

## MODULAR HEAT PUMPS AIR TO WATER



### Smart, Scalable & Energy-Efficient Heating Solutions

Engineered for high-performance heating applications, Mammoth Modular Air-to-Water Heat Pumps deliver superior hot water output using R134a refrigerant, ensuring maximum efficiency and reliability for high-demand environments.

#### Key Features & Benefits:

- **Modular Scalability:** Connect up to 16 units to reduce footprints while allowing seamless expansion as per growing requirements.
- **High Heat Output:** Designed for high hot water demand applications with advanced R134a refrigerant technology.
- **Energy-Efficient VFD Fan:** Ensures lower power consumption while optimizing heating performance dynamically.
- **Compact & Space-Saving:** Physically interconnected units minimize installation space while maximizing operational flexibility.
- **Advanced Heat Exchanger:** Shell-in-tube heat exchanger provides enhanced thermal efficiency and durability.

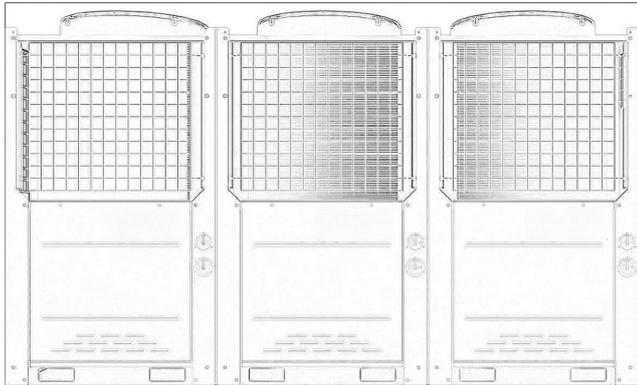


### Seamless Management with Master/Slave Remote Operation

Mammoth Modular Heat Pumps are equipped with a next-generation remote control system designed for simplicity, precision, and complete command over every unit in the network.

#### Key Features:

- Master/Slave Modular Control Function
- Dual Language Support – English & Chinese
- Centralized Parameter Setting
- Real-Time Monitoring & Diagnostics
- BMS Integration Ready
- User-Friendly Interface



### Modular Connectivity for Scalable Performance

A visual representation of Mammoth Modular Heat Pump units physically interconnected in a streamlined layout, that enables up to 16 units to operate as a unified system. This configuration supports easy installation, space optimization, and future scalability, making it ideal for expanding hot water demands.

### Technical Specifications

MODEL	KFRS-22K7	KFRS-45K7
Nominal Heating Capacity	20KW	45KW
Rated Power Input	4.8KW	10.5KW
Outlet Water Rated Temp	60 Deg C	60 Deg C
Outlet Water Max. Temp	65 Deg C	65 Deg C
Ambient operating Temperatures	-5 Deg C to +40 Deg C	-5 Deg C to +40 Deg C
Running Current	9.5 Amp	22 Amp
Variable Speed Fan Motor Watts	150 - 350W	450 - 900W
Voltage/ Frequency	380V/3Ph/60Hz	380V/3Ph/60Hz
Number of Compressors / Circuits	1	1
Compressors Type	Scroll	Scroll
Noise Level	53 dB	58 dB
Air Flow m3/h	3000 - 7000	6000 - 13000
Refrigerant	R134a	R134a
Defrost Device	4-Way reversing Valve	4-Way reversing Valve
Expansion Device	Electronic Expansion Valve	Electronic Expansion Valve
Heat Exchanger Type	Shell in Tube	Shell in Tube
Water Output Capacity L/hr (35°C Temp rise)	490	1105
Water Flow Rate L/min (5°C TD across HEX)	58.5	130
Air discharge	Vertical	Vertical
Pipe Connection	R 1"	1.5"
Dimensions (L*W*H) in mm	743 X853X1220	950X1100X1670
Weight	131 Kg	260 Kg
Other Features	Modular Upto 16 units	Modular Upto 16 units
	Physically Connected	Physically Connected
	Anti Corrosion on Air Coil	Anti Corrosion on Air Coil
	SS Cabinet as option	SS Cabinet as option