



NEWNTIDE®

Comfort your life with silent tech

NEWNTIDE

HEAT PUMP

Product Catalogue
Heating / Cooling / DHW



Official Website



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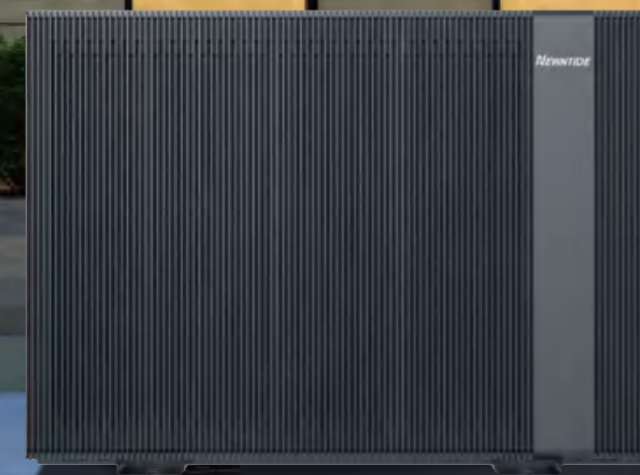
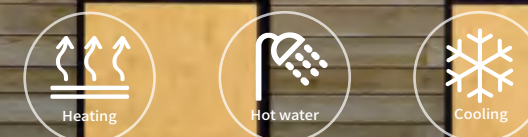
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Hi-Master V Series

R290 Monobloc Air Source Heat Pump





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

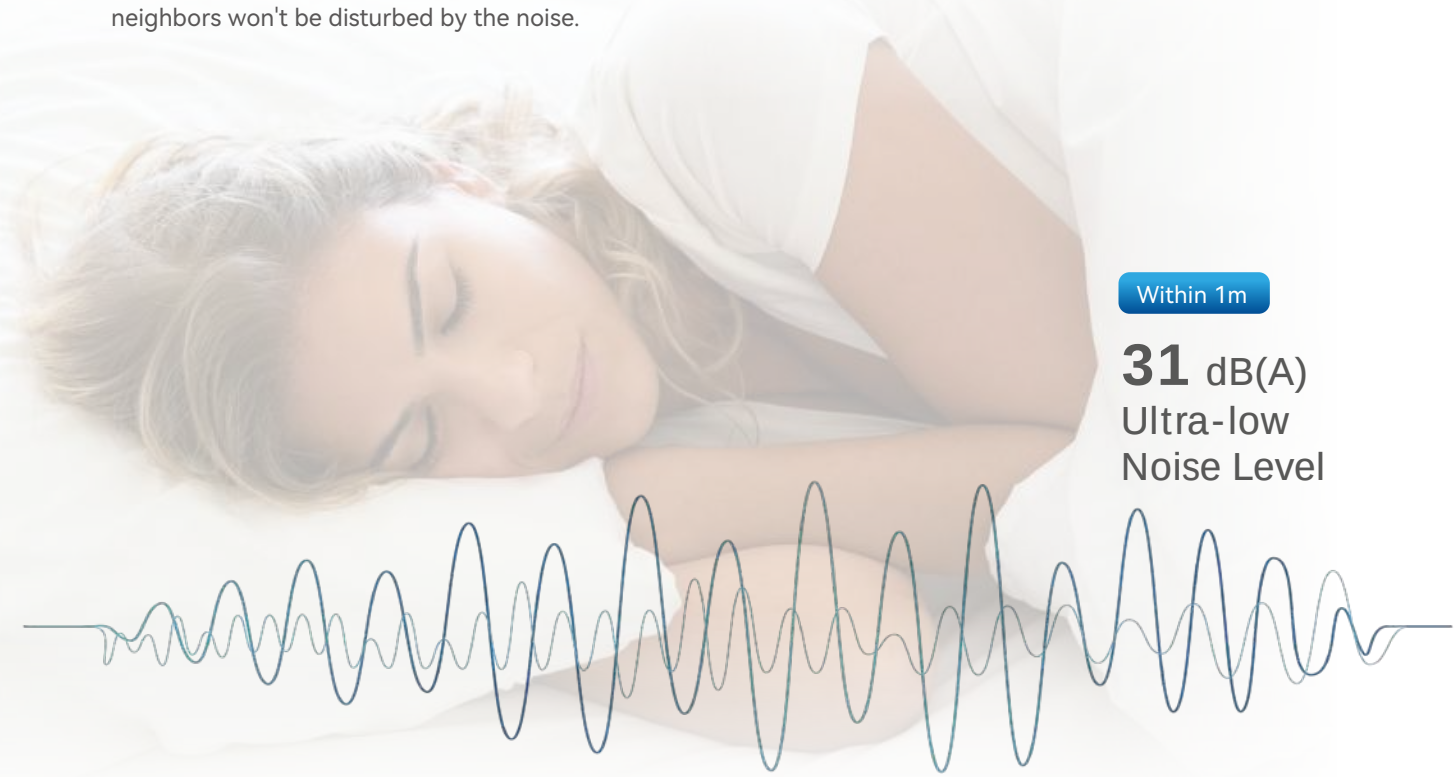
Low GWP and low carbon life

Using the natural refrigerant R290 (with a GWP of only 0.02) , 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

Ensure peaceful living space for your neighborhood

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 IPS Screen(HMI)
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 separator integrates exhaust, filtration, magnetic decontamination, and safe pressure relief.

Featured Functions

Enhanced Capabilities



- MULTIPLE DEFROST MEASURES**
to prevent icing
- MULTIPLE NOISE REDUCTION MEASURES**
ensure extreme-quiet operation
- ADAPTIVE ENERGY-SAVING ALGORITHM**
to achieve high energy efficiency
- MULTI-MODE ADAPTIVE OPERATION**
of water pump
- ENERGY CALCULATION**
quickly displays key energy metrics
- MULTIPLE SAFTY MEASURES**
for user safety

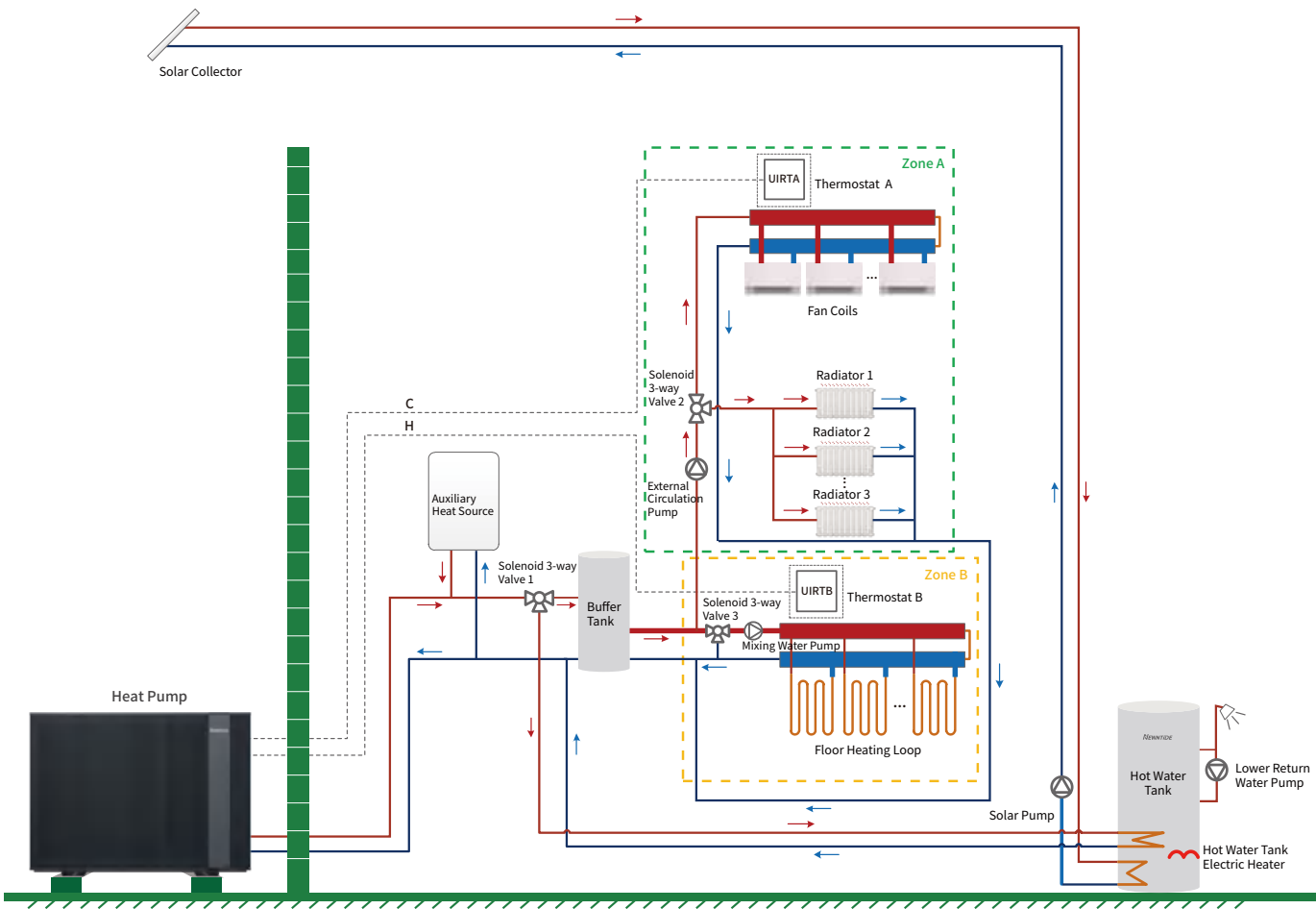
Monobloc Integrated

Efficient installation and flexible connectivity

To address different customer needs, we offer different installation methods.

1. All-in-One Monobloc Installation

In this configuration, the core control functions (including the main control board and built-in Wi-Fi/IoT module) are fully integrated into the outdoor unit. The 7-inch smart touch panel remains as an independent indoor user interface. On the indoor side, the required components are water pipe connections, the touch panel, and (depending on application) a storage tank.



2. Monobloc with Indoor Module

In this configuration, 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. 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

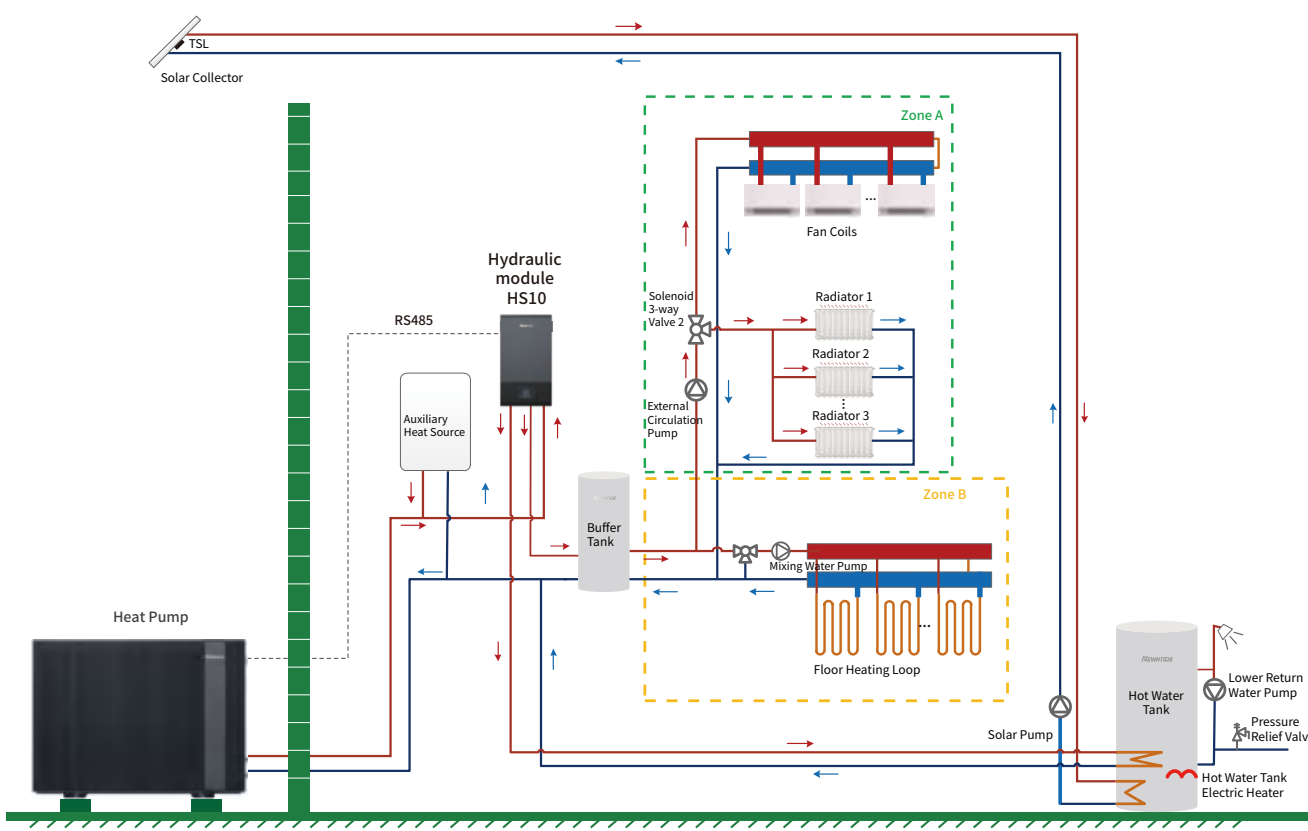
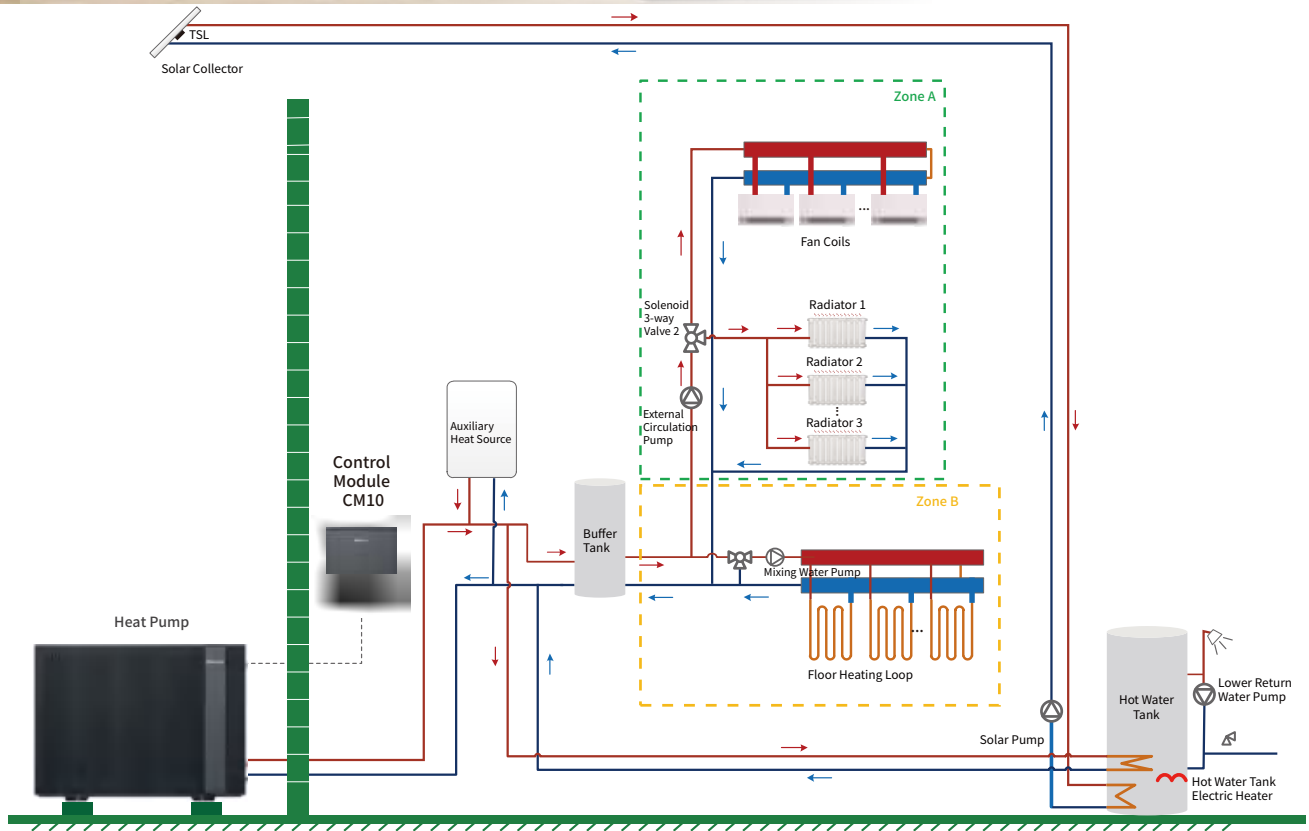
- ★ Centralized control for domestic heating, cooling and DHW
- ★ Advanced energy statistics algorithms
- ★ 7-Inch user-friendly controller interface
- ★ Integrated WIFI remote control
- ★ Suitable for standard set-up and hybrid systems



Hydraulic Station

Hydraulic Module HS10

- ★ Centralized control for domestic heating, cooling and DHW
- ★ Hydraulic components integrated, including an 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 a 3/9kW auxiliary electric heater

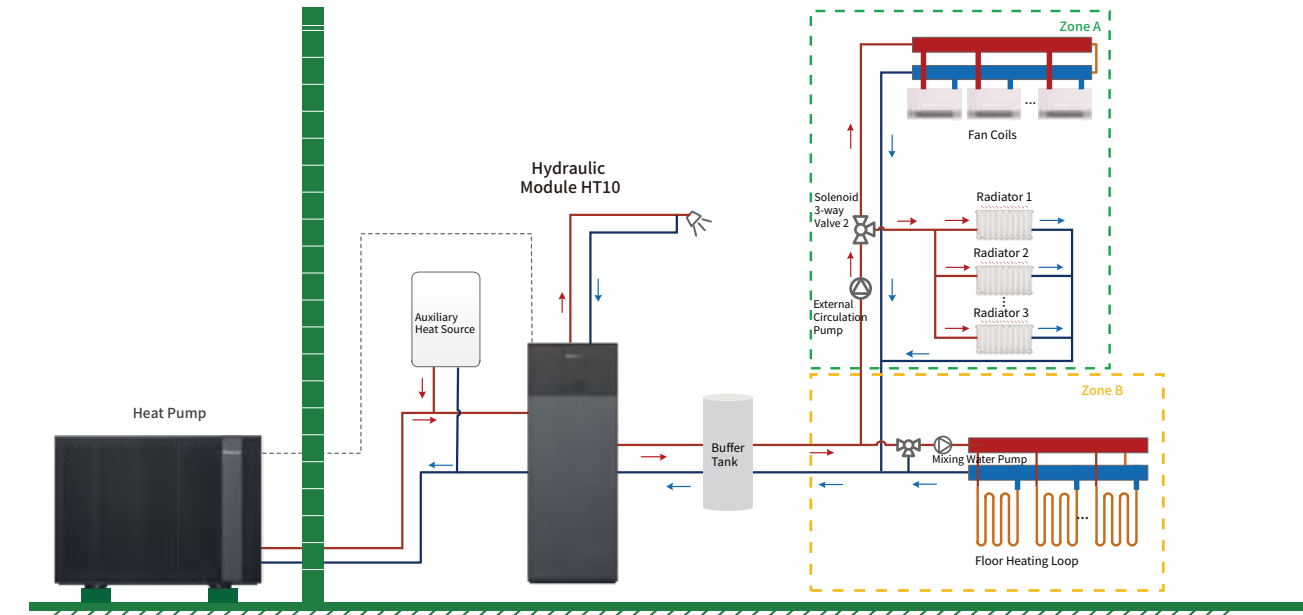




Hydraulic Tower

Hydraulic Module HT10

- ★ Centralized control for domestic heating, cooling and DHW
- ★ Include all the functions of the Control Module CM10 and Hydraulic Station HS10
- ★ Hydraulic components integrated, utilizing quick-connect fittings to facilitate easy installation and connection
- ★ Enhance the installation efficiency of the system's electrical and hydraulic module



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
Controller	7-Inch / IPS 1024×600	7-Inch / IPS 1024×600	7-Inch / IPS 1024×600	7-Inch / IPS 1024×600	7-Inch / IPS 1024×600
Remote Control	WIFI / APP / IOT	WIFI / APP / IOT	WIFI / APP / IOT	WIFI / APP / IOT	WIFI / APP / IOT
Net Weight (kg)	7.96	34	37.67	150	150
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	740×850×2090	740×850×2090
Shipping Weight (kg)	15	40	42.28	160	160
Shipping Dimensions (L×W×H) (mm)	505×330×580	535×520×920	535×520×920	750×860×2100	750×860×2100
Shipping Weight (kg)	20	45	45	218	218
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.



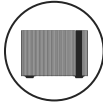
High Energy Efficiency



Built-in WiFi



Silent Operation



Innovative Structure



Model: NE-F	60HCR5INVMV2	90HCR5INVMV2	90HCR5TINVMV2	130HCR5INVMV2	130HCR5TINVMV2	160HCR5INVMV2	160HCR5TINVMV2
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C.							
Equivalent Maximum Heat Production(kW)	6	9	9	13	13	16	16
P _{rated} (Pdesignh, Average climate) (kW)	4.8/4.9	7.1/7.1	7.1/7.1	10.0/9.7	10.0/9.9	12.9/12.6	12.9/12.6
η _s (Average climate) (%)	200/144	199/146	199/146	203/149	199/149	200/145	200/145
SCOP (EN14825 Average climate) (W/W)	5.08/3.66	5.05/3.73	5.05/3.73	5.14/3.79	5.05/3.80	5.07/3.69	5.07/3.69
ErP Level (EN14825 Average climate)	A+++/A++						
Heat Output (EN14511-2) (kW)	4.2/4.1	5.9/5.9	5.9/5.9	7.9/7.9	7.8/7.9	10.1/10.1	10.1/10.1
COP (EN14511-2) (W/W)	5.1/3.2	4.9/3.2	4.9/3.2	5.0/3.1	5.0/3.1	5.1/3.2	5.1/3.2
Sound Power Level (EN12021-1)(dB(A))	47/46	54/54	54/54	54/52	55/55	53/54	53/54
Sound Pressure Level at 1m(dB(A))	32/31	38/38	38/38	38/37	40/39	38/39	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	2.33~6.96	3.27~9.13	3.27~9.13	4.32~11.8	4.32~11.8
Power Input (kW)	0.34~1.60	0.54~2.23	0.54~2.23	0.75~2.99	0.75~2.99	0.98~3.78	0.98~3.78
EER (W/W)	4.32~3.07	4.31~3.12	4.31~3.12	4.34~3.06	4.34~3.06	4.38~3.12	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	9.33	13.45	13.45	16.60	16.60
Power Input (kW)	1.52	2.14	2.14	3.11	3.11	3.82	3.82
COP	4.35	4.35	4.35	4.32	4.32	4.35	4.35
Max. Power Input (kW)	2.8	4.5	4.5	5.4	5.4	5.8	5.8
Max. Running Current (A)	14.3	19.8	7.0	23.5	8.25	25.2	8.9
Max. Outlet Water Temp. (°C)	75						
Operation Range (°C)	-25~43						
Power Supply	220~240V~/50Hz		380~415V/3N~/50Hz	220~240V~/50Hz	380~415V/3N~/50Hz	220~240V~/50Hz	380~415V/3N~/50Hz
Rated Water Flow Rate (m³/h)	1.03	1.55	1.55	2.20	2.20	2.75	2.75
Compressor Brand	MITSUBISHI/Rotary						
Inverter Pump	Wilo/DC						
Water Side Heat Exchanger	Plate						
Air Side Heat Exchanger	Finned Tube						
Fan/Motor	Axial/DC						
Controller	HMI 7-Inch / IPS 600×1024						
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)	128	142	156	168	183	176	190
Net Dimensions (L×W×H) (mm)	1102×557×1021			1377×557×1021			

Notice:

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

Sunglow Series

R290 Residential Inverter
Heating / Cooling + DHW Heat Pump



R290
Eco Refrigerant



Low Noise



A+++
ErP Energy Label



75°C
Water Outlet



BAFA



MCS
CERTIFIED





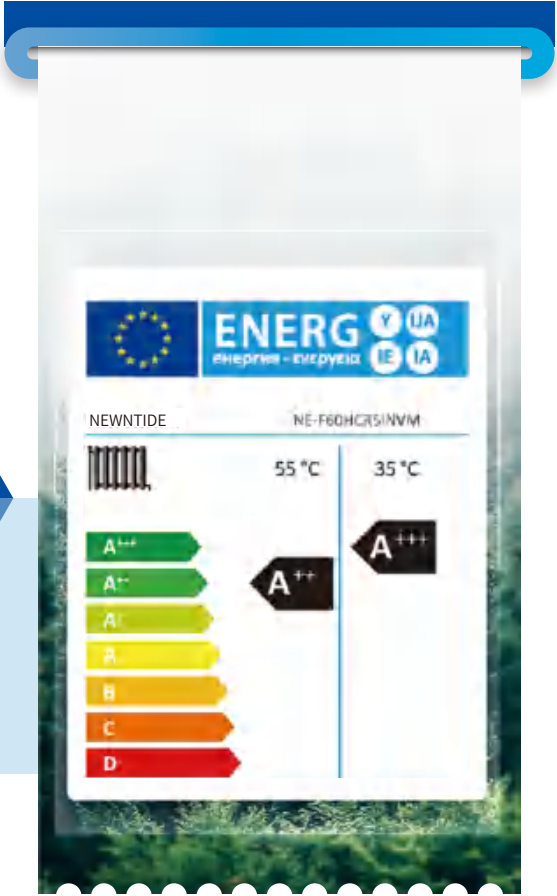
R290 Refrigerant



NEWNTIDE Sunglow Series heat pump uses the R290 eco-friendly refrigerant whose GWP is only 0.02 and helps curb global warming. The heat pump with R290 reaches higher efficiency than those with other refrigerants.

Energy Label

Complying with ErP directives, Sunglow Series proves itself with powerful capability and attains the A+++ energy label, which meets users' needs for low energy bills.



Energy

Colored Wire Controller

NEWNTIDE R290 heat pumps utilize an intelligent color LCD display with high definition interface and powerful functions, which is very friendly and helpful for users to view and control.



Low Noise

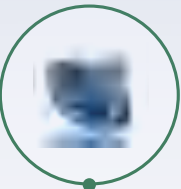
NEWNTIDE devotes to creating a pretty quiet running environment for the user through multiple noise reduction measures.

DC Inverter Compressor

DC Brushless Motor

Special Design Fan Blade

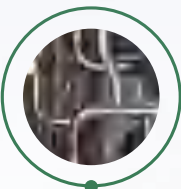
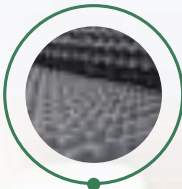
Shock Absorber Plate



Sound Absorbing Cotton

Turbulence Air Grille

Optimized Pipeline Design



Model: NE-F	60HCR5INVM	90HCR5INVM	130HCR5INVM	160HCR5INVM	90HCR5TINVM	130HCR5TINVM	160HCR5TINVM	200HCR5TINVM
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C.								
Heating Capacity (kW)	2.00~6.00	3.50~8.81	4.50~12.74	6.00~16.00	3.50~8.81	4.50~12.74	6.00~16.00	6.70~20.36
Power Input (kW)	0.30~1.31	0.58~1.89	0.75~2.82	1.0~3.49	0.58~1.89	0.75~2.82	1.00~3.49	1.12~4.62
Heating Current Input Range(A)	1.32~5.75	2.65~8.18	3.43~12.20	4.4~15.3	0.95~3.10	1.23~4.61	1.63~5.70	1.79~7.17
COP	6.00~4.58	6.00~4.65	6.00~4.52	6.00~4.59	6.00~4.65	6.00~4.52	6.00~4.59	5.98~4.40
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 50°C/55°C.								
Heating Capacity (kW)	1.80~5.40	3.15~7.98	3.90~11.25	5.4~14.4	3.15~7.98	3.90~11.25	5.4~14.4	5.80~18.48
Power Input (kW)	0.39~1.74	0.68~2.55	0.85~3.66	1.17~4.97	0.68~2.55	0.85~3.66	1.17~4.97	1.26~6.29
Heating Current Input Range(A)	1.71~7.64	3.11~11.00	3.89~15.85	5.14~21.8	1.11~4.17	1.39~5.98	1.92~8.11	2.02~10.06
COP	4.63~3.10	4.63~3.13	4.59~3.07	4.61~2.90	4.63~3.13	4.59~3.07	4.60~2.90	4.60~2.94
[Space Cooling] Ambient Temp. (DB/WB): 35°C / -, Water Temp. (Inlet/Outlet): 12°C/7°C.								
Cooling Capacity (kW)	1.20~4.00	1.53~5.96	2.93~8.87	3.50~13.00	1.53~5.96	2.93~8.87	3.50~13.00	4.40~14.40
Power Input (kW)	0.26~1.38	0.33~2.11	0.63~3.26	0.76~4.33	0.33~2.11	0.63~3.26	0.76~4.33	0.95~4.69
Cooling Current Input Range(A)	1.15~6.06	1.51~9.13	2.88~14.10	3.34~19.00	0.54~3.45	1.03~5.33	1.24~7.08	1.52~7.26
EER	4.62~2.90	4.64~2.82	4.65~2.72	4.60~3.0	4.64~2.82	4.65~2.72	4.63~3.0	4.63~3.08
[Hot Water] Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. from 15°C to 55°C.								
Heating Capacity (kW)	6.60	9.33	13.90	17.20	9.33	13.90	17.20	22.69
Power Input (kW)	1.52	2.14	3.28	4.00	2.14	3.28	4.00	5.19
Hot Water Current Input Range(A)	6.66	9.8	14.36	17.75	3.5	5.36	6.53	7.95
COP	4.35	4.35	4.24	4.30	4.35	4.24	4.30	4.37
Max. Power Input (kW)	2.8	4	5	6	4	5	6	6.8
Max. Running Current (A)	14.3	18.3	22.9	29	7.1	8.7	10.8	11.6
Max. Outlet Water Temp. (°C)					75			
Operation Range (°C)					-25~43			
Power Supply	220~240V~/50Hz				380~415V/3N~/ 50Hz			
Rated Water Flow (m³/h)	1.03	1.5	2.19	2.75	1.5	2.19	2.75	3.44
Water Pressure Drop (kPa)	30	37	41	48	37	41	48	68
Expansion Tank (L)	2			5	2		5	
Compressor Brand	Highly							
Circulating Pump Brand	GPA25-7.5H	GPA25-9H	GPA25-9H	GPA25-11H	GPA25-9H	GPA25-9H	GPA25-11H	GPA25-11H
Water Side Heat Exchanger					Plate Heat Exchanger			
Air Side Heat Exchanger					Finned Heat Exchanger			
CO2 Equivalent (Ton)	0.0019	0.0023	0.0029	0.0049	0.0023	0.0029	0.0049	0.0049
ErP Level (35°C)					A+++			
ErP Level (55°C)					A++			
Display					4-inch Colored Touch Screen			
Wi-Fi Function					YES			
Refrigerant Type					R290			
Refrigerant weight (KG)	0.65	0.78	0.94	1.65	0.78	0.94	1.65	1.65
Sound Pressure Level dB(A) at 1m	42	44	46	39	43	48	54	56
Sound power level dB(A)	56	59	60	54	58	62	69	72
Water Pipe Connection (inch)					G1 1/4"			
Fan Motor Type	ZWR80-A55				ZWR150-H51			
Fan Quantity	1			2	1		2	
Water Proof Class					IPX4			
Electricity Shock Proof					I			
Net Weight (kg)	84	115	119	175	129	133	180	180
Net Dimensions (L×W×H) (mm)	1180 x 440 x 710	1263 x 440 x 875		1263 x 440 x 1375	1263 x 440 x 875		1263 x 440 x 1375	

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

Hi-ViVa Series

R32 ATW Monobloc Heat Pump



Eco-friendly R32 Refrigerant

The Hi-Viva series uses R32 refrigerant with a low GWP of 675, supporting global efforts to reduce greenhouse gas emissions. Its lower refrigerant charge further reduces the overall system cost and environmental impact.



A+++ Energy Efficiency Class

The Hi-Viva Series achieves the top A+++ energy efficiency class, which guarantees lower electricity consumption, helping you save on energy costs while minimizing environmental impact.



Advanced EVI Technology

- **Low-Temperature Operation**

Featuring an advanced EVI compressor, this heat pump delivers powerful heating performance in ultra-low temperature climates, ensuring reliable heating from -28°C to 43°C.

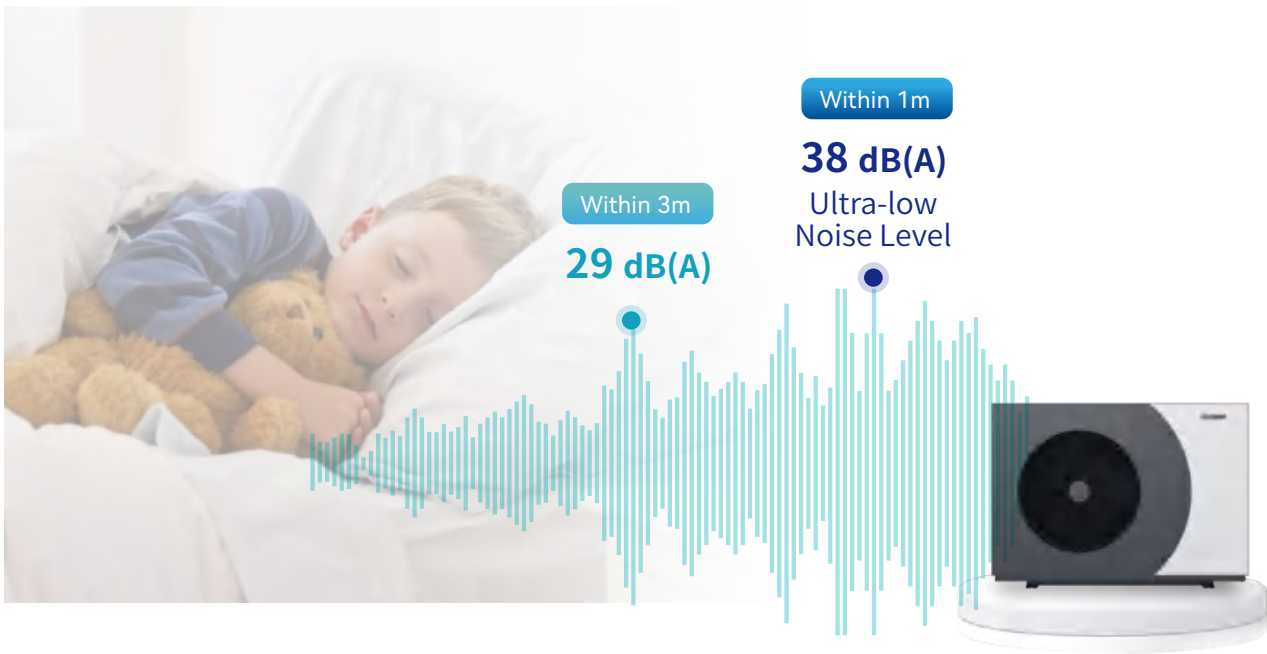
- **Intelligent Frequency Control**

Using the fuzzy logic algorithm, the compressor dynamically adjusts its frequency based on real-time conditions, ensuring optimal efficiency while preventing frequent start-stop cycles for greater energy savings.



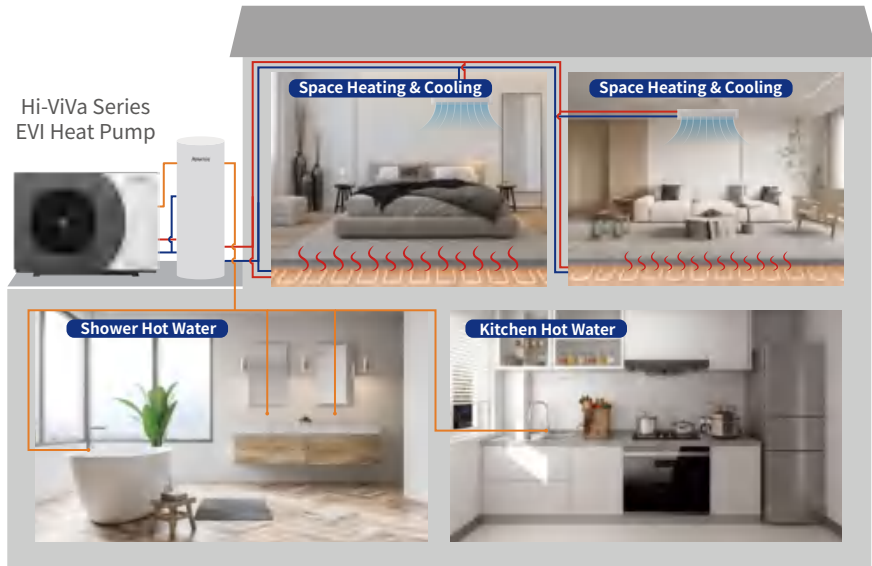
Quiet Operation

This heat pump is designed to operate with exceptional performance and quietness, achieving an impressively low noise level down to 38dB(A) at a distance of 1 meter, and delivering a perfect balance of efficiency and comfort.



Easy Installation

The monobloc design of the heat pump eliminates the need for complex refrigerant piping and complicated knowledge required for installation. Additionally, the innovative inlet and outlet water pipes at the rear of the unit enhance both the installation convenience and the overall aesthetic appeal.



The Hi-Viva Series heat pump is compatible with smart grid technology to optimize energy use, reducing costs by minimizing consumption during peak demand and high electricity price periods.

Built-in Electric Heater

The heat pump includes a built -in auxiliary electric heater available in 3kW, 6kW, and 9kW options. This provides additional heat to ensure reliable and efficient heating under extremely cold conditions.





Smart Colored Screen Controller

The unit is equipped with a standard 4-inch controller, with an optional upgrade to a 7-inch controller available. The controller supports up to 26 languages, providing a multilingual menu for seamless operation, significantly enhancing user experience and accessibility.



• Operation Control and Settings

- ✓ Temperatures Settings
- ✓ Timer Setting
- ✓ Language Switch
- ✓ Parameter Setting
- ✓ Manual defrosting

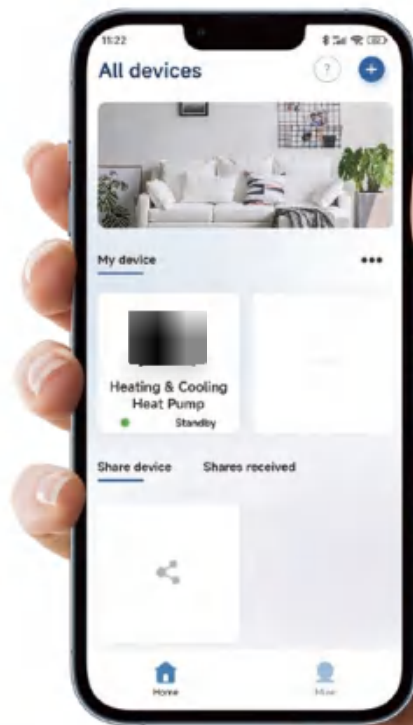
• Various Modes and Functions

-  Two-Zone Control
-  Silent Mode
-  Holiday Mode
-  Underfloor Preheating Function
-  DHW Sterilization Function

WiFi Connectivity

You can connect seamlessly to our self-developed Eco-Home APP for remote control and management, enhancing user convenience and experience.

- ✓ Temperature Setting
- ✓ Timer settings
- ✓ Mode settings
- ✓ Status Query
- ✓ Temperature curve



Remote Monitoring

The IoT platform enables real-time monitoring of all parameters, streamlined management of cascaded units. We can offer sub-accounts for dealers to solve after-sales issues faster and enhance customer satisfaction.



Model: NE-F	90HCR4INEMV2	130HCR4INEMV2	180HCR4INEMV2	180HCR4TINEMV2	220HCR4TINEMV2
Pmax (Equivalent Maximum Heat Production) (kW)	9.00	13.00	18.00	18.00	22.00
ErP Level (EN14825 Average climate, W35°C/W55°C)	A+++/A++				
Prated (Pdesignh, Average climate, W35°C /W55°C) (kW)	5.84 / 5.69	8.97 / 8.79	12.30 / 12.53	12.30 / 12.53	13.91 / 13.90
ηs (Average climate, W35°C/W55°C) (%)	186 / 131	193 / 135	193 / 141	193 / 141	193 / 139
SCOP (EN14825 Average climate, W35°C/W55°C) (WW)	4.72 / 3.34	4.91 / 3.46	4.89 / 3.59	4.89 / 3.59	4.90 / 3.55
Sound Power Level (EN12021-1, W35°C/W55°C) (dB(A))	52	54	58	58	66
Sound Pressure Level at 1m(W35°C/W55°C) (dB(A))	38	40	44	44	52
Sound Pressure Level at 3m(W35°C/W55°C) (dB(A))	29	31	35	35	43
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C.					
Heating Capacity (kW)	2.72~9.03	3.94~13.06	4.83~18.09	4.83~18.09	6.36~22.05
Power Input (kW)	0.46~2.01	0.67~2.93	0.82~4.20	0.82~4.20	1.08~5.27
EER (WW)	5.91~4.49	5.88~4.46	5.89~4.31	5.89~4.31	5.89~4.18
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 50°C/55°C.					
Heating Capacity (kW)	2.45~9.01	3.55~13.00	4.35~18.05	4.35~18.05	5.72~22.00
Power Input (kW)	0.63~3.09	0.92~4.45	1.13~6.22	1.13~6.22	1.49~8.09
EER (WW)	3.89~2.92	3.86~2.92	3.85~2.90	3.85~2.90	3.84~2.72
[Space Cooling] Ambient Temp. (DB/WB): 35°C / -, Water Temp. (Inlet/Outlet): 12°C/7°C.					
Cooling Capacity (kW)	2.09~6.26	2.95~8.78	3.92~13.01	3.92~13.01	4.61~15.35
Power Input (kW)	0.47~2.21	0.66~3.09	0.88~4.58	0.88~4.58	1.04~5.48
EER (WW)	4.45~2.83	4.47~2.84	4.45~2.84	4.45~2.84	4.43~2.80
[Hot Water] Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. from 15°C to 55°C.					
Heating Capacity (kW)	9.33	13.90	16.81	16.81	21.65
Power Input (kW)	2.14	3.21	3.91	3.91	5.02
COP (WW)	4.36	4.33	4.30	4.30	4.31
Max. Power Input (kW)	6.8(3.8+3)	7.7(4.7+3)	10.5(7.5+3)	10.5(7.5+3) 13.5(7.5+6) 16.5(7.5+9)	11.5(8.5+3) 14.5(8.5+6) 17.5(8.5+9)
Max. Running Current (A)	31(17.3+13.7)	35.1(21.4+13.7)	48.5(34.8+13.7)	26.7(13.0+13.7) 22.1(13.0+9.1) 26.7(13.0+13.7)	28.7(15.0+13.7) 24.1(15.0+9.1) 28.7(15.0+13.7)
Max. Outlet Water Temperature (°C)	60				
Operating Ambient Temperature Range (°C)	-28~43				
Power Supply	220~240V~/50Hz			380~415V/3N~/ 50Hz	
Rated Water Flow Rate (m³/h)	1.55	2.24	3.10	3.10	3.78
Water Pressure Drop (kPa)	30	40	50	50	60
Compressor	GMCC/Rotary				
Circulating Pump	Shinhoo GPA25-7.5H/130 / Shinhoo GPA25-9HW/130		Shinhoo GPA25-11H/130		
Water Side Heat Exchanger	Plate heat exchanger				
Air Side Heat Exchanger	Finned heat exchanger				
Fan/Motor	DC motor				
Fan Quantity	1				
Display	4-inch Colored Touch Screen				
Remote Control	Yes				
Refrigerant Type	R32				
Water Pipe Connection (inch)	G1 1/4"				
Ingress Protection Rating	IPX4				
Electric Shock Protection Class	I				
Net Weight (kg)	90	118	157	162	168
Net Dimensions (L×W×H) (mm)	1151×450×713	1230×450×885	1301×540×970		

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

Sunpro Series

Residential EVI Inverter
Heating & Cooling Heat Pump



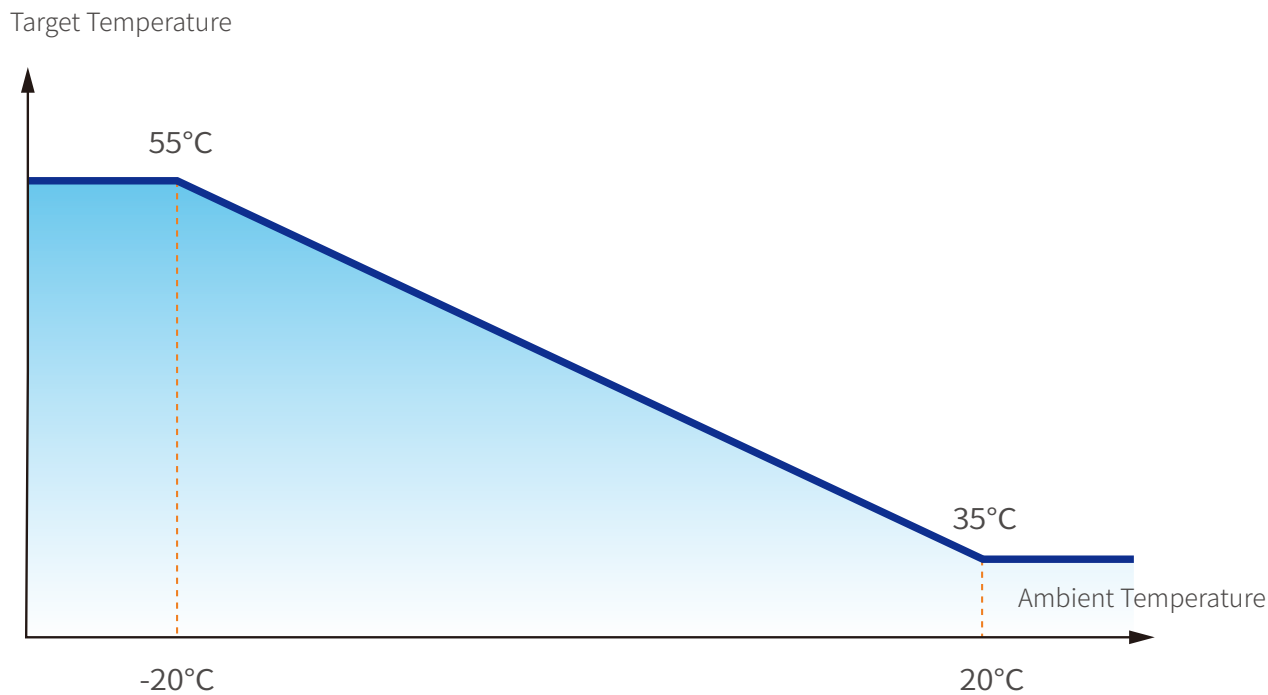
EVI Technology

EVI stands for “Enhanced Vapor Injection” and is a technology used on our low-temperature heat pumps to achieve higher performance at lower temperatures as down as -25°C. With EVI technology and inverter compressor, the Sunpro Series can work stably and remain high efficiency.



Intelligent Water Temperature Adjustment

The unique control logic enables Sunpro Series to adjust the outlet water temperature intelligently, according to the real-time ambient temperature. Therefore, the heat pump can deliver heating, cooling, and domestic hot water at a constant temperature.





Model: NE-F	60HCR4INEM	90HCR4INEM	130HCR4INEM	160HCR4INEM	90HCR4TINEM
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C.					
Heating Capacity (kW)	1.73~6.06	4.52~9.40	4.52~12.60	4.81~15.88	4.52~9.40
Power Input (kW)	0.28~1.31	0.89~2.03	0.89~2.74	0.81~3.91	0.89~2.03
COP	6.18~4.63	5.08~4.62	5.08~4.60	5.94~4.06	5.08~4.62
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 50°C/55°C.					
Heating Capacity (kW)	1.12~5.29	3.69~9.30	3.73~12.23	3.90~15.99	3.69~9.30
Power Input (kW)	0.26~2.03	1.50~3.31	1.59~4.31	1.03~5.92	1.50~3.31
COP	4.31~2.61	2.46~2.81	2.35~2.84	3.79~2.70	2.46~2.81
[Space Cooling] Ambient Temp. (DB/WB): 35°C/~, Water Temp. (Inlet/Outlet): 12°C/7°C.					
Cooling Capacity (kW)	0.97~4.86	2.80~7.60	3.25~9.76	2.63~13.66	2.80~7.60
Power Input (kW)	0.21~1.76	1.10~2.22	0.87~3.74	0.59~4.81	1.10~2.22
EER	4.62~2.76	2.55~3.42	3.74~2.61	4.46~2.84	2.55~3.42
[Hot Water] Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. from 15°C to 55°C.					
Heating Capacity (kW)	7.32	11.04	13.5	16.81	11.04
Power Input (kW)	1.73	2.43	3.06	3.94	2.43
COP	4.22	4.54	4.41	4.27	4.54
Electric Heater Rated Input (kW)	3				3/6/9 (optional)
Max. Power Input (kW)	5.1 (2.1+3)	6.8 (3.8+3)	7.7 (4.7+3)	9.6 (6.6+3)	12.8 (3.8+9)
Max. Running Current (A)	23.2 (9.5+13.7)	31 (17.3+13.7)	35.1 (21.4+13.7)	42.4 (28.7+13.7)	19.2 (5.5+13.7)
Max. Outlet Water Temp. (°C)	60				
Operation Range (°C)	-25~43				
Power Supply	220~240V~/50Hz				380~415V/3N~/ 50Hz
Rated Water Flow (m³/h)	1	1.6	2.1	2.7	1.6
Compressor Brand	Panasonic	Mitsubishi			
Circulating Pump	Built-In				
Expansion Tank (L)	2			5	2
Fan Number	1			2	1
ErP Level (35°C)	A+++				
ErP Level (55°C)	A++				
Refrigerant	R32				
Sound Pressure Level dB (A) at 1m	46	50	45	47	51
Water Pipe Connection (inch)	G1 1/4"				
Water Proof Class	IPX4				
Electricity Shock Proof	I				
Net Weight (kg)	85	107	111	153	121
Net Dimensions (L×W×H) (mm)	1180×440×710	1263x 440 x 875		1263x 440 x 1375	1263× 440×875

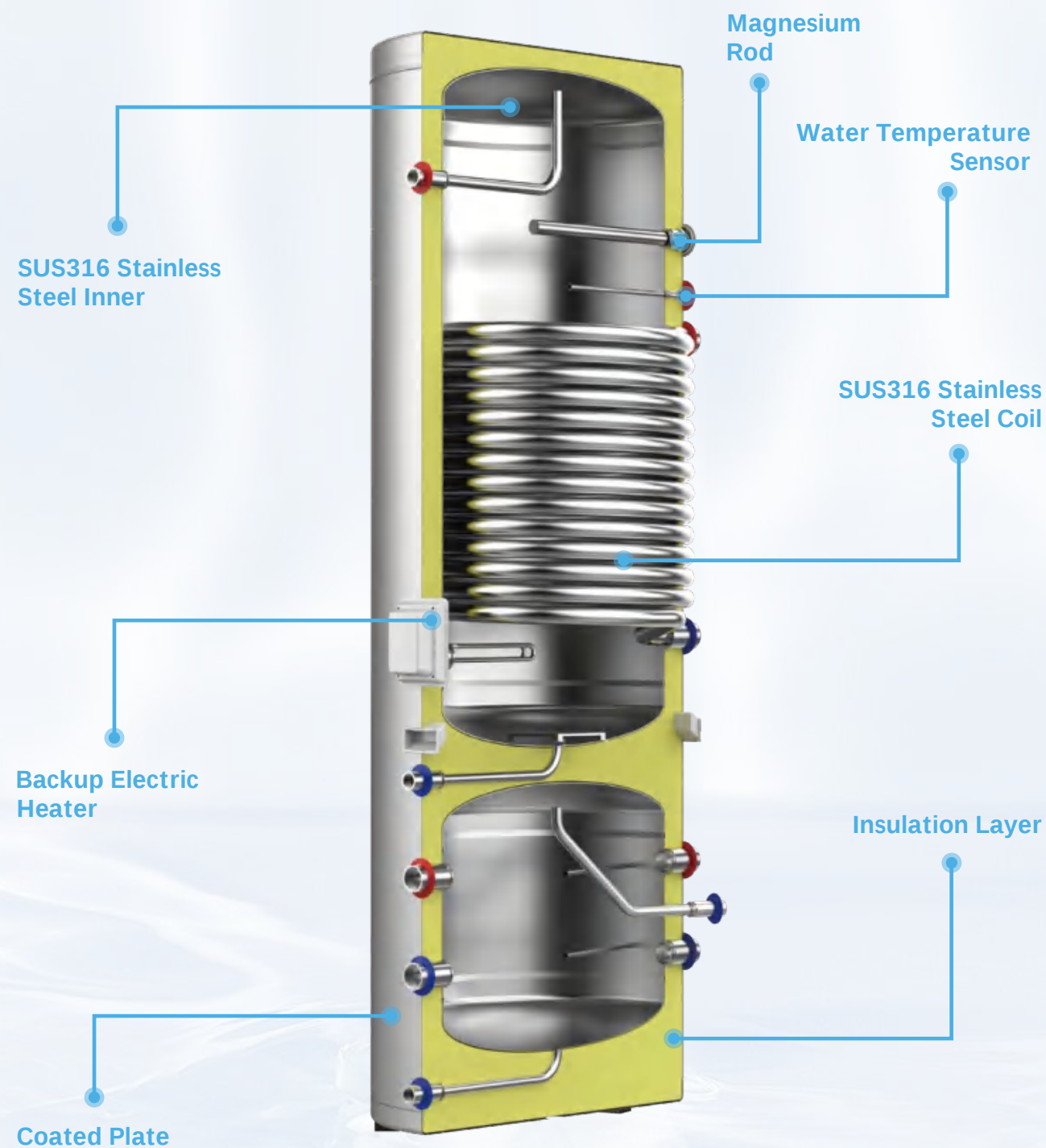
Model: NE-F	130HCR4TINEM	160HCR4TINEM	200HCR4TINEM	260HCR4TINEM	320HCR4TINEM
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C.					
Heating Capacity (kW)	4.52~12.60	4.81~15.88	6.36~20.49	8.54~26.08	12.86~31.74
Power Input (kW)	0.89~2.74	0.81~3.91	1.08~4.89	1.46~6.26	2.18~7.58
COP	5.08~4.60	5.94~4.06	5.89~4.19	5.85~4.17	5.90~4.19
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 50°C/55°C.					
Heating Capacity (kW)	3.73~12.23	3.90~15.99	3.41~18.8	4.67~25.9	8.73~30.91
Power Input (kW)	1.59~4.31	1.03~5.92	0.89~7.13	1.04~9.62	1.99~12.22
COP	2.35~2.84	3.79~2.70	3.83~2.64	4.49~2.69	4.39~2.53
[Space Cooling] Ambient Temp. (DB/WB): 35°C /~, Water Temp. (Inlet/Outlet): 12°C/7°C.					
Cooling Capacity (kW)	3.25~9.76	2.63~13.66	3.31~17.4	4.37~21.4	8.91~28.14
Power Input (kW)	0.87~3.74	0.59~4.81	0.76~6.14	1.02~7.32	2.08~10.86
EER	3.74~2.61	4.46~2.84	4.36~2.83	4.28~2.92	4.28~2.59
[Hot Water] Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. from 15°C to 55°C.					
Heating Capacity (kW)	13.5	16.81	23.97	26.98	35.69
Power Input (kW)	3.06	3.94	5.65	6.47	8.34
COP	4.41	4.27	4.24	4.17	4.28
Electric Heater Rated Input (kW)	3/6/9 (optional)				
Max. Power Input (kW)	13.7 (4.7+9)	15.6 (6.6+9)	16.5 (7.5+9)	20.5 (11.5+9)	21.8(12.8+9)
Max. Running Current (A)	21.5 (7.8+13.7)	25.2 (11.5+13.7)	26.4 (12.7+13.7)	33.2 (19.5+13.7)	35.5(21.8+13.7)
Max. Outlet Water Temp. (°C)	60				
Operation Range (°C)	-25~43				
Power Supply	380~415V/3N~/ 50Hz				
Rated Water Flow (m³/h)	2.1	2.7	3.4	4.4	5.5
Compressor Brand	Mitsubishi				
Circulating Pump	Built-In				
Expansion Tank (L)	2	5			10
Fan Number	1	2			2
ErP Level (35°C)	A+++				
ErP Level (55°C)	A++				
Refrigerant	R32				
Sound Pressure Level dB (A) at 1m	53	48	56	57	63
Water Pipe Connection (inch)	G1 1/4"				G1 1/2"
Water Proof Class	IPX4				
Electricity Shock Proof	I				
Net Weight (kg)	125	163	168	173	205
Net Dimensions (L×W×H) (mm)	1263× 440×875	1263 × 440 × 1375			1145 x 483 x 1580

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

GEMINI SERIES COMBI TANK



Internal Structure Of Water Tank

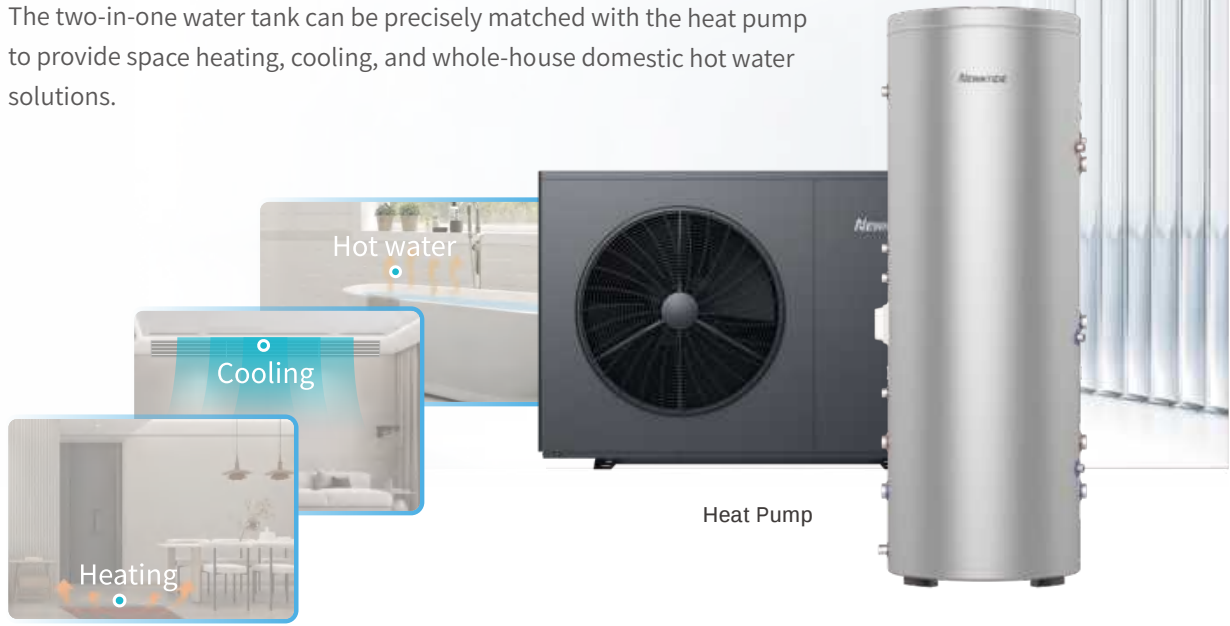


Space Saving

Thanks to its vertical integrated design, the Gemini Series combi tank saves half of the occupied floor area, making it flexible to be installed in a narrow place. Moreover, it increases the convenience of water pipe installation and improves installation efficiency.

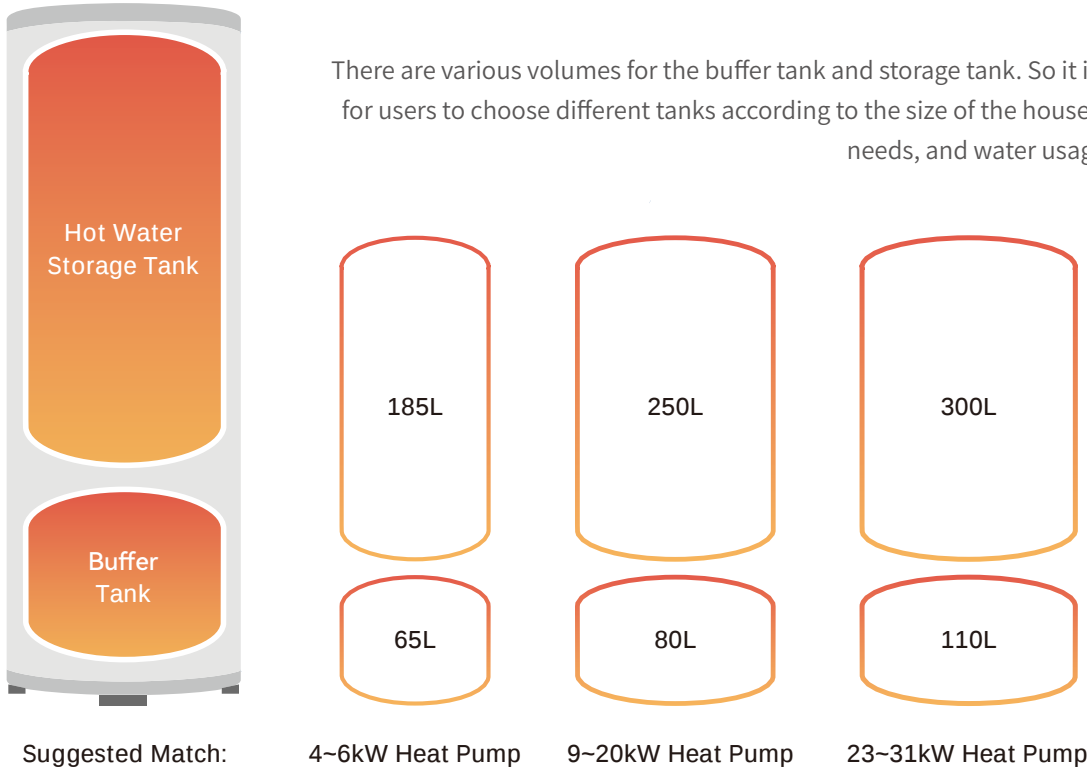
Compatible With Air Source Heat Pump

The two-in-one water tank can be precisely matched with the heat pump to provide space heating, cooling, and whole-house domestic hot water solutions.

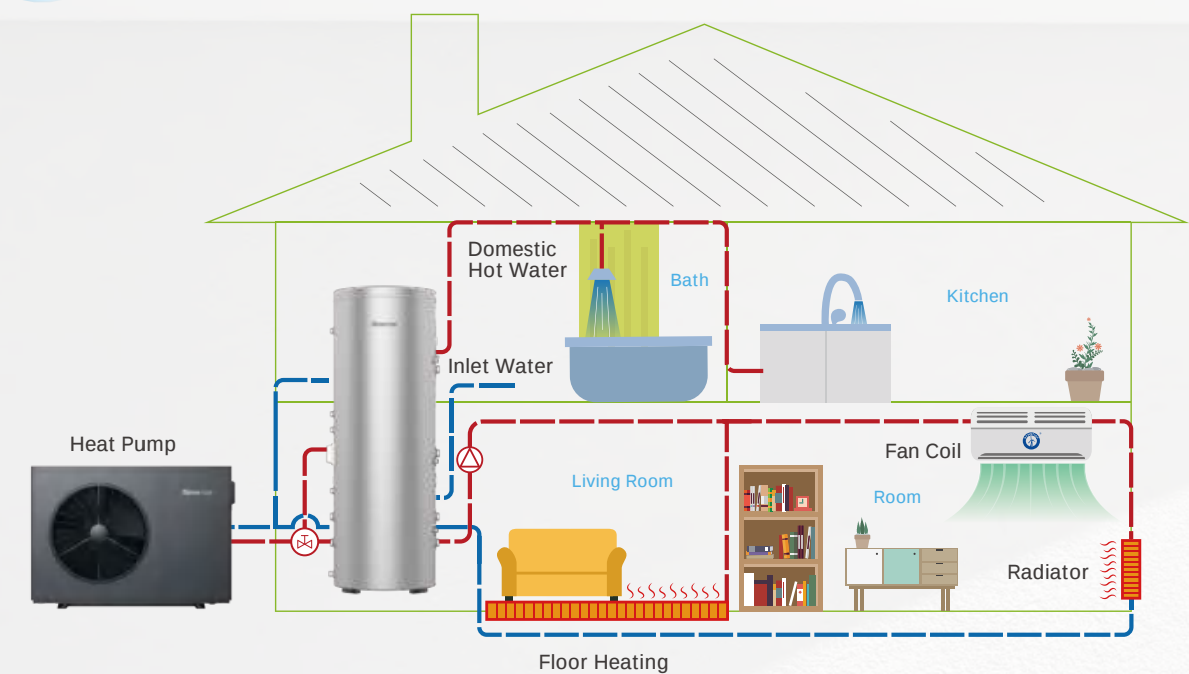


Various Tank Volumes

There are various volumes for the buffer tank and storage tank. So it is flexible for users to choose different tanks according to the size of the house, heating needs, and water usage needs.



Installation Sketch Map



Parameter Sheet

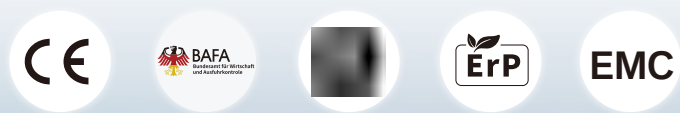
Model: NE-F	185+65WBHMIC6-SA	250+80WBHMIC6-SA	300+110WBHMIC6-SA
DHW TANK			
Rated volume (L)	185	250	300
Coil area of DHW pipe (m²)	1.98	3.18	3.18
Coil diameter of DHW	Ø28mm×15m	Ø32mm×20.5m	Ø32mm×20.5m
Max. safe Temp. of the DHW tank coil	110		
Electric heater rated power (kW)	2		
Electric heater voltage	220		
Max. running current	9.1		
BUFFER TANK			
Rated volume (L)	65.0	78.5	103.4
DHW/BUFFER TANK			
Net dimensions (mm)	Ø560×1895	Ø650×1895	Ø700×1895
Inner Tank Material	SUS316		
Outer Tank Material	Coated Plate		
Anodic Protection Type	Magnesium		

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



Climastar Series

R290 Commercial Heat Pump
Heating / Cooling / DHW



R290 Natural Refrigerant

The unique control logic enables Sunspro Series to adjust the outlet water temperature intelligently, according to the real-time ambient temperature. Therefore, the heat pump can deliver heating, cooling, and domestic hot water at a constant temperature.
Comply with the regulatory requirements to reduce greenhouse gas emissions.



A+++ / A+++ Energy Efficiency

This commercial heat pump maintains an A+++ energy efficiency rating at both 35°C and 55°C, showcasing excellent performance consistency.



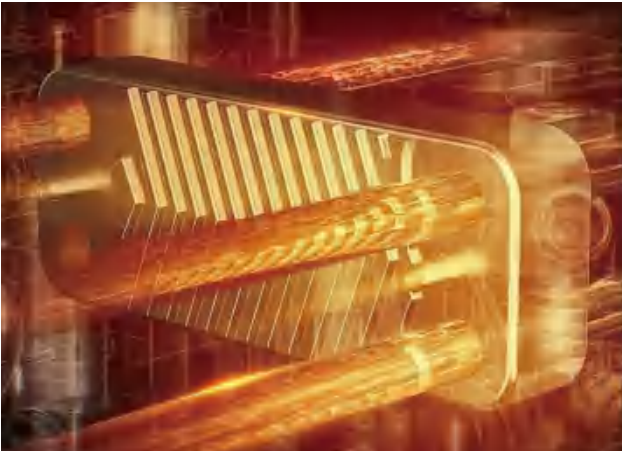
Full DC Inverter Technology, Precise Temperature Control



DC Inverter Compressor

- Using the famous brand Mitsubishi's Inverter Compressor designed for R290 heat pump
- The integration of asymmetrical sliding vane slot and high-precision grinding technology improves efficiency while reducing noise.

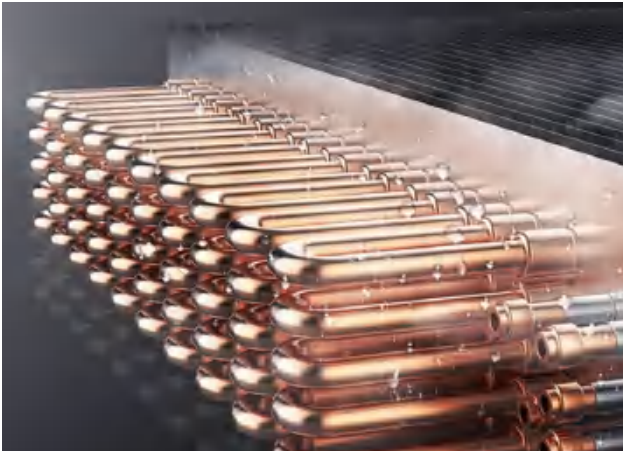
Increased Heat Transfer Efficiency



Water-side

Plate heat exchanger

The system using a high-efficiency plate heat exchanger on the water side, can offer superior heat transfer performance compared to traditional shell and tube heat exchangers.



Air-side

Hydrophilic copper tubes and aluminum fins

The air-side heat exchanger uses high-efficiency hydrophilic copper tubes and aluminum fins. It is designed to optimize the refrigerant flow path, significantly improving heat exchange efficiency.

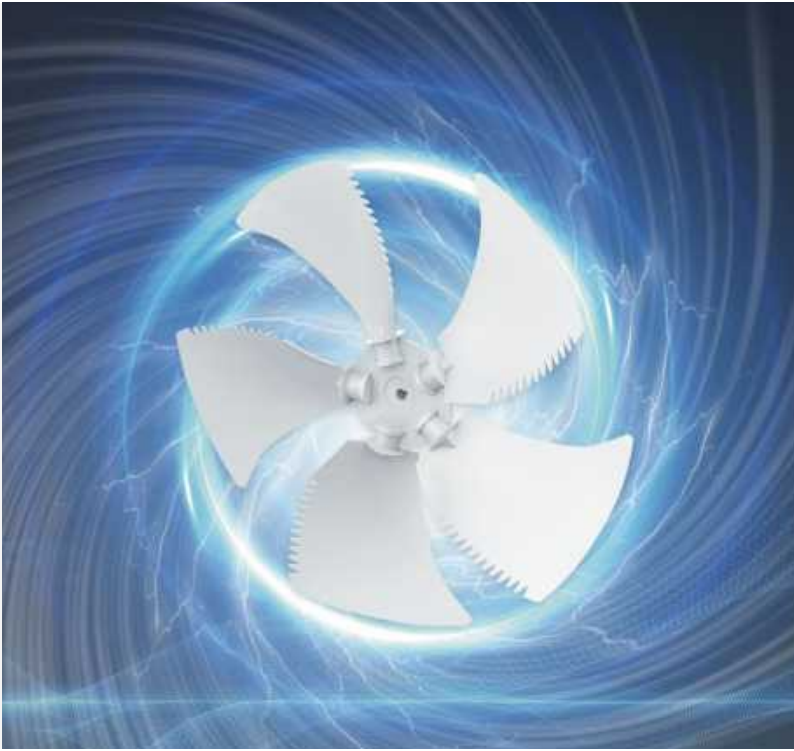
Intelligent AI Defrosting

This system utilizes AI defrost technology that dynamically adjusts the defrosting parameters based on the ambient temperature and operating status. It precisely initiates defrosting mode only when needed, avoiding unnecessary defrost cycles when there is no frost.



Optimized Fan with DC Motor

- The DC inverter fan motor allows to steplessly adjust the fan speed based on the ambient temperature to optimize the unit's performance.
- Large size serrated streamlined fan blades improve aerodynamic efficiency while effectively reducing fan noise.



Seven Noise Reduction Measures

The unique control logic enables Sunspro Series to adjust the outlet water temperature intelligently, according to the real-time ambient temperature. Therefore, the heat pump can deliver heating, cooling, and domestic hot water at a constant temperature.

Comply with the regulatory requirements to reduce greenhouse gas emissions.

Thickened Chassis

Gas Flow Buffer Technology

Fan Motor Speed Control Design

Large Size Fan Blades Design

Serrated Streamlined Blade Design

360° Surrounded Soundproof Compressor Chamber

Two-layer Damping Bases for Compressor



Unique Drain Pan Design

The drain pan features a slide-shaped drainage groove design, allowing for smoother water drainage and reducing residual water.

A built-in heating strip prevents ice formation in the drain pan during low-temperature defrosting.



7-inch Touch Screen Controller

- Switch on and off
- WiFi setting
- Electricity statistics
- Three mode switching
- Temperature setting
- Timing setting
- Fault alarm
- User parameter setting
- Defrost mode setting
- Holiday mode setting



Group Control

Maximum 16 units as one group to work together with one controller. Multiple such groups can be configured to meet large-scale heating and cooling needs.

maximum 16 units



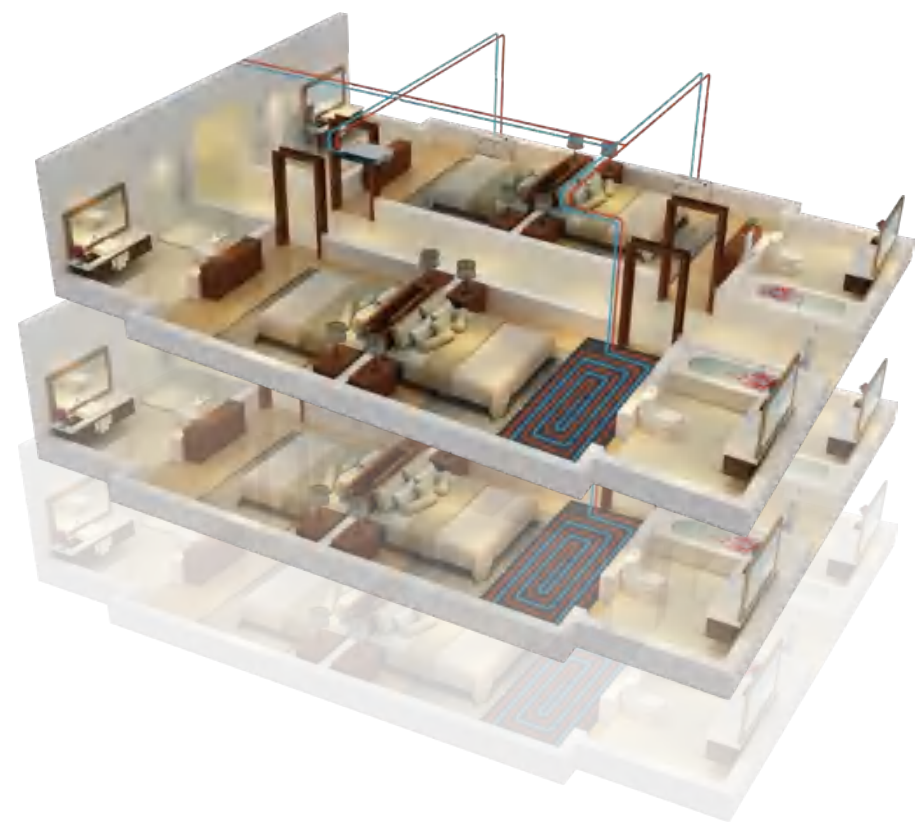
Multiple Safety Designs

- A separate cooling air duct for the drive board
- An Independent electrical box isolated from refrigerant piping
- Perforated base frame designed to avoid refrigerant gas accumulation



Commercial Heat Pump Application

Large-scale heating and cooling solution



Model: NE-F		500HCR5TINVM-USC	1000HCR5TINVM-USC	500HCR5TINVM-USV	1000HCR5TINVM-USV
P _{rated} (Pdesignh@A-10°C/W35°C, average climate)	(kW)	34	69	34	69
P _{rated} (Pdesignh@A-10°C/W55°C, average climate)	(kW)	32	65	32	66
SCOP (W35°C, average climate)	(W/W)	5.1	5.2	5.35	5.27
SCOP (W55°C, average climate)	(W/W)	4.0	4.0	4.0	4.1
ErP Level (W35°C, average climate)		A+++		A+++	
ErP Level (W55°C, average climate)		A+++		A+++	
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C.					
Heating Capacity	(kW)	13.62~50.00	27.24~104.00	13.62~50.00	27.24~104.00
Power Input	(kW)	2.34~11.68	4.68~24.53	2.34~11.68	4.68~24.53
Heating Current Input Range	(A)	3.95~19.72	7.90~41.62	3.95~19.72	7.90~41.62
COP	(W/W)	5.82~4.28	5.82~4.24	5.82~4.28	5.82~4.24
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 50°C/55°C.					
Heating Capacity	(kW)	12.26~46.00	24.52~98.00	12.26~46.00	24.52~98.00
Power Input	(kW)	2.99~15.43	5.98~33.11	2.99~15.43	5.98~33.11
Heating Current Input Range	(A)	5.04~26.04	10.08~55.06	5.04~26.04	10.08~55.06
COP	(W/W)	4.10~2.98	4.10~2.86	4.10~2.98	4.10~2.86
[Space Cooling] Ambient Temp. (DB/WB): 35°C / -, Water Temp. (Inlet/Outlet): 12°C/7°C.					
Cooling Capacity	(kW)	7.60~35.00	15.20~80.00	7.60~35.00	15.20~80.00
Power Input	(kW)	1.76~12.36	3.52~28.37	1.76~12.36	3.52~28.37
Cooling Current Input Range	(A)	2.97~20.86	5.94~47.87	2.97~20.86	5.94~47.87
EER	(W/W)	4.30~2.83	4.30~2.82	4.30~2.83	4.30~2.82
[Water Heating] Ambient Temp. (DB/WB): 20°C / 15°C, Water Temp. (Inlet/Outlet): 15°C/55°C.					
Heating Capacity	(kW)	60.00	120.00	60.00	120.00
Power Input	(kW)	13.04	26.25	13.04	26.25
Heating Current Input Range	(A)	22.02	44.33	22.02	44.33
COP	(W/W)	4.60	4.57	4.60	4.57
Max. Power Input	(kW)	17.20	34.40	17.20	34.40
Max. Running Current	(A)	28.00	56.00	28.00	56.00
Max. Outlet Water Temperature	(°C)	75		75	
Operating Ambient Temperature	(°C)	-25~43		-25~43	
Power Supply	(V/Ph/Hz)	380~415V/3N~/ 50Hz		380~415V/3N~/ 50Hz	
Display		7-inch Colored Touch Screen		7-inch Colored Touch Screen	
Refrigerant Type		R290		R290	
Refrigerant Weight	(kg)	2.0×2	2.0×4	2.0×2	2.0×4
Sound Pressure Level at 1m	(dB(A))	52	55	52	55
Sound Power Level	(dB(A))	70	73	70	73
Rated Water Flow	(m³/h)	8.6	17.9	8.6	17.9
Water Pressure Drop	(kPa)	25	28	25	28
Water Pipe Connection		DN50	DN65	DN50	DN65
Direction of Air Discharge		Top		Top	
Fan/Motor Type		Axial/DC		Axial/DC	
Fan Quantity	(PCS)	1	2	1	2
Ingress Protection Rating		IPX4		IPX4	
Electric Shock Protection Class		I		I	
Net Weight	(kg)	490	968	510	988
Net Dimensions (L×W×H)	(mm)	1095×1315×2275	2190×1315×2275	1095×1315×2435	2190×1315×2435

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