CR020 208 60 Amp 65 100 Amp 65	(refrigerant & imponent attactional and operational and operational and operational and operational and operational and operating and and operating and and operating and and operating and and operating and and and operating and and and and and and and and and and	e shake table water) during t ihment and for erated within th mponent PN 191881P1 197515G1 191986G1 30339P3	he test. ce-resisting system e manufacturer op Manufacturer EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec	s was maintained. erational limits	des. Carbo Copper Tu 90 Steel pa ff, plated c ff, plated c	Mate Mate n Steel & C be, Galv. anel arbon stee arbon stee	terial Copper Mo Tube shee el/plastic b	otor ets ody and c		
The structural inte After the test, the I UUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor	III of contents grity of the co UUT was fund <b>y Tested</b> EC (208VA4 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD7	(refrigerant & imponent attactional and operational and operation <b>I Sub-Co</b> <b>I Sub-Co</b>	e shake table water) during t hment and for erated within th mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1	he test. ce-resisting system e manufacturer op t Manufacturer op t EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland	Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha	des. Carbo Copper Tu 90 Steel pa ff, plated c ff, plated c d cold rolle	with Mod Mate n Steel & be, Galv. inel arbon stee arbon stee d carbon s	terial Copper Mo Tube shee el/plastic b steel	ody and c	copper co	ntacts
The structural inte After the test, the I UUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor	III of contents grity of the co UUT was fund <b>y Testec</b> EC (208VAd 4 Row Tube CR020 208 60 Amp 65 100 Amp 65	(refrigerant & imponent attactional and operational and operational and operational and and operational (I) (I) (I) (I) (I) (I) (I) (I) (I) (I)	e shake table water) during t ihment and for erated within th mponent PN 191881P1 197515G1 191986G1 30339P3	he test. ce-resisting system e manufacturer op Manufacturer EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec	s was maintained. erational limits	des. Carbo Copper Tu 90 Steel pa ff, plated c ff, plated c d cold rolle (motor), co	Mat Mat n Steel & be, Galv. inel arbon stee d carbon stee d carbon	terial Copper Me Tube shee el/plastic b el/plastic b steel or winding:	otor tts ody and c ody and c s), plastic	copper co	ntacts
The structural inte After the test, the UUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump	III of contents grity of the co UUT was funct <b>y Testec</b> EC (208VA0 4 Row Tube CR020 2088 60 Amp 65 100 Amp 6 Scroll ZPD7 1/3 HP Pun condensate	(refrigerant & imponent attactional and operational and operational and operational and and operational (I) (I) (I) (I) (I) (I) (I) (I) (I) (I)	e shake table water) during t hment and for erated within th mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1	he test. ce-resisting system e manufacturer op t Manufacturer op t EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland	Aluminum blac Aluminum blac Aluminum sha Aluminum sha Aluminum sha Shell is painte Carbon Steel	des. Carbo Copper Tu 90 Steel pa ft, plated c ft, plated c d cold rolle (motor), co and brass (	Mat Mat n Steel & ibe, Galv. inel arbon stee arbon stee d carbon : pper (mot piping cor	terial Copper Mo Tube shee el/plastic b el/plastic b steel or winding: nnections).	otor tts ody and c ody and c s), plastic	copper co	ntacts
The structural inte After the test, the I JUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exc	III of contents grity of the co UUT was funct <b>y Testec</b> EC (208VA0 4 Row Tube CR020 2088 60 Amp 65 100 Amp 6 Scroll ZPD7 1/3 HP Pun condensate	(refrigerant & imponent attactional and operational and operational and operational and and operational (I) (I) (I) (I) (I) (I) (I) (I) (I) (I)	e shake table water) during t hment and for erated within the mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1	he test. ce-resisting system e manufacturer op Manufacturer EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell	s was maintained erational limits Aluminum blac Aluminum fin, Galvanized Gr Aluminum sha Aluminum sha Aluminum sha Shell is painte Carbon Steel and impeller) a All stainless si Electrical part	des. Carbo Copper Tu 90 Steel pa ff, plated c d cold rolle (motor), co and brass ( teel 316 HX s, carbon s	Mat n Steel & be, Galv. Inel arbon steed d carbon pper (mot piping cor K with coppet teel sheet	terial Copper Mo Tube sheet el/plastic b- el/plastic b- steel or winding: nections). per Braze metal and	otor ody and c ody and c s), plastic plastic	opper co	ntact: ousin
The structural inte After the test, the I UUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Excl Humidifier	III of contents grity of the co UUT was func- <b>y Testec</b> EC (208VAC 4 Row Tube CR020 208' 60 Amp 65 100 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Pun condensate h B80X26 UL 208V Heaters 6 K	(refrigerant & mponent attactional and ope d Sub-Co ription C) a & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 10 a 208VAC	e shake table water) during t hment and for erated within the mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2	he test. ce-resisting system e manufacturer op EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep	Aluminum blac Aluminum blac Aluminum blac Aluminum fin, Galvanized G Aluminum sha Aluminum sha Shell is painte Carbon Steel and impeller) a All stainless si Electrical parts	des. Carbo Copper Tu 90 Steel pa ff, plated c d cold rolle (motor), co and brass ( teel 316 HX s, carbon s eel (mtg PL	Mat n Steel & be, Galv. Inel arbon steed d carbon pper (mot piping cor K with copp teel sheet .s), nickel	terial Copper Mo Tube sheet el/plastic b el/plastic b steel or winding: nnections). per Braze metal and plated steet	otor ets ody and c ody and c s), plastic plastic el (mtg nu	(pump h	ntacts ousin
The structural inte After the test, the I UUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Compressor Condensate Pump Condensate Plate Heat Exco Humidifier Reheat Assembly	III of contents grity of the co UUT was func- <b>y Testec</b> EC (208VAC 4 Row Tube CR020 208' 60 Amp 65 100 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Pun condensate h B80X26 UL 208V Heaters 6 K	(refrigerant & imponent attactional and operational d Sub-Co a Sub-Co cription C) a & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 1p a 208VAC	e shake table water) during t imment and for prated within the mponent 191881P1 197515G1 191986G1 30339P3 257220P1 1A19271P1 257382P2 257521P3	Allen Bradley Socomec Copeland Hartell Swep Nortec	s was maintained erational limits Aluminum blav Aluminum sha Aluminum sha Aluminum sha Aluminum sha Shell is painte Carbon Steel and impeller) a All stainless st Electrical parts Galvanized st steel (electrica Brass (body),	des. Carbo Copper Tu 90 Steel pa ft, plated c d cold rolle (motor), co and brass ( teel 316 HX s, carbon s eel (mtg PL al connectio copper (pig	with Mod Mat n Steel & be, Galv. arbon stee arbon stee d carbon steed d carbon steed d carbon steed (with copel teel sheet teel sheet to, nickel ons) & silicons) a silicons)	terial Copper Mo Tube shee el/plastic b el/plastic b steel or winding: nections). per Braze metal and plated stee cone rubbe stainless s	ody and c ody and c ody and c s), plastic plastic el (mtg nu er (insulati teel (inter	(pump h (ts), stain ing termin nals).	ntacts ousin less nals).
The structural inte After the test, the I UUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exc Humidifier Reheat Assembly Thermal Expansion Valve	III of contents grity of the co UUT was func- <b>y Testec</b> EC (208VAC 4 Row Tube CR020 208' 60 Amp 65 100 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Pun condensate h B80X26 UL 208V Heaters 6 K	(refrigerant & imponent attactional and operational and operation (ription C) e & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 72 208VAC W 208V nsion Valve	e shake table water) during t hment and for erated within th mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257604G13	Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation Vertiv Corporation Vertiv Corporation Copeland Hartell	s was maintained erational limits Aluminum blac Aluminum fin, Galvanized Gr Aluminum sha Aluminum sha Aluminum sha Shell is painte Carbon Steel and impeller) a All stainless si Electrical parts Galvanized st steel (electrica	des. Carbo Copper Tu 90 Steel pa fft, plated c d cold rolle (motor), co and brass ( teel 316 H) s, carbon s eel (mtg PL al connectio copper (pig rd frame, p	with Mod Mat n Steel & be, Galv. arbon stee arbon stee d carbon steed d carbon steed d carbon steed (with copel teel sheet teel sheet to, nickel ons) & silicons) a silicons)	terial Copper Mo Tube shee el/plastic b el/plastic b steel or winding: nections). per Braze metal and plated stee cone rubbe stainless s	ody and c ody and c ody and c s), plastic plastic el (mtg nu er (insulati teel (inter	(pump h (ts), stain ing termin nals).	ntacts ousin less nals).
The structural inte After the test, the I UUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exc Humidifier Reheat Assembly Thermal Expansion Valve Air Filter	III of contents grity of the co UUT was function <b>y Testec</b> EC (208VAR 4 Row Tube CR020 208 60 Amp 65 100 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Purr condensate h B80X26 UL 208V Heaters 6 K 6 Ton Expan MERV8 Filte 300VA 460-	(refrigerant & mponent attactional and operational distributions of the second distribution of the sec	e shake table water) during ti bment and for erated within the mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257521P3 257604G13 257261P2	Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation Vertiv Corporation Copeland Hartell Swep Nortec	Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Brell is painte Carbon Steel and impeller) a All stainless sh Electrical parts Galvanized st steel (electrica Brass (body), Beverage boa metal mesh ba	des. Carbo Copper Tu 90 Steel pa ft, plated c d cold rolle (motor), co and brass ( teel 316 HX s, carbon s eel (mtg PL al connectio copper (pig rd frame, p acking	Mat Mat n Steel & be, Galv. inel arbon stee arbon stee d carbon steed d carbon steed d carbon steed d carbon steed consol & with cope teel sheet Ls), nickel ponsol & silico ping) and a pleated pol	terial Copper Ma Tube shee el/plastic b el/plastic b steel or winding: nnections). per Braze metal and plated stee cone rubbe stainless si lypropylend	otor ody and c ody and c ody and c s), plastic plastic el (mtg nu er (insulati teel (inter e blend M	(pump h (ts), stain ing termin nals).	ntacts ousin less nals).
The structural inte After the test, the I UUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Condensate Panel Assembly Condensate Plate Heat Exc Humidifier Reheat Assembly Thermal Expansion Valve Air Filter	II of contents grity of the co UUT was fund <b>y Testec</b> EC (208VAd 4 Row Tube CR020 208' 60 Amp 65 100 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Pur condensate h B80X26 UL 208V Heaters 6 K 6 Ton Expai MERV8 Filte	(refrigerant & mponent attactional and operational and operati	e shake table water) during t hment and for prated within the <b>mponent</b> 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257521P3 257604G13 257261P2 196968P1	Anter test. Co-resisting system e manufacturer op Manufacturer EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation Sporlan Valve Koch Filter Corp.	Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Brell is painte Carbon Steel and impeller) a All stainless sh Electrical parts Galvanized st steel (electrica Brass (body), Beverage boa metal mesh ba	des. Carbo Copper Tu 90 Steel pa ff, plated c d cold rolle (motor), co and brass ( teel 316 H) s, carbon s eel (mtg PL al connectio copper (pig rd frame, p acking	Mat n Steel & be, Galv. arbon stee arbon stee d carbon steed d carbon steed d carbon steed composed with copp teel sheet s, nicket ons) & silic oing) and s bleated polo and copp and copp	terial Copper Mo Tube shee el/plastic b el/plastic b steel or winding: metal and plated stee cone rubbe stainless s lypropylend per winding	otor ody and c ody and c ody and c s), plastic plastic el (mtg nu er (insulati teel (inter e blend M	(pump h (ts), stain ing termin nals).	ntacts ousing less nals).
The structural inte After the test, the I UUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exc Humidifier Reheat Assembly Thermal Expansion Valve Air Filter Electrical Panel Transforme Refigerant Receiver Heat Rejection Control Valve	II of contents grity of the co UUT was fund <b>y Testec</b> EC (208VAd 4 Row Tube CR020 208 60 Amp 65 100 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Purr condensate h B80X26 UL 208V Heaters 6 K 6 Ton Expar MERV8 Filte 300VA 460- X 24 Volt 60 Receiver 6" e 3 way globe	(refrigerant & mponent attac tional and ope a Since Color C) a & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 10 a 208VAC CONVOL	e shake table water) during t imment and for prated within the mponent 191881P1 197515G1 191986G1 30339P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 257261P2 196968P1 136202P1 300842P1 257271P1	Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation Sporlan Valve Koch Filter Corp. Emerson (Emermore Westermeyer Siemens	Aluminum blac Aluminum blac Aluminum blac Aluminum fin, Galvanized Gr Aluminum sha Shell is painte Carbon Steel and impeller) : All stainless si Electrical parts Galvanized st steel (electrica Brass (body), Beverage boa metal mesh b carbon Steel Electrical parts	des. Carbo Copper Tu 90 Steel pa ff, plated c d cold rolle (motor), co and brass ( teel 316 H) s, carbon s s, carb	Mat n Steel & be, Galv. arbon stee arbon stee arbon stee d carbon stee d carbon stee d carbon stee d carbon stee d carbon stee d carbon stee s and copp a steel sheet s, nickel piping cor ( with copp teel sheet s, nickel piping a steel s and copp ned to unit ic	terial Copper Mo Tube shee el/plastic b el/plastic b steel or winding: metal and plated stee cone rubbe stainless s lypropylend per winding	otor ody and c ody and c ody and c s), plastic plastic el (mtg nu er (insulati teel (inter e blend M	(pump h (ts), stain ing termin nals).	ntacts ousing less nals).
The structural inte After the test, the I UUT-7B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exc Humidifier Reheat Assembly Thermal Expansion Valve Air Filter Electrical Panel Transforme Refigerant Receiver	II of contents grity of the co UUT was fund <b>y Testec</b> EC (208VAd 4 Row Tube CR020 208 60 Amp 65 100 Amp 65 100 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Pur condensate h B80X26 UL 208V Heaters 6 K 6 Ton Expa MERV8 Filto 300VA 460- X 24 Volt 60 Receiver 6" e 3 way globe Actuator 24	(refrigerant & mponent attac tional and ope a Since Color C) a & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 10 a 208VAC CONVOL	e shake table water) during t bment and for prated within the mponent 191881P1 197515G1 191986G1 30339P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 257261P2 196968P1 136202P1 300842P1 257271P1 257371P1	Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation Sporlan Valve Koch Filter Corp. Emerson (Emermeyer	Aluminum blac Aluminum blac Aluminum blac Aluminum fin, Galvanized G Aluminum sha Aluminum sha Shell is painte Carbon Steel and impeller) a All stainless si Electrical parts Galvanized st steel (electrica Brass (body), Beverage boa metal mesh ba ex) Carbon Steel	des. Carbo Copper Tu 90 Steel pa ff, plated c d cold rolle (motor), co and brass ( teel 316 HX s, carbon s s, carbon s s, carbon s s, carbon s acking rd frame, p acking laminations shell attach s and plast	Mat n Steel & be, Galv. inel arbon stee arbon stee arbon stee d carbon stee d carbon stee d carbon stee d carbon stee d carbon stee steel sheet .s), nickel ons) & silic oing) and s leated pol s and copp ned to unit ic	terial Copper Mo Tube shee el/plastic b el/plastic b steel or winding: metal and plated stee cone rubbe stainless s lypropylend per winding	otor ody and c ody and c ody and c s), plastic plastic el (mtg nu er (insulati teel (inter e blend M	(pump h (ts), stain ing termin nals).	ntacts ousin less nals).





UUT-7C Test Sun												
Testing Lab:	Clark Tes											
Testing Report:	JID 2672-	-R										
Testing Unit Num:	1											
		Nominal								Tes	ted	1
Model Number	r	Capacity	Mounting		xcitation	Frequency	Length	Width	Height		ating	
incuci riumoo		(kW)	mounting	D	Direction	* (Hz)	(in)	(in)	(in)	-	nt (lbs)	
				X	Front - Back	11.0				vvergr	11 (105)	
CR020RW1C7SD1	871P	20	Rigid Base	Y		11.0	40.05	00.00	70 75	0,	34	
(CR020RW1C7SD1873F	060PA)	20	Mounted		Side - Side	4.2	46.25	22.63	78.75	0.	54	
	,			Ζ	Vertical	>33.3						
* Frequencies are for units p												
Jnit length, width, height and												
Nodel Number in parenthesi												
Attachment Method		eel angles (p			Seismic Parar	neters					-	
		lled on each			Building	Test			Horiz	ontal	Ver	tical
		/4"Ø self tap			-		S <sub>DS</sub> (g)	z/h				
	-	to the shake			Code	Criteria			A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	ARIG
	alameter (	Grade 5 bolts	per bracket.	14	C C	$\mathbf{D}$			<u> </u>		ļ	<u> </u>
				THE ALL AND A DECEMPENDED	CBC 2022	AC 156	0.80	1.0	1.28g	0.96g	0.54g	0.22
									Ŭ	Ű	Ű	
-2-200 Miles	A.A.			The C	R A WATTON					the second		1
	<del>-</del> >		MINER DE TH	1110	TY IN A XX						100	1
UUT-7C	10			LAM DE			1	10		-		
		15. AW		on	0201						10 I	
The second s				000	-0381		sar		L			HP-
		NXXXX III	NIN NIN NIN	XXX			200	10		-	10/b	
			XNXDXDDACKDOX	NIN -	C NO COLORISON			1	and the second			
			2V·Ma	ham	mad Ka	rim AC						
			BY: Mo	ham	imad Ka	r <b>im</b>	9				R	
			BY:Mo	ham	imad Ka	rim	2				C	
			BY:Mo	ham	imad Ka	rim				-	ġ	<
			BY:Mo	ham	mad Ka					- L	C	
			BY:Mo	ham	mad Ka 17/202	rim (1) 22 . (1)	6-6					
			BY:MO	ham	mad Ka	rim (1) 22 . (0)	6/					
			DATE	ham	mad Ka 17/202	rim	6/2					
			DATE	ham	mad Ka	22 .0	1- 620					
			DATE	10	mad Ka	22.0	6200					
	Figure 7C	c.1: Unit on th	DATE	10	mad Ka	22.0	6200	Figure 7	7 <b>C.2</b> : Mou	unting De	etails	
Notes: The UUTs were fu			DATE re shake tabl	e	11/202	22 0 00 00 00	6202	Figure 7	7 <b>C.2</b> : Mou	unting De	etails	
Notes: The UUTs were fu The structural inter	Il of contents	(refrigerant &	PARTING A	e the test.	11/202		6202	Figure 7	7 <b>C.2</b> : Mou	unting De	etails	
Notes: The UUTs were fu The structural integ After the test, the U	Il of contents grity of the co	(refrigerant &	PARTIES AND	e the test. rce-resis	sting systems w	vas maintained.	6/02	Figure 7	7 <b>C.2</b> : Mou	unting De	etails	
The structural integ After the test, the U	Il of contents grity of the co JUT was fund	(refrigerant & omponent attac ctional and ope	re shake table water) during to the ment and for erated within the	e the test. rce-resis	sting systems w	vas maintained.	6.0.	Figure 7	С.2: Мос	unting De	etails	
The structural integ After the test, the U	Il of contents grity of the co JUT was fund <b>y Testec</b>	(refrigerant & omponent attac ctional and ope	re shake table water) during to chment and for erated within the mponent	e the test. rce-resis he manu	sting systems w	vas maintained.	6.00		7C.2: Mou	unting De	etails	
The structural integ After the test, the U UUT-7C Summar Sub-Component	Il of contents grity of the cc JUT was fund <b>y Testec</b> Desc	(refrigerant & omponent attactional and open attactional and open attactional and open attaction	re shake table water) during to chment and for erated within the mponent	e the test. rce-resis he manu t <u>Man</u>	sting systems w ufacturer operation	vas maintained. tional limits		Mat	erial		etails	
The structural integ After the test, the UUT-7C Summary Sub-Component Cooling Fan	II of contents grity of the cc JUT was fund <b>y Testec</b> <u>Desc</u> EC (208VA	(refrigerant & omponent attactional and open d Sub-Co cription C)	re shake table water) during to chment and for erated within th mponent PN 191881P1	e the test. rce-resis he manu t <u>Man</u> EBM	sting systems w ufacturer operation	vas maintained. tional limits	es. Carboi	Mat n Steel & (	t <mark>erial</mark> Copper Mo	btor	etails	
The structural integ After the test, the UUT-7C Summar Sub-Component Cooling Fan Cooling Coil Assembly	Il of contents grity of the cc JUT was fund <b>y Testec</b> <u>Desc</u> EC (208VA 4 Row Tube	(refrigerant & omponent attactional and ope d Sub-Co cription C) e & Fin Coil	re shake table water) during to chment and for erated within the mponent PN 191881P1 197515G1	e the test. rce-resis he manu t EBM Vertiv (	sting systems w ufacturer operation	vas maintained. tional limits Aluminum blad Aluminum fin,	es. Carboi Copper Tu	Mat n Steel & ( be, Galv.	t <mark>erial</mark> Copper Mo	btor	etails	
The structural integ After the test, the UUUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	II of contents grity of the ccc JUT was fund <b>y Testec</b> EC (208VA 4 Row Tube CR020 208	(refrigerant & omponent attacctional and ope d Sub-Co cription C) e & Fin Coil	re shake tabl water) during to chment and for erated within the mponent PN 191881P1 197515G1 191986G1	e the test. rce-resis he manu t Mar EBM Vertiv ( Vertiv (	sting systems w utacturer operation nufacturer Corporation	Aluminum blad Aluminum fin, Galvanized GS	es. Carbon Copper Tu 0 Steel pa	Mat n Steel & 0 be, Galv. nel	t <mark>erial</mark> Copper Mo Tube shee	btor ets		
The structural integ After the test, the UUUT-7C Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect	II of contents grity of the cc JUT was fund <b>Testec</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65	(refrigerant & omponent attactional and operational d Sub-Co cription C) e & Fin Coil V KA SCCR	e shake tabl water) during t chement and for perated within th mponent PN 191881P1 197515G1 191986G1 303397P2	e the test. trce-resis the manu t Mar EBM Vertiv ( Vertiv ( Allen B	sting systems w ufacturer operation nufacturer Corporation Corporation Bradley	Aluminum blad Aluminum fin, Galvanized GS Aluminum shat	es. Carbor Copper Tu 0 Steel pa t, plated ca	Mat n Steel & ( be, Galv. 7 nel arbon stee	e <b>rial</b> Copper Mo Tube shee	otor ets ody and c	copper co	
The structural integ After the test, the UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect	II of contents grity of the ccc JUT was fund <b>y Testec</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6	(refrigerant & omponent attactional and operational d Sub-Co cription C) e & Fin Coil V KA SCCR 55KA SCCR	re shake tabl water) during to chenent and for erated within the mponent 191881P1 197515G1 191986G1 303397P2 303399P3	e the test. rce-resis he manu t EBM Vertiv ( Vertiv ( Allen B Socom	sting systems w ufacturer operation nufacturer Corporation Corporation Bradley nec	Aluminum blad Aluminum blad Aluminum shat Aluminum shat	es. Carbor Copper Tu 0 Steel pa t, plated ca t, plated ca	Mat n Steel & 0 be, Galv. nel arbon stee arbon stee	e <b>rial</b> Copper Mo Tube shee	otor ets ody and c	copper co	
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor	II of contents grity of the cc JUT was fund <b>y Testec</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD7	(refrigerant & omponent attac ctional and ope d Sub-Co ription C) e & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5	re shake tabl water) during t chment and for erated within th mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1	e the test. rce-resis he manu t EBM Vertiv ( Vertiv ( Vertiv ( Allen B Socom Copela	sting systems wuracturer operation Corporation Corporation Bradley nec and	Aluminum shat Aluminum shat Aluminum shat Aluminum shat Aluminum shat	es. Carbor Copper Tu 0 Steel pa t, plated ca t, plated ca t cold rolle	Mat n Steel & ( be, Galv. nel arbon stee arbon stee d carbon s	e <b>rial</b> Copper Mo Tube shee el/plastic b el/plastic b steel	otor ots ody and c	copper cc	ontacts
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor	II of contents grity of the cc JUT was fund <b>y Testec</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Pun	(refrigerant & omponent attactional and operational ctional and operational ctional and operational ctional and operation ctional and ctional attaction ctional at	re shake tabl water) during to chenent and for erated within the mponent 191881P1 197515G1 191986G1 303397P2 303399P3	e the test. rce-resis he manu t EBM Vertiv ( Vertiv ( Allen B Socom	sting systems wuracturer operation Corporation Corporation Bradley nec and	Aluminum shat Aluminum shat Aluminum shat Aluminum shat Aluminum shat	es. Carbor Copper Tu 0 Steel pa t, plated co t, plated co t cold rolle motor), cop	Mat n Steel & 6 be, Galv nel arbon stee arbon stee d carbon s	Perial Copper Mo Tube shee el/plastic b el/plastic b steel or windings	otor tts ody and c ody and c s), plastic	copper cc	ontact
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump	II of contents grity of the cc JUT was fund <b>y Testec</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Pun condensate	(refrigerant & component attactional and operational d Sub-Co cription C) e & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 np e 208VAC	e shake tabl water) during t chment and for erated within the mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1	t t t t t t t t t t t t t t t t t t t	sting systems wuracturer operation Corporation Corporation Bradley nec and	Aluminum shat Aluminum shat Aluminum shat Shell is paintee Carbon Steel ( and impeller) a	es. Carbon Copper Tu O Steel pa t, plated ca t, plated ca t, plated ca t cold rolle motor), cop nd brass (	Mat n Steel & C be, Galv. nel arbon stee arbon stee d carbon st poper (moto piping cor	erial Copper Mo Tube shee el/plastic b el/plastic b steel or windings nnections).	otor tts ody and c ody and c s), plastic	copper cc	ontact
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exch	II of contents grity of the cc JUT was fund <b>y Testec</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Pun condensate B80X26 UL	(refrigerant & component attactional and operational d Sub-Co cription C) e & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 np e 208VAC	e shake tabl water) during t thment and for erated within th mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2	e the test. cce-resis ne manu t EBM Vertiv Q Allen B Socom Copela Hartell Swep	sting systems w ufacturer operation Corporation Corporation Bradley nec and	Aluminum shat Aluminum shat Aluminum shat Aluminum shat Shell is painter Carbon Steel ( and impeller) a All stainless sto	es. Carbor Copper Tu O Steel pa t, plated ca t, cold rolle motor), cop nd brass ( cael 316 HX	Mat n Steel & ( be, Galv nel arbon stee d carbon st opper (moto piping cor ( with cop)	erial Copper Mo Tube shee el/plastic bo el/plastic bo steel or windings nections). per Braze	otor ody and o ody and o s), plastic	copper cc	ontact
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exch Humidifier	II of contents grity of the cc JUT was fund <b>y Testec</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD7 1/3 HP Pun condensate B80X26 UL 208V	(refrigerant & omponent attac ctional and ope d Sub-Co eription C) e & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 np e 208VAC	e shake tabl water) during to be shake tabl water) during to be shake tabl mponent mponent 191881P1 197515G1 191986G1 30339P3 257220P1 1A19271P1 257382P2 257521P3	e the test. rce-resis he manu t t Vertiv Q Vertiv Q Allen B Socom Copela Hartell Swep Nortec	sting systems w ufacturer operation nufacturer Corporation Bradley nec and	Aluminum blad Aluminum blad Aluminum blad Aluminum shat Shell is painter Carbon Steel ( and impeller) a All stainless stre Electrical parts	es. Carbon Copper Tu 0 Steel pa t, plated ca 1 cold rolle motor), cop nd brass ( eel 316 HX , carbon st	Mat n Steel & 6 be, Galv. i nel arbon stee d carbon stee d	erial Copper Mo Tube shee el/plastic bo steel or windings nections). per Braze metal and	otor otts ody and o ody and o s), plastic	copper cc copper cc	ontact
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exch Humidifier	II of contents grity of the cc JUT was fund <b>y Testec</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Pun condensate B80X26 UL	(refrigerant & omponent attac ctional and ope d Sub-Co eription C) e & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 np e 208VAC	e shake tabl water) during t thment and for erated within th mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2	e the test. rce-resis he manu t t Vertiv Q Vertiv Q Allen B Socom Copela Hartell Swep Nortec	sting systems w ufacturer operation Corporation Corporation Bradley nec and	Aluminum shat Aluminum shat Aluminum shat Aluminum shat Shell is painter Carbon Steel ( and impeller) a All stainless sto	es. Carbon Copper Tu 0 Steel pa t, plated ca t, plated ca d cold rolle motor), cop motor), cop motor), cop d carbon si eel 316 HX , carbon si eel (mtg PL	Mat n Steel & 6 be, Galv. nel arbon stee arbon stee d carbon s opper (moto piping cor ( with cop) teel sheet s), nickel	eerial Copper Mo Tube shee el/plastic b el/plastic b steel or windings nections). per Braze metal and plated stee	otor ody and c ody and c ody and c s), plastic plastic el (mtg nu	copper cc copper cc : (pump h	ontact iousin
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exch Humidifier Reheat Assembly	II of contents grity of the cc JUT was fund <b>PESC</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD7 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 K	(refrigerant & mponent attac ctional and ope d Sub-Co cription C) e & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 np e 208VAC	e shake tabl water) during t the shake tabl water) during t the shake tabl ment and for rated within the mponent mponent 191881P1 191986G1 303397P2 303397P3 257220P1 1A19271P1 257382P2 257521P3 257604G13	e the test. cce-resis he manu t BBM Vertiv ( Allen B Socom Copela Hartell Swep Nortec Vertiv (	sting systems w utacturer operation Corporation Bradley nec and Corporation	Aluminum blad Aluminum blad Aluminum shat Aluminum shat Aluminum shat Aluminum shat Shell is paintee Carbon Steel ( and impeller) a All stainless ste Electrical parts Galvanized ste steel (electrica	es. Carbon Copper Tu 0 Steel pa t, plated ca t, plated ca d cold rolle motor), cop motor), cop motor), cop and brass ( eeel 316 HX , carbon st eel (mtg PL I connectic	Mat n Steel & d be, Galv. nel arbon stee arbon stee d carbon s oper (mote piping cor ( with cop) ( wit	erial Copper Mo Tube shee el/plastic b steel or winding: nections). per Braze metal and plated stee cone rubbe	otor ody and c ody and c ody and c s), plastic plastic el (mtg nu er (insulat	copper cc copper cc copper cc c (pump r its), stair ing termi	ontact iousin
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Excel Humidifier Reheat Assembly	II of contents grity of the cc JUT was fund <b>y Testec</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD7 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 K 6 Ton Expa	(refrigerant & omponent attac ctional and ope d Sub-Co cription C) e & Fin Coil V KA SCCR 55KA SCCR 72KCE-TF5 np e 208VAC C C C C C C C C C C C C C C C C C C	e shake tabl water) during t benent and for erated within the mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 257261P2	e the test. rce-resis me manu t EBM Vertiv ( Allen B Socom Copela Hartell Swep Nortec Vertiv ( Sporlar	sting systems w ufacturer operation nufacturer Corporation Bradley nec and Corporation Bradley nec and	Aluminum blad Aluminum blad Aluminum blad Aluminum shat Aluminum shat Shell is paintee Carbon Steel ( and impeller) a All stainless str Electrical parts Galvanized stee steel (electrical Brass (body), o	es. Carbon Copper Tu 0 Steel pa t, plated ca t, plated ca d cold rolle motor), cop motor), cop motor), cop motor), cop soft rass ( eeel 316 HX , carbon si eel (mtg PL I connectic copper (pip	Mat n Steel & d be, Galv. nel arbon stee d carbon stee sipping corr ( with copp teel sheet s), nickel ons) & silic ing) and s	erial Copper Mo Tube shee el/plastic b steel or windings nections). per Braze metal and plated stee cone rubbe stainless st	otor ody and o ody and o s), plastic plastic el (mtg nu er (insulati teel (inter	copper co copper co copper co copper co copper co copper co copper co copper co copper co copper co co copper co co copper co co copper co co copper co co co co co co co co co co co co co c	less
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Excel Humidifier Reheat Assembly Thermal Expansion Valve	II of contents grity of the cc JUT was fund <b>PESC</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD7 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 K	(refrigerant & omponent attac ctional and ope d Sub-Co cription C) e & Fin Coil V KA SCCR 55KA SCCR 72KCE-TF5 np e 208VAC C C C C C C C C C C C C C C C C C C	e shake tabl water) during t the shake tabl water) during t the shake tabl ment and for rated within the mponent mponent 191881P1 191986G1 303397P2 303397P3 257220P1 1A19271P1 257382P2 257521P3 257604G13	e the test. rce-resis me manu t EBM Vertiv ( Allen B Socom Copela Hartell Swep Nortec Vertiv ( Sporlar	sting systems w utacturer operation Corporation Bradley nec and Corporation	Aluminum blad Aluminum blad Aluminum blad Aluminum shat Shell is paintee Carbon Steel ( and impeller) a All stainless ste Electrical parts Galvanized ste steel (electrica Brass (body), o Beverage boar	es. Carbon Copper Tu 0 Steel pa t, plated ca t, plated ca d cold rollee motor), cop nd brass ( eel 316 HX , carbon sf rel (mtg PL I connectic copper (pip d frame, p	Mat n Steel & d be, Galv. nel arbon stee d carbon stee sipping corr ( with copp teel sheet s), nickel ons) & silic ing) and s	erial Copper Mo Tube shee el/plastic b steel or windings nections). per Braze metal and plated stee cone rubbe stainless st	ody and c ody and c ody and c s), plastic plastic el (mtg nu er (insulati teel (inter	copper co copper co copper co copper co copper co copper co copper co copper co copper co copper co co copper co co copper co co copper co co copper co co co co co co co co co co co co co c	less
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Excel Humidifier Reheat Assembly Thermal Expansion Valve	II of contents grity of the cc JUT was fund <b>y Testec</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD7 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 k 6 Ton Expa	(refrigerant & omponent attac ctional and ope d Sub-Co e & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 np 208VAC 208VAC	e shake tabl water) during t benent and for erated within the mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 257261P2	e the test. rce-resis me manu t EBM Vertiv ( Allen B Socom Copela Hartell Swep Nortec Vertiv ( Sporlar	sting systems w ufacturer operation nufacturer Corporation Bradley nec and Corporation Bradley nec and	Aluminum blad Aluminum blad Aluminum blad Aluminum shat Aluminum shat Shell is paintee Carbon Steel ( and impeller) a All stainless str Electrical parts Galvanized stee steel (electrical Brass (body), o	es. Carbon Copper Tu 0 Steel pa t, plated ca t, plated ca d cold rollee motor), cop nd brass ( eel 316 HX , carbon sf rel (mtg PL I connectic copper (pip d frame, p	Mat n Steel & d be, Galv. nel arbon stee d carbon stee sipping corr ( with copp teel sheet s), nickel ons) & silic ing) and s	erial Copper Mo Tube shee el/plastic b steel or windings nections). per Braze metal and plated stee cone rubbe stainless st	ody and c ody and c ody and c s), plastic plastic el (mtg nu er (insulati teel (inter	copper co copper co copper co copper co copper co copper co copper co copper co copper co copper co co copper co co copper co co copper co co copper co co co co co co co co co co co co co c	less nals).
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Compressor Condensate Pump Condensate Plate Heat Exch Humidifier Reheat Assembly Thermal Expansion Valve Air Filter	II of contents grity of the cc JUT was fund <b>y Testec</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD7 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 k 6 Ton Expa MERV8 Filt 300VA 460	(refrigerant & omponent attac ctional and ope d Sub-Co exiption C) e & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 np e 208VAC cw 208V cw 208V cw 208V er -600 Volt	e shake tabl water) during t benent and for erated within the mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 257261P2	the test. cce-resis me manu t BBM Vertiv ( Vertiv ( Allen B Socom Copela Hartell Swep Nortec Vertiv ( Sporlar Koch F	sting systems w ufacturer operation nufacturer Corporation Bradley nec and Corporation Bradley nec and	Aluminum blad Aluminum blad Aluminum blad Aluminum shat Shell is paintee Carbon Steel ( and impeller) a All stainless ste Electrical parts Galvanized ste steel (electrica Brass (body), o Beverage boar	es. Carbon Copper Tu 0 Steel pa t, plated ca d cold rolle motor), cop nd brass ( el cold rolle to carbon si carbon si el (mtg PL I connectic copper (pip d frame, p cking	Mat n Steel & 6 be, Galv. nel arbon stee d carbon stee d carbon stee d carbon stee d carbon stee si piping cor ( with cop teel sheet s), nickel ons) & silic ing) and s leated pol	erial Copper Mo Tube shee el/plastic be steel or windings nections). per Braze metal and plated stee cone rubbe stainless st lypropylend	otor ody and c ody and c ody and c s), plastic el (mtg nu er (insulat teel (inter e blend M	copper co copper co copper co copper co copper co copper co copper co copper co copper co copper co co copper co co copper co co copper co co copper co co co co co co co co co co co co co c	less
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Condensate Plate Heat Exch Humidifier Reheat Assembly Thermal Expansion Valve Air Filter Electrical Panel Transformer	II of contents grity of the cc JUT was fund <b>Pesc</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD7 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 k 6 Ton Expa MERV8 Filt 300VA 460- X 24 Volt 60	(refrigerant & omponent attac ctional and ope d Sub-Co eription C) e & Fin Coil V KA SCCR 72KCE-TF5 np e 208VAC C C C C C C C C C C C C C C C C C C	A shake table water) during to chement and for erated within the mponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257521P3 257604G13 257261P2 196968P1 136202P1	e the test. rce-resis he manu t EBM Vertiv ( Allen B Socom Copela Hartell Swep Nortec Vertiv ( Sporlar Koch F Emerso	And a second sec	Aluminum blad Aluminum blad Aluminum blad Aluminum shat Shell is paintee Carbon Steel ( and impeller) a All stainless ste Electrical parts Galvanized ste steel (electrica Brass (body), o Beverage boar metal mesh ba Carbon Steel la	es. Carbon Copper Tu 0 Steel pa t, plated ca t, plated ca 1 cold rolle motor), cop nd brass ( 2 carbon si eel 316 HX , carbon si eel (mtg PL I connectic copper (pip d frame, p cking	Mat n Steel & d be, Galv. nel arbon stee d carbon stee sipping cor ( with copp teel sheet s), nickel sing) and s leated pol	erial Copper Mo Tube shee el/plastic be steel or windings nections). per Braze metal and plated stee cone rubbe stainless si lypropylene	otor ody and c ody and c ody and c s), plastic el (mtg nu er (insulat teel (inter e blend M	copper co copper co copper co copper co copper co copper co copper co copper co copper co copper co co copper co co copper co co copper co co copper co co co co co co co co co co co co co c	less nals).
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Excel Humidifier Reheat Assembly Thermal Expansion Valve Air Filter Electrical Panel Transformer Refigerant Receiver	II of contents grity of the cc JUT was fund <b>Pesc</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 K 6 Ton Expa MERV8 Filt 300VA 460- X 24 Volt 60 Receiver 6"	(refrigerant & omponent attac ctional and ope d Sub-Co entription C) e & Fin Coil V KA SCCR 72KCE-TF5 np e 208VAC C C C C C C C C C C C C C C C C C C	e shake tabl water) during t benent and for mponent 191881P1 197515G1 19198G1 30339P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 2577604G13 2577261P2 196968P1 136202P1 300842P1	e the test. rce-resis he manu t EBM Vertiv Q Vertiv Q Allen B Socom Copela Hartell Swep Nortec Vertiv Q Sporlar Koch F Emerso Wester	And a second sec	Aluminum blad Aluminum blad Aluminum shat Aluminum shat Aluminum shat Shell is painted Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrica Brass (body), o Beverage boar metal mesh ba Carbon Steel Is Carbon Steel Is	es. Carbon Copper Tu 0 Steel pa t, plated ca t, plated ca d cold rolle motor), cop nd brass ( ael 316 HX , carbon sf el (mtg PL I connectic copper (pip d frame, p cking aminations hell attach	Mat n Steel & be, Galv. nel arbon stee d carbon stee d carbon stee d carbon stee d carbon stee shows a stee ingip and s leated pol and copp ed to unit	erial Copper Mo Tube shee el/plastic be steel or windings nections). per Braze metal and plated stee cone rubbe stainless si lypropylene	otor ody and c ody and c ody and c s), plastic el (mtg nu er (insulat teel (inter e blend M	copper co copper co copper co copper co copper co copper co copper co copper co copper co copper co co copper co co copper co co copper co co copper co co co co co co co co co co co co co c	less nals).
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Plate Heat Exch Humidifier Reheat Assembly Chermal Expansion Valve Air Filter Electrical Panel Transformer Refigerant Receiver Heat Rejection Control Valve	II of contents grity of the cc JUT was fund <b>y Testec</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 K 6 Ton Expa MERV8 Filt 300VA 460 X 24 Volt 60 Receiver 6"	(refrigerant & omponent attactional and operational and operat	e shake tabl water) during t benent and for prated within the mponent 191881P1 197515G1 191986G1 30339P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 2577261P2 196968P1 136202P1 300842P1 257271P1	e the test. rce-resis he manu EBM Vertiv Q Allen B Socom Copela Hartell Swep Nortec Vertiv Q Sporlar Koch F Emerso Wester Siemer	sting systems w ufacturer operation nufacturer corporation Bradley nec and Corporation Gorporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec Corporation Bradley nec Corporation Bradley nec Corporation Bradley nec Corporation Bradley Corporation Bradley Corporation Bradley Corporation Bradley Corporation Bradley Bradley Corporation Bradley	Aluminum blad Aluminum blad Aluminum shat Aluminum shat Aluminum shat Shell is painted Carbon Steel ( and impeller) a All stainless str Electrical parts Galvanized stat Galvanized stat Galvanized stat Galvanized stat Galvanized stat Galvanized stat Electrical parts Steel (electrical Brass (body), o Beverage boar metal mesh ba Carbon Steel s Electrical parts	es. Carbon Copper Tu 0 Steel pa t, plated ca t, plated ca d cold rolle motor), cop nd brass ( eel 316 HX , carbon st eel (mtg PL I connectic copper (pip d frame, p cking aminations hell attach and plasti	Mat n Steel & d be, Galv. nel arbon stee arbon stee d carbon stee d carbon stee d carbon stee d carbon stee singper (mote piping cor ( with copp teel sheet s), nickel ns) & silic ns) & s	erial Copper Mo Tube shee el/plastic be steel or windings nections). per Braze metal and plated stee cone rubbe stainless si lypropylene	otor ody and c ody and c ody and c s), plastic el (mtg nu er (insulat teel (inter e blend M	copper co copper co copper co copper co copper co copper co copper co copper co copper co copper co co copper co co copper co co copper co co copper co co co co co co co co co co co co co c	less nals).
The structural integ After the test, the U UUT-7C Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Condensate Panel Assembly Condensate Plate Heat Exch Humidifier Reheat Assembly Thermal Expansion Valve Air Filter Electrical Panel Transformer	II of contents grity of the cc JUT was fund <b>y Testec</b> EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD7 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 K 6 Ton Expa MERV8 Filt 300VA 460 X 24 Volt 60 Receiver 6" 3 way globe Actuator 24	(refrigerant & omponent attactional and operational and operat	e shake tabl water) during 1 bment and for erated within the mponent 191881P1 197515G1 30339P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 257261P2 196968P1 136202P1 300842P1 257271P1 257371P1	e the test. rce-resis he manu t EBM Vertiv Q Vertiv Q Allen B Socom Copela Hartell Swep Nortec Vertiv Q Sporlar Koch F Emerso Wester	sting systems w ufacturer operation nufacturer Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec Corporation Bradley nec Corporation Bradley nec Corporation Bradley Nec Corporation Bradley State Corporation Bradley State S	Aluminum blad Aluminum blad Aluminum shat Aluminum shat Aluminum shat Shell is painted Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrica Brass (body), o Beverage boar metal mesh ba Carbon Steel Is Carbon Steel Is	es. Carbon Copper Tu 0 Steel pa it, plated ca it, plated ca it cold rolle motor), cop nd brass ( el cold rolle motor), cop nd brass ( el al cond rolle conper (pip d frame, p cking aminations hell attach and plasti	Mat n Steel & 4 be, Galv. nel arbon stee d carbon stee d carbon stee d carbon stee sipper (moto piping cor ( with copp teel sheet s), nickel nns) & silic ing) and s leated pol and copp ed to unit c c	erial Copper Mo Tube shee el/plastic be steel or windings nections). per Braze metal and plated stee cone rubbe stainless si lypropylene	otor ody and c ody and c ody and c s), plastic el (mtg nu er (insulat teel (inter e blend M	copper co copper co copper co copper co copper co copper co copper co copper co copper co copper co co copper co co copper co co copper co co copper co co co co co co co co co co co co co c	less





Testing Lab:	Clark Tes	ting Lab										
Testing Report:	JID 2672-	R	-									
Festing Unit Num:	2		_									
Model Numbe	r	Nominal Capacity (kW)	Mounting		ixcitation Direction	Frequency * (Hz)	Length (in)	Width (in)	Height (in)	Oper	sted ating nt (Ibs)	
CR035RW1A7SD1 (CR035RW1A7SD1974	-	35	Rigid Base Mounted	X Y Z	Front - Back Side - Side Vertical	10.2 6.6 >33.3	46.25	22.63	78.75	9;	38	
Frequencies are for units p	prior to ICC ES	S AC-156 testi	na.	2	Vertiour	- 00.0						1
Jnit length, width, height an			•	ted in T	able 1.							
Model Number in parenthes		•										
Attachment Method	Seismic kits	(part # 31781	6G0) was	5	Seismic Para	meters						
vith Seismic	attached to	unit with eight	(8) 1/4"Ø self						Horiz	ontol	Vert	ical
Modifications	tapping scre	ews on each e	nd of the unit.		Building	Test	S <sub>DS</sub> (g)	z/h	HUHZ	Unitar	ven	licai
			ed to table with		Code	Criteria	ODS (9)	2/11	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	Δ
	. ,		bolts (6 bolts p	_	JUEC				* FLX-H	* RIG-H	* FLX-V	* "RIG
	unit). Cross	brace (PN 31	3743G1), shov	wn	CBC 2022	AC 156	2.00	1.0	3.20g	2.40g	1.68g	0 69
	below was ii	nstalled		AWW/	CDC 2022	70 130	2.50	0.0	5.20g	2.40 <u>y</u>	1.009	0.00
			BY Mo	ham		rim						
Notes: The UUTs were fu The structural inte After the test, the	II of contents	(refrigerant & mponent attac	ne shake table water) during to hment and for	e the test rce-resi	t. isting systems w	22 vas maintained.		<b>B.2:</b> Mot	unting De	tails with	n Modific	ation
The structural inte After the test, the UUT-8B Summar	Il of contents grity of the co JUT was func <b>y Tested</b>	(refrigerant & mponent attac ctional and ope I Sub-Co	ne shake table water) during to chment and for parated within the perponent	e the test rce-resi ne manu t	t. isting systems w ufacturer opera	22 vas maintained.	Figure 8			tails with	n Modific	ation
The structural inte After the test, the UUT-8B Summar Sub-Component	Ill of contents grity of the co JUT was func y Tested Descr	(refrigerant & mponent attac tional and ope I Sub-Co ription	ne shake table water) during for chiment and for erated within the mponent PN	e the test trce-resi te manu t/T	t. isting systems w	22 vas maintained.	Figure 8	Mat	terial		n Modific	ation
The structural inte After the test, the UUT-8B Summar Sub-Component Cooling Fan	Ill of contents grity of the co JUT was func <b>y Tested</b> Desc EC (460VA0	(refrigerant & mponent attac tional and ope I Sub-Co ription C)	ne shake tabl water) during f chment and for erated within th mponent PN 257240P1	e the test rce-resi the manu t/T	t. isting systems w ufacturer opera nufacturer	22 vas maintained. tional limits	Figure 8	Mat n Steel &	terial Copper Mo	ptor	n Modific	ation
The structural inte After the test, the I UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly	Ill of contents grity of the co JUT was func <b>y Tested</b> EC (460VA0 6 Row Tube	(refrigerant & mponent attact tional and ope I Sub-Co ription C) & & Fin Coil	ne shake tabl water) during t chment and for erated within th mponent PN 257240P1 197542G1	e the test rce-resine manu t/// EBM Vertiv	t. isting systems w ufacturer opera nufacturer Corporation	vas maintained. tional limits Aluminum blac Aluminum fin,	Figure 8	<i>Ma</i> t n Steel & be, Galv.	terial Copper Mo	ptor	n Modific	ation
The structural inte After the test, the UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	II of contents grity of the cou JUT was func <b>y Tested</b> EC (460VAC 6 Row Tube CR035 460V	(refrigerant & mponent attactional and ope I Sub-Co ription C) & & Fin Coil	ne shake tabl water) during t chment and for erated within th mponent PN 257240P1 197542G1 191986G4	e the test rce-resine manu t t BBM Vertiv Vertiv	t. sting systems w ufacturer opera nufacturer Corporation Corporation	vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS	Figure 8	Mat n Steel & be, Galv. nel	terial Copper Mo Tube shee	otor ets		
The structural inte After the test, the I UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1)	II of contents grity of the cou JUT was func <b>y Tested</b> EC (460VAC 6 Row Tube CR035 460V 60 Amp 65H	(refrigerant & mponent attact tional and ope I Sub-Co ription C) a & Fin Coil V KA SCCR	e shake table water) during t chment and for erated within th mponent PN 257240P1 197542G1 191986G4 303397P2	e the test rce-resi he man t EBM Vertiv Vertiv Allen E	t. sting systems w ufacturer opera nufacturer Corporation Corporation Bradley	vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha	Figure 8	Mat n Steel & be, Galv. nel arbon stee	terial Copper Mo Tube shee	otor ets ody and o	copper co	ontact
The structural inte After the test, the I UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1)	II of contents grity of the cou JUT was func <b>y Tested</b> EC (460VAC 6 Row Tube CR035 460V 60 Amp 65H 30 Amp 65H	(refrigerant & mponent attact tional and ope I Sub-Co ription C) & Fin Coil V KA SCCR KA SCCR	e shake table water) during to chement and for erated within th mponent 257240P1 197542G1 191986G4 303397P2 303399P3	e the test rce-resi toe manu t BBM Vertiv Vertiv Allen E Socom	t. sting systems w ufacturer operation nufacturer Corporation Corporation Bradley nec	vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha Aluminum sha	Figure 8	<i>Ma</i> t n Steel & be, Galv. nel arbon stee arbon stee	terial Copper Ma Tube shee el/plastic b	otor ets ody and o	copper co	ontact
The structural inte After the test, the I UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor	II of contents grity of the cou- JUT was funce <b>y Tested</b> EC (460VA0 6 Row Tube CR035 460V 60 Amp 65H 30 Amp 65H Scroll ZPD1 1/3 HP Pum	(refrigerant & mponent attact tional and operational <b>I Sub-Co</b> <b>I Sub-Co</b> <b>iption</b> C) & Fin Coil V KA SCCR KA SCCR 20KCE-TFD	e shake table water) during t chment and for erated within th mponent 257240P1 197542G1 191986G4 303397P2 303399P3 257223P2	e the test rce-resine manu EBM Vertiv Vertiv Allen E Scopela	t. sting systems w ufacturer opera nufacturer Corporation Corporation Bradley nec and	vas maintained. tional limits Aluminum blac Aluminum blac Aluminum sha Aluminum sha Shell is paintee Carbon Steel (	Figure 8 Figure 8 les. Carbon Copper Tu 20 Steel pa ft, plated ca ft, pl	Mat n Steel & be, Galv. nel arbon stee arbon stee d carbon pper (mot	terial Copper Mo Tube shee el/plastic b el/plastic b steel or winding:	otor ody and o ody and o s), plastic	copper cc	ontact
The structural inte After the test, the UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor	II of contents grity of the cou- JUT was funce <b>y Tested</b> EC (460VA0 6 Row Tube CR035 460V 60 Amp 65H 30 Amp 65H Scroll ZPD1 1/3 HP Pum condensate	(refrigerant & mponent attact tional and operational <b>I Sub-Co</b> <b>I Sub-Co</b> <b>iption</b> C) & Fin Coil V KA SCCR KA SCCR 20KCE-TFD	e shake table water) during to hement and for erated within the mponent 257240P1 191986G4 303397P2 303399P3 257223P2 1A19271P2	e the test rce-resine manu t/// EBM Vertiv Vertiv Allen E Socom Copela Hartell	t. sting systems w ufacturer opera nufacturer Corporation Corporation Bradley nec and	vas maintained. tional limits Aluminum blac Aluminum blac Aluminum sha Aluminum sha Shell is painter Carbon Steel ( and impeller) a	Figure 8 Figure 8 Les. Carbon Copper Tu 30 Steel pa ft, plated ca ft, plated ca ft, plated ca d cold rolle motor), co and brass (	Mat n Steel & be, Galv. nel arbon stee arbon stee d carbon pper (mot piping col	terial Copper Mo Tube shees el/plastic b el/plastic b steel or winding: nnections).	otor ody and o ody and o s), plastic	copper cc	ontact
The structural inte After the test, the I UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Exc	Il of contents grity of the cou JUT was func <b>y Tested</b> EC (460VA0 6 Row Tube CR035 460V 60 Amp 65H 30 Amp 65H Scroll ZPD1 1/3 HP Pum condensate h B80X42 UL	(refrigerant & mponent attact tional and operational <b>I Sub-Co</b> <b>I Sub-Co</b> <b>iption</b> C) & Fin Coil V KA SCCR KA SCCR 20KCE-TFD	e shake table water) during to hement and for erated within the mponent 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257382P2	e the test rce-resi te manu t Man EBM Vertiv Vertiv Vertiv Vertiv Allen E Socom Copela Hartell Swep	t isting systems w ufacturer operation nufacturer Corporation Bradley nec and I	vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha Aluminum sha Shell is painter Carbon Steel ( and impeller) a All stainless st	Figure 8 Figure 8 Fig	Man n Steel & be, Galv. nel arbon stee arbon stee d carbon pper (mot piping col 4 with cop	terial Copper Mo Tube shees el/plastic b el/plastic b steel or winding: nnections). per Braze	otor ody and d ody and d s), plastic	copper cc	ontact
The structural inte After the test, the I UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Exc	II of contents grity of the cou- JUT was funce <b>y Tested</b> EC (460VA0 6 Row Tube CR035 460V 60 Amp 65H 30 Amp 65H Scroll ZPD1 1/3 HP Pum condensate	(refrigerant & mponent attact tional and operational <b>I Sub-Co</b> <b>I Sub-Co</b> <b>iption</b> C) & Fin Coil V KA SCCR KA SCCR 20KCE-TFD	e shake table water) during to hement and for erated within the mponent 257240P1 191986G4 303397P2 303399P3 257223P2 1A19271P2	e the test rce-resine manu t/// EBM Vertiv Vertiv Allen E Socom Copela Hartell	t isting systems w ufacturer operation nufacturer Corporation Bradley nec and I	vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha Shell is paintee Carbon Steel ( and impeller) a All stainless st Electrical parts	Figure 8 Figure 7 Figure 7 Fig	Mat n Steel & be, Galv. nel arbon stea arbon stea d carbon pper (mot piping col ( with cop teel sheet	terial Copper Mo Tube shee el/plastic b steel or winding- nnections). per Braze metal and	otor ody and d ody and d s), plastic	copper cc copper cc c (pump h	ontact
The structural inte After the test, the I UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Excl Humidifier	Il of contents grity of the cou JUT was func <b>y Tested</b> EC (460VA0 6 Row Tube CR035 460V 60 Amp 65H 30 Amp 65H Scroll ZPD1 1/3 HP Pum condensate h B80X42 UL	(refrigerant & mponent attactional and operational and operati	e shake table water) during to hement and for erated within the mponent 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257382P2	e the test rce-resine manual t t t t t t t t t t t t t t t t t t t	t isting systems w ufacturer operation nufacturer Corporation Bradley nec and I	vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha Aluminum sha Shell is painter Carbon Steel ( and impeller) a All stainless st	Figure 8 Figure 8 des. Carbon Copper Tu 30 Steel pa ft, plated ca ft, plated ca d cold rolle motor), cop and brass ( eel 316 HX s, carbon si beel (mtg PL	Mat n Steel & be, Galv. nel arbon stee arbon stee d carbon pper (mot piping coi ( with cop ( with cop t. s), nickel	terial Copper Mo Tube shee el/plastic b el/plastic b steel or winding: nections). per Braze metal and plated stee	otor ody and d ody and d s), plastic plastic el (mtg nu	copper cc copper cc copper cc copper cc copper cc	ontact
The structural inte After the test, the I JUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Exc Jumidifier Reheat Assembly	II of contents grity of the cou- JUT was funct <b>y Tested</b> EC (460VAC 6 Row Tube CR035 460V 60 Amp 65H 30 Amp 65H Scroll ZPD1 1/3 HP Pum condensate B80X42 UL 460V	(refrigerant & mponent attactional and oper- tional and oper- ription C) & & Fin Coil V KA SCCR & A SCCR 20KCE-TFD pp 460VAC	e shake table water) during t chment and for erated within th <b>mponent</b> 257240P1 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257382P2 257521P2 257504G14	e the test rce-resine manu EBM Vertiv Allen E Socorr Copela Hartell Swep Nortec Vertiv	t. sting systems w ufacturer operation Corporation Corporation Bradley nec and I	vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha Shell is painter Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrica	Figure 8 Figure 7 Figure 7 Fig	Mat n Steel & be, Galv. nel arbon stee arbon stee d carbon pper (mot piping cor ( with cop teel sheet .s), nickel ons) & silid	terial Copper Mo Tube shee el/plastic b el/plastic b steel or winding: nections). per Braze imetal and plated stee cone rubbe	otor ody and d ody and d s), plastic plastic el (mtg nu r (insulat	copper cc copper cc	ontact
The structural inte After the test, the UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Compressor Condensate Pump	II of contents grity of the cou- JUT was funct <b>V Tested</b> EC (460VAC 6 Row Tube CR035 460V 60 Amp 65H 30 Amp 65H Scroll ZPD1 1/3 HP Pum condensate h B80X42 UL 460V Heaters 6 K	(refrigerant & mponent attac tional and ope I Sub-Co I Su	e shake table water) during to homent and for erafed within th mponent 257240P1 197542G1 191986G4 303397P2 30339P3 257223P2 1A19271P2 257382P2 257521P2	e the test rce-resine manual total EBM Vertiv Vertiv Vertiv Allen E Socorr Copela Hartell Swep Nortec Vertiv	t. t. t. t. t. t. t. t. t. t.	vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha Aluminum sha Shell is paintee Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste	Figure 8 Figure 8 des. Carboo Copper Tu 20 Steel pa ft, plated ca ft, pl	Mat n Steel & be, Galv. nel arbon stea d carbon piping coi ( with cop teel sheet s.), nickel ons) & silid oing) and s	terial Copper Mo Tube shee el/plastic b el/plastic b steel or winding: nections). per Braze metal and plated stee cone rubbe stainless s	otor ody and d ody and d s), plastic plastic el (mtg nu er (insulat teel (inter	copper cc copper copper	ontact ontact ousin less nals).
The structural inte After the test, the I UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Exc Humidifier Reheat Assembly	II of contents grity of the cou- JUT was funct <b>y Tested</b> EC (460VAC 6 Row Tube CR035 460V 60 Amp 65H 30 Amp 65H 30 Amp 65H Scroll ZPD1 1/3 HP Pum condensate h B80X42 UL 460V Heaters 6 K 6 Ton Expar MERV11 Fill 300VA 460-	(refrigerant & mponent attactional and operational and operation I Sub-Co ription C) & & Fin Coil V KA SCCR & A SCCR 20KCE-TFD p 460VAC W 460V w 460V msion Valve Iter 600 Volt	e shake table water) during for homent and for parafed within the mponent 257240P1 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257382P2 257521P2 257521P2 257604G14 257261P1	e the test rce-resine manu total EBM Vertiv Vertiv Allen E Socorr Copela Hartell Swep Nortec Vertiv Sporla Koch F	L sting systems w ufacturer operation nufacturer Corporation Bradley nec and I Corporation Bradley filter Corp.	vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha Aluminum sha Aluminum sha Shell is paintee Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrica Brass (body), o Beverage boal	Figure 8 Figure 8 Fig	Mai n Steel & be, Galv. nel arbon stee arbon stee d carbon pper (mot piping cor ( with cop teel sheet .s), nickel ons) & silic ons) & silic ing) and s leated po	terial Copper Mo Tube shee el/plastic b el/plastic b steel or winding: nections). per Braze imetal and plated stee cone rubbe stainless si lypropylend	otor ody and d ody and d ody and d s), plastic el (mtg nu r (insulat teel (inter e blend N	copper cc copper copper	ontact ontact ousir less nals).
The structural inte After the test, the I UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Exce Aumidifier Reheat Assembly Thermal Expansion Valve Air Filter	y Tested Description Description Description EC (460VAC) 6 Row Tube CR035 460V 60 Amp 65H 30 Amp 65H 30 Amp 65H 30 Amp 65H Scroll ZPD1 1/3 HP Pum condensate h B80X42 UL 460V Heaters 6 K 6 Ton Expan MERV11 Fill 300VA 460-	(refrigerant & mponent attactional and operational and operational and operation (in the second seco	e shake tabl water) during t benent and for parafed within th mponent 257240P1 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257382P2 257521P2 257521P2 257604G14 257261P1 196968P2	e the test rce-resine EBM Vertiv Vertiv Allen E Socom Copela Hartell Swep Nortec Vertiv Sporla Koch F Emers	L sting systems w ufacturer operation nufacturer Corporation Bradley nec and I Corporation Bradley filter Corp.	vas maintained. tional limits Aluminum blac Aluminum blac Aluminum sha Aluminum sha Aluminum sha Aluminum sha Shell is painter Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrical Brass (body), Beverage boal & metal mesh	Figure 8 Figure 8 des. Carbon Copper Tu 20 Steel pa ft, plated ca ft, plated ca ft, plated ca d cold rolle motor), cop and brass ( d conpection copper ( pig aminations)	Mat n Steel & be, Galv. nel arbon stea d carbon pper (mot piping col ( with cop teel sheet s), nickel ons) & silic sing) and d leated po	terial Copper Mo Tube shee el/plastic b steel or winding: nnections). per Braze metal and plated stee cone rubbe stainless s lypropylend	otor ody and d ody and d ody and d s), plastic el (mtg nu r (insulat teel (inter e blend N	copper cc copper copper	ontact ontact ousin less nals).
The structural inte After the test, the I UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Exc Humidifier Reheat Assembly Thermal Expansion Valve Air Filter	y Tested Description Description EC (460VAC) 6 Row Tube CR035 460V 60 Amp 65H 30 Amp 65H 30 Amp 65H Scroll ZPD1 1/3 HP Pum condensate b B80X42 UL 460V Heaters 6 K 6 Ton Expan MERV11 Fill 300VA 460- X 24 Volt 60 Receiver 6"	(refrigerant & mponent attactional and operational and operation <b>I Sub-Co</b> <b>ription</b> C) a & Fin Coil V KA SCCR 20KCE-TFD 20KC	e shake table water) during to hement and for parafed within th mponent 257240P1 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257521P2 257521P2 257604G14 257261P1 196968P2 136202P1	e the test rce-resine EBM Vertiv Vertiv Allen E Socom Copela Hartell Swep Nortec Vertiv Sporla Koch F Emers	Listing systems we utfacturer operation nufacturer operation Corporation Bradley nec and I Corporation Bradley nec Corporation Bradley nec Corporation Bradley nec corporation Bradley solution Bradley Solution Solu	vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha Shell is paintee Carbon Steel ( and impeller) a All stainless at Electrical parts Galvanized ste steel (electrica Brass (body), Beverage boai & metal mesh Carbon Steel I	Figure 8 Figure 8 des. Carbon Copper Tu 20 Steel pa ft, plated ca d cold rolle motor), co and brass ( eel 316 HX s, carbon si eel (mtg PL il connectio copper (pip rd frame, p backing aminations shell attach	Mai n Steel & be, Galv. nel arbon stee d carbon pper (mot piping coi ( with cop teel sheet s), nickel s), nick	terial Copper Mo Tube shee el/plastic b steel or winding: nnections). per Braze metal and plated stee cone rubbe stainless s lypropylend	otor ody and d ody and d ody and d s), plastic el (mtg nu r (insulat teel (inter e blend N	copper cc copper copper	ontact ontact ousin less nals).
The structural inte After the test, the I UUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Exc Humidifier Reheat Assembly Thermal Expansion Valve Air Filter Electrical Panel Transforme Refigerant Receiver Heat Rejection Control Valv Actuator	Justician and a second state of the contents grity of the contents grity of the contents of the contents of the contents of the content	(refrigerant & mponent attactional and operational and operati	e shake tabl water) during f ament and for parafed within th mponent 257240P1 197542G1 197542G1 191986G4 30339P3 257223P2 1A19271P2 257521P2 257521P2 257521P2 257604G14 257261P1 196968P2 136202P1 300842P1 257271P1 257371P1	e the test rce-resi to man EBM Vertiv Allen E Socom Copela Hartell Swep Nortec Vertiv Sporla Koch F Emers Weste	Listing systems we utfacturer operation nufacturer operation Corporation Bradley nec and I Corporation Bradley nec Corporation Bradley nec Corporation Bradley nec corporation Bradley solution Bradley Solution Bradley Solution Bradley Solution Bradley Solution Bradley Solution Bradley Solution Bradley Solution Bradley Solution Bradley Solution	vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha Aluminum sha Shell is painter Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized st steel (electrica Brass (body), Beverage boai & metal mesh Carbon Steel I Carbon Steel s	Figure 8 Figure 8 Fig	Mai n Steel & be, Galv. nel arbon stea d carbon pper (mot piping coi ( with cop teel sheet s), nickel nns) & silic ing) and : leated po a and copp ted to unit ic	terial Copper Mo Tube shee el/plastic b steel or winding: nnections). per Braze metal and plated stee cone rubbe stainless s lypropylend	otor ody and d ody and d ody and d s), plastic el (mtg nu r (insulat teel (inter e blend N	copper cc copper copper	ontact ontact ousir less nals).
The structural inte After the test, the I JUT-8B Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Plate Heat Exc Aumidifier Reheat Assembly Thermal Expansion Valve Air Filter Electrical Panel Transforme Refigerant Receiver Heat Rejection Control Valve	Justician and a second state of the contents grity of the contents grity of the contents of the contents of the contents of the content	(refrigerant & mponent attactional and operational and operati	e shake tabl water) during f ament and for parafed within th mponent 257240P1 197542G1 197542G1 191986G4 30339P3 257223P2 1A19271P2 257521P2 257521P2 257521P2 257604G14 257261P1 196968P2 136202P1 300842P1 257271P1 257371P1	e the test rce-resine manual to manual to manu	Listing systems w urfacturer operation nurfacturer operation Corporation Bradley nec and I Corporation Bradley nec and I Corporation Bradley nec and I Source Filter Corp. Soon (Emermex) armeyer ens ens	vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha Aluminum sha Shell is painted Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized st steel (electrica Brass (body), Beverage boal & metal mesh Carbon Steel I Carbon Steel I Carbon Steel st Electrical parts	Figure 8 Figure 8 Fig	Mai n Steel & be, Galv. nel arbon stee arbon stee arbon stee arbon stee arbon stee arbon stee arbon stee arbon stee sarbon stee d carbon piping con ( with cop teel sheet .s), nickel ping) and : leated po and copp ted to unit ic c r	terial Copper Mo Tube shee el/plastic b el/plastic b steel or winding: nnections). per Braze metal and plated stee cone rubbe stainless s lypropylend	otor ody and d ody and d ody and d s), plastic el (mtg nu r (insulat teel (inter e blend N	copper cc copper copper	ontact ontact less nals).





Testing Lab: Testing Report: Testing Unit Num:	Clark Tes JID 2672- 2	R	-							Too		1
Model NumberNominal Capacity (kW)CR035RW1A7SD1971P (CR035RW1A7SD1973P060PA)35		Capacity	Mounting	Excitation Direction		Frequency * (Hz)	Length (in)	Width (in)	Height (in)	Tested Operating Weight (Ibs)		
		Rigid Base Mounted	X Y Z	Front - Back Side - Side Vertical	10.5 4.0 >33.3	46.25	22.63	78.75	9:	38		
Frequencies are for units p Init length, width, height an Aodel Number in parenthes	d operating w	eight within 10	% of those list									_
Attachment Method				-	Seismic Para	meters						
		Carbon steel angles (part # 317810 were installed on each end of the u with eight (8) 1/4"Ø self tapping sc and anchored to the shake table w			rews Building	Test Criteria	S <sub>DS</sub> (g)	z/h	l la via		Mart	la al
	-								Horiz A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	tical A <sub>RIO</sub>
	three (3)-1/	2ºØ Grade 5	bolts per bra	icket.	CBC 2022	AC 156	0.80	1.0	1.28 g	0.96 g	-	
			SY:Mo	ham	nmad Ka	rim	•			10		
The structural inte After the test, the	ull of contents egrity of the co UUT was func	(refrigerant & omponent attac tional and ope	te shake table water) during to the and for prated within th	e the test. rce-resis ne manu	ting systems w	2 vas maintained.	6402	Figure a	8C.2: Mod	unting D	Details	A A A A A A A A A A A A A A A A A A A
The structural inte After the test, the UUT-8C Summar	ull of contents egrity of the co UUT was func <b>y Testec</b>	(refrigerant & omponent attac ctional and ope d Sub-Co	ne shake table water) during t chment and for erated within the proponent	e the test. rce-resis ne manu	sting systems w ufacturer operate	2 vas maintained.	6402			unting D	Details	a second second
The structural inte After the test, the UUT-8C Summar Sub-Component	ull of contents egrity of the co UUT was func ry Testec Desc	(refrigerant & mponent attac ctional and ope <b>I Sub-Co</b> ription	ne shake table water) during to chanent and for erated within the mponent PN	e the test. rce-resis ne manu t/// Mar	ting systems w	2 vas maintained. tional limits	6402	Mat	erial		Details	a second
The structural inte After the test, the JUT-8C Summar Sub-Component Cooling Fan	ull of contents egrity of the co UUT was func Ty Testec Desc EC (460VA6	(refrigerant & imponent attactional and open string to the string string to the string string string to the string	ne shake table water) during t chment and for erated within th mponent PN 257240P1	e the test. rce-resis he manu t/T	sting systems w ufacturer operation	2 vas maintained. tional limits		Mat	t <mark>erial</mark> Copper Mo		Details	and a set of
The structural inte After the test, the JUT-8C Summar Sub-Component Cooling Fan Cooling Coil Assembly	ull of contents egrity of the co UUT was func ry Testec EC (460VAG 6 Row Tube	(refrigerant & imponent attactional and open the state open the state open the state open the state open the state the state open the state open the state the state open the state open the state open the state the state open the st	ne shake table water) during t coment and for erated within th mponent PN 257240P1 197542G1	e the test. rce-resis he manu t <u>Man</u> EBM Vertiv (	sting systems w ufacturer operation nufacturer Corporation	Aluminum blac Aluminum fin,	Copper Tu	Mat n Steel & ( be, Galv.	t <mark>erial</mark> Copper Mo		Details	
The structural inte After the test, the JUT-8C Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	III of contents agrity of the co UUT was func <b>y Testec</b> EC (460VAC 6 Row Tube CR035 460	(refrigerant & mponent attactional and ope d Sub-Co ription C) e & Fin Coil	ne shake tabl water) during t chment and for erated within th mponent PN 257240P1 197542G1 191986G4	e the test. rce-resis he manu t <u>Man</u> EBM Vertiv ( Vertiv (	sting systems w ufacturer operation nufacturer	Aluminum blac Aluminum fin, Galvanized GS	Copper Tu 10 Steel pa	Mat n Steel & 0 be, Galv.	t <mark>erial</mark> Copper Mo Tube shee	otor ts		
The structural inte After the test, the JUT-8C Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1)	III of contents agrity of the co UUT was func- y Testec EC (460VAd 6 Row Tube CR035 460 60 Amp 65	(refrigerant & mponent attactional and ope d Sub-Co ription C) e & Fin Coil V KA SCCR	e shake table water) during t chment and for erated within th mponent 257240P1 197542G1 191986G4 303397P2	e the test. rce-resis he manu t BBM Vertiv 0 Vertiv 0 Allen B	sting systems w ufacturer operation nufacturer Corporation Corporation Bradley	Aluminum blac Aluminum fin, Galvanized GS Aluminum sha	Copper Tu 00 Steel pa ft, plated ca	Mat n Steel & ( be, Galv. <sup>-</sup> nel arbon stee	t <mark>erial</mark> Copper Mo Tube shee	otor ts ody and c	copper co	
The structural inte After the test, the UUT-8C Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1)	III of contents egrity of the co UUT was fund <b>Y Testec</b> EC (460VAd 6 Row Tube CR035 460 60 Amp 65 30 Amp 65	(refrigerant & mponent attactional and ope d Sub-Co ription C) e & Fin Coil V KA SCCR	ne shake tabl water) during t chment and for erated within th mponent PN 257240P1 197542G1 191986G4	e the test. rce-resis he manu t <u>Man</u> EBM Vertiv ( Vertiv (	sting systems w ufacturer operation nufacturer Corporation Corporation Bradley nec	Aluminum blac Aluminum fin, Galvanized GS	Copper Tu 00 Steel pa ft, plated ca ft, plated ca	Mat n Steel & ( be, Galv. nel arbon stee arbon stee	e <b>rial</b> Copper Mc Tube shee	otor ts ody and c	copper co	
The structural inte After the test, the UUT-8C Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Compressor Condensate Pump	III of contents egrity of the co UUT was function Ty Testect EC (460VA4 6 Row Tube CR035 460 60 Amp 65 30 Amp 65 Scroll ZPD1 1/3 HP Pur condensate	(refrigerant & imponent attactional and operational and operational <b>I Sub-Co</b> <b>I Sub-Co</b> <b>C</b> ) & Fin Coil V KA SCCR KA SCCR KA SCCR 20KCE-TFD ap 460VAC	e shake table water) during to homent and for erafed within the mponent 257240P1 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2	e the test. rce-resis he manu t <u>Mar</u> BM Vertiv ( Allen B Socom Copela Hartell	sting systems w ufacturer operation nufacturer Corporation Bradley nec and	Aluminum blace Aluminum blace Aluminum fin, Galvanized GS Aluminum shar Aluminum shar Shell is paintee Carbon Steel ( and impeller) a	Copper Tu 00 Steel pa ft, plated ca ft, plated ca d cold rolle motor), cop and brass (	Mat n Steel & 6 be, Galv. nel arbon stee arbon stee d carbon s opper (moto piping cor	e <b>erial</b> Copper Mc Tube shee el/plastic bo el/plastic bo steel or windings nnections).	otor tts ody and o ody and o s), plastic	copper cc	ontact
The structural inte After the test, the JUT-8C Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Exc	III of contents egrity of the co UUT was function Ty Testect EC (460VA4 6 Row Tube CR035 460 60 Amp 65 30 Amp 65 Scroll ZPD1 1/3 HP Purr condensate h B80X42 UL	(refrigerant & imponent attactional and operational and operational <b>I Sub-Co</b> <b>I Sub-Co</b> <b>C</b> ) & Fin Coil V KA SCCR KA SCCR KA SCCR 20KCE-TFD ap 460VAC	e shake table water) during to hement and for erated within the mponent 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257382P2	e the test. rce-resis he manu t/// BM Vertiv ( Allen B Socom Copela Hartell Swep	sting systems w ufacturer operation nufacturer Corporation Bradley nec and	Aluminum blace Aluminum blace Aluminum blace Aluminum shar Shell is painter Carbon Steel ( and impeller) a All stainless st	Copper Tu 10 Steel pa ft, plated ca ft, plated ca d cold rolle motor), cop and brass ( eel 316 HX	Mat n Steel & ( be, Galv. i nel arbon stee d carbon stee d	Copper Mc Tube shee el/plastic bo el/plastic bo steel or windings nections). per Braze	otor tts ody and d ody and d s), plastic	copper cc	ontact
The structural inte After the test, the UUT-8C Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Exc Humidifier	III of contents egrity of the co UUT was function Ty Testect EC (460VA4 6 Row Tube CR035 460 60 Amp 65 30 Amp 65 Scroll ZPD1 1/3 HP Pur condensate	(refrigerant & imponent attact tional and ope <b>1 Sub-Co</b> ription C) a & Fin Coil V KA SCCR KA SCCR I20KCE-TFD IP 460VAC	e shake table water) during to homent and for erafed within the mponent 257240P1 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2	e the test. the test. the manu t t EBM Vertiv of Allen B Socom Copela Hartell Swep Nortec	sting systems w ufacturer operation nufacturer Corporation Bradley nec and	As maintained. tional limits Aluminum blace Aluminum fin, Galvanized GS Aluminum shar Aluminum shar Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste	Copper Tu 10 Steel pa 11, plated ca 11, plated ca 12 cold rolle 13 cold rolle 14 cold rolle 15 cold rolle 16 do ro	Mat n Steel & 6 be, Galv. nel arbon stee arbon stee d carbon s opper (moto piping cor ć with copp teel sheet s), nickel	erial Copper Mc Tube shee el/plastic bo steel or windings nections). oper Braze metal and plated stee	otor ts ody and d ody and d s), plastic plastic el (mtg nu	copper cc copper cc copper cc copper cc	ontact iousin
The structural inte After the test, the <b>JUT-8C Summar</b> <b>Sub-Component</b> Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Exc Jumidifier Reheat Assembly	III of contents agrity of the co UUT was func- <b>V Testec</b> EC (460VAC 6 Row Tube CR035 460' 60 Amp 65 30 Amp 65 Scroll ZPD1 1/3 HP Pun condensate h B80X42 UL 460V Heaters 6 K	(refrigerant & mponent attactional and ope d Sub-Co ription C) e & Fin Coil V KA SCCR KA SCCR KA SCCR 120KCE-TFD 12 460VAC	DA IB ine shake table water) during t chment and for erated within th <b>mponent</b> <b>PN</b> 257240P1 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257382P2 257521P2 257604G14	e the test. cce-resis me manu EBM Vertiv 0 Vertiv 0 Allen B Socom Copela Hartell Swep Nortec Vertiv 0	sting systems w ufacturer operation Corporation Bradley nec and Corporation	As maintained. tional limits Aluminum blace Aluminum fin, Galvanized GS Aluminum shar Aluminum shar Shell is paintee Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrica	Copper Tu 10 Steel pa 11, plated ca 12, plated ca 14, plated ca 14, cold rolle 16, cold roll rolle 16, cold roll rolle 16, cold rolle 16, cold roll r	Mat n Steel & 6 be, Galv. nel arbon stee arbon stee d carbon s oper (moto piping cor ( with cop teel sheet s), nickel s), nickel nns) & silic	erial Copper Mc Tube shee el/plastic bo steel or windings nections). oper Braze metal and plated stee cone rubbe	otor ts ody and d ody and d s), plastic plastic el (mtg nu r (insulat	copper cc copper copper cop	ontact iousin
The structural inte After the test, the UUT-8C Summar	III of contents egrity of the co UUT was function <b>Testec</b> EC (460VAd 6 Row Tube CR035 460' 60 Amp 65 30 Amp 65 Scroll ZPD1 1/3 HP Purr condensate h B80X42 UL 460V	(refrigerant & imponent attactional and operational and operat	Participation           ne shake table           water) during t           chment and for           perafed within th           mponent           257240P1           197542G1           191986G4           303397P2           30339P3           257223P2           1A19271P2           257521P2	e the test. rce-resis be manu t Vertiv ( Allen B Socom Copela Hartell Swep Nortec Vertiv ( Sporla	sting systems w ufacturer operation nufacturer Corporation Corporation Bradley nec and	As maintained. tional limits Aluminum blace Aluminum fin, Galvanized GS Aluminum shar Aluminum shar Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste	Copper Tu 00 Steel pa 6t, plated ca 1t, plated ca 1 cold rollee motor), cop 1 md brass ( eel 316 HX c, carbon st eel (mtg PL I connectic copper (pip rd frame, p	Mat n Steel & d be, Galv. nel arbon stee d carbon s oper (moto piping cor ( with copp teel sheet s), nickel ons) & silic ing) and s	erial Copper Mo Tube shee el/plastic bo steel or windings one ctions). oer Braze metal and plated stee cone rubbe stainless st	otor ts ody and o ody and o s), plastic plastic el (mtg nu r (insulat teel (inter	copper cc copper copper	less
The structural inte After the test, the UUT-8C Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Exc Humidifier Reheat Assembly	III of contents agrity of the co UUT was function <b>y Testec</b> EC (460VAd 6 Row Tube CR035 460' 60 Amp 65 30 Amp 65 30 Amp 65 Scroll ZPD1 1/3 HP Pur condensate h B80X42 UL 460V Heaters 6 K 6 Ton Expan MERV11 Fii 300VA 460-	(refrigerant & mponent attac ttional and ope a Sint Coil V KA SCCR KA SCCR (20KCE-TFD (20KCE-TFD) (20K	e shake table water) during for homent and for parafed within the mponent 257240P1 197542G1 197542G1 191986G4 30339P3 257223P2 1A19271P2 257382P2 257521P2 257521P2 257604G14 257261P1	e the test. rce-resis be manu t t t t t t t t t t t t t t t t t t t	A sting systems w ufacturer operation nufacturer Corporation Corporation Bradley nec and Corporation Corporation Corporation Corporation	As maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum shar Shell is painter Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrica Brass (body), o Beverage boar	Copper Tu 00 Steel pa ft, plated ca ft, plated ca 1 cold rolle motor), cop and brass ( eel 316 HX c, carbon st eel (mtg PL I connectic copper (pip d frame, p backing	Mat n Steel & 6 be, Galv. arbon stee arbon stee d carbon stee d carbon stee d carbon stee d carbon stee sipper (mote piping cor ( with cop teel sheet s), nickel ons) & silic ing) and s leated pol	erial Copper Mo Tube shee el/plastic bo steel or windings nections). oper Braze metal and plated stee cone rubbe stainless st ypropylene	otor its ody and o ody and ody and o ody and ody and o ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody	copper cc copper copper	less
The structural inte After the test, the UUT-8C Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Exc Humidifier Reheat Assembly Thermal Expansion Valve Air Filter	III of contents agrity of the co UUT was fund <b>y Testec</b> EC (460VAd 6 Row Tube CR035 460' 60 Amp 65 30 Amp 65 Scroll ZPD1 1/3 HP Pur condensate h B80X42 UL 460V Heaters 6 K 6 Ton Expai MERV11 Fii	(refrigerant & mponent attactional and operational <b>Sub-Co</b> ription C) a & Fin Coil V KA SCCR KA SCCR 120KCE-TFD 19 460VAC W 460V Insion Valve Iter -600 Volt ) Hz.	e shake table water) during for himent and for parafed within the mponent 257240P1 197542G1 197542G1 191986G4 30339P3 257223P2 1A19271P2 257382P2 257521P2 257521P2 257604G14 257261P1 196968P2	e the test. rce-resis he manu time EBM Vertiv 0 Allen B Socom Copela Hartell Swep Nortec Vertiv 0 Sporlar Koch F Emerso	Corporation Bradley nec and Corporation	Aluminum blace Aluminum blace Aluminum fin, Galvanized GS Aluminum shar Aluminum shar Shell is paintee Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrical Brass (body), o Beverage boar & metal mesh	Copper Tu 00 Steel pa ft, plated ca ft, plated ca d cold rolle motor), cop end brass ( eel 316 HX , carbon st eel (mtg PL I connectic copper (pip rd frame, p backing	Mat n Steel & d be, Galv. nel arbon stee d carbon stee d carbon stee d carbon stee d carbon stee d carbon stee sipping cor ( with copp tiel sheet s), nickel s), nickel sing) and s leated pol	erial Copper Mo Tube shee el/plastic bo steel or windings mections). per Braze metal and plated stee cone rubbe stainless st ypropylene	otor its ody and o ody and ody and o ody and ody and o ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody	copper cc copper copper	less
The structural inte After the test, the UUT-8C Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Plate Heat Exc Aumidifier Reheat Assembly Thermal Expansion Valve Air Filter Electrical Panel Transforme Refigerant Receiver Heat Rejection Control Valve	III of contents agrity of the co UUT was function <b>Y Testec</b> EC (460VAd 6 Row Tube CR035 460' 60 Amp 65 30 Amp 65 30 Amp 65 Scroll ZPD1 1/3 HP Pur condensate h B80X42 UL 460V Heaters 6 K 6 Ton Expan MERV11 Fil 300VA 460- X 24 Volt 60 Receiver 6" e 3 way globe	(refrigerant & mponent attactional and operational <b>Sub-Co</b> <b>Sub-Co</b> <b>ription</b> C) <b>a</b> & Fin Coil V KA SCCR KA SCCR 120KCE-TFD 1	A shake table water) during to herafed within the mponent and for parafed within the mponent 257240P1 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257382P2 257521P2 257604G14 257261P1 196968P2 136202P1 300842P1 257271P1	e the test. rce-resis be manu to the test. rce-resis to manu EBM Vertiv 0 Vertiv 0 Allen B Socom Copela Hartell Swep Nortec Vertiv 0 Sporlar Koch F Emerse Wester Siemen	Corporation Bradley nec and Corporation Bradley nec and Corporation Bradley nec corporation Bradley Statistic Stat	vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha Aluminum sha Shell is painted Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized st steel (electrica Brass (body), o Beverage boar & metal mesh Carbon Steel I Carbon Steel I Carbon Steel I	Copper Tu 00 Steel pa ft, plated ca ft, plated ca 1 cold rolle motor), cop and brass ( ael 316 HX a, carbon st el (mtg PL I connectio copper (pip d frame, p backing aminations thell attach and plasti	Mat n Steel & d be, Galv. nel arbon stee arbon stee d carbon stee d carbon stee d carbon stee sipper (moto piping cor ( with copp teel sheet s), nickel s), nickel s), nickel silicional silicion ns) & silicion ns) & silicion ns) & silicion sing) and s leated pol and copp ed to unit c	erial Copper Mo Tube shee el/plastic bo steel or windings mections). per Braze metal and plated stee cone rubbe stainless st ypropylene	otor its ody and o ody and ody and o ody and ody and o ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody	copper cc copper copper	less
The structural inte After the test, the UUT-8C Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Exc Humidifier Reheat Assembly Thermal Expansion Valve Nir Filter Electrical Panel Transforme Refigerant Receiver Heat Rejection Control Valve Netwator	III of contents agrity of the co UUT was function <b>Y Testec</b> EC (460VAd 6 Row Tube CR035 460' 60 Amp 65 30 Amp 65 30 Amp 65 Scroll ZPD1 1/3 HP Purr condensate h B80X42 UL 460V Heaters 6 K 6 Ton Expan MERV11 Fii 300VA 460- X 24 Volt 60 Receiver 6" e 3 way globe Actuator 24'	(refrigerant & imponent attactional and operational and operational display="block"/comparison with a second with	e shake table water) during to hement and for parafed within the mponent 257240P1 197542G1 197542G1 191986G4 30339P3 257223P2 1A19271P2 257521P2 257521P2 257521P2 257604G14 257261P1 196968P2 136202P1 300842P1 257271P1 257371P1	e the test. rce-resis te manu termine EBM Vertiv 0 Vertiv 0 Allen B Socom Copela Hartell Swep Nortec Vertiv 0 Sporla Koch F Emerse Wester Siemen	Corporation Corpor	Aluminum blac Aluminum blac Aluminum sha Aluminum sha Aluminum sha Aluminum sha Shell is painted Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrica Brass (body), o Beverage boar & metal mesh Carbon Steel I Carbon Steel I Carbon Steel s Electrical parts Electrical parts	Copper Tu 00 Steel pa ft, plated ca ft, plated ca d cold rolle motor), cop and brass ( eel 316 HX a, carbon st eel (mtg PL I connectio copper (pip d frame, p backing aminations chell attach and plasti and plasti	Mat n Steel & d be, Galv. nel arbon stee arbon stee arbon stee d carbon stee d carbon stee d carbon stee singping cor ( with copp teel sheet s), nickel nns) & silic ing) and s leated pol and copp ed to unit c c	erial Copper Mo Tube shee el/plastic bo steel or windings mections). per Braze metal and plated stee cone rubbe stainless st ypropylene	otor its ody and o ody and ody and o ody and ody and o ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody	copper cc copper copper	less
The structural inte After the test, the JUT-8C Summar Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Plate Heat Exc Rumidifier Reheat Assembly Ihermal Expansion Valve Ar Filter Electrical Panel Transforme Refigerant Receiver Reat Rejection Control Valve	III of contents agrity of the co UUT was function <b>Y Testec</b> EC (460VAd 6 Row Tube CR035 460' 60 Amp 65 30 Amp 65 30 Amp 65 Scroll ZPD1 1/3 HP Purr condensate h B80X42 UL 460V Heaters 6 K 6 Ton Expan MERV11 Fii 300VA 460- X 24 Volt 60 Receiver 6" e 3 way globe Actuator 24'	(refrigerant & imponent attactional and operational and operat	e shake table water) during to hement and for parafed within the mponent 257240P1 197542G1 197542G1 191986G4 30339P3 257223P2 1A19271P2 257521P2 257521P2 257521P2 257604G14 257261P1 196968P2 136202P1 300842P1 257271P1 257371P1	e the test. rce-resis be manu total EBM Vertiv of Allen B Socom Copela Hartell Swep Nortec Vertiv of Sportal Koch F Emerso Vester Siemer Siemer ACME	Corporation Corpor	vas maintained. tional limits Aluminum blac Aluminum sha Aluminum sha Aluminum sha Shell is painted Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized st steel (electrica Brass (body), o Beverage boar & metal mesh Carbon Steel I Carbon Steel I Carbon Steel s Electrical parts	Copper Tu 00 Steel pa ft, plated ca ft, plated ca d cold rolle motor), cop and brass ( eel 316 HX a, carbon st eel (mtg PL I connectic copper (pip d frame, p backing aminations shell attach and plasti and plasti	Mat n Steel & d be, Galv. nel arbon stee d carbon stee d carbon stee d carbon stee d carbon stee singper (moto piping cor ( with copp teel sheet s), nickel nns) & silic ing) and s leated pol and copp red to unit c c	erial Copper Mo Tube shee el/plastic bo steel or windings mections). per Braze metal and plated stee cone rubbe stainless st ypropylene	otor its ody and o ody and ody and o ody and ody and o ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody and ody	copper cc copper copper	ontacionsir iousir iless nals).





UUT-9 Test Sumr	narv										
Testing Lab:	Clark Tes	sting Lab									
Testing Report:	JID 2672										
Testing Unit Num:	3	-11									
resting onit Num.	3										
		Nominal		Excitation	Frequency	Length	Width	Height		sted	
Model Number	r	Capacity	Mounting	Direction	* (Hz)	(in)	(in)	(in)	Oper	rating	
		(kW)		Direction	(112)	(11)	(III)	(111)	Weigl	ht (Ibs)	
CR020RW1C7SD1	971D		Rigid to 12"	X Front - Back	16.3						
(CR020RW1C7SD1874P		20	Floor Stand	Y Side - Side	6.6	46.25	22.63	78.75	8	34	
(CR020RW1C/3D10/4F	000FA)		FIOUI Stanu	Z Vertical	12.0						
* Frequencies are for units p											•
Unit length, width, height and	d operating w	eight within 10	% of those list	ted in Table 1.							
Model Number in parenthesi	s is full mode	el number base	ed on current n	omenclature							
Attachment Method	Holdown b	rackets (part	# 319314G4)	Seismic Para	meters					-	
with Seismic		lled on the fro						Horizo	ontal	Vert	ical
Modifications	with ten (1	0)-1/4"Ø self t	apping screw	s Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	Horizontal		Ven	
	(each brac	ket). The floo	r stand is				2/11	A	•	A <sub>FLX-V</sub>	•
	anchored t	to the shake t	able with two	(2) UDE r				A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	TFLX-V	A <sub>RIG-</sub>
	1/2" Grade	5 bolts per bra	acket (8 total)	CPC 2022	ACAES	2.00	1.0	20~	24~	160 -	0.60
	Cross brac	ce (see UUT-7	B) was instal	CBC 2022	AC 156	2.50	0.0	3.2 g	2.4 g	1.68 g	0.08 (
				<b>10/1</b> 7/202	22	2					
The structural integ	ll of contents grity of the co	omponent attac	water) during t chment and for		Figure 9.2: N was maintained.	0	Details w	ith Modifie	cations		
The structural integ After the test, the L	ll of contents grity of the co JUT was fun	(refrigerant & omponent attac ctional and ope	water) during t chment and for erated within th	the test. rce-resisting systems	Figure 9.2: N was maintained.	0	Details w	ith Modifi	cations		
The structural integ After the test, the L	II of contents grity of the co JUT was fun Tested Desc	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription	water) during t chment and for erated within th	the test. rce-resisting systems	Figure 9.2: N was maintained. tional limits		Mate	erial			
The structural integ After the test, the L UUT-9 Summary Sub-Component Cooling Fan	Il of contents grity of the cc JUT was fun Tested Desc EC (208VA	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription C)	water) during t chment and for prated within th ponent <i>PN</i> 191881P1	the test. rce-resisting systems the manufacturer operation Manufacturer EBM	Figure 9.2: N was maintained. tional limits	les. Carbo	Mat 1 Steel & (	<b>erial</b> Copper Mo	otor		
The structural integ After the test, the L UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly	II of contents grity of the co JUT was fun Tested Desc EC (208VA 4 Row Tubo	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription C) e & Fin Coil	water) during t chment and for prated within th ponent PN 191881P1 197515G1	the test. ree-resisting systems he manufacturer opera Manufacturer EBM Vertiv Corporation	Figure 9.2: N was maintained. ttional limits	les. Carbo	Mato n Steel & ( arbon stee	<b>erial</b> Copper Mo	otor ody and		
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	II of contents grity of the co JUT was fun Tested ( EC (208VA 4 Row Tube CR020 208	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription C) e & Fin Coil	water) during t chment and for erated within th <b>ponent</b> <u>PN</u> 191881P1 197515G1 191986G1	the test. roe-resisting systems he manufacturer opera Manufacturer EBM Vertiv Corporation Vertiv Corporation	Figure 9.2: N was maintained. ttional limits Aluminum blac Aluminum sha Aluminum sha	les. Carboi ft, plated ca ft, plated ca	Mate n Steel & ( arbon stee arbon stee	<b>erial</b> Copper Mo el/plastic b	otor ody and ody and	copper co	ontacts
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect	I of contents grity of the cc JUT was fun- Tested EC (208VA 4 Row Tubi CR020 208 60 Amp 65	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription C) e & Fin Coil V KA SCCR	water) during t chment and for erated within th <b>ponent</b> <u>PN</u> 191881P1 197515G1 191986G1 303397P2	the test. rce-resisting systems he manufacturer opera Manufacturer EBM Vertiv Corporation Vertiv Corporation Allen Bradley	Figure 9.2: M was maintained. tional limits	les. Carbor ft, plated ca ft, plated ca ft, plated ca	Mat n Steel & ( arbon stee arbon stee arbon stee	erial Copper Mo el/plastic be el/plastic be	otor ody and ody and ody and	copper co	ontacts ontacts
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect	I of contents grity of the cc JUT was fun- Tested EC (208VA 4 Row Tub- CR020 208 60 Amp 65 100 Amp 6	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription C) e & Fin Coil V KA SCCR 55KA SCCR	water) during t chment and for erated within th <b>ponent</b> 191881P1 197515G1 191986G1 303397P2 303399P3	the test. rce-resisting systems he manufacturer opera Manufacturer EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec	Figure 9.2: M was maintained. ational limits	les. Carbor ft, plated ca ft, plated ca ft, plated ca ft, plated ca	Mat The Steel & ( arbon steel arbon steel arbon steel arbon steel arbon steel	erial Copper Mo el/plastic be el/plastic be el/plastic be el/plastic be	otor ody and ody and ody and	copper co	ontacts ontacts
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect	I of contents grity of the cc JUT was fun- Tested EC (208VA 4 Row Tub- CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription C) e & Fin Coil W KA SCCR 55KA SCCR 72KCE-TF5	water) during t chment and for erated within th <b>ponent</b> <u>PN</u> 191881P1 197515G1 191986G1 303397P2	the test. rce-resisting systems he manufacturer opera Manufacturer EBM Vertiv Corporation Vertiv Corporation Allen Bradley	Figure 9.2: No was maintained. tional limits	les. Carbor ft, plated ca ft, plated ca ft, plated ca ft, plated ca d cold rolle	Mate The Steel & ( arbon stee arbon stee arbon stee arbon stee d carbon stee	erial Copper Mo I/plastic bo I/plastic bo I/plastic bo I/plastic bo steel	otor ody and ody and ody and ody and	copper co copper co copper co	ontacts ontacts ontacts
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor	I of contents grity of the cc JUT was fun Tested EC (208VA 4 Row Tubi CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD 1/3 HP Pun	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription C) e & Fin Coil W KA SCCR 55KA SCCR 72KCE-TF5 np	water) during t chment and for erated within th <b>ponent</b> 191881P1 197515G1 191986G1 303397P2 303399P3	the test. rce-resisting systems he manufacturer opera Manufacturer EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec	Figure 9.2: N was maintained. tional limits Aluminum blac Aluminum sha Aluminum sha Aluminum sha Shell is paintee Carbon Steel (	les. Carbor ft, plated ca ft, plated ca ft, plated ca ft, plated ca ft, plated co d cold rolle motor), co	Mate arbon stee arbon stee	erial Copper Mo el/plastic be el/plastic be el/plastic be el/plastic be steel or windings	otor ody and ody and ody and ody and s), plastic	copper co copper co copper co	ontacts ontacts ontacts
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump	I of contents grity of the cc JUT was fun Tested EC (208VA 4 Row Tubi CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD 1/3 HP Pun condensate	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription C) e & Fin Coil C) e & Fin Coil SKA SCCR 55KA SCCR 72KCE-TF5 np 208VAC	water) during t chment and for perated within th <b>ponent</b> 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1	the test. rce-resisting systems he manufacturer opera Manufacturer EBM Vertiv Corporation Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell	Figure 9.2: N was maintained. tional limits Aluminum blac Aluminum sha Aluminum sha Aluminum sha Aluminum sha Shell is paintee Carbon Steel ( and impeller) a	les. Carbor ft, plated ca ft, plated ca ft, plated ca ft, plated ca d cold rolle motor), cop and brass (	Mate arbon stee arbon stee arbon stee arbon stee d carbon	erial Copper Model/plastic be el/plastic be el/plastic be el/plastic be el/plastic be el/plastic be steel provindinges anections).	otor ody and ody and ody and ody and s), plastic	copper co copper co copper co	ontacts ontacts ontacts
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exch	I of contents grity of the cc JUT was fun Tested EC (208VA 4 Row Tubi CR020 208 60 Amp 65 100 Amp 65 100 Amp 6 Scroll ZPD 1/3 HP Pun condensate B80X26 UL	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription C) e & Fin Coil C) e & Fin Coil SKA SCCR 55KA SCCR 72KCE-TF5 np 208VAC	water) during t chment and for rerated within th <b>ponent</b> 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2	the test. rce-resisting systems he manufacturer opera BBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep	Figure 9.2: N was maintained. tional limits Aluminum blac Aluminum sha Aluminum sha Aluminum sha Aluminum sha Shell is paintee Carbon Steel ( and impeller) a All stainless st	les. Carbor ft, plated ca ft, plated ca ft, plated ca ft, plated ca ft, plated co ft, plated ca ft,	Mate arbon stee arbon stee arbon stee arbon stee d carbon	erial Copper Model/plastic be el/plastic be el/plastic be el/plastic be el/plastic be steel for windings anections).	otor ody and ody and ody and ody and s), plastic	copper co copper co copper co	ontacts ontacts ontacts
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exch Humidifier	I of contents grity of the cc JUT was fun- Tested EC (208VA 4 Row Tub- CR020 208 60 Amp 65 100 Amp 65 100 Amp 65 Scroll ZPD- 1/3 HP Pun condensate B80X26 UL 208V	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription C) e & Fin Coil V KA SCCR 55KA SCCR 72KCE-TF5 np e 208VAC	water) during t chment and for erated within th <b>PN</b> 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3	the test. ce-resisting systems he manufacturer operation Manufacturer EBM Vertiv Corporation Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep Nortec	Figure 9.2: N was maintained. tional limits Aluminum blac Aluminum sha Aluminum sha Aluminum sha Aluminum sha Shell is paintee Carbon Steel ( and impeller) a	les. Carbon ft, plated ca ft, plated ca ft, plated ca ft, plated ca d cold rolle motor), co and brass ( eel 316 HX a, carbon si	Mate Mate arbon stee arbon	erial Copper Model/plastic be el/plastic be el/plastic be el/plastic be steel pr windings nections). per Braze metal and	otor ody and ody and ody and ody and s), plastic	copper co copper co copper co copper co c (pump h	ontacts ontacts ontacts nousing
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exch Humidifier	I of contents grity of the cc JUT was fun Tested EC (208VA 4 Row Tubi CR020 208 60 Amp 65 100 Amp 65 100 Amp 6 Scroll ZPD 1/3 HP Pun condensate B80X26 UL	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription C) e & Fin Coil V KA SCCR 55KA SCCR 72KCE-TF5 np e 208VAC	water) during t chment and for perated within th ponent 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2	the test. rce-resisting systems he manufacturer opera BBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep	Figure 9.2: N was maintained. ttional limits Aluminum blac Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Carbon Steel Carbon Stee	les. Carboo ft, plated ca ft, plated ca ft, plated ca ft, plated ca d cold rolle motor), co motor), co and brass ( eel 316 HX a, carbon si eel (mtg PL I connectic	Mate arbon stee arbon stee arbon stee arbon stee arbon stee arbon stee arbon stee arbon stee arbon stee arbon stee boper (moto piping corr with copp teel sheets s), nickel ins) & silic	erial Copper Mc el/plastic be el/plastic be el/plastic be steel or windings nections). oper Braze metal and plated stee cone rubbe	otor ody and ody and ody and ody and s), plastic plastic el (mtg n er (insula	copper co copper co copper co c (pump f uts), stair ting termi	ontacts ontacts ontacts nousing
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exch Humidifier Reheat Assembly	II of contents grity of the cc JUT was fun Tested ( EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 P	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription C) e & Fin Coil V KA SCCR 55KA SCCR 72KCE-TF5 np e 208VAC	water) during t chment and for erated within th <b>PN</b> 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3	the test. ce-resisting systems he manufacturer operation Manufacturer EBM Vertiv Corporation Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep Nortec	Figure 9.2: N was maintained. ttional limits Aluminum blac Aluminum sha Aluminum sha Basa (bel) (be	les. Carboo ft, plated ca ft, plated ca ft, plated ca ft, plated ca d cold rolle motor), co motor), co motor), co and brass ( eel 316 HX c, carbon si eel (mtg PL I connectic copper (pig	Mate 1 Steel & ( arbon stee arbon stee arbon stee d carbon st carbon stee d carbon s oper (moto piping corr with copp teel sheett s), nickel ins) & silic ing) and s	erial Copper Mc el/plastic be el/plastic be el/plastic be steel or windings nections). Der Braze metal and plated stee cone rubbe stainless st	otor ody and ody and ody and ody and s), plastic s), plastic el (mtg n er (insula teel (inte	copper co copper co copper co c (pump f uts), stair ting termi rnals).	ontacts ontacts ontacts nousing nousing neuss nals).
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exch Humidifier Reheat Assembly Thermal Expansion Valve	II of contents grity of the cc JUT was fun Tested ( EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 P	(refrigerant & omponent attac ctional and ope <b>Sub-Com</b> cription C) e & Fin Coil W KA SCCR 5KA SCCR 72KCE-TF5 np e 208VAC C C C C C C C C C C C C C C C C C C	water) during t chment and for erated within th <b>PN</b> 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257604G13	the test. Tree-resisting systems the manufacturer operation Manufacturer EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation	Figure 9.2: N was maintained. tional limits Aluminum blac Aluminum sha Aluminum sha Shell is paintei Galvanized ste steel (electrical Brass (body), o Beverage boa	les. Carboo ft, plated ca ft, plated ca ft, plated ca ft, plated ca d cold rolle motor), co eel 316 HX carbon si eel (mtg PL I connectic copper (pip rd frame, p	Mate 1 Steel & ( arbon stee arbon stee arbon stee d carbon st carbon stee d carbon s oper (moto piping corr with copp teel sheett s), nickel ins) & silic ing) and s	erial Copper Mc el/plastic be el/plastic be el/plastic be steel or windings nections). Der Braze metal and plated stee cone rubbe stainless st	otor ody and ody and ody and ody and s), plastic s), plastic el (mtg n er (insula teel (inte	copper co copper co copper co c (pump f uts), stair ting termi rnals).	ontacts ontacts ontacts nousing nousing neuss nals).
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exch Humidifier Reheat Assembly Thermal Expansion Valve	I of contents grity of the cc JUT was fun- Tested 5 Desc EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 65 100 Amp 65 100 Amp 65 100 Amp 65 100 Amp 65 100 Amp 65 103 Amp 65 103 Amp 65 103 Amp 65 104 Amp 65 104 Amp 65 105 Amp 65 1	(refrigerant & omponent attac ctional and ope Sub-Com cription C) e & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 np e 208VAC C C C) C C C C C C C C C C C C C C C	water) during t chment and for erated within th <b>PN</b> 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 257261P2	the test. rce-resisting systems he manufacturer operation manufacturer operation Vertiv Corporation Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation Sporlan Valve	Figure 9.2: N was maintained. ttional limits Aluminum blac Aluminum sha Aluminum sha Basa (bel) (be	les. Carboo ft, plated ca ft, plated ca ft, plated ca ft, plated ca d cold rolle motor), co eel 316 HX carbon si eel (mtg PL I connectic copper (pip rd frame, p	Mate 1 Steel & ( arbon stee arbon stee arbon stee d carbon st carbon stee d carbon s oper (moto piping corr with copp teel sheett s), nickel ins) & silic ing) and s	erial Copper Mc el/plastic be el/plastic be el/plastic be steel or windings nections). Der Braze metal and plated stee cone rubbe stainless st	otor ody and ody and ody and ody and s), plastic s), plastic el (mtg n er (insula teel (inte	copper co copper co copper co c (pump f uts), stair ting termi rnals).	ontacts ontacts ontacts nousing nousing neuss nals).
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exch Humidifier Reheat Assembly Thermal Expansion Valve Air Filter	I of contents grity of the cc JUT was fun- Tested 5 Desc EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD: 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 P 6 Ton Expa MERV8 Filt 300VA 460	(refrigerant & omponent attac ctional and ope Sub-Com cription C) e & Fin Coil V KA SCCR 5KA SCCR 72KCE-TF5 np e 208VAC cw 208V cw 208V cw 208V cmsion Valve ter -600 Volt	water) during t chment and for erated within th <b>PN</b> 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 257261P2	the test. rce-resisting systems he manufacturer operation manufacturer operation Vertiv Corporation Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation Sporlan Valve	Figure 9.2: N was maintained. tional limits Aluminum blac Aluminum sha Aluminum sha Shell is paintei Galvanized ste steel (electrical Brass (body), o Beverage boa	les. Carbon ft, plated ca ft, plated ca ft, plated ca d cold rolle motor), co and brass ( eel 316 HX c, carbon si cel (mtg PL l connectio copper (pip rd frame, p icking	Mate a Steel & G arbon steed arbon steed	erial Copper Mo El/plastic bo El/plastic bo El/plastic bo el/plastic bo steel or windings nections). Der Braze metal and plated stee cone rubbe stainless st ypropylene	otor ody and ody and ody and ody and s), plastic el (mtg n el (mtg n er (insula teel (inte e blend N	copper co copper co copper co c (pump f uts), stair ting termi rnals).	ontacts ontacts ontacts nousing nousing neuss nals).
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Condensate Pump Condensate Plate Heat Exch Humidifier Reheat Assembly Thermal Expansion Valve Air Filter Electrical Panel Transformer	I of contents grity of the cc JUT was fun- Tested 5 Desc EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 65 100 Amp 65 100 Amp 65 Scroll ZPD7 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 H 6 Ton Expa MERV8 Filt 300VA 460 X 24 Volt 60	(refrigerant & omponent attac ctional and ope Sub-Com cription C) e & Fin Coil W KA SCCR 5KA SCCR 72KCE-TF5 np e 208VAC 	water) during t chment and for parated within th <b>PN</b> 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 257261P2 196968P1 136202P1	the test. ce-resisting systems the manufacturer operation Manufacturer operation EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation Sporlan Valve Koch Filter Corp. Emerson (Emermex)	Figure 9.2: N was maintained. tional limits Aluminum blac Aluminum sha Aluminum sha Shell is paintee Carbon Steel (electrica Brass (body), Beverage boai metal mesh ba Carbon Steel I	les. Carboo ft, plated ca ft, plated ca ft, plated ca ft, plated ca d cold rolle motor), cop and brass ( d cold rolle motor), cop and brass ( d cold rolle motor), cop and brass ( d connection copper (pig rd frame, p locking aminations	Mate a Steel & C arbon steed arbon steed arbon steed arbon steed arbon steed arbon steed arbon steed c arbon s c with copp ic with copp ic with copp in s) & silic ing) and s leated pol and copp	erial Copper Mo el/plastic bo el/plastic bo el/plastic bo steel or windings onections). Der Braze metal and plated stee cone rubbe stainless st ypropylene	otor ody and ody and ody and ody and s), plastic el (mtg n el (mtg n er (insula teel (inte e blend N	copper co copper co copper co c (pump f uts), stair ting termi rnals).	ontacts ontacts ontacts nousing nousing neuss nals).
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exch Humidifier Reheat Assembly Thermal Expansion Valve Air Filter Electrical Panel Transformer Refigerant Receiver	I of contents grity of the cc JUT was fun- Tested EC (208VA 4 Row Tube CR020 208 60 Amp 65 100 Amp 6 Scroll ZPD: 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 H 6 Ton Expa MERV8 Filt 300VA 460 X 24 Volt 60 Receiver 6	(refrigerant & omponent attac ctional and ope Sub-Com cription C) e & Fin Coil W KA SCCR 5KA SCCR 72KCE-TF5 np e 208VAC 	water) during t chment and for parated within th <b>PN</b> 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 257261P2 196968P1 136202P1 300842P1	the test. ce-resisting systems he manufacturer operation Manufacturer operation EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation Sporlan Valve Koch Filter Corp. Emerson (Emermex) Westermeyer	Figure 9.2: N was maintained. tional limits Aluminum blac Aluminum sha Aluminum sha Shell is paintee Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized st steel (electrica Brass (body), Beverage boai metal mesh ba Carbon Steel I Carbon Steel s	les. Carboo ft, plated ca ft, plated ca ft, plated ca ft, plated ca d cold rolle motor), co and brass ( eel 316 HX carbon si eel (mtg PL I connectic copper (pip cd frame, p acking aminations shell attach	Mat n Steel & c arbon stee arbon stee arbon steed arbon steed d carbon s oper (moto piping cor ( with copp teel sheets s), nickel ing) and s leated pol and copp ed to unit	erial Copper Mo el/plastic bo el/plastic bo el/plastic bo steel or windings onections). Der Braze metal and plated stee cone rubbe stainless st ypropylene	otor ody and ody and ody and ody and s), plastic el (mtg n el (mtg n er (insula teel (inte e blend N	copper co copper co copper co c (pump f uts), stair ting termi rnals).	ontacts ontacts ontacts nousing nousing neuss nals).
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Plate Heat Exch Humidifier Reheat Assembly Thermal Expansion Valve Air Filter Electrical Panel Transformer Refigerant Receiver Heat Rejection Control Valve	I of contents grity of the cc JUT was fun- Tested J EC (208VA 4 Row Tubi CR020 208 60 Amp 65 100 Amp 65 100 Amp 65 100 Amp 65 Scroll ZPD 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 H 6 Ton Expa MERV8 Filt 300VA 460 X 24 Volt 6 Receiver 6' 3 way globa	(refrigerant & omponent attac ctional and ope Sub-Com cription C) e & Fin Coil V KA SCCR 55KA SCCR 72KCE-TF5 np e 208VAC 	water) during 1 chment and for erated within th <b>PN</b> 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 257261P2 196968P1 136202P1 300842P1 257271P1	the test. ce-resisting systems ie manufacturer opera- Manufacturer opera- EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation Sporlan Valve Koch Filter Corp. Emerson (Emermex) Westermeyer Siemens	Figure 9.2: N was maintained. tional limits Aluminum blac Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Shell is paintee Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized st steel (electrica Brass (body), o Beverage boai metal mesh ba Carbon Steel I Carbon Steel I Carbon Steel s	les. Carboo ft, plated ca ft, plated ca ft, plated ca ft, plated ca d cold rolle motor), co and brass ( eel 316 HX carbon si eel (mtg PL I connectic copper (pip rd frame, p cking aminations shell attach	Mat n Steel & ( arbon stee arbon stee arbon steed arbon steed arbon steed arbon steed arbon steed arbon steed arbon steed ( with copp teel sheetr s), nickel ing) and s leated pol and copp ed to unit c	erial Copper Mo el/plastic bo el/plastic bo el/plastic bo steel or windings onections). Der Braze metal and plated stee cone rubbe stainless st ypropylene	otor ody and ody and ody and ody and s), plastic el (mtg n el (mtg n er (insula teel (inte e blend N	copper co copper co copper co c (pump f uts), stair ting termi rnals).	ontacts ontacts ontacts nousing nousing neuss nals).
The structural integ After the test, the U UUT-9 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect Disconnect Compressor Condensate Pump Condensate Plate Heat Exch Humidifier Reheat Assembly Thermal Expansion Valve Air Filter Electrical Panel Transformer Refigerant Receiver	I of contents grity of the cc JUT was fun- Tested J EC (208VA 4 Row Tubi CR020 208 60 Amp 65 100 Amp 65 100 Amp 65 100 Amp 65 Scroll ZPD- 1/3 HP Pun condensate B80X26 UL 208V Heaters 6 H 6 Ton Expa MERV8 Filt 300VA 460 X 24 Volt 6i Receiver 6' 3 way globa Actuator 24	(refrigerant & omponent attac ctional and ope Sub-Com cription C) e & Fin Coil V KA SCCR 55KA SCCR 72KCE-TF5 np e 208VAC 	water) during t chment and for parated within th <b>PN</b> 191881P1 197515G1 191986G1 303397P2 303399P3 257220P1 1A19271P1 257382P2 257521P3 257604G13 257261P2 196968P1 136202P1 300842P1 257271P1 257371P1	the test. ce-resisting systems he manufacturer operation Manufacturer operation EBM Vertiv Corporation Vertiv Corporation Allen Bradley Socomec Copeland Hartell Swep Nortec Vertiv Corporation Sporlan Valve Koch Filter Corp. Emerson (Emermex) Westermeyer	Figure 9.2: N was maintained. tional limits Aluminum blac Aluminum sha Aluminum sha Shell is paintee Carbon Steel ( davanized sta steel (electrica Brass (body), Beverage boai metal mesh ba Carbon Steel I Carbon Steel s	les. Carbon ft, plated ca ft, plated ca ft, plated ca ft, plated ca d cold rolle motor), co and brass ( eel cond rolle cold rolle motor), co and brass ( eel (mtg PL I connectic copper (pig rd frame, p aminations shell attach a and plasti	Mat n Steel & d arbon stee arbon stee arbon steed arbon steed arbon steed arbon steed arbon steed biping cor ( with copp teel sheets s), nickel ns) & silic ing) and s leated pol and copp ed to unit c c	erial Copper Mo el/plastic bo el/plastic bo el/plastic bo steel or windings onections). Der Braze metal and plated stee cone rubbe stainless st ypropylene	otor ody and ody and ody and ody and s), plastic el (mtg n el (mtg n er (insula teel (inte e blend N	copper co copper co copper co c (pump f uts), stair ting termi rnals).	ontacts ontacts ontacts nousing neusing





Festing Lab: Festing Report: Festing Unit Num:	Clark Tes JID 2672- 4	R	- -						1	Tee	tod	1
Model Numbe	r	Nominal Capacity (kW)	Mounting		citation rection	Frequency * (Hz)	Length (in)	Width (in)	Height (in)	Tes Oper Weigh	ating	
CR035RW1A7SD1971P (CR035RW1A7SD1974P060PA)		35	Rigid to 24" Floor Stand	Y S	ront - Back Bide - Side Vertical	15.0 5.4 >33.3	46.25	22.63	78.75	93	38	
Frequencies are for units p Jnit length, width, height and			•	ad in Tabl	la 1							
Model Number in parenthesi	1 0	0										
Attachment Method		ackets (part #			ismic Para	meters						
vith Seismic		ed on the fror	/					Horiz	ontol	Vor	tical	
lodifications	with ten (10	)) 1/4"Ø self ta	apping screw	s Building	Test	(m)	z/h	HUNZ	ontai	ven	licai	
	(each brack		Code	Criteria	S <sub>DS</sub> (g)	2/11	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	Anio		
		o the shake ta		(2)	UE C				· +LA-H	· -RIG-H	- +LX-V	
		boltsper brac e (see UUT-8		C C	CBC 2022	AC 156	2.00 2.50	1.0 0.0	3.20g	2.40 g	1.68 g	0.68
			2V Ma			rim			PD			
Notes: The UUTs were fu The structural inte After the test, the U	Il of contents grity of the co JUT was func	mponent attac tional and ope	e shake table water) during t ment and for rrated within th	he test. ce-resistin e manufa	•	2 Figure 10.2: vas maintained.	Mounting	Details	with Modif	fications		
The structural inte After the test, the U UUT-10 Summary	II of contents grity of the co JUT was func / <b>Tested</b>	(refrigerant & mponent attac ctional and ope <b>Sub-Cor</b>	e shake table water) during t ament and for erated within th mponent	he test. ce-resistin e manufar	17/202 ng systems w ccturer operat	2 Figure 10.2: vas maintained.	Mounting			fications		
The structural inte After the test, the I UUT-10 Summary Sub-Component	II of contents grity of the co JUT was func / Tested Desc	(refrigerant & or mponent attac tional and ope Sub-Cor ription	e shake table water) during t ament and for grated within the mponent PN	he fest. ce-resistin e manufar	17/202	2 Figure 10.2: As maintained.		Mat	erial			
The structural inter After the test, the U JUT-10 Summary Sub-Component Cooling Fan	II of contents grity of the co JUT was func / Tested Desc EC (460VAC	(refrigerant & mponent attac tional and ope Sub-Cor ription C)	e shake table water) during t ament and for grated within th mponent PN 257240P1	he fest. ce-resistin e manufar Manu EBM	ng systems w cturer operat	Figure 10.2: Aluminum blace	les. Carbo	Mat n Steel & 0	<b>terial</b> Copper Mc	btor		
The structural inter After the test, the U JUT-10 Summary Sub-Component Cooling Fan Cooling Coil Assembly	Il of contents grity of the co JUT was func / Tested Desc EC (460VA0 6 Row Tube	(refrigerant & mponent attac tional and ope Sub-Cor ription C) & & Fin Coil	e shake table water) during t ament and for rrated within th mponent PN 257240P1 197542G1	he fest. ce-resistin e manufa <u>Manu</u> EBM Vertiv Co	and a systems w and systems w and systems w and a systems w a system a sys	Figure 10.2: As maintained. Aluminum blace Aluminum blace	les. Carbo Copper Tu	Mat n Steel & 0 be, Galv.	<b>terial</b> Copper Mc	btor		
The structural inter After the test, the U JUT-10 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly	II of contents grity of the co JUT was func / Tested Desc EC (460VAC	(refrigerant & v mponent attac ttional and ope Sub-Cor ription C) & & Fin Coil	e shake table water) during t ament and for grated within th mponent PN 257240P1	he fest. ce-resistin e manufa <u>Manu</u> EBM Vertiv Co	a systems w not urer operation opporation proporation	Figure 10.2: Aluminum blace	les. Carbo Copper Tu 30 Steel pa	Mat n Steel & 0 be, Galv. nel	e <b>rial</b> Copper Mo Tube shee	otor ts		ontact
The structural inte After the test, the U UUT-10 Summary	I of contents grity of the co JUT was func / Tested Desc EC (460VAC 6 Row Tube CR035 460	(refrigerant & v mponent attac ttional and ope <b>Sub-Cor</b> ription C) & & Fin Coil V KA SCCR	e shake table water) during t ament and for erated within th mponent PN 257240P1 197542G1 191986G4	he test. ce-resistir e manufa <u>Manu</u> EBM Vertiv Co Vertiv Co	and systems w toturer operation orporation orporation adley	Figure 10.2: vas maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS	les. Carbon Copper Tu 90 Steel pa ft, plated ca	Mat n Steel & ( be, Galv. nel arbon stee	e <b>rial</b> Copper Mo Tube shee	otor ets ody and c	copper co	
The structural inter After the test, the UUT-10 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1)	II of contents grity of the co JUT was funct <b>/ Tested</b> EC (460VAC 6 Row Tubes CR035 460' 60 Amp 651 30 Amp 651 Scroll ZPD1	(refrigerant & v mponent attac tional and ope Sub-Cor ription C) & Fin Coil V KA SCCR XA SCCR 20KCE-TFD	e shake table water) during t ament and for prated within th mponent PN 257240P1 197542G1 191986G4 303397P2	he test. cc-resistir e manufa	and systems w recturer operation opporation opporation adley	Figure 10.2: ras maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha Aluminum sha Shell is paintee	les. Carbo Copper Tu 30 Steel pa ft, plated c ft, plated c d cold rolle	Mat n Steel & ( be, Galv. nel arbon stee arbon stee d carbon s	e <b>rial</b> Copper Mc Tube shee el/plastic bo el/plastic bo steel	otor ts ody and c	copper cc	ontact
The structural inte After the test, the UUUT-10 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1)	II of contents grity of the co JUT was funct <b>/ Tested</b> <b>Desc</b> EC (460VAC 6 Row Tube CR035 460' 60 Amp 651 30 Amp 651 Scroll ZPD1 1/3 HP Pum	(refrigerant & v mponent attac ttional and ope Sub-Cor ription C) & & Fin Coil V KA SCCR KA SCCR	e shake table water) during ti hment and for rrated within th mponent 257240P1 197542G1 191986G4 30339P2 303399P3	he test. cce-resistir e manufa	and systems w recturer operation opporation opporation adley	Figure 10.2: ras maintained. tional limits Aluminum blac Aluminum blac Aluminum shar Aluminum shar Shell is paintee Carbon Steel (	les. Carbon Copper Tu 30 Steel pa ft, plated cc ft, plated cc d cold rolle motor), co	Mat n Steel & ¢ be, Galv. nel arbon stee arbon stee d carbon s	e <b>erial</b> Copper Mo Tube shee el/plastic bo el/plastic bo steel or windings	otor ts ody and c	copper cc	ontact
The structural inte After the test, the UUUT-10 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor	II of contents grity of the co JUT was funct <b>/ Tested</b> <b>Desc</b> EC (460VAC 6 Row Tube CR035 4600 60 Amp 651 30 Amp 651 Scroll ZPD1 1/3 HP Pum 460VAC	(refrigerant & v mponent attac tional and ope Sub-Cor ription C) & Fin Coil V KA SCCR XA SCCR 20KCE-TFD	e shake table water) during t hment and for arated within th <b>mponent</b> 257240P1 191986G4 303397P2 303399P3 257223P2 1A19271P2	he test. ce-resistin e manufar United test BBM Vertiv Co Vertiv Co Vertiv Co Vertiv Co Allen Bra Socomec Copelano Hartell	and systems w recturer operation opporation opporation adley	Figure 10.2: ras maintained. tional limits Aluminum blac Aluminum blac Aluminum sha Aluminum sha Shell is painteel Carbon Steel ( and impeller) a	les. Carbon Copper Tu Jo Steel pa ft, plated cc ft, plated cc d cold rolle motor), co and brass (	Mat n Steel & 6 be, Galv. nel arbon stee arbon stee d carbon st d carbon st pper (mot	e <b>rial</b> Copper Mo Tube shee el/plastic bo el/plastic bo steel or windings nnections).	otor ts ody and c	copper cc	ontact
The structural inter After the test, the U JUT-10 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor	II of contents grity of the co JUT was funct <b>/ Tested</b> <b>Desc</b> EC (460VAC 6 Row Tube CR035 4600 60 Amp 651 30 Amp 651 Scroll ZPD1 1/3 HP Pum 460VAC	(refrigerant & v mponent attac tional and ope Sub-Cor ription C) & Fin Coil V KA SCCR XA SCCR 20KCE-TFD	e shake table water) during t hment and for rated within th <b>mponent</b> 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257382P2	he fest. ce-resistin e manufar UII C Manu EBM Vertiv Cc Vertiv Cc Allen Bra Socorec Copeland	and systems w recturer operation opporation opporation adley	Figure 10.2: ras maintained. tional limits Aluminum blac Aluminum blac Aluminum shar Aluminum shar Shell is paintee Carbon Steel (	les. Carbo Copper Tu 00 Steel pa ft, plated cr ft, plated cr d cold rolle motor), co and brass ( eel 316 HX	Mat n Steel & 6 be, Galv. nel arbon stee arbon stee d carbon st poper (moto piping coro ( with cop)	e <b>rial</b> Copper Mo Tube shee el/plastic bo el/plastic bo steel or windings nections). per Braze	otor ts ody and c ody and c s), plastic	copper cc	ontact
The structural inter After the test, the U JUT-10 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Excel Jumidifier	II of contents grity of the co JUT was funct <b>/ Tested</b> EC (460VAC 6 Row Tube CR035 4600 60 Amp 651 30 Amp 651 Scroll ZPD1 1/3 HP Pum 460VAC B80X42 UL	(refrigerant & v mponent attac ttional and ope Sub-Cor ription C) & & Fin Coil V KA SCCR XA SCCR 20KCE-TFD p condensate	e shake table water) during t hment and for arated within th <b>mponent</b> 257240P1 191986G4 303397P2 303399P3 257223P2 1A19271P2	he test. cce-resistir e manufa	and systems w recturer operation opporation opporation adley	Figure 10.2: As maintained. tional limits Aluminum blac Aluminum blac Aluminum sha Shell is painter Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste	les. Carbo Copper Tu 00 Steel pa ft, plated c d cold rolle motor), co motor), co and brass ( eel 316 HX s, carbon s eel (mtg PL	Mat n Steel & d be, Galv. i nel arbon stee arbon stee d carbon s poper (moto piping cor ( with copp teel sheet s), nickel	erial Copper Mc Tube shee el/plastic bo steel or windings nections). per Braze metal and plated stee	otor tts ody and c ody and c s), plastic plastic el (mtg nu	copper cc copper cc (pump h	nousir
The structural inter After the test, the U JUT-10 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Excel Jumidifier	II of contents grity of the co JUT was funct <b>Tested</b> <b>Desc</b> EC (460VAC 6 Row Tube CR035 460° 60 Amp 651 30 Amp 651 30 Amp 651 Scroll ZPD1 1/3 HP Pum 460VAC B80X42 UL 460V Heaters 6 K	(refrigerant & v mponent attac ttional and ope Sub-Cor ription C) & Fin Coil V KA SCCR 20KCE-TFD p condensate W 460V	e shake table water) during t ment and for rated within th <b>PN</b> 257240P1 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257382P2 257521P2 257504G14	he test. cc-resistin e manufar EBM Vertiv Cc Vertiv Cc Allen Bra Socopelanc Hartell Swep Nortec Vertiv Cc	and a systems w recturer operation orporation adley c d	Figure 10.2: As maintained. tional limits Aluminum blac Aluminum blac Aluminum sha Shell is painted Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized stee steel (electrical	les. Carbo Copper Tu 20 Steel pa ft, plated c d cold rolle motor), co and brass ( eel 316 HX c, carbon s eel (mtg PL I connectic	Mat n Steel & d be, Galv. nel arbon stee arbon stee arbon stee d carbon s poper (mote piping cor ( with cop) teel sheet s), nickel s), nickel ons) & silic	erial Copper Mc Tube shee el/plastic bo steel or windings nections). per Braze metal and plated stee cone rubbe	otor tts ody and c ody and c s), plastic plastic el (mtg nu r (insulati	copper cc copper cc (pump h its), stain	nousir
The structural inter After the test, the U JUT-10 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Excel Jumidifier Reheat Assembly Thermal Expansion Valve	II of contents prity of the co JUT was funct <b>/ Tested</b> EC (460VAC 6 Row Tube CR035 460' 60 Amp 651 30 Amp 651 30 Amp 651 30 Amp 651 Scroll ZPD1 1/3 HP Pum 460VAC B80X42 UL 460V Heaters 6 K 6 Ton Expan	(refrigerant & v mponent attac tional and ope Sub-Cor ription C) & Fin Coil V KA SCCR 20KCE-TFD p condensate W 460V nsion Valve	e shake table water) during ti hment and for rrated within th <b>mponent</b> 257240P1 197542G1 191986G4 303397P2 30339P3 257223P2 1A19271P2 257382P2 257521P2	he test. ce-resistin e manufar EBM Vertiv Co Vertiv Co Copeland Hartell Swep Nortec Vertiv Co Sporlan N	17/202 17/20	Figure 10.2: ras maintained. tional limits Aluminum blac Aluminum fin, Galvanized GS Aluminum sha Aluminum sha Shell is paintee Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrical Brass (body), o Beverage boal	les. Carboo Copper Tu 20 Steel pa ft, plated ca d cold rolle motor), co eel 316 HX s, carbon s eel (mtg PL I connectic copper (pip rd frame, p	Mat n Steel & 6 be, Galv. nel arbon stee arbon stee d carbon stee d carbon stee d carbon stee goper (mote piping cor ( with copp teel sheet s), nickel ons) & silic ing) and s	erial Copper Mc Tube shee el/plastic bo steel or windings nections). per Braze metal and plated stee cone rubbe stainless st	otor ts ody and c ody and c s), plastic plastic el (mtg nu r (insulati teel (inter	copper cc copper cc (pump h its), stain ing termin nals).	nousir nousir neless nals).
The structural inter After the test, the U JUT-10 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Excel Jumidifier	II of contents prity of the co JUT was funct <b>/ Tested</b> Desc EC (460VAC 6 Row Tubes CR035 460' 60 Amp 651 30 Amp 651 30 Amp 651 30 Amp 651 30 Amp 651 30 Amp 651 Scroll ZPD1 1/3 HP Pum 460VAC B80X42 UL 460V Heaters 6 K 6 Ton Expan	(refrigerant & v mponent attac ttional and ope Sub-Cor ription C) & & Fin Coil V KA SCCR 20KCE-TFD p condensate W 460V hsion Valve ter 600 Volt	e shake table water) during t hment and for rated within th <b>mponent</b> 257240P1 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257382P2 257521P2 257521P2 257604G14 257261P1	he test. ce-resistir e manufar EBM Vertiv Co Vertiv Co Vertiv Co Allen Bra Socomec Copelano Hartell Swep Nortec Vertiv Co Sporlan N Koch Filtu	17/202 17/20	Figure 10.2: As maintained. ional limits Aluminum blac Aluminum sha Aluminum sha Aluminum sha Aluminum sha Shell is paintee Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrical Brass (body), o	les. Carbon Copper Tu 30 Steel pa ft, plated ca d cold rolle motor), co and brass ( eel 316 HX c, carbon s eel (mtg PL I connectio copper (pip rd frame, p backing	Mat n Steel & ( be, Galv. nel arbon stee d carbon stee d carbon stee d carbon stee d carbon stee singper (mote piping cor ( with cop teel sheet s), nickel ons) & silic ing) and s leated pol	erial Copper Mo Tube shee el/plastic bo steel or windings nections). per Braze metal and plated stee cone rubbe stainless st lypropylene	otor ts ody and c ody and c ody and c s), plastic el (mtg nu r (insulati teel (inter e blend M	copper cc copper cc (pump h its), stain ing termin nals).	nousii nousii neless nals)
The structural inter After the test, the U JUT-10 Summary Sub-Component Cooling Fan Cooling Coil Assembly Dectrical Panel Assembly Disconnect (1) Disconnect	II of contents prity of the co JUT was funct <b>Tested</b> EC (460VAC 6 Row Tube CR035 460V 60 Amp 65I 30 Amp 65I 30 Amp 65I 30 Amp 65I Scroll ZPD1 1/3 HP Pum 460VAC B80X42 UL 460V Heaters 6 K 6 Ton Expan MERV11 Fil 300VA 460-	(refrigerant & v mponent attac ttional and ope Sub-Cor ription C) & & Fin Coil V KA SCCR & SCCR 20KCE-TFD p condensate W 460V nsion Valve ter 600 Volt	e shake table water) during t hment and for rated within th <b>mponent</b> 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257382P2 257521P2 257521P2 257604G14 257261P1 196968P2	he test. ce-resistir e manufar EBM Vertiv Co Vertiv Co Vertiv Co Allen Bra Socomec Copeland Hartell Swep Nortec Vertiv Co Sporlan N Koch Filtu	addey additional	Figure 10.2: Figure 10.2: Ass maintained. tional limits Aluminum blac Aluminum blac Aluminum shar Aluminum shar Aluminum shar Aluminum shar Shell is paintee Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrical Brass (body), o Beverage boar & metal mesh	les. Carboo Copper Tu 20 Steel pa ft, plated ca ft, plated ca d cold rolle motor), co and brass ( eel 316 HX s, carbon si eel (mtg PL I connectic copper (pip rd frame, p backing aminations	Mat n Steel & d be, Galv. nel arbon stee d carbon stee sipping cor ( with copp teel sheet s), nickel sing) and s leated pol	erial Copper Mc Tube shee el/plastic bo steel or windings or windings or windings metal and j plated stee cone rubbe stainless st hypropylene	otor ts ody and c ody and c ody and c s), plastic el (mtg nu r (insulati teel (inter e blend M	copper cc copper cc (pump h its), stain ing termin nals).	nousii nousii neless nals)
The structural inter After the test, the I JUT-10 Summary Sub-Component Cooling Fan Cooling Coil Assembly Electrical Panel Assembly Disconnect (1) Disconnect (1) Compressor Condensate Pump Condensate Plate Heat Excel lumidifier Reheat Assembly Thermal Expansion Valve	II of contents prity of the co JUT was funct <b>Tested</b> EC (460VAC 6 Row Tube CR035 460V 60 Amp 65I 30 Amp 65I 30 Amp 65I Scroll ZPD1 1/3 HP Pum 460VAC B80X42 UL 460V Heaters 6 K 6 Ton Expan MERV11 Fil 300VA 460- X 24 Volt 60 Receiver 6"	(refrigerant & v mponent attac trional and ope Sub-Cor ription C) & & Fin Coil V KA SCCR & SCCR 20KCE-TFD p condensate W 460V nsion Valve ter 600 Volt Hz. X14"	e shake table water) during ti hment and for rrated within th mponent 257240P1 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257521P2 257521P2 257604G14 257261P1 196968P2 136202P1	he test. cce-resistir e manufa Certiv Cc Pertiv Cc Allen Bra Socomec Copelanc Hartell Swep Nortec Vertiv Cc Sporlan V Koch Filtu Emerson	17/202 ang systems w cturer operation addey c d orporation valve er Corp. a (Emermex) neyer	Figure 10.2: ras maintained. ras maintained. ras maintained. ras maintained. ras maintained. ras maintained. Aluminum sha Aluminum sha Aluminum sha Aluminum sha Aluminum sha Shell is paintee Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrica Brass (body), Beverage boar & metal mesh Carbon Steel I	les. Carboo Copper Tu 20 Steel pa ft, plated ca d cold rolle motor), co and brass ( eel 316 HX contor), co eel 316 HX contor), co eel 316 HX contor), co eel 316 HX copper (pip rd frame, p backing aminations shell attach	Mat n Steel & d be, Galv. nel arbon stee d carbon stee d carbon stee d carbon stee d carbon stee d carbon stee d carbon stee sipping cor ( with copp teel sheet s), nickel sing) and s leated pol	erial Copper Mc Tube shee el/plastic bo steel or windings or windings or windings metal and j plated stee cone rubbe stainless st hypropylene	otor ts ody and c ody and c ody and c s), plastic el (mtg nu r (insulati teel (inter e blend M	copper cc copper cc (pump h its), stain ing termin nals).	nousii nousii neless nals)
The structural inter After the test, the U JUT-10 Summary Sub-Component Cooling Fan Cooling Coil Assembly lectrical Panel Assembly lectrical Panel Assembly visconnect (1) compressor Condensate Pump Condensate Plate Heat Excel lumidifier teheat Assembly hermal Expansion Valve ir Filter lectrical Panel Transformer tefigerant Receiver leat Rejection Control Valve ctuator	II of contents prity of the co JUT was funct <b>Tested</b> EC (460VAC 6 Row Tube CR035 460V 60 Amp 65I 30 Amp 65I 30 Amp 65I Scroll ZPD1 1/3 HP Pum 460VAC B80X42 UL 460V Heaters 6 K 6 Ton Expan MERV11 Fil 300VA 460- X 24 Volt 60 Receiver 6"	(refrigerant & v mponent attac tional and ope Sub-Cor ription C) & & Fin Coil V KA SCCR KA SCCR 20KCE-TFD p condensate W 460V hsion Valve ter 600 Volt Hz. X14" valve	e shake table water) during ti hment and for rated within th <b>mponent</b> 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257521P2 257521P2 257604G14 257261P1 196968P2 136202P1 300842P1	he test. cce-resistin e manufa Certiv Cc Allen Bra Socomec Copelanc Hartell Swep Nortec Vertiv Cc Sporlan V Koch Filtu Emerson Westerm	17/202 and systems we intervent operation addey c d orporation valve er Corp. a (Emermex) neyer	Figure 10.2: ras maintained. ras maintained. ras maintained. ras maintained. ras maintained. ras maintained. Aluminum blac Aluminum blac Aluminum sha Aluminum sha Shell is painted Carbon Steel ( and impeller) a All stainless st Electrical parts Galvanized ste steel (electrica Brass (body), Beverage boar & metal mesh Carbon Steel I Carbon Steel I	les. Carboo Copper Tu 20 Steel pa ft, plated ca ft, plated ca d cold rolle motor), co and brass ( eel 316 HX carbon si eel (mtg PL I connectic copper (pip rd frame, p backing aminations shell attach and plasti	Mat n Steel & be, Galv. nel arbon stee d carbon stee d carbon stee d carbon stee d carbon stee shown steel sheet sheet sheet s), nickel ing) and s leated pol and copp ed to unit c	erial Copper Mc Tube shee el/plastic bo steel or windings or windings or windings metal and j plated stee cone rubbe stainless st hypropylene	otor ts ody and c ody and c ody and c s), plastic el (mtg nu r (insulati teel (inter e blend M	copper cc copper cc (pump h its), stain ing termin nals).	nousii nousii neless nals)
The structural inte After the test, the I JUT-10 Summary Sub-Component cooling Fan cooling Coil Assembly lectrical Panel Assembly isconnect (1) isconnect (1) compressor condensate Plate Heat Excl umidifier eheat Assembly hermal Expansion Valve ir Filter lectrical Panel Transformer refigerant Receiver eat Rejection Control Valve	I of contents prity of the co JUT was funct <b>Tested</b> EC (460VAC 6 Row Tube CR035 4600 60 Amp 651 30 Amp 651 30 Amp 651 30 Amp 651 Scroll ZPD1 1/3 HP Pum 460VAC B80X42 UL 460V Heaters 6 K 6 Ton Expan MERV11 Fil 300VA 460- X 24 Volt 60 Receiver 6" 3 way globe Actuator 24	(refrigerant & v mponent attac tional and ope Sub-Cor ription C) & & Fin Coil V KA SCCR KA SCCR 20KCE-TFD p condensate W 460V hsion Valve ter 600 Volt Hz. X14" valve	e shake table water) during t hment and for rated within th <b>mponent</b> 257240P1 197542G1 191986G4 303397P2 303399P3 257223P2 1A19271P2 257521P2 257521P2 257521P2 257604G14 257261P1 196968P2 136202P1 300842P1 257271P1 257371P1	he test. ce-resistir e manufai EBM Vertiv Co Vertiv Co Vertiv Co Allen Bra Socomec Copeland Hartell Swep Nortec Vertiv Co Sporlan V Koch Filtu Emerson Westerm Siemens Siemens ACME	17/202 and systems we intervent operation addey c d orporation valve er Corp. a (Emermex) neyer	Figure 10.2: Figure 10.2: As maintained. Aluminum blace Aluminum fin, Galvanized GS Aluminum sha Aluminum sha Aluminum sha Shell is painted Carbon Steel ( and impeller) a All stainless stt Electrical parts Galvanized ste steel (electrica Brass (body), o Beverage boar & metal mesh Carbon Steel I Carbon Steel I Carbon Steel I	les. Carbon Copper Tu 20 Steel pa ft, plated ca ft, plated ca d cold rolle motor), co and brass ( eel alt brass copper (pip rd frame, p backing aminations shell attach and plasti and plasti	Mat n Steel & d be, Galv. nel arbon stee arbon stee arbon stee d carbon stee d carbon stee d carbon stee singping cor ( with copp teel sheet s), nickel nns) & silic ing) and s leated pol and copp ed to unit c c	erial Copper Mc Tube shee el/plastic bo steel or windings or windings or windings metal and j plated stee cone rubbe stainless st hypropylene	otor ts ody and c ody and c ody and c s), plastic el (mtg nu r (insulati teel (inter e blend M	copper cc copper cc (pump h its), stain ing termin nals).	nousi nousi ness nals)