



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@gp-pre.com

Title: Principal Engineer

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
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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

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

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

I<sub>p</sub> (Importance factor) = 1.5

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

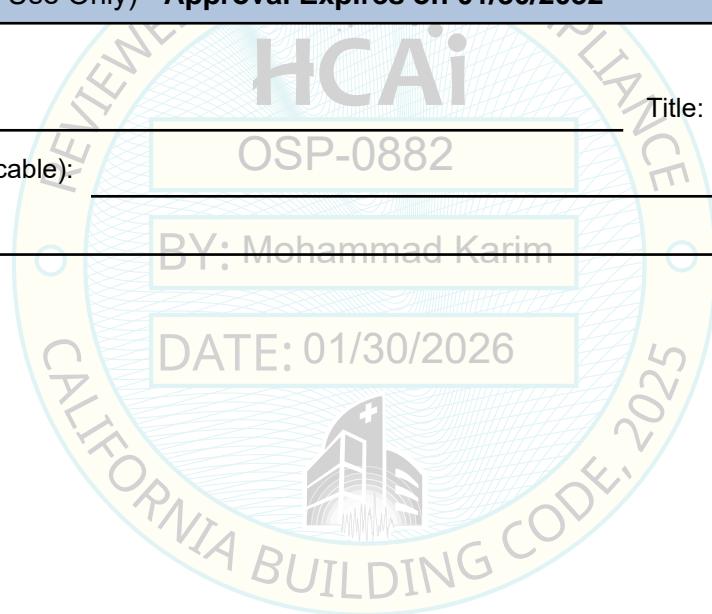
**HCAi Approval (For Office Use Only) - Approval Expires on 01/30/2032**

Date: 1/30/2026

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable): \_\_\_\_\_



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# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

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

Seismic Parameters	Building Codes
$S_{DS} = 2.00g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$	$I_p=1.5$ CBC 2025
$S_{DS} = 2.50g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$	

**TABLE 1**

Mounting Configuration: Base Mounted - Rigid

**Construction Summary**

Carbon steel frame and exterior

**Options Summary**

Optional double wall heat exchanger and onboard water pump.

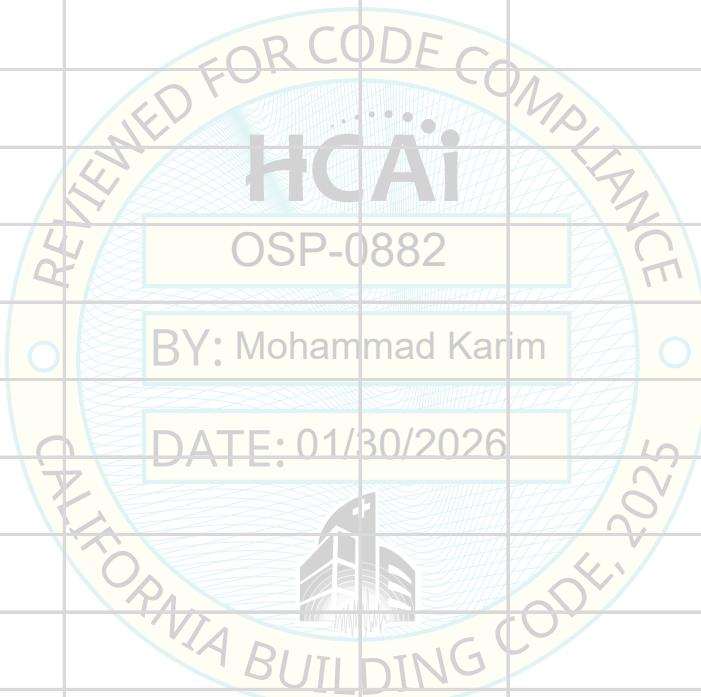
Model Line	Model <sup>1</sup>	Max. Dimensions (in)			Wt. (lb)	Notes	UUT
		D	W	H			
Aqua Thermal Super Series Heat Pump	MHS-SVC75-XN8TL-B	38	79	74	1192		Interp.
	MHS-SVC75-XN8TL-C	38	79	74	1192		Interp.
	MHS-SVC75(M)-XN8TL-B	38	79	74	1345		3
	MHS-SVC75(P2)-XN8TL-C	38	79	74	1345		Interp.
	MHS-SVC75(P2)-XN8TL-C	38	79	74	1464		2
	MHS-SVC75(M)-XN8TL-C	38	79	74	1464		Interp.
	MHS-TVC105-ZN8TL-B	62	90	98	2315		Interp.
	MHS-TVC140-ZN8TL-B	62	90	98	2227		1

<sup>1</sup>"(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.



Pre No. CC251704-01-RO

# SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY

UUT	Model	Test Report	Test Date	Test Laboratory	S <sub>DS</sub>	z/h	R <sub>μ</sub>	H <sub>f</sub>	I <sub>p</sub>
1	MHS-TVC140-ZN8TL-B	25T04X801680-001	11/18/2025	CAICT	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
2	MHS-SVC75(P2)-XN8TL-C	25T04X801681-001-V1	11/20/2025	CAICT	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
3	MHS-SVC75(M)-XN8TL-B	25T04X801682-001	11/25/2025	CAICT	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
									
Notes:									

# 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								
$S_{DS}$	$z/h$	$R_p$	$H_f$	$I_p$	$A_{flex-h}$	$A_{rig-h}$	$A_{flex-v}$	$A_{rig-v}$
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 LSLGRW600/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								
$S_{DS}$	$z/h$	$R_p$	$H_f$	$I_p$	$A_{flex-h}$	$A_{rig-h}$	$A_{flex-v}$	$A_{rig-v}$
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 LSLGRW600/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								
$S_{DS}$	$z/h$	$R_{\mu}$	$H_f$	$I_p$	$A_{flex-h}$	$A_{rig-h}$	$A_{flex-v}$	$A_{rig-v}$
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 LSLGRW600/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