

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY					
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0806					
HCAI Special Seismic Certification Preapproval (OSP)						
Type: X New Renewal						
Manufacturer Information						
Manufacturer: Johnson Controls						
Manufacturer's Technical Representative: Jerry Laumann						
Mailing Address: 5000 Renaissance Drive, New Freedom, PA 17349						
Telephone: (443) 789-0458 Email: gerald.w.laumanr	n@jci.com					
Product Information						
Product Name: Chillers	1					
Product Type: Chillers - Air Cooled	2					
Product Model Number: York YMAE and Quantech QTH1 with Single Point	Power Panels					
General Description: Air-to-Water Inverter Scroll Heat Pumps. Piland						
Mounting Description: See Certified Product Tables, See Certified Product	t Tables					
Tested Seismic Enhancements: None DATE: 05/03/2024	No.					
	00					
Applicant Information						
Applicant Company Name: Pre Compliance	DD1					
Contact Person: Andrew Coughlin						
Mailing Address: 36 SW Wall Street, Bend, OR 97702						
Telephone: (415) 635-8461 Email: Andy@go-pre.co	m					
Titley, Driveline L. Freedower						

Title: Principal Engineer



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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: PRE COMPLIANCE
Name: Andrew Coughlin California License Number: S6082
Mailing Address: 36 SW Wall Street, Bend, OR 97702
Telephone: (415) 635-8461 Email: Andy@go-pre.com
Certification Method
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):
FOR CODE CO
Testing Laboratory
Company Name: Pacific Earthquake Engineering Research Center (PEER)
Contact Person: Amarnath Kasalanati
Mailing Address: 1301 South 46th St., Bldg. 420, Richmond CA 947201729
Telephone: (510) 642-3437 Email: Amarnath1@berkeley.edu
C DATE: 05/03/2024
DATE: 05/03/2024
TVIA
BUILDING



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Seismic Parameters

Desig	n Basis of Equipment or Components	(Fp/Wp) =	4.50 at z/h=1.0 (Isolat	ted) and 1.70	at z/h = 0.0 (Isolated)					
	SDS (Design spectral response accele	eration at sho	ort period, g) = 2.0 at z	z/h=1.0, 2.26	at z/h =0					
	ap (Amplification factor) =	2.5								
	Rp (Response modification factor) =	2.0								
	Ω_0 (System overstrength factor) =	2.0	2.0							
	Ip (Importance factor) =	1.5								
	z/h (Height ratio factor) =	1 and 0								
	Natural frequencies (Hz) =	See Attach	ment							
	Overall dimensions and weight =	See Attach	mentODF							
HCAI	Approval (For Office Use Only) -	Approval	Expires on 05/06/20	30						
Date:	5/3/2024		DSP-0806	R						
Name	: Timothy Piland			Title:	Senior Structural Engineer					
Speci	al Seismic Certification Valid Up to: SE	os (g) = <u>See</u>	e Above	z/h =	See Above					
Condi	ion of Approval (if applicable):	DATE	: 05/03/2024							
		DRNIA 6	PUILDING CO	DF.						





STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



Pre No. CC231362-01-R0

Manufacturer: Johnson Controls **Product Type:** Model Line:

Chillers - Air Cooled York YMAE Air-Cooled Modular Chiller

Seismic Parameters

Building Codes

S_{DS} = 2.00g for z/h=1 I_p = 1.5 S_{DS} = 2.26g for z/h=0

CBC 2022

TABLE 1

Base Mounted - Rigid Mounting Configuration:

Construction Summary

Carbon Steel

Options Summary Two-pipe or four-pipe configurations

Model Line	Model		Dimensio		Wt.	Notes	UUT
York YMAE Air-to-	YMAE0035PJP	D 88.2	W 47.2	Н 99	(lb) 2475	Two-Pipe Model	2
Water Inverter						7	_
Scroll Heat Pumps	YMAE0035PJS	88.2	47.2)8 9 6	2596	Four-Pipe Model	Interp.
Quantech QTH1 Air-to-Water	QTH10 <mark>035P</mark> JP	88.2	47.2 mothy	99 J. Pila	2475 nd	Two-Pipe Model	Interp.
Inverter Scroll Heat Pumps	QTH10 <mark>035P</mark> JS	88.2	47.2	99 93/202	2596	Four-Pipe Model	Interp.
	·P				.4		
		1000000	Û	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	378 7 7		
	4			S RAN			
		AE	UTI	DING	0		



Manufacturer: Johnson Controls **Product Type:** Chillers - Air Cooled Model Line: York YMAE Air-Cooled Modular Chiller

Seismic Parameters

Building Codes

S_{DS} = 2.00g for z/h=1 I_p = 1.5 S_{DS} = 2.26g for z/h=0

CBC 2022

TABLE 2

Mounting Configuration: **Base Mounted - Isolated**

Construction Summary

Carbon Steel

Options Summary Two-pipe or four-pipe configurations

Model Line	Model	Max. I	Dimensio	ons (in)	Wt.	Notes	υυτ
	Model	D	W	Н	(lb)	Notes	
York YMAE Air-to- Water Inverter	YMAE0035PJP	88.2	47.2	99	2475	Two-Pipe Model	Interp.
Scroll Heat Pumps	YMAE0035PJS	88.2	47.2	08 99 6	2596	Four-Pipe Model (tested spring isolated)	1
Quantech QTH1 Air-to-Water	QTH10035PJP	88.2	47.2 mothy	99 J. Pila	2475	Two-Pipe Model Identical to YMAE0035PJP	Interp.
Inverter Scroll Heat Pumps	QTH10035PJS	88.2	47.2	99 03/202	2596	Four-Pipe Model	Interp.
		PATE	. 05/	03/202	4		
				1999 (1997) 1997 (1997)			
					607		
			UIL	DIVIC			
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		_					



TABLE 3

Manufacturer: Johnson Controls Product Type: Chillers - Air Cooled Model Line: York YMAE Air-Cooled Modular Chiller

Seismic Parameters

Building Codes

S_{DS} = 2.00g for z/h=1 I_p = 1.5 S_{DS} = 2.26g for z/h=0

CBC 2022

Mounting Configuration: Wall Mounted - Rigid

Construction Summary

Carbon Steel Enclosure

Options Summary Single point power for 2 to 6 modules

Model Line	Model	Max. D	Dimensio	ons (in) H	Wt. (lb)	Notes	UUT
	ATC-A1S-000	12	24	-30	103	2 module power panel	Interp.
Air Treatment	ATC-B1S-000	12	24	30	103	3 module power panel	Interp.
Corporation Single	ATC-C1S-000	12	24	30	103	4 module power panel	3b
Point Power Panels	ATC-D1S-000	12	24-	08300	113	5 module power panel	Interp.
Falleis	ATC-E1S-000	12	24	30	113	6 module power panel	4b
		BY: Ti	mothy	J. Pila	nd		
		DATE	05/	03/202	2		
	P				000000		
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Manufacturer: Johnson Controls Product Type: Chillers - Air Cooled Model Line: York YMAE Air-Cooled Modular Chiller

Seismic Parameters

Building Codes

S_{DS} = 2.00g for z/h=1 S_{DS} = 2.26g for z/h=0

CBC 2022

TABLE 4

Mounting Configuration: Wall Mounted - Isolated

Construction Summary

Carbon Steel Enclosure

Options Summary Single point power for 2 to 6 modules

I_p = 1.5

Model Line	Model	Max. D	Dimensi W	ons (in) H	Wt. (lb)	Notes	UUT
	ATC-A1S-000	12	24	-30	(01) 103	2 module power panel	Interp.
Air Treatment	ATC-B1S-000	12	24	30	103	3 module power panel	Interp.
Corporation Single	ATC-C1S-000	12	24	30	103	4 module power panel	3a
Point Power	ATC-D1S-000	12	05_{24}^{-1}	0830	113	5 module power panel	Interp.
Panels	ATC-E1S-000	12	24	30	113	6 module power panel	4a
			imothy				
				<u>5. 1 IIa</u>			
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		<u>ANNA</u>	Î VÎ	THEFT -	STOR		
	(P)						
		VIA I		A MARINE	0		
			JUILI	DING			



UUT	Model	Test Report	Test Laboratory	S _{DS}	z/h	I _p
1	YMAE0035PJS	TR231362-01-R1	Pacific Earthquake Engineering Research Center	2.00 2.26	1 0	1.5
2	YMAE0035PJP	TR231362-01-R1	Pacific Earthquake Engineering Research Center	2.00 2.47	1 0	1.5
3a	ATC-C1S-000	TR231362-01-R1	Pacific Earthquake Engineering Research Center	2.00 2.26	1 0	1.5
3b	ATC-C1S-000	TR231362-01-R1	Pacific Earthquake Engineering Research Center	2.00 2.47	1 0	1.5
4a	ATC-E1S-000	TR231362-01-R1	Pacific Earthquake Engineering Research Center	2.00 2.26	1 0	1.5
4b	ATC-E1S-000	TR231362-01-R1	Pacific Earthquake Engineering Research Center	2.00 2.47	1 0	1.5
	l l l l l l l l l l l l l l l l l l l		- TZ			
	à	OSP-0806	L.			
		BY: Timothy J. Pila	nd O			
		DATE: 05/03/202	24			
			2			
		PNIA	CODT			
		BUILDING				
Notes:						

Pre Compliance



		UUT	1	Test	Repo	rt# TR2	231362-	01-R1		
Manufacturer:	Johnson Controls			High	est Pa	ssed Te	est Leve	el		
Model Line:		oled Modular Chiller	S _{DS}	z/h	l _p	A _{flx-h}	A_{rig-h}	A _{flx-v}	A _{rig-v}	
Model Number: Serial Number:	YMAE0035PJS 50532M20348606	3	2.00 2.26	1 0	1.5	3.20	2.40	1.51	0.60	
Di	mensions/Weight	S		Lowest	Natur	al Frequ	uency (Hz)		
Depth (in) Width		Weight (lbs.)	Front-B	ack	Sic	de-Side		Vertical		
88.2 47	.2 99	2,596	4.0			2.4		8.6		
Building Code	es Te	est Criteria		Constr	uction	/Option	Summ	ary		
CBC 2022	IC	C-ES AC156		10.	Cark	oon Stee	el			
	- i									
		UUT Moi	unting							
			Pro Detaile							

UUT Mounting Details:

UUT base mounted-isolated on four (4) Vibrasystems SRMT-1-407 spring isolators with 5/8" Grade 8 top bolt. Each isolator mounted to shake table with two (2) 1/2" Grade 8 bolts and washers.



		UUT	2	Test	: Repo	ort# TR2	231362-	01-R1		
Manufacturer: Jo	hnson Controls			High	est Pa	ssed Te	est Leve	el		
		oled Modular Chiller	S _{DS}	z/h	۱ _p	A _{flx-h}	A_{rig-h}	A _{flx-v}	\mathbf{A}_{rig-v}	
Model Number: YN Serial Number: 50	/AE0035PJP /532M20348606		2.00 2.47	1 0	1.5	3.20	2.40	1.65	0.66	
Serial Number. 50	55210120546000)	2.47	0						
Dimer	sions/Weight	S		Lowest	Natur	al Freq	uency (Hz)		
Depth (in) Width (in	- · · ·	Weight (lbs.)	Front-B	ack	Sic	de-Side		Vertic		
88.2 47.2	99	2,475	7.9			5.5		13.0)	
Building Codes	Te	est Criteria		Constr	uction	/Option	Summ	ary		
CBC 2022 ICC-ES AC156 Carbon Steel										
		UUT Mounti		:						

UUT Mounting Details:

Unit mounted rigidly to the shake table plate with four (4) 1/2" Grade 8 hex head bolts and flat washers.



		UUT :	T 3a Test Report# TR231362-01-R1							
Manufacturer: Jo	hnson Controls			High	est Pa	ssed Te	est Leve	el		
		oled Modular Chiller	S _{DS}	z/h	l _p	A _{flx-h}	A_{rig-h}	A _{flx-v}	A _{rig-v}	
Model Number:ASerial Number:49	5401-0001-001		2.00 2.26	1 0	1.5	3.20	2.40	1.51	0.60	
Dime	nsions/Weights	S		Lowest	t Natur	al Freq	uency (Hz)		
Depth (in) Width (in) Height (in)	Weight (lbs.)	Front-B	ack		de-Side		Vertio		
12 24	30	103	N/A			N/A		N/A		
Building Codes	Te	est Criteria		Constr	uction	/Option	Summ	ary		
CBC 2022	IC	C-ES AC156		Carbon	Steel E	Enclosur	e (NEMA	4)		
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		UUT Μοι								
	R	OSP-08	000		m					

UUT Mounting Details:

UUT mounted to wall fixture with (4) 5/16"-18 Grade 8 bolts and washers.

Wall fixture base mounted-isolated on four (4) Mason SLFADA200-2-B-900 spring isolators with 5/8" Grade 8 top bolts. Each isolator mounted to shake table steel plate with four (4) 5/8" Grade 8 bolts and washers.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.



		UUT :	3b	Test	t Repo	ort# TR2	231362-	01-R1	
Manufacturer:	Johnson Controls				-	ssed Te			
Model Line: Model Number:		oled Modular Chiller	S_{DS} 2.00	z/h 1	l _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
Serial Number:	495401-0001-001		2.00	0	1.5	3.20	2.40	1.65	0.66
			_		Notur			11-)	_
Depth (in) Width	mensions/Weights (in) Height (in)	Weight (lbs.)	Front-B			al Frequ de-Side	uency (HZ) Vertic	cal
12 24	· · · · · · · · · · · · · · · · · · ·	103	N/A		•	N/A		N/A	
Building Code	es Te	est Criteria		Constr	uction	/Option	Summ	ary	
CBC 2022		C-ES AC156	N	~		Enclosure			
		S HC					·	·	
		UUT Mot	unting:						
			Pri Dataila						

UUT Mounting Details:

Wall fixture base mounted - rigid to shake table plate. Unit was mounted to wall fixture with four (4) 5/16"-18 Grade 8 bolts and washers.



	UUT 4	4a Test Report# TR231362-01-R1							
Manufacturer: Johnson C Model Line: York YMA Model Number: ATC-E1S-	E Air-Cooled Modular Chiller	S _{DS} 2.00	Highe z/h 1	l _p	ssed Te A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}	
Serial Number: 495402-0		2.26	0	1.5	3.20	2.40	1.51	0.60	
Dimensions/	Weights	Lowest Natural Frequency (Hz)							
Depth (in) Width (in) Heig	Front-Back Side-Side					Vertical			
12 24	30 113	N/A		N/A			N/A		
Building Codes	Test Criteria	(Constru	uction	/Option	Summ	ary		
CBC 2022									
000 2022	CBC 2022 ICC-ES AC156 Caliboli Steel Eliciosule (NEMA 4)								
	UUT Mou	unting		1					
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UUT Mounting Details:

UUT mounted to wall fixture with (4) 5/16"-18 Grade 8 bolts and washers.

Wall fixture base mounted-isolated on four (4) Mason SLFADA200-2-B-900 spring isolators with 5/8" Grade 8 top bolts. Each isolator mounted to shake table steel plate with four (4) 5/8" Grade 8 bolts and washers.



UUT 4b Test Re							rt# TR2	231362-	01-R1		
Manufacturer: Johnson Controls				Highest Passed Test Level							
Model Line:			oled Modular Chiller	S _{DS}	z/h	۱ _p	A_{flx-h}	A_{rig-h}	A _{flx-v}	\mathbf{A}_{rig-v}	
Model Number Serial Number		-E1S-000 402-0001-001		2.00 2.47	1 0	1.5	3.20	2.40	1.65	0.66	
Senarrumber	, 400	402 0001 001		2.47	0						
D	imens	ions/Weights	;	Lowest Natural Frequency (Hz)							
-		Height (in) Weight (lbs.)		Front-Back		Side-Side			Vertical		
12 2	24	30	113	N/A			N/A			N/A	
Building Codes Test Criteria Construction/Option Summary											
CBC 2022 ICC-ES AC156 Carbon Steel Enclosure (NEM					e (NEMA	4)					
		4									
UUT Mounting Details:											
<image/>											

UUT Mounting Details:

Wall fixture base mounted - rigid to shake table plate. Unit was mounted to wall fixture with four (4) 5/16"-18 Grade 8 bolts and washers.