



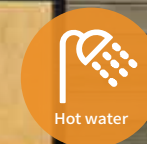
NEWTIDE

Warm your life with silent tech



Hi-Master V Series

R290 Monobloc Air Source Heat Pump



Official Website

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A+++



High Efficiency A+++
Eco-friendly

The Hi-Master V Series can meet highest class A+++, providing our customers the best eco-friendly performance for the heat pump system.



R290 Natural Refrigerant

Low GWP and low carbon life

Using the natural refrigerant R290 (with a GWP of only 3), the Hi-Master V Series heat pump has a minimal impact on global warming and zero harm to ozone layer, making it the best choice for the low carbon heating system. Designed to optimize efficiency and reduce energy consumption, this heat pump provides customers the affordable sustainable heating solutions.

Quiet Operation

No noise to disturb the neighbors

Through effective noise reduction solutions, the Hi-Master V Series can achieve a sound pressure level down to 31dB(A) at 1m and 24dB(A) at 3m, lower than the sound in a library. You'll barely notice it's working, so your neighbors won't be disturbed by the noise.

Within 1m

31 dB(A)
Ultra-low
Noise Level

Aesthetic Appearance Design

Decorate your home

With its chic metallic gray finish and sleek lines, the Hi-Master V Series heat pump effortlessly complements a variety of home styles, from modern apartments to quaint cottages, brick homes and traditional villas. Its stylish design seamlessly enhances the ambiance and effortlessly blends in to aesthetically enhance your space.



Easy Remote Control and Management

WIFI, APP & IoT

Use the built-in Wi-Fi connectivity, Eco-Home app and IoT technology to effortlessly manage and control your heat pump from anywhere, ensuring personalized comfort tailored to your preferences.



 Heating Curve Setting

 BMS Central Control

 Multilingual Menu

 Two Heating Zones



Key Upgrades

Better Performance

7-inch Flexible Screen



Extra- large screen ensures easy operation and pleasant user experience.



Flow Meter

Use vortex flow meter to accurately read the real-time water flow of the unit.



R290 Sensor

Detect the concentration of refrigerant in the cavity. When it reaches the safety setting value or above, you will be reminded by an alarm and the power supply will be switched off promptly.



Separator

The gas and magnetic dirt separator integrates exhaust, filtration, magnetic decontamination, and safe pressure relief.

Featured Functions

Enhanced Capabilities

MULTIPLE DEFROST MEASURES

Intelligent defrost, chassis electric heating, centralized drainage are designed to prevent icing.

MULTIPLE NOISE REDUCTION MEASURES

CFD-based EPP deflector, extra-large silent fan blades, compressor with 4-level sound insulation, double-layer bracket and optimized piping vibration design ensure extreme-quiet operation.

ADAPTIVE ENERGY-SAVING ALGORITHM

Self-developed algorithm fits the actual heat load of the building to achieve high energy efficiency and low noise.

MULTI-MODE ADAPTIVE OPERATION OF WATER PUMP

The pumps can adaptively operate in three modes: target temperature difference, target flow rate, and target speed.

ENERGY CALCULATION

A self-developed algorithm enables real-time display and statistics by time period, providing a fast overview of energy output, energy consumption, and energy efficiency ratio.

MULTIPLE SAFETY MEASURES

Electrical isolation, Active refrigerant gas venting channel, gas and magnetic separator and Refrigerant leak detector to guarantee the safety.



Integrated Solution

Efficient installation and flexible connectivity

The Hi-Master V Series monobloc heat pump integrates control system and hydronic module into one indoor box, simplify the piping to increase the installation efficiency. Such design will offer flexible connectivity for retrofit of old house with original water piping, or new apartments.

And it offers three indoor units options—control module, hydraulic station, and hydraulic tower—to meet diverse household demands and fit various spaces.



Control Module

Control Module CM10

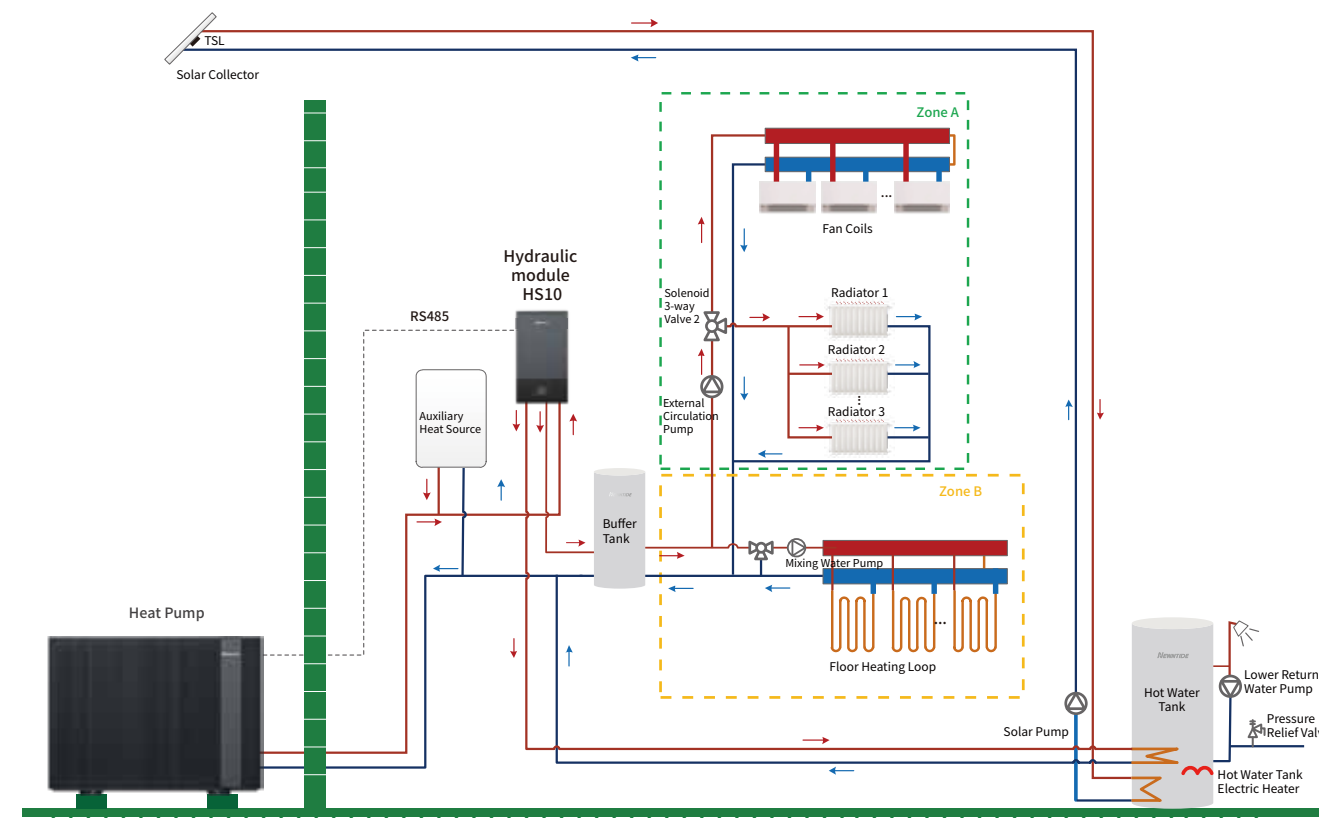
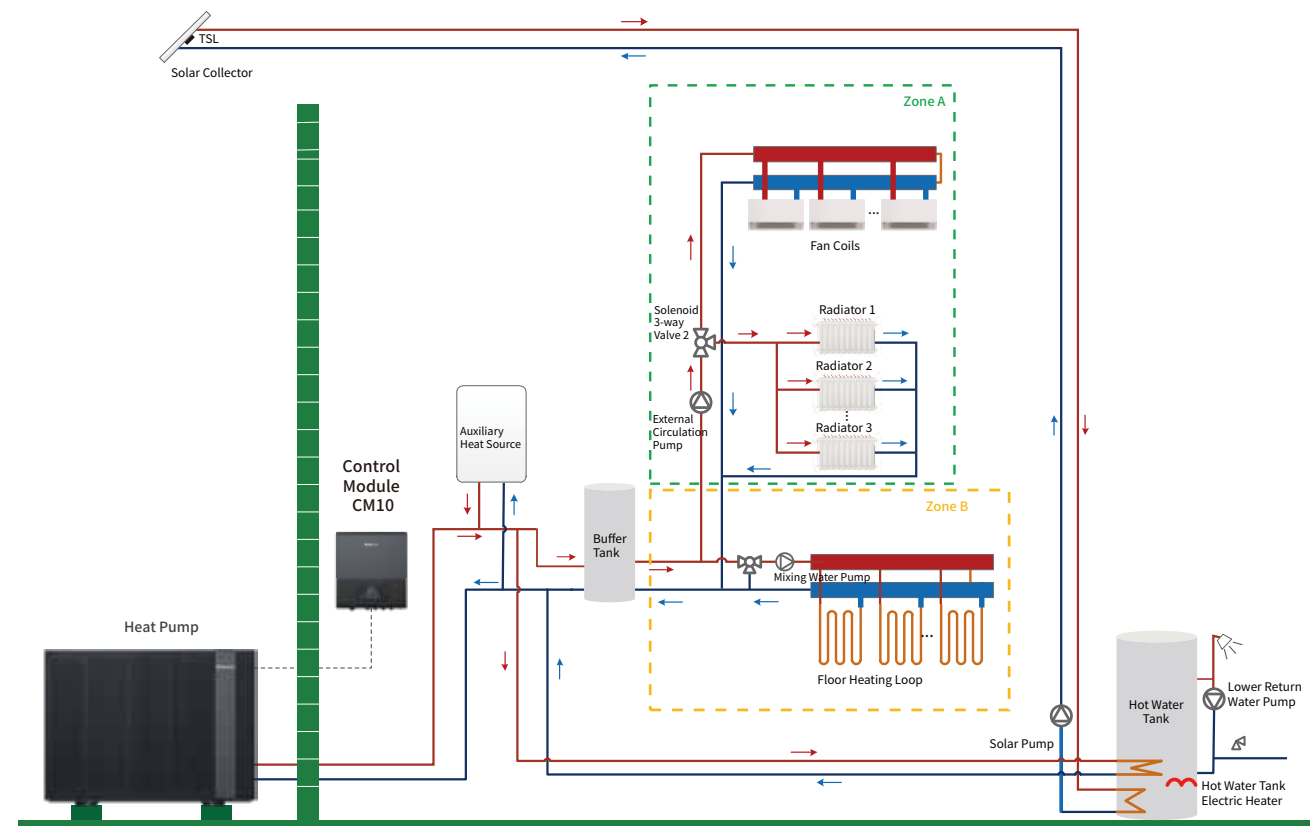
- ★ Centralized control for domestic heating, cooling and DHW
- ★ Advanced energy statistics algorithms
- ★ 7-Inch user-friendly controller interface
- ★ Integrated WIFI remote control
- ★ Suitable for standard set-up and hybrid systems



Hydraulic Station

Hydraulic Module HS10

- ★ Centralized control for domestic heating, cooling and DHW
- ★ Hydraulic components integrated, including 8L expansion water tank
- ★ Integrated with all the functions of the Control Module CM10
- ★ 3-way valve for Space heating, cooling and DHW
- ★ Equipped with 9kW auxiliary electric heater

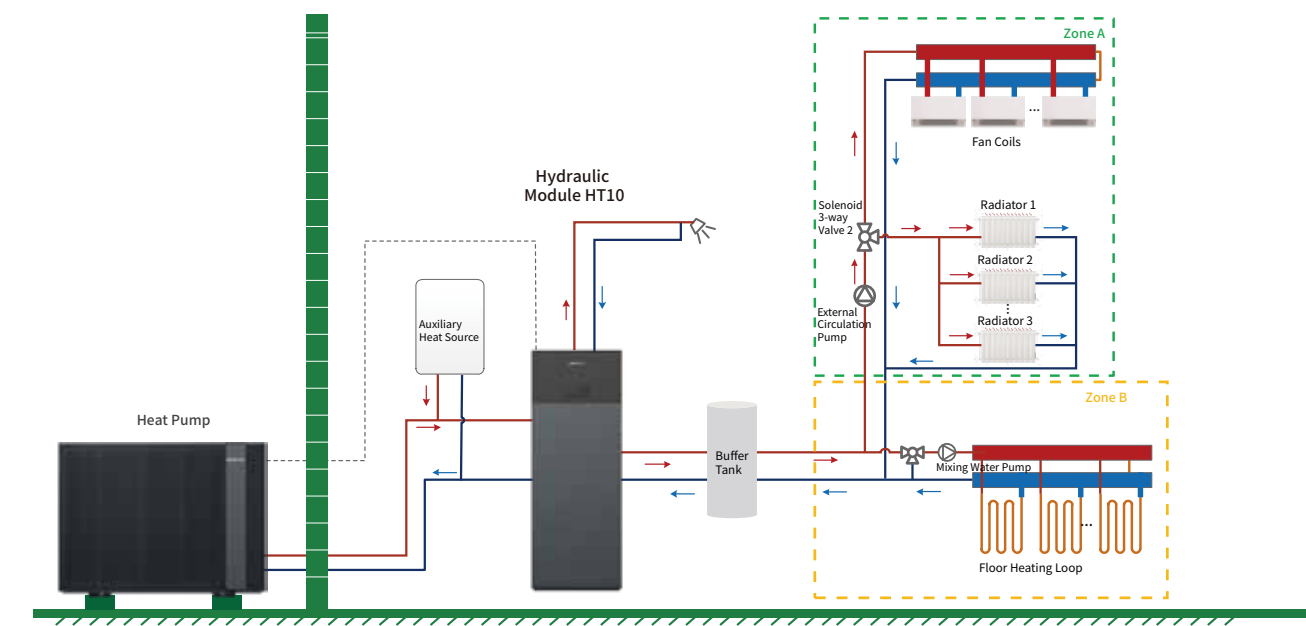




Hydraulic Tower

Hydraulic Module HT10

- ★ Centralized control for domestic heating, cooling and DHW
- ★ Include all the functions of the Control Module CM10 and Hydraulic Station HS10
- ★ Integrated 200L DHW tank, 19L DHW expansion tank and water circulation pump
- ★ Enhance the installation efficiency of the system's electrical and hydraulic module



Allows heat pumps to support the power grid, have a lower carbon footprint and be more cost-effective to operate.

Model: NE-F	Control Module CM10	Hydraulic Station HS10-1P	Hydraulic Station HS10	Hydraulic Tower HT10-1P	Hydraulic Tower HT10
Power Supply	220-240V~/50HZ	220-240V~/50HZ	380-415V 3N~/50HZ	220-240V~/50HZ	380-415V 3N~/50HZ
Max.Heating Power(kW)	/	3	9	3	9
Max.Heating Current(A)	/	13.1	13.7	13.1	13.7
Max.Outlet Water Temp(°C)	/	75	75	75	75
Water IN/OUT Connection (inch)	/	G1-1/4"	G1-1/4"	G1-1/4"	G1-1/4"
DHW IN/OUT Connection (inch)	/	G1"	G1"	G1"	G1"
H&C IN/OUT Connection (inch)	/	G1"	G1"	G1"	G1"
TAP Water Connection (inch)	/	/	/	G1"	G1"
Sound Pressure dB(A) at 1m	/	30	30	31	31
Net Weight (kg)	7.5	34	35	125	125
Net Dimensions (L×W×H) (mm)	390×100×420	418×310×750	418×310×750	640×750×1950	640×750×1950
Shipping Dimensions (L×W×H) (mm)	450×200×550	520×390×905	520×390×905	730×830×2087	730×830×2087
Shipping Weight (kg)	10	40	40	135	135
Shipping Dimensions (L×W×H) (mm)	505×330×580	535×520×920	535×520×920	750×860×2100	750×860×2100
Shipping Weight (kg)	15	45	45	145	145
Water Proof Class	IPX1	IPX1	IPX1	IPX1	IPX1
Electricity Shock Proof	I	I	I	I	I
Water Tank (L)	/	/	/	200	200

Notice:The above data is for reference only. The specs data is subject to actual product.



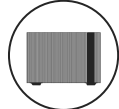
High Energy Efficiency



Built-in WiFi



Silent Operation



Innovative Structure





Model: NE-F	60HCR5INVMV2	90HCR5INVMV2	130HCR5INVMV2	130HCR5TINVMV2	160HCR5TINVMV2
[Space Heating] (W35°C/W55°C)					
Equivalent Maximum Heat Production(kW)	6	9	13	13	16
Prated (Pdesignh, Average climate) (kW)	4.8/4.9	7.1/7.1	10.0/9.7	10.0/9.9	12.9/12.6
ηs (Average climate) (%)	200/144	199/146	203/149	199/149	200/145
SCOP (EN14825 Average climate) (W/W)	5.08/3.66	5.05/3.73	5.14/3.79	5.05/3.80	5.07/3.69
ErP Level (EN14825 Average climate)	A+++/A++				
Heat Output (EN14511-2) (kW)	4.2/4.1	5.9/5.9	7.9/7.9	7.8/7.9	10.1/10.1
COP (EN14511-2) (W/W)	5.1/3.2	4.9/3.2	5.0/3.1	5.0/3.1	5.1/3.2
Sound Power Level (EN12021-1)(dB(A))	47/46	54/54	54/52	55/55	53/54
Sound Pressure Level at 1m(dB(A))	32/31	38/38	38/37	40/39	38/39
[Space Cooling] Ambient Temp. (DB/WB): 35°C / -, Water Temp. (Inlet/Outlet): 12°C/7°C.					
Cooling Capacity (kW)	1.47~4.91	2.33~6.96	3.27~9.13	3.27~9.13	4.32~11.8
Power Input (kW)	0.34~1.60	0.54~2.23	0.75~2.99	0.75~2.99	0.98~3.78
Cooling Current Input Range (A)	1.49~7.03	2.37~9.79	3.41~12.95	1.23~4.55	1.61~5.81
EER (W/W)	4.32~3.07	4.31~3.12	4.34~3.06	4.34~3.06	4.38~3.12
[Hot Water] Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. from 15°C to 55°C.					
Heating Capacity (kW)	6.61	9.33	13.45	13.45	16.60
Power Input (kW)	1.52	2.14	3.11	3.11	3.82
Hot Water Current Input Range (A)	6.67	9.40	13.65	4.83	5.93
COP	4.35	4.35	4.32	4.32	4.35
Max. Power Input (kW)	2.8	4.5	5.4	5.4	5.8
Max. Running Current (A)	14.3	19.8	23.5	8.25	8.9
Max. Outlet Water Temp. (°C)	75				
Operation Range (°C)	-25~43				
Power Supply	220-240V~/50Hz			380-415V/3N~/ 50Hz	
Rated Water Flow Rate (m³/h)	1.03	1.55	2.20	2.20	2.75
Compressor Brand	MITSUBISHI/Rotary				
Circulating Pump	Wilo/ DC				
Water Side Heat Exchanger	Plate				
Air Side Heat Exchanger	Finned Tube				
Fan/Motor	Axial/DC				
Display	7-Inch / IPS 1024×600				
Remote Control	WIFI / APP / IOT				
Refrigerant Type	R290				
Water Pipe Connection (inch)	G1 1/4"				
Protection Class	IPX4				
Electricity Shock Proof	I				
Net Weight (kg)	130	135	180	190	195
Net Dimensions (L×W×H) (mm)	1102×557×1021			1377×557×1021	

Notice:

1. The above data is for reference only. The specs data is subject to actual product.
2. The equivalent maximum heat production is for reference only, and the actual operation will not run to the maximum heat production at ambient temperatures above 0 °C.