

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPI ICATION F	OR HCAI SPECIAL SEISMIC	OFFICE USE ONLY				
	PREAPPROVAL (OSP)	APPLICATION #: OSP-0759				
HCAI Special Seismi	c Certification Preapproval (OSP)					
Type: X New	Renewal					
Manufacturer Informa	ation					
Manufacturer: Johnso	on Controls, Inc.					
Manufacturer's Technica	I Representative: Matthew Zollo					
Mailing Address: 5000 F	Renaissance Drive, New Freedom, PA 17349					
Telephone: (407) 988-6	821 Email: matthew.zollo@jci.c	om				
	FORCODECOA					
Product Information	TED	0,				
Product Name: Chillers	<u> </u>	1				
Product Type: Chillers -	Water Cooled	12				
Product Model Number:	YZ Magnetic Bearing Centrifugal Chiller	m				
General Description:	Welded carbon steel evaporator and condenser vesse purge unit.	els with compressor, motor, VSD, controller, and				
Mounting Description:	Neoprene Vibration Isolated, Floor Mounted					
Tested Seismic Enhance	ements: Seismic enhancements made to the test un anomalies during the tests shall be incorpor	its and/or modifications required to address rated into the production units.				
Applicant Information	n	541				
Applicant Company Nam	ne: Manwill Engineering LLC					
Contact Person: Derek	Manwill					
Mailing Address: PO Bo	x 1194, Bend, OR 97709					
Telephone: (541) 241-2	102 Email: derek@manwillse.c	om				
Title: President						



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: MANWILL ENGINEERING LLC
Name: Derek Manwill California License Number: S6266
Aailing Address: PO Box 1194, Bend, OR 97709
Telephone: (541) 241-2102 Email: derek@manwillse.com
Certification Method
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):
ORCODECO
Testing Laboratory
Company Name: U.S. ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER, CONSTRUCTION ENGINEERING RESEARCH LABORATORY (CERL)
Contact Person: James Wilcoski
Aailing Address: 2902 Newmark Dr., Champaign IL 61822-1076
Telephone: (217) 373-6763 BY Email: James.wilcoski@usace.army.mil
C DATE: 03/08/2023
RIVE CONTRACTOR
DATE: 03/08/2023

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





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Seismic Parameters

Design Basis of Equipment or Components	(Fp/Wp) = <u>3.44</u> (SDS=1.91	, z/h=1), 1.50 (SD	S=2.50, z/h=0)				
SDS (Design spectral response accele	eration at short period, g) = 1	.91 (z/h=1), 2.50 (z	z/h=0)				
ap (Amplification factor) =	2.5						
Rp (Response modification factor) =	2.5						
Ω_0 (System overstrength factor) =	2.0						
lp (Importance factor) =	1.5						
z/h (Height ratio factor) =	1 and 0						
Natural frequencies (Hz) =	See Attachment						
Overall dimensions and weight = HCAI Approval (For Office Use Only) -	See Attachment	01/2029					
Date: 3/8/2023	OSP-0759	G					
Name: Mohammad Karim		Title:	Supervisor, Health Facilities				
Special Seismic Certification Valid Up to: SE	z/h =	See Above					
Condition of Approval (if applicable):	DATE: 03/08/202	23					
	PRIVIA BLUILDING	004.00					

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HCA



ATTACHMENT 1: CERTIFIED COMPONENTS

SPECIAL SEISMIC CERTIFICATION

TABLE 1

DOCUMENT NO.: 18091CR1.0

MANUFACTURER: JOHNSON CONTROLS, INC. PRODUCT FAMILY: YZ MAGNETIC BEARING CENTRIFUGAL CHILLER **DIMENSIONS** (in) MAX. WT. **MODEL NUMBER DESCRIPTION / NOTES** BASIS DEPTH WIDTH HEIGHT (lb) YΖ YZ-MA041AN045P078HA UUT 1 175 83 104 22,100 SEISMIC $S_{DS} = 1.91g$ for z/h = 1 $I_{P} = 1.5$ MOUNTING: Neoprene pad isolated floor mounted. LEVELS: $S_{DS} = 2.50g$ for z/h = 0

NOTES:

Product Construction: Welded carbon steel vessels. NEMA 1 carbon steel electrical panels. Copper tubes.

Options/Subcomponents: Since only one unit was tested, variations are not allowed. The following option selections are required: 460V/60Hz, 150psi, No Insulation, Grooved Nozzle Connection, 2 Passes, Compact Water Boxes, No Hinges, No Condenser Epoxy Coating, No Sound Attenuation, No Falling Film Bypass, Hot Gas Bypass, Isolation Valve.





ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

SPECIAL SEISMIC CERTIFICATION

TABLE 2 - SUBCOMPONENTS

DOCUMENT NO.: 18091CR1.0

PRODUCT FAMILY: YZ MAGNE	ETIC BEARI	NG CENTR	IFUGAL CH	HILLER			
MODEL NUMBER	DIMENSIONS (in)			MAX. WT.	DESCRIPTION / NOTES	DACIC	
MODEL NOMBER	DEPTH	WIDTH	HEIGHT	(lb)	DESCRIPTION / NOTES	BASIS	
Johnson Controls - Evaporator							
FA3312-12Z-646-2	168	45	49	6,382		UUT 1	
Johnson Controls - Condenser							
CA2512-12Z-496-2	168	38	49	5,683		UUT 1	
Regal - Motor							
MA041	46	31	30	2,889		UUT 1	
Johnson Controls - Compressor		-	CODE				
AN045	21	61 K	45	3,146		UUT 1	
Johnson Controls - VSD			TYXXXXXXXXXXX				
P078HA	69	31	52	1,918	460V/60Hz	UUT 1	
Johnson Controls - Controller	N.S.		Y MWA V				
OPTIVIEW	29	7	31	125	Z	UUT 1	
Johnson Controls - Purge Unit					1 E		
392-51922-000	20	3503	5P-2975	9 125		UUT 1	
MOUNTING: Mounted within unit.				SEISMIC	$S_{DS} = 1.91g$ for z/h = 1 $S_{DS} = 2.50g$ for z/h = 0	I _P = 1.5	



Johnson Controls

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

UUT 1

SPECIAL SEISMIC CERTIFICATION

DOCUMENT NO.: 18091CR1.0

								-					
MANUFAC	TURER:	JOHNSON	N CONTROLS		•	1							
MODEL NU	JMBER:	YZ-MA041AN045P078HA						SIL		-		-	V
UNIT FUNC	CTION:	CHILLER				-							1
SERIAL NU	JMBER:	N/A						1L					/
DI	IENSIONS	(in)	WEIGHT	RES. FR	EQ. (Hz)			1 1 1		f			P
DEPTH	WIDTH	HEIGHT	(lb)	F-B S	-S V	2			5			VORK	
175	83	104	22,100	10.4 10).9 32.1			1. All and the second s					
CODE & C	CODE & CRITERIA: 2022 CBC ICC					(D)	1	E.					
TEST LAB	ORATORY:	ERDC-CE	RL				5 11 4	×				R V	a l
REPORT &	DATE:	18091TR1	.0	January 1	January 18, 2023			-			-	E A	
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)				L			302540053	-	
1.91	1					-1		11		0	1		TC: 🚪
2.5	0	3.06	2.29	1.68	0.68	-	2 1	0.				0-	
MOUNTING	requirement after shake table test. MOUNTING: Neoprene pad isolated floor mounted. UUT was mounted to (8) Mason A-38906 neoprene pad assemblies us 1.25" diameter Grade 8 bolts per isolator (16 total).							lies using	J (2)				
CONSTRU	CTION:	Welded ca	arbon steel ve	ssels. NEMA	1 carbon st	teel ele	ectrical pa	anels. Copp	er tubes.				
SUBCOMP	ONENTS:	Motor (MA Controls - The follow Water Box	041), Johnso Controller (O ring option sel	porator (FA33 n Controls - C PTIVIEW), Jo ections were s, No Conder	Compressor hnson Cont used: 150p	r (AN04 htrols - I osi, No I Coating	15), Johns Purge Un Insulatior g, No So	son C <mark>ontrol</mark> it (39 <mark>2-519</mark> n, Gro <mark>oved</mark>	s - VSD (F 22-000). <mark>N</mark> ozzle Co	P078HA 4	460V/60H , 2 Passe	lz), John es, Comp	son act
TESTING N	IOTES:	UUT inclu	ded several s	eismic upgrad	les that mu	ist be u	sed on p	roduction m	nodels.				
			KOR	VIA BU	ILDI	NG	cof	K.					

