

# HiHeat Hot Water Heat Pump

## Outdoor Installation

Outlet water temperature up to 80°C



### Suitable for

- 5 Star Hotels
- Hospitals
- Printing & Packaging
- Textile industry
- Food Processing Industry
- And other industries

HiHeat Hot Water Reversible Cycle Heat Pump, Air/Water cycle with its heat power capability of producing hot water up to 80°C is equipped with an inbuilt Grundfos circulation pump, patented Tube in Shell Heat Exchanger and Copeland compressor with R134A refrigerant.

Low  
Operating  
Cost

Eco-Friendly

80°C  
Hot Water  
Outlet

EVI  
Technology

Multiple  
Protections

Wide  
Operation  
Range

### HiHeat Highlights

- **Low operating cost:** The operating cost is very low compared with conventional heat sources, such as electricity, coal, gas and diesel.
- **Environmental Friendly:** Adopting R134A refrigerant of lower GWP, means the air pollution emission is zero, which is very environmental-friendly compared with coal.
- **80°C Hot Water Outlet:** With stable hot water supply, the unit can be widely used in different industrial applications.
- **EVI Technology:** With EVI technology, the unit can work stably for hot water application.
- **Multiple-Protections:** The multiple protective design ensure the unit's long service life and stable operation.
- **Wide Operation Range:** With advanced 4-way-valve applied in the unit, the unit can be used in any environment from -7°C to 45°C.

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## Outdoor Installation

### HiHeat Hot Water Heat Pump Specification



Specification		Model / Code			
		ATHP30	ATHP50	ATHP70	ATHP120
Hot Water Capacity (Air 20/15°C, Water 15-65°C)	kW	19.0	35.0	70.0	135.0
Power Input	kW	5.3	9.2	19.0	38.6
COP	W/W	3.58	3.68	3.68	3.50
Hot Water Volume	l/h	326	602	1204	2321
Max. Power Input	kW	7.5	18.1	36.2	64.4
Max. Running Current	A	14.3	32.3	64.6	108.5
Power Supply	V/Ph/Hz	380-415V/3N-/50Hz			
Compressor Quantity		1	1	2	4
Compressor Type		Scroll			
Compressor Brand		Copeland			
Fan Quantity		2	1	2	2
Circulation Water Pump		Grundfos CM 3-3	Grundfos CM 5-3	Grundfos CM 10-2	-
Fan Motor Input	W	200x2	750	750x2	1800x2
Minimum Flow Required	m³/h	3.3	6.0	12.0	23.2
Water Pressure Drop	kPa	25	38	42	45
Water Connection		1.2" inch	DN40 flange	DN65 flange	DN80 flange
Noise	dB(A)	58	65	68	70
Air Volume	m³/h	5000x2	12000x1	14000x2	23000x2
Air Discharge Type		Horizontal	Vertical	Vertical	Vertical
Max. Outlet Water temp.	°C	80			
Operation range	°C	-7-45			
Condenser		Patented tube in Shell Heat Exchanger			
Evaporator		High Efficiency Aluminium Finned Heat Exchange			
Defrosting		by 4-Way Valve			
Controller		PC Controller			
Display		5 inch Smart Central Display			
Refrigerant		R134A			
Cabinet		Eco-friendly Galvanized Metal / (Stainless Steel optional)			
Net Weight	kg	219	468	600	1050
Gross Weight	kg	238	512	643	1100
Net Dimensions (L/W/H)	mm	1175×400×1605	1195×980×1900	1930×1050×1980	2350×1150×2370

#### Data sheet is based on capacities:

Test Conditions: Ambient temperature 20°C/15°C, water circulation from 15°C to 65°C.

The data above is for reference only. For more specific data, please refer to the nameplate on the unit.