

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0742
HCAI Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: Johnson Controls	
Manufacturer's Technical Representative: Piyush Adhav	
Mailing Address: 5005 York Drive, Norman, OK 73069	
Telephone: (580) 878-0570 Email: piyush.adhav@	jci.com
Product Information	
Product Name: Air Conditioning Units	
Product Model Number(s): See attached	- Z
Product Category: Air Conditioning Units OSP-0742	G
Product Sub-Category: Air Conditioning Units - Packaged	
General Description: 27.5 - 50 ton Select Packaged rooftop units	m O
Mounting Description: Rigid Custom Curb, Floor Mounted	
Tested Seismic Enhancements: Seismic enhancements made to the test anomalies during the tests shall be income	st units and/or modifications required to address or porated into the production units.
Applicant Information	
Applicant Company Name: Dynamic Certification Laboratories	07
Contact Person: Kelly Laplace	
Mailing Address: 1315 Greg Street Suite 109, Sparks, NV 89431	
Telephone: (775) 358-5085 Email: kelly@shaketes	st.com
Title: Business Manager	



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OSP-0742



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: THE VMC GROUP
Name: Kenneth Tarlow California License Number: S2851
Mailing Address: 980 9th Street, 16th Floor, Sacramento, CA 95814
Felephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com
Certification Method
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):
FOR CODE CON
Festing Laboratory
Company Name: CLARK TESTING LABORATORY, INC.
Contact Person: Devon Lohr
Mailing Address: 1801 Route 51, Jefferson Hills PA 15025
Telephone: (412) 387-1001 Email: dlohr@clarktesting.com
Company Name: DYNAMIC CERTIFICATION LABORATORY (DCL)
Contact Person: Josh Sailer
Mailing Address: 1315 Greg St., Ste 109, Sparks NV 89431
Telephone: (775) 358-5085 Email: josh@shaketest.com
BUILDING

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OSP-0742



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

Seismic Parameters

Desigr	Basis of Equipment or Components	$(F_{p}/W_{p}) = 1.05$		
:	SDS (Design spectral response accele	eration at short period, g) = 1.40		
ä	ap (Amplification factor) =	2.5		
I	Rp (Response modification factor) =	6		
9	$Ω_0$ (System overstrength factor) =	2.0		
I	p (Importance factor) =	1.5		
2	z/h (Height ratio factor) =	1 and 0		
I	Natural frequencies (Hz) =	See Attachment		
(Overall dimensions and weight =	See Attachment		
HCAI	Approval (For Office Use Only) -	Approval Expires on 12/06/2030	0	
Date:	12/6/2024	OSP-0742	G	
Name:	Mohammad Karim	DV: Mahammad Karim	Title:	Supervisor, Health Facilities
Specia	I Seismic Certification Valid Up to: Sr	$p_{s}(q) = 140$	z/h =	1

NG CODE

Condition of Approval (if applicable):



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Special Seismic Certification Table 1 - Certified Components



DCL Project Number: 64237-2401

Manufacturer: York (Johnson Controls)

Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

Product Construction: Powder Coated Carbon Steel Enclosure

Mounting Description: Rigid Roof Curb Mounted

Certified Seismic Levels: Sds 1.4 g at z/h= 1.0 and z/h ~

Model Number	Di	mensions (incl	nes)	Operating Weight	Nominal Cooling	Tested Heat	Unit
Woder Number	Depth	Width	Height	(Ib)	Capacity (Tons)	Tested Heat	Onit
YV28E3DJ5S3LGLC1G	180	90	70	5,002	27.5	Electric	UUT3
xx27xxxxxxxxxxxx	180	90	70	5,002	27.5	N/A	Interpolate
YV30T3CV4K1C8TD6L	180	90	70	5,430	30	Gas	UUT1
xx30xxxxxxxxxxxx	180	90	070 C	OD 5430	30	N/A	Interpolate
xx35xxxxxxxxxxx	180	90	70	5430	35	N/A	Interpolate
xx40xxxxxxxxxxxx	232	90	77	6,220	40	N/A	Interpolate
YH40N1DZ2Q2CGTC6A	232	90	ŰSF	-076,220	40	Gas	UUT2
xx50xxxxxxxxxxxx	232	90	77	6,787	50	N/A	Interpolate
YH50E1DV2R4L8LD7M	232	90 90		6,787	50	Electric	UUT4
	CALL	DA	A BUI	2/06/2024	ODE		

Special Seismic Certification Certified Options : Nomenclature Chart



DCL Project Number: 64237-2401

Manufacturer: York (Johnson Controls)

Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

-			Sample Part Number		
K	H 4	0 C	2 D Z 2 Q 2	CGTC	6 A
Character	Category	Allowable Value	Description	Justification for Interpolation/ Extrapolation	Unit
*		V	JCI PACKAGE	Same as UUT1,2,3,4 (branding)	Extrapolated
К	Package	К	YORK PACKAGE	N/A	UUT1,2,3,4
		F	BRANDED PACKAGE	Same as UUT1,2,3,4 (branding)	Extrapolated
		R	TEMPMASTER PACKAGE	Same as UUT1,2,3,4 (branding)	Extrapolated
		V	Standard vertical	N/A	UUT1,3
Н	Efficiency	H	Standard horizontal	N/A	UUT2,4
		X	Vertical Return, Horizontal Supply	Both types of returns/supplys tested	Extrapolated
		Y	Horizontal Return, Vertical Supply	Both types of returns/supplys tested	Extrapolated
		27	27.5 ton	N/A	UUT3
40	O a ma a itu	30	30 ton	N/A	UUT1
40	Capacity	35	35 ton	Bookended by UUT1,3 and UUT2,4	Interpolated
		40		N/A	UUT2
		50 C	50 ton	N/A Dependent of LILUT1 2 2 4	UUT4
		N S	Cooling Only	Depopulated version of UUT1,2,3,4 N/A	Extrapolated UUT2
	C Heat Type	S	Natural Gas, Staged Natural Gas, Staged Gas Heat with SS Heat Exchangers	Depopulated version of UUT1	Extrapolated
С		E	Electric Heat	N/A	UUT3,4
	Т	Natural Gas, Modulating Gas Heat with SS Heat Exchangers	N/A N/A	UUT1	
		0	Cooling Only	Depopulated version of UUT1,2,3,4	Extrapolated
		1	Low Heat	N/A	UUT2,4
2	Heat Size	2	Medium Heat	Bookended by UUT2,4, and UUT1,3	Interpolated
2		3	High Heat / Mod Heat	N/A	UUT1,3
		4	Ultra High Heat	Same as UUT3	Extrapolated
		В	Standard	Depopulated version of UUT1,2,3,4	Interpolated
D	Blower	C	Medium	N/A	UUT1
		D	High	N/A	UUT2,3,4
		G	VFD/VAV 4 Stage	Depopulated version of UUT3	Interpolated
		Н	VFD/VAV w/ Shaft Grounding Ring 4 Stage	Bookended by UUT2,3	Interpolated
		J	VFD/VAV w/ Bypass 4 Stage	N/A	UUT3
		К	VFD/VAV w/ Bypass / Shaft Grounding Ring 4 Stage	Bookended by UUT2,3	Interpolated
		Р	IntelliSpeed 2 Stage	Depopulated version of UUT2	Interpolated
		Q	IntelliSpeed w/ Shaft Grounding Ring 2 Stage	Depopulated version of UUT2	Interpolated
Z	Air Volume	R	IntelliSpeed w/Bypass 2 Stage	Depopulated version of UUT2	Interpolated
		S	IntelliSpeed w/ Bypass /Shaft Grounding Ring 2 Stage	Depopulated version of UUT2	Interpolated
		V	Constant Volume ¹	N/A	UUT1,4
		W	IntelliSpeed 4 Stage	Depopulated version of UUT2	Interpolated
		Х	IntelliSpeed w/ Shaft Grounding Ring 4 Stage	Depopulated version of UUT2	Interpolated
		Y	IntelliSpeed w/ Bypass 4 Stage	Depopulated version of UUT2	Interpolated
		Z	IntelliSpeed w/ Bypass /Shaft Grounding Ring 4 Stage	N/A	UUT2
		2	208/230-3-60	N/A	UUT2,4
		4	460-3-60	N/A	UUT1
2	Voltaga	5	575-3-60	N/A	UUT3
2	Voltage	В	208/230-3-60 HIGH SCCR	Same as UUT2,4	Interpolated
		D	460-3-60 HIGH SCCR	Same as UUT1	Interpolated
		E	575-3-60 HIGH SCCR	Same as UUT3	Interpolated

Note:

1. Option no longer avalable

Continued on next page

Special Seismic Certification Certified Options : Nomenclature Chart (Continued)



DCL Project Number: 64237-2401

Manufacturer: York (Johnson Controls) Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

K	H 4	0 C									
		u c	2 D Z 2 Q 2	CGTC	6 A						
aracter	Category	Allowable Value	Description	Justification for Interpolation/ Extrapolation	Unit						
		А	No Economiser	Depopulated version of UUT1,2,3, 4	Extrapolat						
		В	Manual Damper	Depopulated version of UUT1,2,3, 4	Extrapolat						
		С	Economiser with Baromatric Relief	Depopulated version of UUT2	Interpolat						
			D	Economiser with Modulating Power Exhaust	Depopulated version of UUT1,4	Interpolat					
		E	Economiser with Power Exhaust	Depopulated version of UUT3	Interpolat						
		F	Economiser BAS with Barometric Relief	Depopulated version of UUT2	Interpola						
0	Quitela an Ain	G	Economiser BAS with Modulating Power Exhaust	Depopulated version of UUT4	Interpolat						
Q	Q Outdoor Air	Outdoor Air	н	Economiser BAS with Power Exhaust	Depopulated version of UUT 3	Interpolat					
									J	Economiser with Baromatric Relief, Single Enthalpy	Depopulated version of UUT1 and UUT2
		к 🔘	Economiser with Modulating Power Exhaust, Single Enthalpy	N/A	UUT1						
		L	Economiser with Power Exhaust, Single Enthalpy	Depopulated version of UUT1 and UUT3	Interpola						
			Q	Economiser with Barometric Relief, Dual Enthalpy	N/A	UUT2					
				R	Economiser with Modulating Power Exhaust, Dual Enthalpy	N/A	UUT4				
		S	Economiser with Power Exhaust, Dual Enthalpy	N/A	UUT3						
		1	Standard Condenser and Evaporator Coil	N/A	UUT1						
		2	Standard Condenser and ElectroFin Evaporator Coil	N/A	UUT2						
		3	ElectroFin Condenser & Standard Evaporator Coil	N/A	UUT3						
		4	ElectroFin Condenser & ElectroFin Evaporator Coil	N/A	UUT4						
2	Coils	5	Standard Condenser and Evaporator Coil with IBC / HCAI Seismic Unit Construction	Same as tested in UUT1	Same						
		6	Standard Condenser and ElectroFin Evaporator Coil with IBC / HCAI Seismic Unit Construction	Same as tested in UUT2	Same						
		7	ElectroFin Condenser & Standard Evaporator Coil with IBC / HCAI Seismic Unit Construction	Same as tested in UUT3	Same						
		8	ElectroFin Condenser & ElectroFin Evaporator Coil with IBC / HCAI Seismic Unit Construction	Same as tested in UUT4	Same						
		А	Smart Equipment Controls	Depopulated version of UUT1,2,3, 4	Interpola						
		С	Smart Equipment with COM	N/A	UUT1,2						
С	Controls	J	VERASYS SINGLE ZONE	Bookended by UUT1,2 and UUT3,4	Interpolat						
		К	VERASYS Change over Bypass	Bookended by UUT1,2 and UUT3,4	Interpola						
		L	VERASYS VAV	N/A	UUT3,4						
			Continued on next page								

Special Seismic Certification Certified Options : Nomenclature Chart (Continued)



DCL Project Number: 64237-2401

Manufacturer: York (Johnson Controls) Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

r.	II A		Sample Part Number		6	
	H 4	0 C	2 D Z 2 Q 2 0	C G T C	6	
icter	Category	Allowable Value	Description	Justification for Interpolation/	Unit	
		А	NO SENSORS	Depopulated version of UUT1,4	Interpol	
		В	AIR PROVING SWITCH	Depopulated version of UUT1,4	Interpol	
		С	DIRTY FILTER SWITCH	Depopulated version of UUT1,4	Interpol	
		D	SUPPLY AIR SMOKE DETECT	Depopulated version of UUT1,4	Interpol	
		E	RETURN AIR SMOKE DETECT	Depopulated version of UUT1,4	Interpol	
		F	CO2 SENSOR	Depopulated version of UUT1,4	Interpol	
		G	APS, DFS	N/A	UUT2	
			Н	APS, SSD	Depopulated version of UUT1,4	Interpol
		1	APS, RSD	Depopulated version of UUT1,4	Interpol	
		К	APS, CO2	Depopulated version of UUT1,4	Interpol	
		L	DFS, SSD C	Depopulated version of UUT1,4	Interpola	
		М	DFS, RSD	Depopulated version of UUT1,4	Interpola	
		N	DFS, CO2	Depopulated version of UUT1,4	Interpola	
		Р	SSD, RSD	Depopulated version of UUT1,4	Interpola	
		Q	SSD, CO2	Depopulated version of UUT1,4	Interpola	
	Sensors	R	RSD, CO2	Depopulated version of UUT1,4	Interpol	
		S 4	APS, DFS, SSD	Depopulated version of UUT1,4	Interpol	
		Т	APS, DFS, RSD	Depopulated version of UUT1,4	Interpol	
		U	APS, DFS, CO2	Depopulated version of UUT1,4	Interpol	
		V	APS, SSD, RSD	Depopulated version of UUT1,4	Interpol	
		w U	APS, SSD, CO2	Depopulated version of UUT1,4	Interpola	
		Х	APS, RSD, CO2	Depopulated version of UUT1,4	Interpol	
		Y	DFS, SSD, RSD	Depopulated version of UUT1,4	Interpola	
		Z	DAT EDFS, SSD, C02/2024	Depopulated version of UUT1,4	Interpola	
		1	DFS, RSD, CO2	Depopulated version of UUT1,4	Interpola	
		2	SSD, RSD, CO2	Depopulated version of UUT1,4	Interpola	
		3	APS, DFS, SSD, RSD	Depopulated version of UUT1,4	Interpola	
		4	APS, DFS, SSD, CO2	Depopulated version of UUT1,4	Interpola	
		5	APS, DFS, RSD, CO2	Depopulated version of UUT1,4	Interpola	
		6	APS, SSD, RSD, CO2	Depopulated version of UUT1,4	Interpola	
		7	DFS, SSD, RSD, CO2	Depopulated version of UUT1,4	Interpola	
		8	APS, DFS, SSD, RSD, CO2	N/A	UUT1,	
		A	No Service Options	No Service called	Extrapol	
		В	Phase Monitor (PHM)	Depopulated version of UUT1,2	Interpola	
		С	Non-Power Convenience Outlet (NCO)	Depopulated version of UUT3,4	Interpola	
		D	Fused Disconnect (FD)	Depopulated version of UUT3,4	Interpola	
		E	Disconnect Switch (DSC)	Depopulated version of UUT1,2	Interpola	
		F	Powered Convenience Outlet (PCO)	Depopulated version of UUT1,2	Interpola	
		G	PHM, FD	Bookended by UUT1,2,3,4	Interpola	
		Н	PHM, DSC	Depopulated version of UUT1,2	Interpola	
	Service	J	PHM, NCO	Bookended by UUT1,2,3,4	Interpola	
	Options	К	PHM, PCO	Depopulated version of UUT1,2	Interpola	
		L	FD, NCO	N/A	UUT3	
		М	FD, PCO	Bookended by UUT1,2,3,4	Interpola	
		N	DSC, NCO	Bookended by UUT1,2,3,4	Interpol	
		Р	DSC, PCO	Depopulated version of UUT1,2	Interpol	
		Q	PHM, FD, NCO	Bookended by UUT1,2,3,4	Interpol	
		R	PHM, FD, PCO	Bookended by UUT1,2,3,4	Interpol	
		S	PHM, DSC, NCO	Bookended by UUT1,2,3,4	Interpola	
		Т	PHM, DSC, PCO	N/A	UUT1,	

Special Seismic Certification Certified Options : Nomenclature Chart (Continued)



DCL Project Number: 64237-2401

Manufacturer: York (Johnson Controls) Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

						Sampl	e Part N	umber								
K	H 4	0	С	2	D	Z	2	Q		2	С	G	T	C	6	Α
Character	Category	Allo	wable Value			Desci	ription				J	ustificatio	on for Inte	rpolation/		Unit
			1	Standard			De	populated	l version o	f UUT1,2,3,4	Inte	rpolated				
			3	Low	v Ambient	Head Pr	ressure (Control	(HPC	C) ¹	6	Depopulat	ed versior	of UUT2,3	Inte	rpolated
			4		Modulati	ng Hot (Gas Reh	eat (HGI	R)		[Depopulat	ed versior	of UUT1,4	Inte	rpolated
С	Refrigeration		7	Low Ambient (LA)			[Depopulat	ed versior	of UUT2,3	Inte	rpolated				
C	Reingeration		А		S	ervice V	'alves (S	V)			De	populated	l version o	f UUT1,2,3,4	Inte	rpolated
			Н		Low Am	bient an	d Servic	e Valves	s			Sar	ne as UUT	2,3	Inte	rpolated
			С		HPC	Cand Se	ervice Va	lves					N/A		U	UT2,3
			D		HGI	R and Se	ervice Va	lves					N/A		U	UT1,4
			1		Stand	dard Thr	owaway	Filter					N/A		l	UUT3
			2		2" P	leated F	ilter ME	RV 8			[Depopulat	ed versior	of UUT1,2	Inte	rpolated
6	6 Additional 4			4" Pleated Filter MERV 13					Depopula	ted versio	n of UUT4	Inte	rpolated			
Ū	Options		5		Standar	d Filter,	Coil Gu	ard (CG	$) \cup$	Λ_{Λ}		Booken	ded by UU	T1,2,3,4	Inte	rpolated
			6			2" Plea	ited, CG			21/			N/A		U	UT1,2
			7			4" Plea	ited, CG		XXXX		$\langle \rangle$		N/A		l	UUT4
			A		ę	Standard	d Cabine	t 🚺 🕅	XXXX		Y		N/A		l	UUT2
			В				ss Panel	. ,	YXXX.	XXXXXX		Depopulat	ed versior	of UUT3,4	Inte	rpolated
			CL		Condensa	ate Over	flow Sw	tch (CO	DF)		D	epopulate	d version	of UUT1,3,4	Inte	rpolated
			DX				Vall (DBI							n of UUT1	Inte	rpolated
			E	NXXXXXX	Stainles	ss Steel	Drain Pa	n (SSD))			Depopulat	ed versior	of UUT1,4	Inte	rpolated
А	Cabinet Options		F	R	$\vee \mathbf{M}$, SSD	d Ka	arii	m		<mark>Depopu</mark> la	ted versio	n of UUT4		rpolated
~	oublinet options		G			HAP	, COF	GIN					N/A		l	UUT3
			Н				, COF					Depopulat	ed versior	of UUT1,4	Inte	rpolated
					ATE		, SSD	190	6.4			A		n of UUT1	Inte	rpolated
			K		AIE		, COF	-	<u>7</u> 4		337	Depopula		n of UUT1		rpolated
			L	MAR	1111111		SD, COF		493	1111	SV C		N/A			UUT1
			М		<u>ANNI</u>	HAP, S	SD, COF		1H	HUL.			N/A		l	UUT4
Note: 1. Option no	longer avalable			ORN	IA B	UIL	DI	NG	C	0	54.1					

Special Seismic Certification Table 2 - Certified Subcomponents: Refrigerant Compressor, & Blower Motors



DCL Project Number: 64237-2401

Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

		Re	frigerant Compressor			
Model Nu	mber	Manufacturer	Material	Weigh	nt (lb)	Unit
DSH161A4	IALC ¹			15	5	UUT1
DSH161A4	1ALD			15	5	Interpolated
DSH140A3	BALD	-		15	57	Interpolated
DSH140A	1ALD			15	7	Interpolated
DSH140A	7ALC	-		15	7	Interpolated
DSH140A7				15		UUT3
DSH140A7		-		15		Interpolated
DSH161A3				16		Interpolated
DSH101/3		-		16		Interpolated
		-				
DSH184A3		Danfoss	Carbon Steel	16		Interpolated
DSH184A3			CODE	16		UUT2
DSH184A		- COK	CODECO	16		Interpolated
DSH240B7				25		Interpolated
DSH240B3				25	6	Interpolated
DSH240A3	AAC ¹			25	6	UUT4
DSH240B4	1AXC	LEWED FOR		25	6	Interpolated
DSH240E-3	CLNA			30	12	Interpolated
DSH240E-4	CLNA		SP-0742	30	12	Interpolated
DSH240E-7	CLNA		OP-0/42	30	2	Interpolated
DSH240	E-3 ¹			30	12	UUT4
YAT152K1	E-TF5	DV		18	6	Extrapolated
YAT152K1	E-TFD	BY: Mor	ammad Karim	18	6	Extrapolated
YAT152K1	E-TFE			18	6	Extrapolated
YAT134K1	E-TFE			18	9	Extrapolated
YAT134K1			12/06/2024	18		Extrapolated
YAT134K1		Copeland ²	Carbon Steel	18		Extrapolated
ZPT182KCE-1		Copeland	Carbon Steel			
				19		UUT2
YAT182K1E-1						Interpolated
YAT182K1E-				19		Interpolated
YAT182K1E-				19		Interpolated
ZPT134KC	E-TFE			20	15	UUT3
Model Number	Manufacturer	Voltage (V)	Blower Motors Power (HP)	Material	Weight (lb)	Unit
EM3311T-5	Manufacturer	575	7.5	Wateria	114	Extrapolated
EM3311T-5G	-	575	7.5	1	114	Extrapolated
EM3311T		230-460	7.5		115	Extrapolated
EM3311T-G		230-460	7.5		115	Extrapolated
EM3313T-5		575	10]	123	Extrapolated
EM3313T-G		230-460	10		127	Extrapolated
EM3313T		230-460	10	Rolled Carbon	128	UUT1
EM3313T-5G	Baldor	575	10	Steel &	132	Interpolated
EM2513T-G	Balaol	230-460	15	Cast Iron	210	Interpolated
EM2513T-5G		575	15		210	Interpolated
EM2513T	_	230-460	15	4	211	Interpolated
EM2515T	_	230-460	20	-	225	UUT4
EM2515T-G	_	230-460	20		227	UUT2
EM2515T-5		575	20		227	Interpolated
EM2515T-5G EM2513T-5		575	20 15		250	Interpolated
FIV1/5151-5		575	15	1	273	UUT3

Note:

1. The marked compressors use R410A, the unmarked compressors use R454B for the Danfoss compressors, the compressors are otherwise identical

2. ZPT compressors use R410A refrigerant and YAT compressors use R454B for the Copeland compressors, the compressors are otherwise identical

Special Seismic Certification

Table 3 - Certified Subcomponents: Condenser Coils, Evaporator Coils,Reheat Coils & Service Valves



DCL Project Number: 64237-2401

Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

Model Number	Manufacturer	Description	Dimensions	Material	Weight (lb)	Unit
	Manufacturer	•	(total ft^2)	Material		
X005- JC334-1	_	MC, 20MM X 47.1 X 80.7	26	-	49	Interpolate
5876471		MC EF, 20MM X 47.1 X 80.7	26	_	49	UUT3
X006-JC328		MC, 20MM X 51.9 X 80	29	_	56	UUT2
5876474	Sanhua	MC EF, 20MM X 51.9 X 80	29	Aluminum &	56	Interpolate
X005- JC335-1		MC, 20MM X 56.7 X 80.7	32	Copper	60	UUT1
5876472		MC EF, 20MM X 56.7 X 80.7	32	_	60	Interpolate
X006-JC326		MC, 25MM X 51.9 X 80.9	29	_	67	Interpolate
5876476		MC EF, 25MM X 51.9 X 80.9	29		67	UUT4
		Evaporator Coils				
Model Number	Manufacturer	Description	Dimensions (total ft^2)	Material	Weight (lb)	Unit
5751772		ASM EVAP COIL,STD,28-30T	34		210	UUT3
5876477	-	PURCHASE LEVEL EVAP GALV 27.5/30T, EF	34		210	Interpolate
5876478	-	PURCHASE LEVEL EVAP GALV 35T, EF	34		280	Interpolate
5751771	-	ASM EVAP COIL,STD,35T	34	Aluminum, Carbon	280	Interpolate
5751770	-	ASM EVAP COIL,STD,40T	39	Steel & Copper	320	Interpolate
5876524	- /	PURCHASE LEVEL EVAP GALV 40T, EF	39	6	320	UUT2
5751769		ASM EVAP COIL,STD,50T	39		400	Interpolate
5876525		PURCHASE LEVEL EVAP GALV 50T, EF	39		400	Interpolate
5840184	- JCI	ASM EVAP COIL,STD SS 28-30T	. 34		210	UUT1
5876526		PURCHASE LEVEL EVAP SS 27.5/30T, EF	arim ₃₄		210	Interpolate
5840185		ASM EVAP COIL,STD SS 35T	34		280	Interpolate
5876527		PURCHASE LEVEL EVAP SS 35T, EF	34	Aluminum,	280	Interpolate
5840186		ASM EVAP COIL,STD SS 40T	24 39	Stainless Steel & Copper	320	Interpolate
5876528		PURCHASE LEVEL EVAP SS 40T, EF	39	- Steel & Coppel	320	Interpolate
5840187	-	ASM EVAP COIL,STD SS 50T	39	$\overline{\mathbf{V}}$	400	Interpolate
5876529	-	PURCHASE LEVEL EVAP SS 50T, EF	39		400	UUT4
		Hot Gas Reheat Coils				1
Model Number	Manufacturer	Description	Dimensions (total ft^2)	Material	Weight (lb)	Unit
5876547		MC EF 20MM X 73.4 X 35.6	18		37	Same as UU
X003-JC347	Sanhua	MC 20MM X 73.4 X 35.6	18	Aluminium	37	UUT1
X003-JC340	Sannua	MC 20MM X 73.4 X 48.6	24	Aluminum	47	Same as UU
5876548		MC EF 20MM X 73.4 X 48.6	24		47	UUT4
		Service Valves				
Model Number	Manufacturer	Description	м	aterial	Weight (lb)	Unit
AP17863		BALL VALVE 3/4			1	UUT1
AP17864C		BALL VALVE 7/8			1	UUT3
AP17865	Mueller	BALL VALVE 1-1/8	Brass	& Copper	2	UUT1,2,3,
A17866	[BALL VALVE 1-3/8			3	Interpolate
A17867	Ī	BALL VALVE 1-5/8			4	UUT2,4

Note:

1. Same as tested in UUT1, but with anti-corrosion coating. Coating tested in condenser and evaporator coils.

2. Same as tested in UUT4, but without anti-corrosion coating. Coating tested in UUT4.

Special Seismic Certification Table 4 - Certified Subcomponents: Variable Frequency Drives, Gas Heaters & Filters



DCL Project Number: 64237-2401

Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
131L9796		VFD68-3HP 200/230V		8	Extrapolat
131L9864		VFD68-3HP 460V		8	Extrapolat
131L9866		VFD68-5HP 460V		8	Extrapolat
131L9797		VFD68-5HP 200/230V		10	Extrapolat
131N0225		VFD68-3HP 575V		15	Extrapolat
134F0217		VFD68-5HP 575V		15	Extrapolat
131N0229		FC101 575V 7.5 HP VFD		15	Extrapolat
131N0231		FC101 575V 10 HP VFD		15	Extrapolat
131L9867		FC101 460V 7.5 HP VFD		16	Extrapolat
131L9868	Danfoss	FC101 460V 10 HP VFD	Plastic & Electronics - Component -	16	Extrapolat
131L9799		FC101 208V 10 HP VFD		17	Extrapolat
131L9869		FC101 460V 15 HP VFD		17	Extrapolate
131L9870		FC101 460V 20 HP VFD		17	Extrapolate
131L9798		FC101 208V 7.5 HP VFD	MAR	17	Extrapolate
131L9800	-	FC101 208V 15 HP VFD		21	Extrapolate
131N0233		FC101 575V 15 HP VFD		25	UUT3
131N0235		FC101 575V 20 HP VFD		25	Interpolate
131L9813		FC101 208V 25 HP VFD /)		54	Interpolate
131L9805		FC101 208V 20 HP VFD		54	UUT2
VFD68BHG-502C		VFD68-3HP 200/230V		3	UUT2
VFD68CHH-502C		BV VFD68-3HP 460Vad Kari		3	Interpolate
VFD68CJJ-502C		VFD68-5HP 460V	Plastic & Electronics Component	3	Interpolate
VFD68BJK-502C	- JCI	VFD68-5HP 200/230V		4	Interpolate
VFD68DHM-502C		VFD68-3HP 575V6/2022		4	Interpolate
VFD68DJN-502C		VFD68-5HP 575V		8	UUT3
		Gas Heater		-	
Model Number	Manufacturer	Description ¹	Material	Weight (lb)	Unit
5783894		ASM 5 TUBE GH, 220K, 3.25" R, AL	XXX /	105	Extrapolat
5783888		ASM 9 TUBE GH, 400K, 3.25" R, AL	Aluminized Carbon	155	Extrapolat
5783889	_	ASM 9 TUBE GH, 400K, 4" R, AL	Steel	155	Extrapolat
5783890	_	ASM 9 TUBE GH, 400K, 3.5" R, AL		155	UUT2
5783895		ASM 5 TUBE GH, 220K, 3.25" R, SS		105	UUT1
5783891	JCI	ASM 9 TUBE GH, 400K, 3.25" R, SS		155	Interpolate
5783892		ASM 9 TUBE GH, 400K, 4" R, SS		155	Interpolate
5783893		ASM 9 TUBE GH, 400K, 3.5" R, SS	Stainless Steel	155	Interpolate
5954946		ASM 9 TUBE MGH 400K, 4" R, SS		155	Interpolate
5954935		ASM 9 TUBE MGH 400K, 3.5" R, SS		155	Interpolate
5954934		ASM 9 TUBE MGH 400K, 3.25" R, SS		155	UUT1
	1	Filters	1 I		
Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
276-200-200-058		20X20X2 Disposable		< 1	UUT3
276-200-250-058	7	20X25X2 Disposable	Fiberglass —	< 1	UUT3
102-701-019	Koch Filter	20X20X2 Pleated, MERV 8		1	UUT1,2
102-740-021	Corporation	20X25X2 Pleated, MERV 8	1 +	1	UUT1,2
102-714-028	1	20X20X4 Pleated, MERV 13	Polypropylene Fibers	1	UUT4
102-714-030	-	20X25X4 Pleated, MERV 13	1 –	2	UUT4

1. R is for restrictor plate; the dimension in inches relates to the diameter of the opening in the plate.

Special Seismic Certification Table 5 - Certified Subcomponents: Economizer, Electric Heater & Outdoor Motors



DCL Project Number: 64237-2401

Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

Model Number	Manufacturer	Description		Material	Weight (lb)	Unit
8330058B	Wallulacturei	Manual OA Damper, 0-100%, Sm	all Cabinat	Wateria		
		Baro Relief HF, Factory, 28		-	85 90	Extrapolated
8345058H		Baro Relief HF, Factory, 40		-		Extrapolated
8345059H		Manual OA Damper, 0-100%, Lar		-	104	UUT2
8330059B			-	-	120	Interpolated
8346558H-23		Pwr Exh HF, Factory (208/230 Pwr Exh HF, Factory (460V) 2	-	-	211 211	Interpolated
8346558H-33		, ,, ,		-		Interpolated
8346558H-43	-	Pwr Exh HF, Factory (575V) 2		· -	211	Interpolated
8346559H-23		Pwr Exh HF, Factory (208/230 Pwr Exh HF, Factory (460V)	-	-	225 225	UUT4
8346559H-33		, ,, ,		-		Interpolated
8346559H-43		Pwr Exh HF, Factory (575V)		-	225	Interpolated
8345058	4 -	Baro Relief DF, Factory, C1 (2) Baro Relief DF, Factory,		· –	230	Interpolated
8345059					285	Interpolated
83368B58	Ruskin Rooftop	Econ Low Leak DF,C1 (27.5		Galvanized Carbon Steel	307	UUT1,3
8336858	Systems	Econ Low Leak DF, BAS,C1 (27			307	Interpolated
8346558-23	-	Pwr Exh CV, Factory (208/230V),C			314	Interpolated
8346558-33		Pwr Exh CV, Factory (460V),C1	<u> </u>		314	UUT1
8346558-43	/1	Pwr Exh CV, Factory (575V),C1	740		314	UUT3
83368B59		Econ Low Leak DF,C2 (40-			359	Interpolated
8336859		Econ Low Leak DF, BAS,C2(4	· · · · · · · · · · · · · · · · · · ·		359	Interpolated
8346559-23		Pwr Exh CV, Factory (208/230V),			390	Interpolated
8346559-33		Pwr Exh CV, Factory(460V),C2			390	Interpolated
8346559-43		Pwr Exh CV, Factory (575V),C2			390	Interpolated
83398B58		Econ Low Leak HF w/ OA Ho			398	Interpolated
8339858		Econ Low Leak HF w/ OA Hood			398	Interpolated
83398B59		Econ Low Leak HF w/ OA Ho			425	UUT2,4
8339859		Econ Low Leak HF w/ OA Hood, BAS, C2			425	Extrapolated
		Electric He	eater			
Model Number	Manufacturer	Description		Material	Weight (lb)	Unit
100-490838-01	4	ELEC. HEAT 240V 36kW		Nickel Chrome	80	Extrapolated
100-490838-03	4	ELEC. HEAT 480V 36kW			80	Extrapolated
100-490838-02		ELEC. HEAT 240V 54kW			90	UUT4
100-490838-04	-	ELEC. HEAT 480V 54kW			90	Interpolated
100-490838-05	-	ELEC. HEAT 480V 72kW	V		90	Interpolated
100-490838-06	Backer EHP	ELEC. HEAT 480V 90kW	V	Alloy Galvanized	90	Interpolated
100-490838-07		ELEC. HEAT 480V 108kV	N	Carbon Steel	90	Interpolated
100-490838-08		ELEC. HEAT 600V 54kW	V	ļ	90	Interpolated
100-490838-09		ELEC. HEAT 600V 72kW	V		90	Interpolated
100-490838-10	-	ELEC. HEAT 600V 90kW	V	, _	90	UUT3
100-490838-11		ELEC. HEAT 600V 108kV	N		90	Same as UUT3
		Outdoor M	lotors			
Model Number	Manufacturer	Voltage (V)	Power (HP)	Material	Weight (lb)	Unit
056T11O15586		208-230	1		28	UUT2
		460	1		28	UUT1
056T11O15587	Regal Beloit	575	1	Rolled Carbon	28	UUT3
	Regal Beloit	460	2	Steel & Cast Iron	48	Interpolated
6T110R040017A1				1 1		1 . 1
056T11015587 66T110R040017A1 6T110R040013A1 6T110R040014A1		575	2	. L	48	Interpolated

Special Seismic Certification Table 6 - Certified Subcomponents: Miscellaneous



DCL Project Number: 64237-2401

Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

Model Number	Manufacturer	Description	Material	Weight (lb)	Unit
BBIZE-15 1/2X7/8 EQ 1/4 ODF 5'		Valve		2	UUT1
1135-14-3/16-10-42" B	1 1	Valve		3	UUT1,3
OZE-25 7/8X1 3/8 EQ 1/4 ODF 5'	1 1	Valve		5	Interpolate
OZE-20 7/8X1 3/8 EQ 1/4 ODF 5'	Sporlan	Valve	Copper & Brass	5	UUT2
1126-20-3/16-12-42" B		Valve		6	Interpolate
1126-22-3/16-12-42" B	-	Valve		6	UUT2
1128-28-3/16-12-48" B	-	Valve		9	UUT4
97647	RectorSeal	Condensate Overflow Switch 24V	Plastic	<1	UUT1
5758866	Gexpro	Condensate Overflow Switch 24V	Plastic	<1	UUT2,3,4
GS2AH130	Schneider Electric	Handle Disconnect Switch	Plastic	<1	UUT1,2,3,
BDL36100	Schneider Liettrie	100A Non-Fusible Disconnect Switch	Thastic	2	Extrapolate
LK4JU3N	-	100A Non-Fusible Disconnect Switch	-	5	UUT1
LK4MU3N	Schneider Electric		Plastic	5	
	Schlieder Electric	200A Non Fusible Disconnect Switch	Flastic		Interpolate
LGL36000S40X		400A Non-Fusible Disconnect Switch	-	14	Interpolate
LK4QU3N	E.	400A Non-Fusible Disconnect Switch	7	14	UUT2
JGL36000S25		250A Fusible Disconnect Switch	2	5	Extrapolat
HJL36150		150A Fusible Disconnect Switch	6	5	Extrapolat
JJL36250U31X		250A Fusible Disconnect Switch	m .	5	Extrapolat
GS2JU3N	Schneider Electric	100A Fusible Disconnect Switch	Plastic	6	Extrapolate
GS2MU3N	BV	200A Fusible Disconnect Switch		8	UUT3
LJL36400U31X		400A Fusible Disconnect Switch		14	Interpolate
GS2QU3N		400A Fusible Disconnect Switch		15	UUT4
P32AF-2D	JCI	Differential Pressure Switch	Plastic	<1	UUT1,2,3,
D4SB	System Sensor	Smoke Detector Sensor	Plastic	3	UUT1,2,3,
1782349	Ayrshire	Furnace control, modulating	Plastic & Electronics	<1	UUT1
1217-100	United Technologies	Control spark, modulating	Plastic & Electronics	<1	UUT1
IB-G	Sporlan	I/O Board L=76.20mm W=76mm	Plastic & Electronics	<1	UUT1,4
SE-SPU2002-0		Circuit Board SSE, 2 stage, no comm.		<1	Extrapolate
SE-SPU2012-0	JCI -	Circuit Board SSE, 2 stage, w/ comm.	Plastic &	<1	UUT2,3
SE-SPU1004-11	501	Circuit Board SSE, 4 stage add on	Electronics	<1	Interpolate
SE-FDD1001-11		Economizer controller		<1	UUT1,2,3,
1171-64	United Technologies	Direct spark ignition module	Plastic & Electronics	<1	UUT2

Special Seismic Certification Table 7 - Tested Units



DCL Project Number: 64237-2401

Manufacturer: York (Johnson Controls)

Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

Product Construction: Powder Coated Carbon Steel Enclosure

Mounting: Rigid Roof Curb Mounted

Certified Seismic Levels: Sds 1.4 g at z/h=1 and z/h=0

Model Number		Dimensions (inches)		Operating Weight	Nominal Cooling	Unit	
Wodel Nulliber	Base rail Depth	Base rail Width	Height	(lb)	Capacity (Tons)	U.I.C	
YV30T3CV4K1C8TD6L	180	90	70	5,430	30	UUT1	
YH40N1DZ2Q2CGTC6A	232	90	77	6,220	40	UUT2	
YV28E3DJ5S3LGLC1G	180	90	70	5,002	28	UUT3	
YH50E1DV2R4L8LD7M	232	-OR CC	DE	6,787	50	UUT4	





UUT1

Test Report Number: 35176-2001

Manufacturer: York (Johnson Controls)

Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

Model Number: YV30T3CV4K1C8TD6L

Product Construction Summary: Powder coated carbon steel enclosure

Options / Component Summary: Refrigerant compressor, blower motor, outdoor motor, condenser coil, evaporator coil, hot gas reheat coil, service valves, economizer, gas heaters, filters, flow control valve, condensate overflow switch, handle disconnect switch, nonfusible disconnect switch, differential pressure switch, smoke detector sensor, furnace control board, spark control board, I/O board, economizer controller

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

	ensions (in) Depth		1.	Lowest N	latural Frague			
Veight (lb)				Lowest	Lowest Natural Frequency (Hz)			
Operating Weight (lb)		Width	Height	Front-Back	Side-Side	Vertical		
5,430		90	70	6.0	7.4	6.2		
	Seismic Test	Parameters	2					
Sds (g)	Oz/hP-()74p	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)		
1.40	1.0	1.5	2.24	1.68	0.93	0.37		
	Sds (g)	Seismic Test	Seismic Test Parameters Sds (g) z/h - 74lp	Seismic Test Parameters Sds (g) z/h Ip Aflx-H (g)	Seismic Test Parameters Sds (g) z/h Jp Aflx-H (g) Arig-H (g)	Seismic Test Parameters Sds (g) z/h Jup Aflx-H (g) Arig-H (g) Aflx-V (g)		

Unit Mounting Description:

UUT1 was mounted to a VMC P-6000S non-isolated roof curb. The curb was mounted to the shake table interface fixture with eight (8) holddown stanchions. There were two hold-downs on the rail on one end of the unit, spaced approximately 72" on-center. There were three holddowns on each long side of the unit, spaced approximately 60" on-center. Each hold-down was attached to the fixture with two (2) ½"-13 SAE grade 5 hex bolts, washers, and lock washers torqued to 75 ft-lb, for a total of sixteen (16) bolts. Corresponding with each hold-down location, there was a slotted lock down angle and ½"-13 SAE grade 2 hex bolt, washer and nut, attaching the unit to the curb. Each angle was field-welded to the unit overhang with a 3/8" fillet weld. The unit base rail was also welded to the curb with 3" long by 3/8" fillet welds spaced approximately 6" apart.



Overall view of UUT1



UUT2

Test Report Number: 35176-2001

Manufacturer: York (Johnson Controls)

Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

Model Number: YH40N1DZ2Q2CGTC6A

Product Construction Summary: Powder coated carbon steel enclosure

Options / Component Summary: Refrigerant compressors, blower motor, outdoor motor, condenser coil, evaporator coil, service valves, VFDs, economizer, gas heater, filters, flow control valve, condensate overflow switch, handle disconnect switch, nonfusible disconnect switch, differential pressure switch, smoke detector sensor, circuit board, economizer controller, direct spark ignition module

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

			UUT Pro	operties					
Tested unit		Dim	Dimensions (in) Lowest Natural Frequency (Hz						
Tested unit	Operating Wei	ght (lb)	(lb) Depth Width Heigh		Height	Front-Back	Side-Side	Vertical	
UUT2	6,220		6,220 232 90 77		77	7.6	4.9	9.8	
	~		Seismic Test	Parameters					
Building Code	Test Criteria	Sds (g)	z/hD		Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (
CBC 2022	ICC-ES AC156	1.40	1.0	1.5	2.24	1.68	0.93	0.37	

Unit Mounting Description:

UUT2 was mounted to a VMC P-6000S non-isolated roof curb. The curb was mounted to the shake table interface fixture with eight holddown stanchions. There were two hold-downs on the rail on one end of the unit, spaced approximately 72" on-center. There were three holddowns on each long side of the unit, spaced approximately 72" on-center. Two of the three hold-downs on each long side of the unit were attached to the shake table interface fixture with three 1 ½" long by 3/8" fillet welds per hold-down. The remaining 4 hold-downs were each attached to the fixture with two (2) ½"-13 SAE grade 5 hex bolts, washers, and lock washers torqued to 75 ft-lb, for a total of eight (8) bolts. Corresponding with each hold-down location, there was a slotted lock down angle and ½"-13 SAE grade 2 hex bolt, washer and nut torqued to 75 ft-lb, attaching the unit to the curb. Each angle was field-welded to the unit overhang with a 3/8" fillet weld. The unit base rail was also welded to the curb with 3" long by 3/8" fillet welds spaced approximately 6" apart.



Overall view of UUT2



UUT3

Test Report Number: 35176-2001

Manufacturer: York (Johnson Controls)

Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

Model Number: YV28E3DJ5S3LGLC1G

Product Construction Summary: Powder coated carbon steel enclosure

Options / Component Summary: Refrigerant compressors, blower motor, outdoor motor, condenser coil, evaporator coil, service valves, VFDs, economizer, gas heater, filters, flow control valve, condensate overflow switch, handle disconnect switch, nonfusible disconnect switch, differential pressure switch, smoke detector sensor, circuit board, economizer controller, direct spark ignition module

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

		UUT Pro	operties						
	Dim	ensions (in)	Lowest Natural Frequency (Hz)						
Operating Wei	ght (lb)	Depth · · ·	Width	Height	Front-Back	Side-Side	Vertical		
5,002		5,002 180 90 70		70	6.2	8.1	6.4		
~		Seismic Test	Parameters						
Test Criteria	Sds (g)			Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g		
ICC-ES AC156	1.40	1.0	1.5	2.24	1.68	0.93	0.37		
	5,002 Test Criteria	Operating Weight (lb) 5,002 Test Criteria Sds (g)	Dimensions (in) Operating Weight (lb) Depth 5,002 180 Seismic Test Test Criteria Sds (g)	Operating Weight (lb) Depth Width 5,002 180 90 Seismic Test Parameters Test Criteria Sds (g) z/h	Dimensions (in) Operating Weight (lb) Depth Width 5,002 180 90 70 Seismic Test Parameters Test Criteria Sds (g) z/h Ip Aflx-H (g)	Dimensions (in) Lowest N Operating Weight (lb) Depth Width Height Front-Back 5,002 180 90 70 6.2 Seismic Test Parameters Test Criteria Sds (g) z/h Ip Aflx-H (g) Arig-H (g)	Dimensions (in) Lowest Natural Freque Operating Weight (lb) Depth Width Height Front-Back Side-Side 5,002 180 90 70 6.2 8.1 Seismic Test Parameters Test Criteria Sds (g) z/h Ip Aflx-H (g) Arig-H (g) Aflx-V (g)		

Unit Mounting Description:

UUT3 was mounted to a VMC P-6000S non-isolated roof curb. Each curb was mounted to the shake table interface fixture with eight (8) holddown stanchions. There were two hold-downs on the rail on one end of the unit, spaced approximately 72" on-center. There were three holddowns on each long side of the unit, spaced approximately 60" on center. Each hold-down was attached to the fixture with two (2) ½"-13 SAE grade 5 hex bolts, washers, and lock washers torqued to 75 ft-lb, for a total of sixteen (16) bolts. Corresponding with each hold-down location, there was a slotted lock down angle and ½"-13 SAE grade 2 hex bolt, washer and nut, attaching the unit to the curb. Each angle was field-welded to the unit overhang with a 3/8" fillet weld. The unit base rail was also welded to the curb with 3" long by 3/8" fillet welds spaced approximately 6" apart.



Overall view of UUT3



UUT4

Test Report Name: Report JID 20-01938 Rev1 UUT4

Manufacturer: York (Johnson Controls)

Product Line: Select / Sun Select / OmniSelect / Relia Select / Optimum Select

Model Number: YH50E1DV2R4L8LD7M

Product Construction Summary: Powder coated carbon steel enclosure

Options / Component Summary: Refrigerant compressors, blower motor, outdoor motor, condenser coil, evaporator coil, service valves, VFDs, economizer, gas heater, filters, flow control valve, condensate overflow switch, handle disconnect switch, nonfusible disconnect switch, differential pressure switch, smoke detector sensor, economizer controller, I/O board

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

			UUT Pro	operties				
Tested unit		Dim	ensions (in)	WWW	Lowest Natural Frequency (Hz)			
Tested unit	Operating We	ight (lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical
UUT4	8,800		232 90		72	13.0	5.0	8.8
			Seismic Test	Parameters	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
Building Code	Test Criteria	Sds (g)	Oz/hP-()74p	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2022	ICC-ES AC156	1.40	1.0	1.5	2.24	1.68	0.93	0.37
		N A Y A X X		•			•	

Unit Mounting Description:

UUT4 was mounted to a VMC P-6000S non-isolated roof curb. The curb was mounted to the shake table interface fixture with eight (8) holddown stanchions. There were two hold-downs on the rail on one end of the unit, spaced approximately 72" on-center. There were three holddowns on each long side of the unit, spaced approximately 72" on-center. Each hold-down was attached to the fixture with two (2) ½"-13 SAE grade 5 hex bolts, washers, and lock washers torqued to 75 ft-lb, for a total of sixteen (16) bolts. Corresponding with each hold-down location, there was a slotted lock down angle and ½"-13 SAE grade 2 hex bolt, washer and nut torqued to 75 ft-lb, attaching the unit to the curb. Each angle was field-welded to the unit overhang with a 3/8" fillet weld. The unit base rail was also welded to the curb with 3" long by 3/8" fillet welds spaced approximately 6" apart.



Overall view of UUT4