

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY						
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0549						
HCAI Special Seismic Certification Preapproval (OSP)							
Type: New X Renewal							
Manufacturer Information							
Manufacturer: ait-deutschland GmbH (KKT Chillers)							
Manufacturer's Technical Representative: Markus Zobler							
Mailing Address: Industriestraße 3, 95359 Kasendorf, Germany							
Telephone: +49 9228 99060 Email: markus.zobler@	2ait-deutschland.eu						
Product Information	MD						
Product Name: Chillers	1 A						
Product Type: Chillers - CT Scanners	2						
Product Model Number: cBoxX 100							
General Description: Chiller system for cooling fluid using air cooled ref	irigerant						
Mounting Description: Flexible floor mounted chiller and rigid wall mount	ing for CIP						
Tested Seismic Enhancements: Seismic enhancements made to the test anomalies during the tests shall be income	st units and/or modifications required to address propriet of the production units.						
Applicant Information							
Applicant Company Name: W.E. Gundy & Associates, Inc.	00						
Contact Person: Travis Soppe							
Mailing Address: 1199 Shoreline Drive Suite 310, Boise, ID 83702							
Telephone: (208) 342-5989 Email: tsoppe@wegai.	com						
Title: President							

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

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

OSP-0549





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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)								
Company Name: W.E. GUNDY & ASOCIATES INC.								
Name: Travis Soppe California License Number: S6115								
Mailing Address: P.O. Box 9121, Boise, ID 83707								
Telephone: (208) 342-5989 Email: tsoppe@wegai.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: IABG TEST LABORATORY								
Contact Person: Steffen Roedling								
Mailing Address: Einsteinstrasse 20, D-85521 Ottobrunn, Germany								
Telephone: +49 89 6088 2052 Email: roedling@iabg.de								
O DATE: 08/12/2022								
Philade								
DATE: 08/12/2022								

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Seisn	nic Parameters							
Desigr	Basis of Equipment or Components	(Fp/Wp) = See Attachments						
:	SDS (Design spectral response acceleration at short period, g) = 2.0 at $z/h = 1$ and 2.5 at $z/h = 0$							
a _p (Amplification factor) = See attachments								
I	R _P (Response modification factor) = See attachments							
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						
		NEDFONDE						
HCAI	Approval (For Office Use Only) -	Approval Expires on 08/12/2028						
Date:	8/12/2022	OSP-0549						
Name:	Mohammad Karim	Title: Supervisor, Health Facilities						

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ING CODE

z/h =

See Above

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

Condition of Approval (if applicable):



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KKT Chillers - AIT Deutschland GmbH SPECIAL SEISMIC CERTIFICATION **CERTIFIED SYSTEM AND COMPONENTS**



Manufacturer: KKT Chillers - AIT Deutschland GmbH

System: cBoxX 100 Compact Chiller System

	Siemens	Dimensions (in)			Weight	Mounting	UUT
System Component ¹	Part Number ⁴	Width	Depth	Height	(lb)	Mounting	001
cBoxX 100 ³	909100-00469 909100-00469z	32.7"	72.4"	79.9"	1740 ²	flexible floor	UUT-1
Chiller Interface Panel (CIP)	909000.0107	13.6"	25.4"	52.2"	171	rigid wall	UUT-2

All components are manufactured by AIT Deutschland GmbH unless noted. The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-componenent within the tested units.

² Weight includes normal operating fluid used during seismic test.

³ cBoxX100 shall include added base plate assembly (AIT drawing P6856-0020) to address anomolies observed during test.

⁴ The z designated system is identical to the tested system but uses a different cooling liquid (same density of tested cooling liquid). OSP-0549

BY: Mohammad Karim

DATE: 08/12/2022

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SEISMIC CERTIFICATION LIMITS **System Component** Code $S_{DS}(g)$ z / h Ip Ω₀ F_P / W_P Rp ap CBC 1.0 3.60 2.0 cBoxX 100 1.50 2.5 2.5 2.0 2019 2.5 1.50 0 Chiller Interface Panel CBC 2.0 1.0 1.50 2.5 6.0 2.0 1.50 2019 (CIP) 2.5 0 1.13

UUT-1

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Flexible floor mounted on 4 - AMC Mecanocaucho Marinelager S/N:136024 isolation devices. Each isolator connects to the UUT with one M16 Grade 8.8 bolt and mounts to the table with 2 - M12 Grade 8.8 bolts.



UUT-2

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with 3 - M8 Grade 8.8 bolts

