



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

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0882

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Midea

Manufacturer's Technical Representative: Roy Lee

Mailing Address: Penglai Industry Road, Beijiao, Shunde, Foshan, Guangdong 528311

Telephone: (1390) 281-0522 Email: genrong.li@midea.com

Product Information

Product Name: Aqua Thermal Super Series Commercial Heat Pump

Product Model Number(s): Varies. See Attachment

Product Category: Chillers

Product Sub-Category: Chillers - Air Cooled

General Description: R32 All Inverter Commercial Heat Pump

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: Pre Compliance

Contact Person: Andy Coughlin

Mailing Address: 324 NW Hill Street, Bend, OR 97703

Telephone: (541) 241-2310 Email: andy@go-pre.com

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: 324 NW Hill St, Bend, OR 97703

Telephone: (415) 635-8461

Email: Andy@go-pre.com

Certification Method

☐ GR-63-Core

☒ ICC-ES AC156

☐ IEEE 344

☐ IEEE 693

☐ NEBS 3

☐ Other (Please Specify): _____

Testing Laboratory

Company Name: CHINA TELECOMMUNICATION TECHNOLOGY LABS (CTTL)

Contact Person: Ying Deng

Mailing Address: 299 Tengfei Road, Lianchi District, Baoding City Hebei Province 000000

Telephone: (8603) 126-7989

Email: dengying1@caict.ac.cn

BY: Mohammad Karim

DATE: 01/30/2026



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Seismic Parameters

Certified Response Spectral Acceleration Factors: (F_p/W_p)

Horizontal (A Flx-H), $g =$ 3.20 (A Rig-H), $g =$ 2.15

Vertical (A Flx-V), $g =$ 1.67 (A Rig-V), $g =$ 0.67

SDS (Design spectral response acceleration at short period, g) = 2.50 @ $z/h = 0$; 2.00 @ $z/h = 1$

H_f (Force amplification height factor) = 1 @ $z/h = 0$; 3.5 @ $z/h = 1$

R_u (Structure ductility reduction factor) = 1 @ $z/h = 0$; 1.3 @ $z/h = 1$

I_p (Importance factor) = 1.5

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

HCAI Approval (For Office Use Only) - Approval Expires on 01/30/2032

Date: 1/30/2026

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable): _____

OSP-0882

BY: Mohammad Karim

DATE: 01/30/2026



Manufacturer: Midea
Product Type: Chillers – Air Cooled
Model Line: Aqua Thermal Super Series

$S_{DS} = 2.00g$ for $z/h=1, R_u=1.3, H_f=3.5$
 $S_{DS} = 2.50g$ for $z/h=0, R_u=1.0, H_f=1.0$ $I_p=1.5$

CBC 2025

Mounting Configuration: Base Mounted - Rigid

Carbon steel frame and exterior

Optional double wall heat exchanger and onboard water pump.

¹"(M)" in model number indicates addition of optional onboard water pump. "(P2)" in model number indicates addition of optional double wall heat exchanger. Models with "C" and "B" suffix differ by software only.



SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 1

Test Report# 25T04X801680-001

Manufacturer: Midea
Model Line: Aqua Thermal Super Series
Model Number: MHS-TVC140-ZN8TL-B
Serial Number: 5412711137ZA6180200001
Description: Heat Pump

Highest Passed Test Level

S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
62	90	98	2227

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
5.86	6.06	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel frame and exterior

UUT Mounting Details:



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UUT was base mounted - isolated on LSBLGRW600/III.JZD neoprene pads manufactured by Changzhou Songying Machinery Factory using (4) Grade 8.8 M16 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description (Manufacturer)	Model Number
N/A	N/A

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 2

Test Report# 25T04X801681-001-V1

Manufacturer: Midea
Model Line: Aqua Thermal Super Series
Model Number: MHS-SVC75(P2)-XN8TL-C
Serial Number: 541V8096802A611010001
Description: Heat Pump

Highest Passed Test Level								
S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
38	79	74	1464

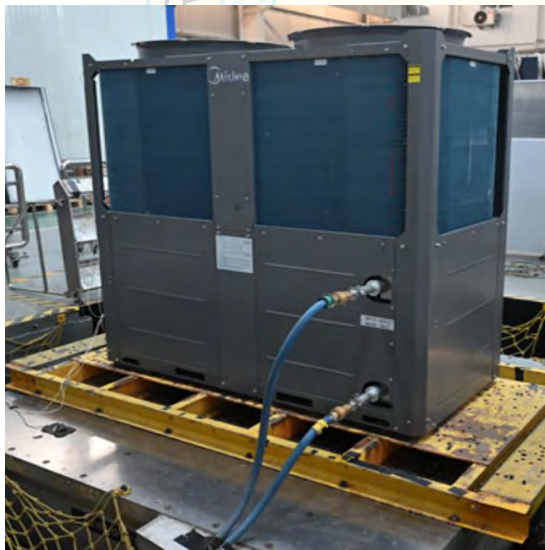
Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
7.62	9.57	>33.3

Building Codes
CBC 2025

Test Criteria
ICC-ES AC156-24

Construction/Option Summary
Carbon steel frame and exterior. Includes optional double wall plate heat exchanger (B3-95DW-60-4.5).

UUT Mounting Details:



UUT was base mounted - isolated on LSBLGRW600/III.JZD neoprene pads manufactured by Changzhou Songying Machinery Factory using (4) Grade 8.8 M16 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description (Manufacturer)	Model Number
N/A	N/A

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 3

Test Report# 25T04X801682-001

Manufacturer: Midea
Model Line: Aqua Thermal Super Series
Model Number: MHS-SVC75(M)-XN8TL-B
Serial Number: 541V9947701A620010001
Description: Heat Pump

Highest Passed Test Level

S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
38	79	74	1345

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
8.2	9.18	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel frame and exterior. Includes optional onboard water pump (MGE80B2-CML1A-IA-110).

UUT Mounting Details:



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UUT was base mounted - isolated on LSBLGRW600/III.JZD neoprene pads manufactured by Changzhou Songying Machinery Factory using (4) Grade 8.8 M16 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description (Manufacturer)	Model Number
N/A	N/A