



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0666

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Rheem

Manufacturer's Technical Representative: Cliff Waldron

Mailing Address: 5600 Old Greenwood Road, Fort Smith, AR 72908

Telephone: (479) 646-4311

Email: Cliff.Waldron@Rheem.com

Product Information

Product Name: Air Conditioning Units

Product Type: Air Conditioning Units - Packaged

Product Model Number: Renaissance Packaged AHU

General Description: Renaissance Packaged Air Conditioner, Heat Pump, and Gas/Electric Heat Units

Mounting Description: Rigid, Floor Mounted

Tested Seismic Enhancements: None

DATE: 08/04/2021

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Contact Person: Galen Reid

Mailing Address: 233 SW Wilson Suite 101, Bend, OR 92201

Telephone: (844) 787-0200

Email: greid@structint.com

Title: Manager





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.
Name: Andrew Coughlin California License Number: S6082
Mailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 95138-1025
Telephone: (415) 635-8461 Email: acoughlin@structint.com

Certification Method

GR-63-Core ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
 Other (Please Specify): _____

Testing Laboratory

Company Name: UL LLC
Contact Person: Chris Rose
Mailing Address: 12 Laboratory Drive, Research Triangle NC 27709-3995
Telephone: (919) 549-1713 Email: Christopher.S.Rose@ul.com





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.5 @ 2.0g, z/h =1; 1.13 @ 2.5g, z/h=0

SDS (Design spectral response acceleration at short period, g) = 2.0g @ z/h=1; 2.50g @ z/h=0

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

OSHPD Approval (For Office Use Only) - Approval Expires on 12/31/2025

Date: 8/4/2021

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = See Above z/h = See Above

Condition of Approval (if applicable): DATE: 08/04/2021



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1700876-CR-001-R0



Manufacturer: Rheem	TABLE 1
Model Line: Renaissance Package AHUs	

Certified Product Construction Summary:
Carbon steel sheet metal enclosure with formed carbon steel base rails (G90U CS).

Certified Options Summary:

Mounting Configuration:
Base mounted - rigid
Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2019 **Seismic Certification Limits:** $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 2.5 g$ $z/h = 0.0$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Rheem Renaissance Packaged Air Conditioner	RACDZR090XXXXXXXX	59.5	90	49.25	920		Extrap.
	RACDZS090XXXXXXXX	59.5	90	49.25	920		Extrap.
	RACDZS090ACG302DA	59.5	90	49.25	920	Config. w/ electric heat	1
	RACDZT090XXXXXXXX	59.5	90	59.25	980		Interp.
	RACDZR102XXXXXXXX	59.5	90	59.25	980		Interp.
	RACDZS102XXXXXXXX	59.5	90	59.25	980		Interp.
	RACDZT102XXXXXXXX	59.5	90	59.25	980		Interp.
	RACDZR120XXXXXXXX	59.5	90	59.25	980		Interp.
	RACDZS120XXXXXXXX	59.5	90	59.25	980		Interp.
	RACDZT120XXXXXXXX	59.5	90	59.25	980		Interp.
	RACDZS150XXXXXXXX	59.5	90	49.25	993		Extrap.
	RACDZT150XXXXXXXX	59.5	90	59.25	980		Interp.
	RACDZT150ACF000CA	59.5	90	59.25	980	Config. w/ electric heat	2
Rheem Renaissance Packaged Heat Pump	RHPDZR090XXXXXXXX	59.5	90	49.25	775		Extrap.
	RHPDZS090ADA000AB	59.5	90	49.25	775		3
	RHPDZR102XXXXXXXX	59.5	90	59.25	820		Interp.
	RHPDZS102XXXXXXXX	59.5	90	59.25	820		Interp.
	RHPDZT102XXXXXXXX	59.5	90	59.25	820		Interp.
	RHPDZR120XXXXXXXX	59.5	90	59.25	820		Interp.
	RHPDZS120XXXXXXXX	59.5	90	59.25	820		Interp.
	RHPDZT120ACA000AB	59.5	90	59.25	820		4

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1700876-CR-001-R0



Manufacturer: Rheem
Model Line: Renaissance Package AHUs

TABLE 1.1

For Reference Only

R	AC	D	ZT	090	A	C	A	15	2	A	A	***		
1	23	4	56	789	10	11	12	13 14	15	16	17	18	19	20
1—Brand R = Rheem			11—Voltage C = 3 phase 208-230/60 D = 3 phase 460/60 Y = 3 phase 575/60			16—Control A = Non communicating B = Comfort Alert/Phase Monitor C = Clear Control D = Clear Control & Comfort Alert								
2, 3—Unit Type AC = Package AC			12—Drive A = belt low static B = belt med static C = belt high static F = belt VFD low static G = belt VFD med static H = belt VFD high static			17—Minor series A								
4—Cabinet Type D = Small Commercial			13, 14—Heat Capacity 00 = No Heat 10 = 10kw 15 = 15kw 20 = 20kw 30 = 30kw 40 = 40kw			18, 19, 20—Option Code See next page								
5, 6—Series ZT ¹ = Tier 1 (Commercial Prestige® Series) ZS ² = Tier 2 (Commercial Classic Plus® Series) ZR ³ = Tier 3 (Commercial Classic® Series)			15—Number of stages 0 = no stages 1 = 1 stage 2 = 2 stage											
7, 8, 9—Capacity 090 = 7.5 ton 102 = 8.5 ton 120 = 10 ton 150 = 12.5 ton ⁴			10—Major series A											

R	GE	D	ZT	090	A	C	A	15	2	A	A	***		
1	23	4	56	789	10	11	12	13 14	15	16	17	18	19	20
1—Brand R = Rheem			11—Voltage C = 3 phase 208-230/60 D = 3 phase 460/60 Y = 3 phase 575/60			16—Control A = Non communicating B = Comfort Alert/Phase Monitor C = Clear Control D = Clear Control & Comfort Alert								
2, 3—Unit Type GE = Package Gas Electric			12—Drive A = belt low static B = belt med static C = belt high static F = belt VFD low static G = belt VFD med static H = belt VFD high static			17—Minor series A								
4—Cabinet Type D = Small Commercial			13, 14—Heat Capacity 15 = 150k 20 = 205k ⁵ 22 = 225k ⁶			18, 19, 20—Option Code See page 14								
5, 6—Series ZT ¹ = Tier 1 (Commercial Prestige® Series) ZS ² = Tier 2 (Commercial Classic Plus® Series) ZR ³ = Tier 3 (Commercial Classic® Series)			15—Heat Configuration 2 = 2 stage B = 2 stage Stainless											
7, 8, 9—Capacity 090 = 7.5 ton 102 = 8.5 ton 120 = 10 ton 150 = 12.5 ton ⁴			10—Major series A											

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1700876-CR-001-R0



Manufacturer: Rheem
Model Line: Renaissance Package AHUs

TABLE 1.1

For Reference Only

1	2, 3	4	5, 6	7, 8, 9	10	11	12	13	14	15	16	17	18	19	20
R	HP	D	ZT	090	A	C	F	15	2	A	B	***			
1	23	4	56	789	10	11	12	13	14	15	16	17	18	19	20

1—Brand R = Rheem	11—Voltage C = 3 phase 208/230/60 D = 3 phase 460/60 Y = 3 phase 575/60	16—Control A = Non communicating B = Comfort Alert/Phase Monitor C = Clear Control D = Clear Control & Comfort Alert
2, 3—Unit Type HP = Package Heat Pump	12—Drive A = belt low static B = belt med static C = belt high static F = belt VFD low static G = belt VFD med static H = belt VFD high static	17—Minor series B
4—Cabinet Type D = Medium Commercial	13, 14—Heat Capacity 00 = No Heat 10 = 10kw 15 = 15kw 20 = 20kw 30 = 30kw 40 = 40kw	18, 19, 20—Option Code See next page
5, 6—Series ZT1 = Tier 1 (Commercial Prestige® Series) ZS2 = Tier 2 (Commercial Classic Plus® Series)	15—Number of stages 0 = no stages 1 = 1 stage 2 = 2 stage	
7, 8, 9—Capacity 090 = 7.5 ton 102 = 8.5 ton 120 = 10 ton		
10—Major series A		

Notes:
1. ZT - can only select VFD drives (F, G, H) in character 12
2. ZS - can select any of the drive options in character 12



SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700876-CR-001-R0



Manufacturer: Rheem		Table Description: Coils					TABLE 2		
Model Line: Renaissance Package AHUs		Seismic Certification Limits: $S_{DS} = 2.0g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$					$I_p = 1.5$		
Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Fins/Inch	Material	Notes	UUT
		Depth	Width	Height					
Microchannel Reheat Coil (Sanhua)	RH06-1	0.5	37	30	8	18	Aluminum	Single stacked coil	1,5
	RH09	0.5	37	39	10	18			2,6
Microchannel Condenser Coil (Sanhua)	RH03-2	0.7	86	44	38	23	Aluminum	Single stacked coil	1
	RH03-2-T	0.7	86	44	45	23			Interp.
	RH03-3	0.8	85	44	47	23			Interp.
	RH03-3-T	0.8	85	44	53	23			Interp.
	RH04-4	1.0	85	44	62	23			5
	RH4-4-T	1.0	85	44	71	23			Interp.
	RH08	1.0	85	54	77	23			Interp.
	RH08-T	1.0	85	54	87	23			2,6
	RH700	1.0	81	44	55	16			3
	RH717	1.3	81	54	77	16			4
Microchannel Evaporator Coil (Sanhua)	RH500-1	1.0	86	41	25	20	Aluminum	Single stacked coil	1
	RH501	1.3	86	41	32	20			3,5
	RH505	1.3	42	51	38	20			4
	RH501-1	2.5	42	50	62	18			Interp.
	RH505-1	2.5	42	50	62	18			2,6

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700876-CR-001-R0



Manufacturer: Rheem	Table Description: Heating-Gas and Electric	TABLE 4
Model Line: Renaissance Package AHUs		

Building Code: CBC 2019	Seismic Certification Limits:	$S_{DS} = 2.0 g \quad z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.5 g \quad z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Electric Heat	Backer	RXJJ-DD10CP	7.4/9.1kW, 230V, 13 lbs., 20ga G90		Extrap.
		RXJJ-DD15CP	10.8/14.4kW, 230V, 13 lbs., 20ga G90		Extrap.
		RXJJ-DD20CP	14.9/19.8kW, 230V, 13 lbs., 20ga G90		Extrap.
		RXJJ-DD30CP	21.6/28.8kW, 230V, 13 lbs., 20ga G90		1
		RXJJ-DD40CP	29.7/39.6kW, 230V, 13 lbs., 20ga G90		Interp.
		RXJJ-DD10DNV	9.9kW, 460V, 13 lbs., 20ga G90		Interp.
		RXJJ-DD15DNV	14.4kW, 460V, 13 lbs., 20ga G90		Interp.
		RXJJ-DD20DNV	19.8kW, 460V, 13 lbs., 20ga G90		Interp.
		RXJJ-DD30DNV	28.8kW, 460V, 13 lbs., 20ga G90		Interp.
		RXJJ-DD40DNV	39.6kW, 460V, 13 lbs., 20ga G90	12.5 ton unit	2
Gas Heat	Rheem	AS-06069-02	6 burners, 6 tubes, aluminized steel, 52lb		Extrap.
		AS-06069-01	9 burners, 9 tubes, aluminized steel, 68lb	10 ton unit	5
		AS-06069-04	6 burners, 6 tubes, tubular stainless, 55lb		Interp.
		AS-06069-03	9 burners, 9 tubes, tubular stainless, 72lb	12.5 ton unit	6

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

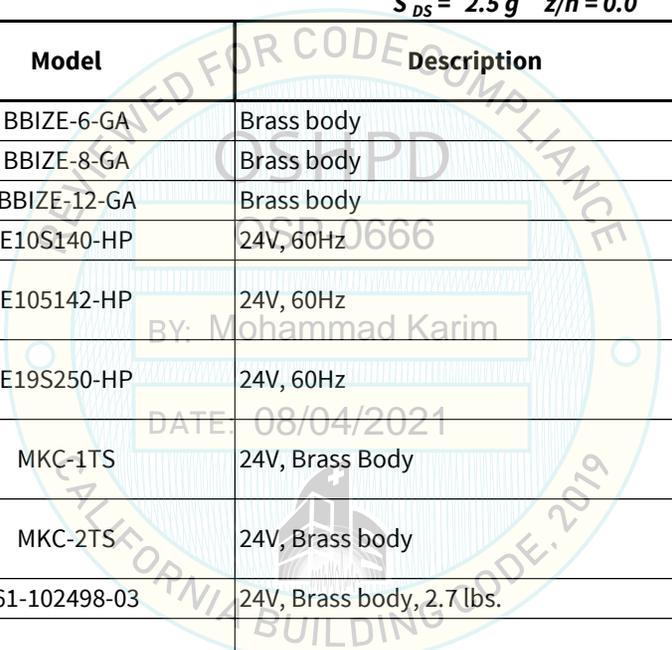
1700876-CR-001-R0



Manufacturer:	Rheem	Table Description: Valves	TABLE 5
Model Line:	Renaissance Package AHUs		

Building Code: CBC 2019 **Seismic Certification Limits:** $S_{DS} = 2.0g$ $z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 2.5g$ $z/h = 0.0$

Component Type	Manufacturer	Model	Description	Notes	UUT
Thermostatic Expansion Valve	Parker -Sporlan	BBIZE-6-GA	Brass body		3
		BBIZE-8-GA	Brass body		1,4
		BBIZE-12-GA	Brass body		2, 5, 6
Solenoid Valve	Parker -Sporlan	E10S140-HP	24V, 60Hz		1
		E105142-HP	24V, 60Hz		1, 2, 3, 4, 5, 6
		E19S250-HP	24V, 60Hz		2, 3, 4, 5, 6
Solenoid Coil	Parker -Sporlan	MKC-1TS	24V, Brass Body		1, 2, 3, 4, 5, 6
		MKC-2TS	24V, Brass body		2, 3, 4, 5, 6
Reversing Valve	SANHUA	61-102498-03	24V, Brass body, 2.7 lbs.		3,4



SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700876-CR-001-R0



Manufacturer:	Rheem	Table Description: Fan Motors	TABLE 8
Model Line:	Renaissance Package AHUs		

Building Code: CBC 2019	Seismic Certification Limits:	$S_{DS} = 2.0g \quad z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.5g \quad z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Condensor Motor	Genteq	5KCP39KFBD41AS	208/230V, 1/5HP, 13 lbs.		1
		5KCP39KFBD47S	380V, 1/5HP, 13 lbs.		Interp.
		5KCP39KFBD48S	460V, 1/5HP, 13 lbs.		Interp.
		5KCP39KFBD485	208/230V, 1/5HP, 13 lbs.		Interp.
		5KCP39SFWG12S	380V, 1/5HP, 20 lbs.		Extrap.
		5KCP39NFW85S	380V, 1/3HP, 16 lbs.		Interp.
		5KCP39MFU692BS	460V, 1/3HP, 14 lbs.		Interp.
		5KCP39NFU707AS	208/230V, 1/2HP, 16 lbs.		Interp.
		5KCP39SFU737S	460V, 1/2HP, 20 lbs.		3
		5KCP39RGU736S	208/230V, 3/4HP, 19 lbs.		4
	5KCP39UFWG13S	460V, 3/4HP, 23 lbs.		2	
	US Motors/Nidec	K55HXLST-2580	208/230V, 1/5HP, 13.8 lbs.		Extrap.
		K55HXLST-2581	460V, 1/5HP, 14.7 lbs.		Extrap.
		K55HXLST-2584	208/230V, 1/3HP, 14.8 lbs.		Extrap.
		K55HXLST-2586	380, 1/3HP, 14.8 lbs.		Extrap.
		K55HXLSS-2585	460V, 1/3HP, 19.3 lbs.		5
		K55HXLST-2588	208/230V, 1/2HP, 15 lbs.		Interp.
		K55HXLST-2589	460V, 1/2HP, 14.9 lbs.		Interp.
K55HXLST-2929		208/230V, 3/4HP, 19.3 lbs.		6	
K55HXLST-2942	460V, 3/4HP, 19.3 lbs.		Extrap.		

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700876-CR-001-R0



Manufacturer: Rheem	Table Description: VFD	TABLE 9
Model Line: Renaissance Package AHUs		

Building Code: CBC 2019	Seismic Certification Limits:	$S_{DS} = 2.0 g \quad z/h = 1.0$ $S_{DS} = 2.5 g \quad z/h = 0.0$	$I_p = 1.5$
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Component Type	Manufacturer	Model	Description	Notes	UUT
Variable Frequency Drives	Schneider Electric	RXRX-AC02	230V, 2HP, 1.8 lbs.	Low Static	2
		RXRX-AC03	230V, 3HP, 1.8 lbs.		Interp.
		RXRX-AC05	230V, 5HP, 3.1 lbs.		Interp.
		RXRX-CC02	230V, 2HP, 1.8 lbs.		Interp.
		RXRX-CC03	230V, 3HP, 1.8 lbs.	Medium Static	1
		RXRX-CC05	230V, 5HP, 3.1 lbs.		Interp.
		RXRX-AD02	480V, 2HP, 2.0 lbs.		Interp.
		RXRX-AD03	480V, 3HP, 2.0 lbs.		Interp.
		RXRX-AD05	480V, 5HP, 3.4 lbs.		Interp.
		RXRX-CD02	480V, 2HP, 2.0 lbs.		Interp.
		RXRX-CD03	480V, 3HP, 2.0 lbs.	Medium Static	5
		RXRX-CD05	480V, 5HP, 3.4 lbs.	High Static	6

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700876-CR-001-R0



Manufacturer: Rheem	Table Description: Transformers	TABLE 10
Model Line: Renaissance Package AHUs		

Building Code: CBC 2019	Seismic Certification Limits:	$S_{DS} = 2.0 g \quad z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.5 g \quad z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Extra Low Voltage Transformer	Zettler	AHR40310FM	1° 208/240 V, 2° 24V, 40VA		Extrap.
		AHR40310FM	1° 208/240 V, 2° 24V, 50VA		1
		AHRV75310FMQ2X	1° 208/240 V, 2° 24V, 75VA		Interp.
		AHR40314FM	1° 480 V, 2° 24V, 40VA		Interp.
		AHRV75358FMQ2X	1° 460/575 V, 2° 24V, 75VA		2
	Basler	BE300660	1° 208/240 V, 2° 24V, 75VA		Extrap.
		BE30204	1° 208/240 V, 2° 24V, 100VA		6
		BE300660	1° 400 V, 2° 24V, 75VA		Interp.
		BE302600	1° 460/575 V, 2° 24V, 75VA		Interp.
		BE302590	1° 400 V, 2° 24V, 100VA		Interp.
		BE300670	1° 460/575 V, 2° 24V, 100VA		5
Power Transformers	Basler	BE2669	1° 480/575 V, 2° 230V, 200VA		2, 6

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700876-CR-001-R0



Manufacturer: Rheem Model Line: Renaissance Package AHUs		Table Description: Optional Accessories		TABLE 11	
Building Code: CBC 2019		Seismic Certification Limits:		$S_{DS} = 2.0g \quad z/h = 1.0$ $S_{DS} = 2.5g \quad z/h = 0.0$	
				$I_p = 1.5$	
Component Type	Manufacturer	Model	Description	Notes	UUT
Pressure Limiting Devices	Sensata	PS80-01-1175	Auto Reset, max high pressure cutout 610+/-15		1,2,3,4,5,6
Louvered Hail Guard	Rheem	AE-106051-01	Carbon steel		1,3
		AE-106051-02	Carbon steel		4
Service Disconnect	Rheem	RXXR-BP01	Unfused Service Disconnect, 9 lbs.		6
Non-Powered Convenience Outlet	Rheem	RXXR-BN01	1.5 lbs.		1, 5, 6
Supply Smoke Detector	Rheem	RXXR-BSO3	Return Air Smoke Detector		5, 6
		RXXR-BSO4	Return and Supply Smoke Detector		5, 6
Economizers	MicroMetl	RXRD-01MDHAM3	Single Enthalpy (Horizontal) 55 lbs.		1
		RXRD-01MDHBM3	Single Enthalpy (Horizontal) DDC 55 lbs.		Interp.
		RXRD-01MDDAM3	Single Enthalpy (Downflow) 57 lbs.		5
		RXRD-01MDDBM3	Single Enthalpy (Downflow) DDC 57 lbs.		6
Power Exhaust	MicroMetl	RXXR-CDF01C	44 lbs.		Extrap.
		RXXR-CDF01D	48 lbs.		2
		RXXR-CDF01Y	48 lbs.		6
Power Convenience Outlet	Rheem	AS/42-106069-XX	Circuit breaker only - 10lbs		2
	Square D	AS/42-106154-XX	Circuit breaker with power convenience outlet, 50 lbs. ☒		6
Fresh Air Damper	MicroMetl	RXRF-ADA1	Motorized Fresh Air Damper, 12 lbs.		Extrap.
		RXRF-ADB1	Motorized Fresh Air Damper, 31 lbs.		2
		RXRF-ADC1	Motorized Fresh Air Damper, DDC, 31 lbs.		6

UNIT UNDER TEST (UUT) SUMMARY SHEET



1700876-CR-001-R0

Manufacturer: Rheem	UUT 1
Model Line: Renaissance Package AHU - Air Conditioner with Electric Heat	
Model Number: RACDZS090ACG Serial Number: F291900336	

Product Construction Summary:
Carbon steel sheet metal enclosure with formed carbon steel base rails (G90U CS).

Options/Subcomponent Summary:
Compressor (ZP76KCE-TF5), Electric Heat (RXJJ-DD30CP), Microchannel Reheat Coil (RH09), Microchannel Condenser Coil (RH03-2), Microchannel Evaporator Coil (RH500-1), Thermostatic Expansion Valve (BBIZE-8-GA), Solenoid Valve (E10S140-HP, E10S142-HP), Solenoid Coil (MKC-1TS), Fan-Propeller (12-00355), Fan -FC Centrifugal (152-15R), PTA Disposable Filter (54-17531-18), Condenser Motor (5KCP39KFBD41AS), Evaporator Fan Motors (56T17ORR40001A1), Variable Frequency Drives (RXRX-CC03), Extra Low Voltage Transformer (AHR40310FM), Economizers (RXRD-01MDHAM3), Single Point Electric Heat (RXJX-AB03), Non-Powered Convenience Outlet (RXRX-BN01), Pressure Limiting Devices (PS80-01-1175), Louvered Hail Guard (AE-106051-01), Economizers (RXRD-01MDHAM3)

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
920	59.5	90	49.25	10.62	7.81	28.76

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



Base mounted on 24" tall curb - rigid. Curb (Micometl : CRBW-RRCODWA) mounted to shake table with twelve (12) 1/2"-13 Grade 8 bolts. See next page for curb clip details.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1700876-CR-001-R0

Manufacturer: Rheem	UUT 2
Model Line: Renaissance Package AHU - Air Conditioner with Electric Heat	
Model Number: RACDZT150ACF	Serial Number: F161801250

Product Construction Summary:
Carbon steel sheet metal enclosure with formed carbon steel base rails (G90U CS).

Options/Subcomponent Summary:
Compressor (ZP134KCE-TF5*), Electric Heat (RXJJ-DD40DNV), Microchannel Reheat Coil (RH06-1), Microchannel Condenser Coil (RH08-T), Microchannel Evaporator Coil (RH505-1), Thermostatic Expansion Valve (BBIZE-12-GA), Solenoid Valve (E105142-HP, E19S250-HP), Solenoid Coil ((MKC-1TS, MKC-2TS), Fan-Propeller (TNT-2403-28), Fan - FC Centrifugal (152-15R), PTA Disposable Filter (54-42541-04), Condensor Motor (5KCP39UFWG13S), Evaporator Fan Motor (P63MZFFL-1549), Variable Frequency Drives (RXRX-AC02), Extra Low Voltage Transformer (AHRV75358FMQ2X), Power Exhaust (RXRX-CDF01D), Power Convenience Outlet (AS/42-106069-XX), Single Point Electric Heat (RXJX-AC04), Fresh Air Damper (RXRF-ADB1), Pressure Limiting Devices (PS80-01-1175), Power Transformer (BE2669)

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
980	59.5	90	59.25	7.49	11.45	25.76

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



Base mounted on 24" tall curb - rigid. Curb (Micometl : CRBW-RRCODWA) mounted to shake table with twelve (12) 1/2"-13 Grade 8 bolts. See next page for curb clip details.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1700876-CR-001-R0

Manufacturer: Rheem	UUT 3
Model Line: Renaissance Package AHU - Heat Pump	
Model Number: RHPDZS090ADA Serial Number: F181901167	

Product Construction Summary:
Carbon steel sheet metal enclosure with formed carbon steel base rails (G90U CS).

Options/Subcomponent Summary:
Microchannel Condenser Coil (RH700), Microchannel Evaporator Coil (RH501), Compressor -Scroll (ZP76KCE-TFD), Thermostatic Expansion Valve (BBIZE-6-GA), Solenoid Valve (E105142-HP, E19S250-HP), Solenoid Coil (MKC-1TS), MKC-2TS), Reversing Valve (61-102498-03), Fan -Propeller(12-00355), Fan -FC Centrifugal(152-15R), PTA Disposable Filter(54-17531-18), Condensor Motor (5KCP39SFU737S), Evaporator Fan Motors (P63TYFFK-1548), Pressure Limiting Devices (PS80-01-1175), Louvered Hail Guard (AE-106051-01)

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
775	59.5	90	49.25	8.84	10.15	24.82

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



Base mounted on 24" tall curb - rigid. Curb (Micometl : CRBW-RRCODWA) mounted to shake table with twelve (12) 1/2"-13 Grade 8 bolts. See next page for curb clip details.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1700876-CR-001-R0

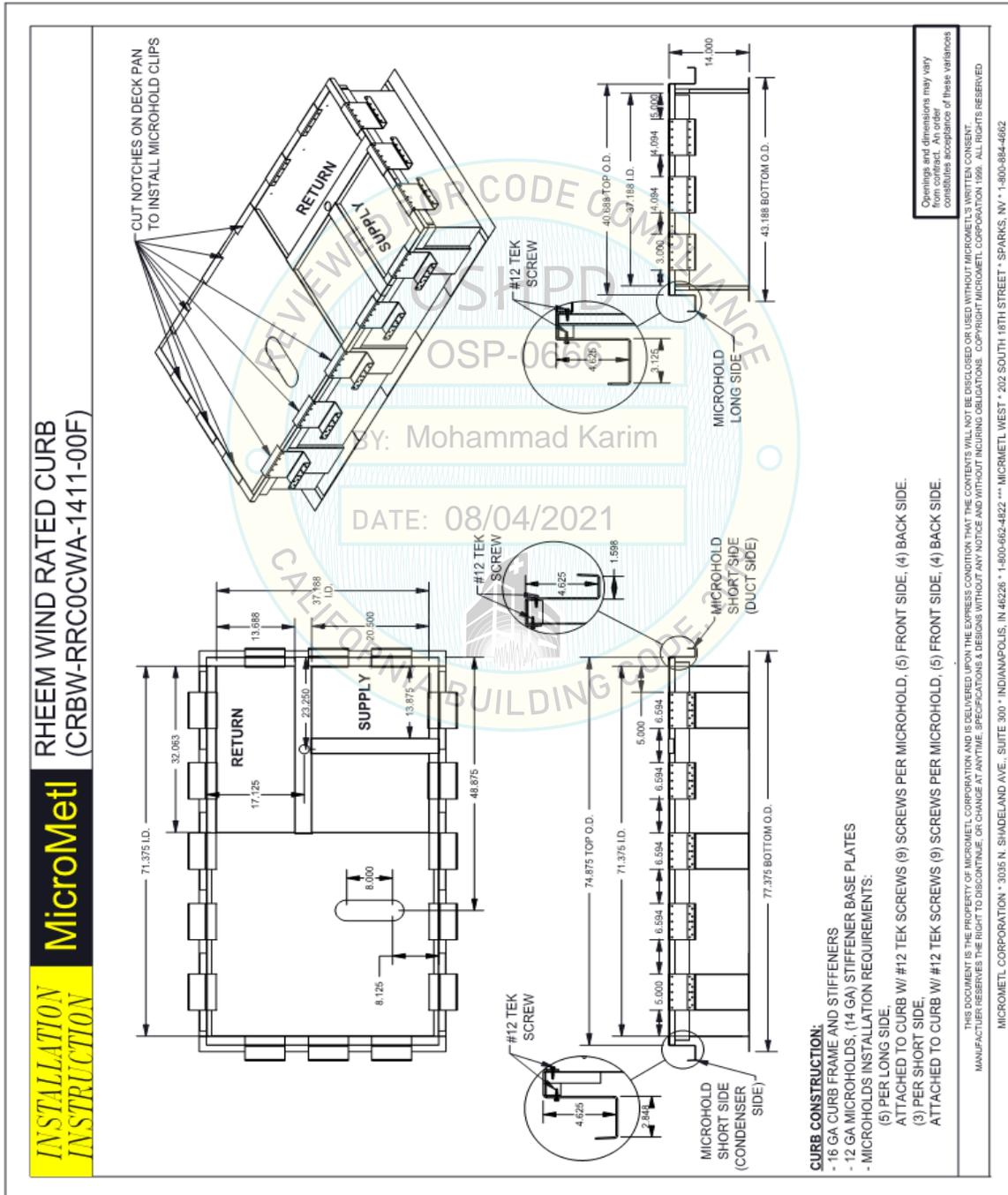


Manufacturer: Rheem
Model Line: Renaissance Package AHU - Heat Pump
Model Number: RHPDZS090ADA

Serial Number: F181901167

UUT 3

Curb Mounting Details:



UNIT UNDER TEST (UUT) SUMMARY SHEET

1700876-CR-001-R0



Manufacturer: Rheem	UUT 4
Model Line: Renaissance Package AHU - Heat Pump	
Model Number: RHPDZS120ACA Serial Number: F181901187	

Product Construction Summary:
Carbon steel sheet metal enclosure with formed carbon steel base rails (G90U CS).

Options/Subcomponent Summary:
Microchannel Condenser Coil (RH717), Microchannel Evaporator Coil (RH505), Compressor -Scroll (ZP104KCE-TF5), Thermostatic Expansion Valve (BBBIZE-8-GA), Solenoid Valve (0E105142-HP), Solenoid Valve (E105142-HP, E19S250-HP), Solenoid Coil (MKC-1TS), Solenoid Coil (MKC-2TS), Reversing Valve (61-102498-03), Fan -Propeller(TNT-2403-28), Fan -FC Centrifugal (152-15R), PTA Disposable Filter(54-42541-04), Condensor Motor (5KCP39RGU736S), Evaporator Fan Motors (P63TYFFK-1548), Pressure Limiting Devices (PS80-01-1175), Louvered Hail Guard (AE-106051-02)

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
820	59.5	90	59.25	7.87	8.09	18.76

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



Base mounted on 24" tall curb - rigid. Curb (Micometl : CRBW-RRCODWA) mounted to shake table with twelve (12) 1/2"-13 Grade 8 bolts. See next page for curb clip details.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1700876-CR-001-R0

Manufacturer: Rheem	UUT 5
Model Line: Renaissance Package AHU - Gas Electric with Gas Heat	
Model Number: RGEDZT120ADG Serial Number: F181901181	

Product Construction Summary:
Carbon steel sheet metal enclosure with formed carbon steel base rails (G90U CS).

Options/Subcomponent Summary:
Microchannel Reheat Coil (RH06-1), Microchannel Condenser Coil (RH04-4), Microchannel Evaporator Coil (RH501), Compressor (ZP104KCE-TFD), Gas Heat (AS-06069-01), Thermostatic Expansion Valve (BBIZE-12-GA), Solenoid Valve (E105142-HP & E19S250-HP), Solenoid Coil (MKC-1TS & MKC-2TS), Fan - Propeller (12-00355), Fan - FC Centrifugal (152-15R), PTA Disposable Filter (54-17531-18), Condensor Motor (K55HXLSS-2585), Evaporator Fan Motors (P63MZFFL-1549), Variable Frequency Drives (RXRX-CD03), Extra Low Voltage Transformer (BE300670), Economizers (RXRD-01MDDAM3), UnPowered Convenience Outlet (RXRX-BN01), Supply Smoke Detector (RXRX-BSO3, RXRX-BSO4), Pressure Limiting Devices (PS80-01-1175)

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1070	59.5	90	49.25	9.94	8.64	26.44

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



Base mounted on 24" tall curb - rigid. Curb (Micometl : CRBW-RRCODWA) mounted to shake table with twelve (12) 1/2"-13 Grade 8 bolts. See next page for curb clip details.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1700876-CR-001-R0



Manufacturer: Rheem	UUT 6
Model Line: Renaissance Package AHU - Gas Electric with Gas Heat	
Model Number: RGEDZT150ACG Serial Number: F082001199	

Product Construction Summary:
Carbon steel sheet metal enclosure with formed carbon steel base rails (G90U CS).

Options/Subcomponent Summary:
Microchannel Reheat Coil (RH09), Microchannel Condenser Coil (RH08-T), Microchannel Evaporator Coil (RH505-1), Compressor (ZP134KCE-TFD*), Gas Heat (AS-06069-03), Thermostatic Expansion Valve (BBIZE-12-GA), Solenoid Valve (E105142-HP & E19S250-HP), Solenoid Coil (MKC-1TS & MKC-2TS), Fan - Propeller (TNT-2403-28), Fan - FC Centrifugal (152-15R), PTA Disposable Filter (54-42541-04), Condensator Motor (K55HXRMK-2929), Evaporator Fan Motors (184TTDW16346), Variable Frequency Drives (RXRX-CD05), Extra Low Voltage Transformer (BE30204), Power Transformers (BE2669), Economizers (RXRD-01MDDBM3), UnPowered Convenience Outlet (RXRX-BN01), Power Exhaust (RXRX-CDF01Y), Power Convenience Outlet (AS/42-106154-XX), Supply Smoke Detector (RXRX-BSO3, RXRX-BSO4), Fresh Air Damper (RXRF-ADC1), Service Disconnect (RXRX-BP01), Pressure Limiting Devices (PS80-01-1175), Louvered Hail Guard (AE-106051-02)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1305	59.5	90	59.25	8.10	8.08	25.02

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0					

Test Mounting Details:



Base mounted on 14" tall curb - rigid. Curb (Micometl : CRBW-RRCODWA) mounted to shake table with twelve (12) 1/2"-13 Grade 8 bolts. See next page for curb clip details.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

