

70kW Commercial Inverter Heat Pump Water Chiller

This 70kW commercial inverter heat pump water chiller utilizes advanced inverter technology for efficient operation. It provides reliable heating and cooling for commercial and industrial applications.



ADDITIONAL IMAGES



Overview

High-Efficiency Commercial Climate Solution

This 70kW commercial inverter heat pump is designed for high-performance heating and cooling in demanding environments, capable of operating in ambient temperatures as low as -25°C. Utilizing advanced EVI and DC inverter technology, the system maintains stable output even in extreme winter conditions while saving up to 75% on electric power compared to traditional systems. The modular design allows a single controller to manage up to 16 units, making it an ideal scalable solution for large-scale commercial and industrial applications.

Key Performance Metrics

Performance Highlights

70 kW

Rated Cooling

75 kW

Rated Heating

67 dB(A)

Noise Level

26 P

Horsepower

Technical Specifications

Refrigerant

R410A

Power Supply

380V / 50Hz

Compressor Technology

DC Inverter (10~120rps) with EVI technology

Ambient Operating Range

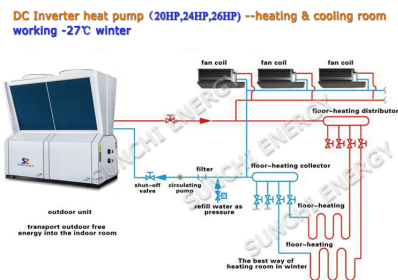
Down to -25°C (Winter)

Efficiency Data

Detailed Performance (Model MRSV-70A/S)

Parameter	Rated Value	Range (Min/Max)
Cooling Capacity	70 kW	20 / 75 kW
Cooling Input Power	22 kW	7.5 / 31.2 kW
EER	3.2 w/w	2.2 / 4.2 w/w
Heating Capacity	75 kW	24 / 78 kW
Heating Input Power	23 kW	7.8 / 31.2 kW
COP	3.3 w/w	N/A

Features & Control



System architecture showing the heat pump integrated with floor heating and fan coil units for comprehensive climate control.

System Features

- Modular control for up to 16 units
- One-touch auto-running control
- V-type high-efficiency evaporator
- BLDC motor (300~1000rpm)
- Low maintenance requirements
- Compact installation footprint

Applications

SUNCHI energy heat pump install case :



Example of a large-scale commercial installation utilizing multiple modular heat pump units.

Target Applications

Commercial Buildings, Industrial Facilities, Floor Heating Systems, Fan Coil Units, Multi-family Residential