

Modular Heat Pump System

CA0100HANH, CA0140HANH



Modular Air Cooled R/C, 100 & 140KW

The Modular Heat Pump Chillers can be coupled together under a single controller to increase capacity up to 2080 kW as needed. It uses R32 refrigerant for a lower environmental impact (compared to R410A refrigerant). The modules fully integrate with building management systems and can be isolated for maintenance, reducing downtime.

Features

Scalability

Add modules based on the building's cooling requirements. Up to 16 modules can be coupled under a single controller in order to reach 2080 kW of capacity.

Efficient design

More compact than traditional, non-modular systems, allowing for more efficient use of the available area.

Quiet operation

Our anti-vibration pads, insulation, and high efficiency brushless DC motor create a low sound profile during operation.

BMS Compatible

Our Modular Chillers can fully integrate into building management systems, allowing for minimal disruption to your operations.

R32 lower-impact refrigerant

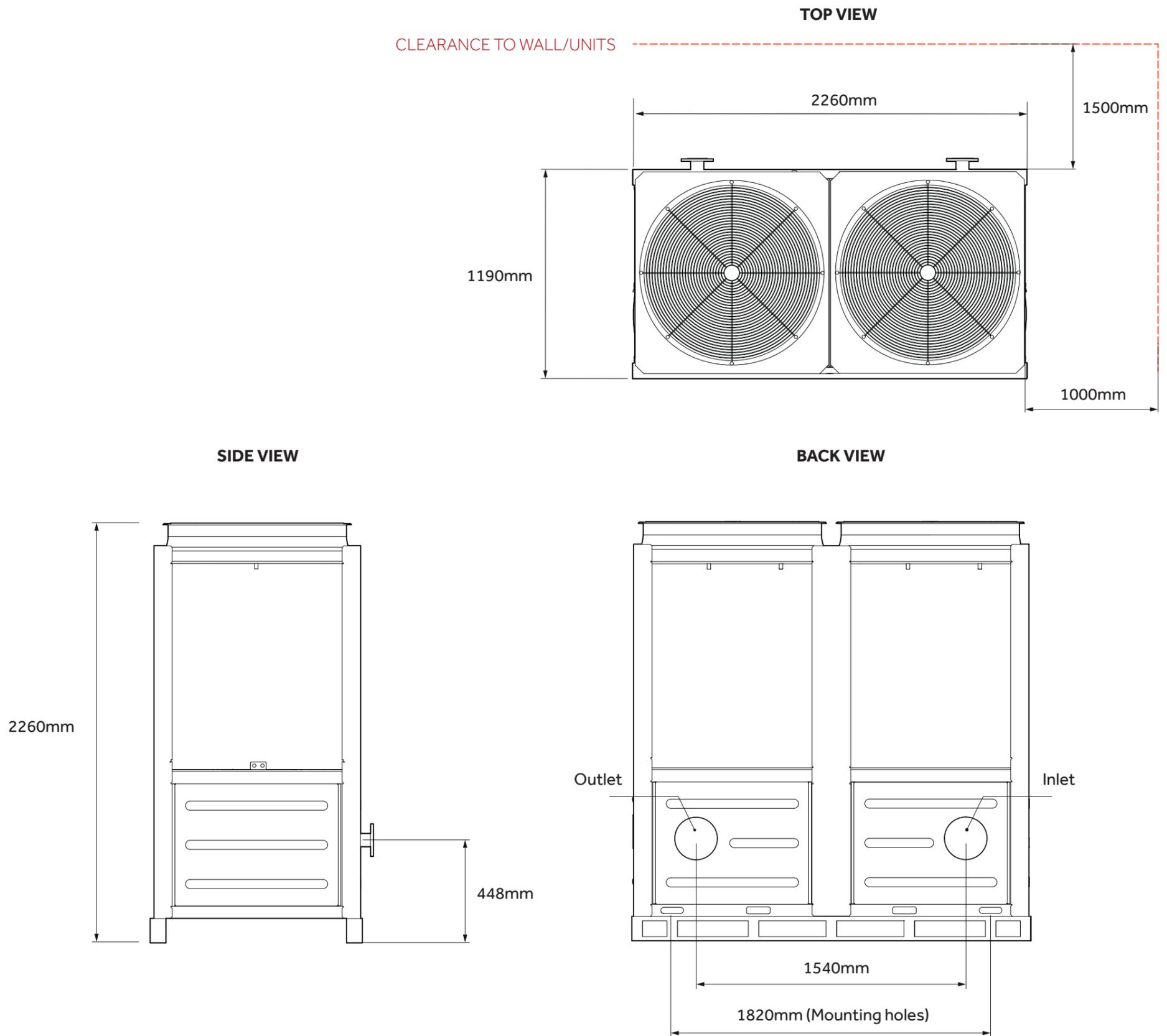
Our Modular Chillers use a next-generation R32 refrigerant, which carries heat efficiently and has 33% of the global warming potential of R410A.

Simple maintenance

Modules can be isolated for repair or maintenance without affecting the entire cooling system, making maintenance more cost-effective and reducing downtime.

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DRAWING NOT TO SCALE

Model	CA0100HANH	CA0140HANH
External Dimensions	2260W x 1255Dx 2260H	2260W x 1255Dx 2260H
Packaging Dimension	2280W x 1275Dx 2400H	2280W x 1275Dx 2400H
Weight		
Net Weight	910 kg	910 kg
Gross Weight	940 kg	940 kg
Operating Weight	940 kg	940 kg

90003412B - The models shown in this Specification Guide (SG) may not be available in all markets and are subject to change at any time. Product specifications may vary from those shown. This SG should not be used as installation guidance for any product. Further information is required to safely and correctly install the products featured here. Specific installation guidance will be available with the product on delivery and on our website haierhome.com

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Model		CA0100HANH	CA0140HANH
Cooling (LWT 7°C/OAT 35°C)	Capacity	100 kW	130 kW
	Power Input	28.60 kW	42.88 kW
	EER	3.50 W/W	3.03 W/W
Cooling (LWT 18°C/OAT 35°C)	Capacity	110 kW	145 kW
	Power Input	23.40 kW	40.28 kW
	EER	4.70 W/W	3.60 W/W
Heating (LWT 35°C/OAT 7°C)	Capacity	100 kW	142 kW
	Power Input	20.00 kW	30.87 kW
	COP	5.00 W/W	4.60 W/W
Heating (LWT 45°C/OAT 7°C)	Capacity	100 kW	142 kW
	Power Input	24.20 kW	36.90 kW
	COP	4.13 W/W	3.85 W/W
Heating (LWT 55°C/OAT 7°C)	Capacity	100 kW	142 kW
	Power Input	29.10 kW	43.50 kW
	COP	3.44 W/W	3.26 W/W
Operating Temperature Range	Cooling	-20~53 C°	
	Heating	-30~50 C°	
	DHW	-30~50 C°	
Leaving Water Temperature Range	Cooling	-5~20 C°	
	Heating	20~60 C°	
Storage Temperature Range (Tank)	DHW	20~58 C°	
Power Supply		3N~/380~415/50 Ph/V/Hz	
Sound Power Level		88 dB	91 dB
Sound Pressure Level		70 dB(A)	72 dB(A)
Waterside Heat Exchanger Type		Shell & Tube Heat Exchanger	
Airside Heat Exchanger Type		Copper Tube & Aluminum Fin	
Refrigerant Throttle Type		Electronic Expansion Valve	
Compressor	Type	Inverter Scroll Compressor	
	Qty.	2	
Refrigerant	Type	R32	
	Charge	11*2 kg	
	CO2e	14.85 t	
Fan	Type	Axial	
	Motor Type	DC Motor	
	Airflow Rate	20500 m ³ /h	20540 m ³ /h
	Qty.	2	
Water System	Water Resistance	40 kPa	60 kPa
	Water Flow Rate (Cooling)	17.2 m ³ /h	22.4 m ³ /h
	Water Flow Rate (Heating)	17.2 m ³ /h	24.4 m ³ /h
	Max. Pressure	1MPa	
	Water Pipe Size (Inlet/Outlet)	DN65/DN65	

Ratings calculated according to EN14511 and EN14825.

Sound data is tested in Haier lab, which may vary according to different installation conditions.

The resistance parameters listed in the table do not account for the resistance of the included water filter.

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