NEWNTIDE®

Comfort your life with silent tech

NEWNTIDE
HEAT PUMP

Product Catalogue

Domestic Heating / Cooling / Hot Water

Official Website

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Hi-Master V Series

R290 Monobloc Air Source Heat Pump

Heating Hot water Cooling

R290 ECO-FRIENDLY

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

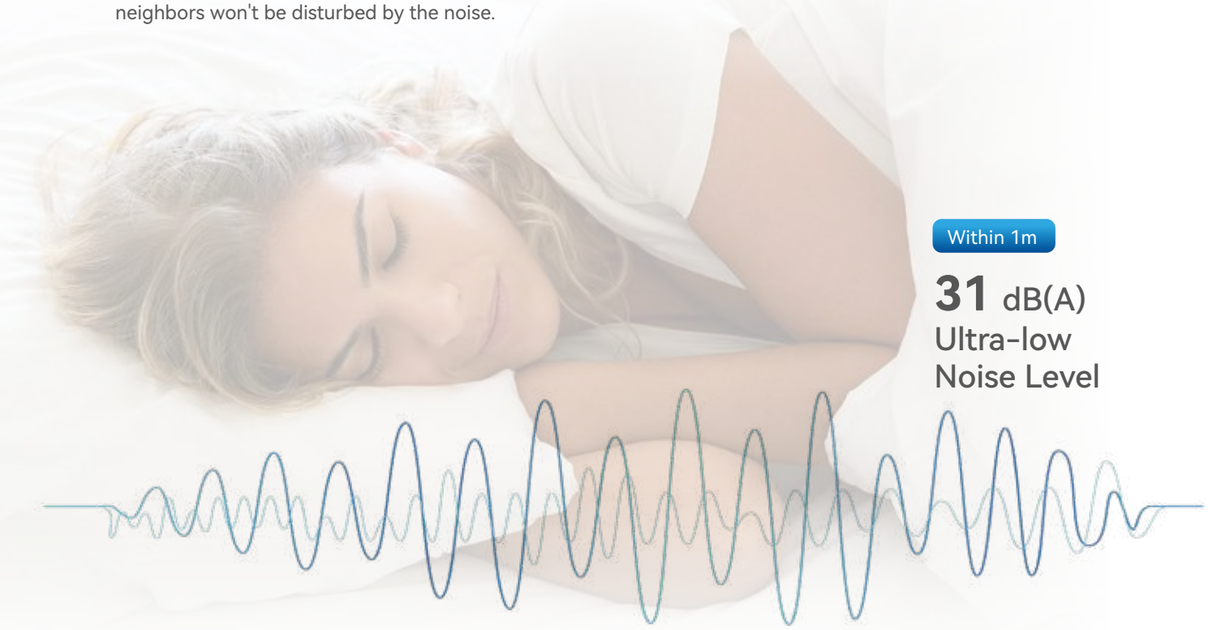
Low GWP and low carbon life

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

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 Flexible Screen

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

Flow Meter

Accurately read the real-time water flow of the unit to make sure the water circulation is under optimal conditions.

R290 Sensor

Detect the concentration of refrigerant and give an early warning when it reaches the safety setting value, which guarantee safety and stable operation.

Separator

It comes with a tool for regular sewage disposal to prevent pipeline pollution and ensure safe operation.

Featured Functions

Enhanced Capbilities

Multiple Defrost Measures

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

Multi-mode Adaptive Operation of Water Pump

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

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.

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.

Adaptive Energy-saving Algorithm

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

Multiple Safty 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

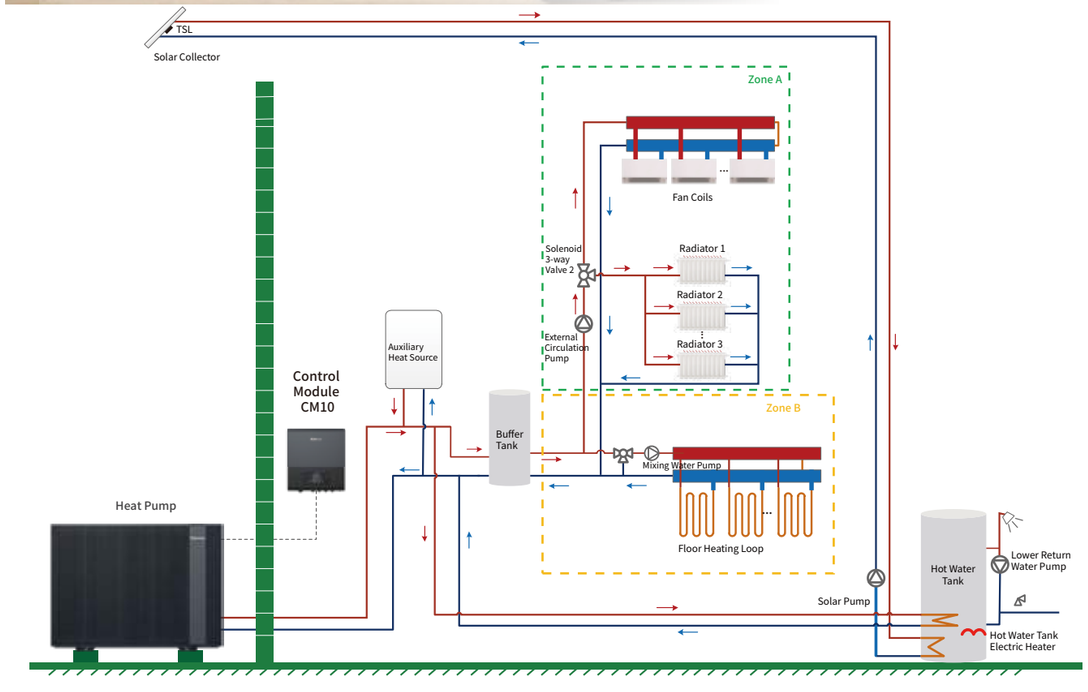
Control Module CM10

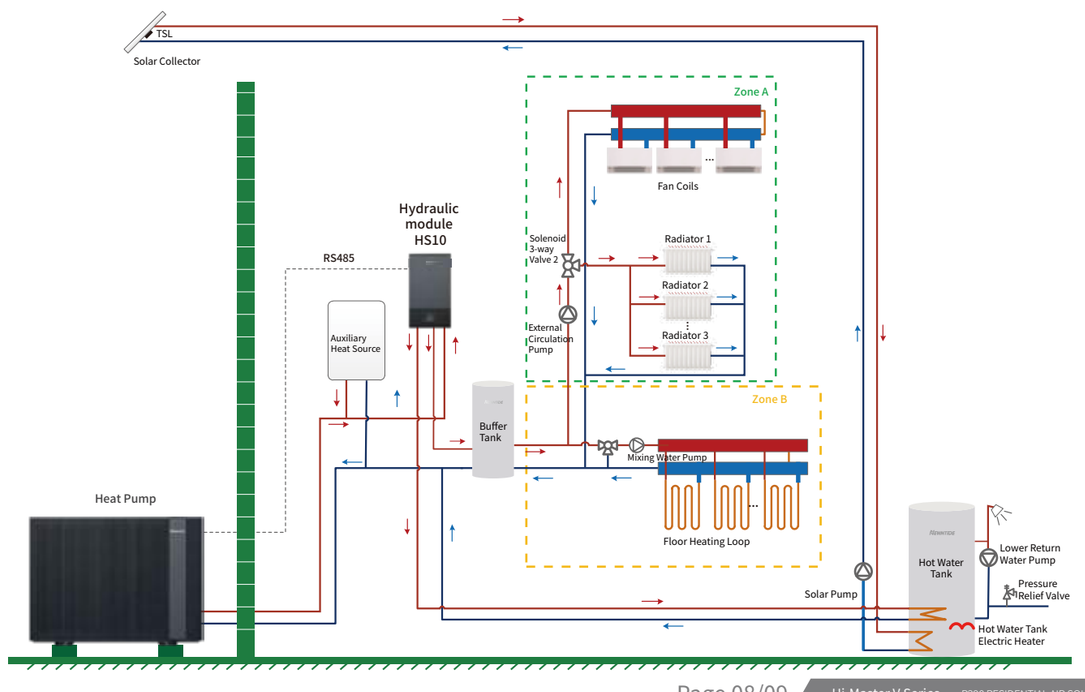
- Centralized control for domestic heating, cooling and DHW
- Advanced energy statistics algorithms
- 7-Inch user-friendly controller interface
- Integrated WIFI remote control
- Suitable for standard set-up and hybrid systems

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

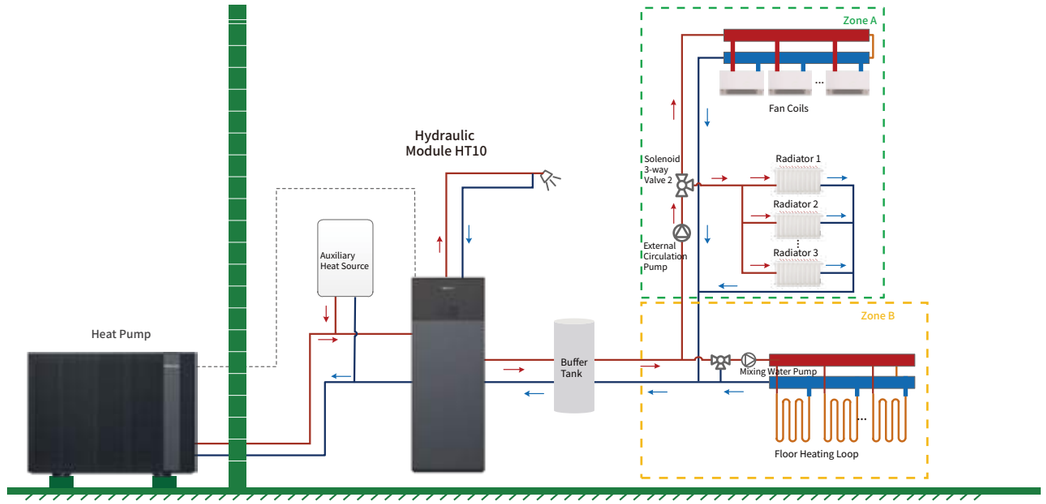




Hydraulic Tower

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(℃)	/	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）	7.96	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)	450x200x550	520x390x905	520x390x905	740x850x2090	740x850x2090
Shipping Weight (kg)	15	40	42.28	160	160
Shipping Dimensions (L×W×H) (mm)	505x330x580	535x520x920	535x520x920	750x860x2100	750x860x2100
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	180HCR5TINVMV2	220HCR5TINVMV2
[Space Heating] Ambient Temp. (DB/WB): 7℃/6℃, Water Temp. (Inlet/Outlet): 30℃/35℃.									
Equivalent Maximum Heat Production(kW)	6	9	9	13	13	16	16	18	22
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	15.0/15.0	17.0/17.0
η_s (Average climate) (%)	200/144	199/146	199/146	203/149	199/149	200/145	200/145	198/145	197/144
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	5.02/3.70	5.01/3.68
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	12.0/12.0	13.7/13.5
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	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	56/56	58/58
Sound Pressure Level at 1m(dB(A))	32/31	38/38	38/38	38/37	40/39	38/39	38/39	41/41	43/43
[Space Cooling] Ambient Temp. (DB/WB): 35℃ / -, Water Temp. (Inlet/Outlet): 12℃/7℃.									
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	4.73~13.50	5.82~16.65
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	1.09~4.45	1.35~5.55
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	4.34~3.03	4.31~3.00
[Hot Water] Ambient Temp. (DB/WB): 20℃/15℃, Water Temp. from 15℃ to 55℃.									
Heating Capacity (kW)	6.61	9.33	9.33	13.45	13.45	16.60	16.60	18.68	22.83
Power Input (kW)	1.52	2.14	2.14	3.11	3.11	3.82	3.82	4.34	5.33
COP	4.35	4.35	4.35	4.32	4.32	4.35	4.35	4.30	4.28
Max. Power Input (kW)	2.8	4.5	4.5	5.4	5.4	5.8	5.8	7.5	8.5
Max. Running Current (A)	14.3	19.8	7.0	23.5	8.25	25.2	8.9	11.6	13.2
Max. Outlet Water Temp. (℃)	75								
Operation Range (℃)	-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 (m^3/h)	1.03	1.55	1.55	2.20	2.20	2.75	2.75	3.10	3.78
Compressor Brand	MITSUBISHI/Rotary								
Circulating Pump	Wilo							Shinhoo	
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)	128	142	156	168	183	176	190	/	/
Net Dimensions (L×W×H) (mm)	1102×557×1021			1377×557×1021				1377×598×1021	

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 ℃。

Sunglow Series

R290 Residential Inverter
Heating / Cooling + DHW Heat Pump

R290
Eco Refrigerant

Low Noise

A+++
ErP Energy Label

75℃
Water Outlet

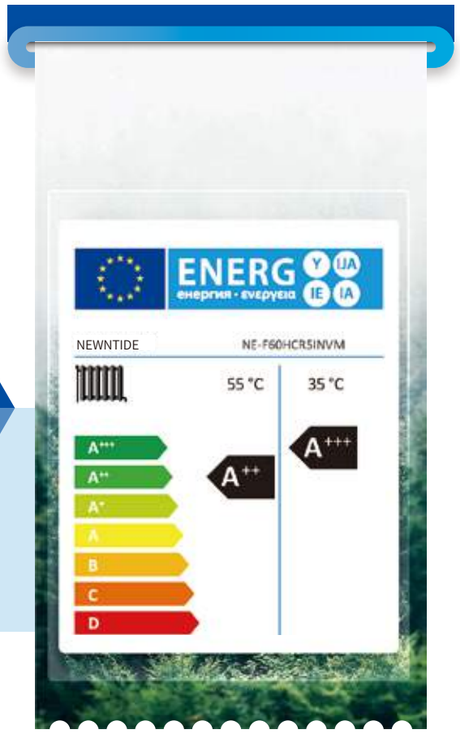
R290 Refrigerant

NEWNTIDE Sunglow Series heat pump uses the R290 eco-friendly refrigerant whose GWP is only 3 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



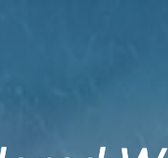
Colored Wire Controller

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.

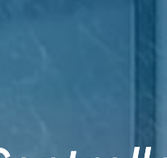
Low Noise

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

DC Inverter Compressor



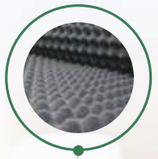
DC Brushless Motor



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 (m^3/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

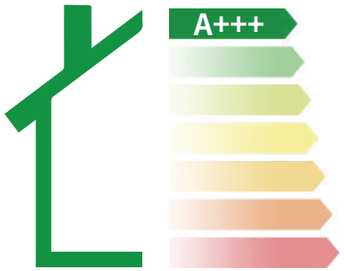
Heating Cooling DHW

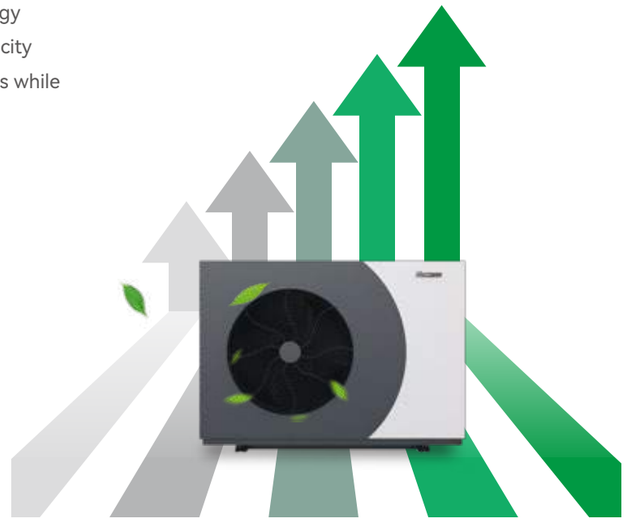
Eco-friendly R32 Refrigerant

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***

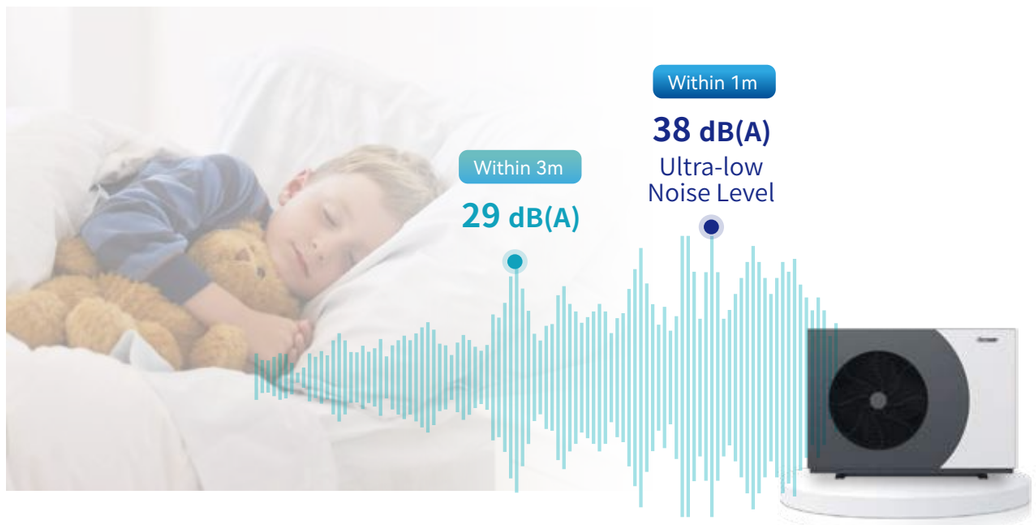
Featuring an advanced EVI compressor, this heat pump delivers powerful heating performance in ultra-low temperature climates, ensuring reliable heating from -28℃ to 43℃.

- ***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.

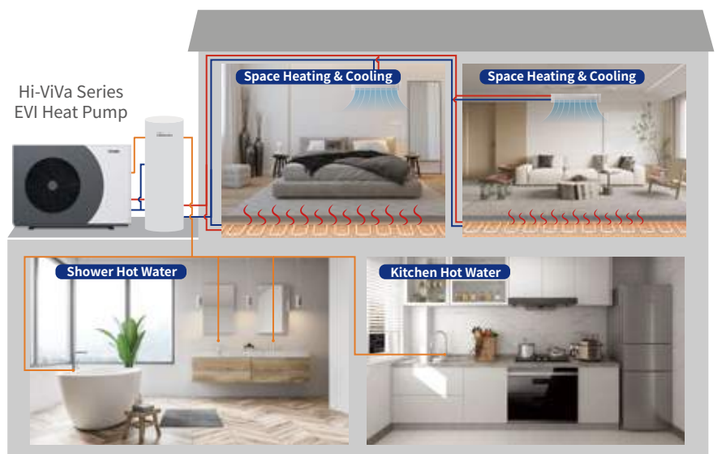
Quiet Operation

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.



SG Ready

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.

Optional 7-inch controller

• 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*

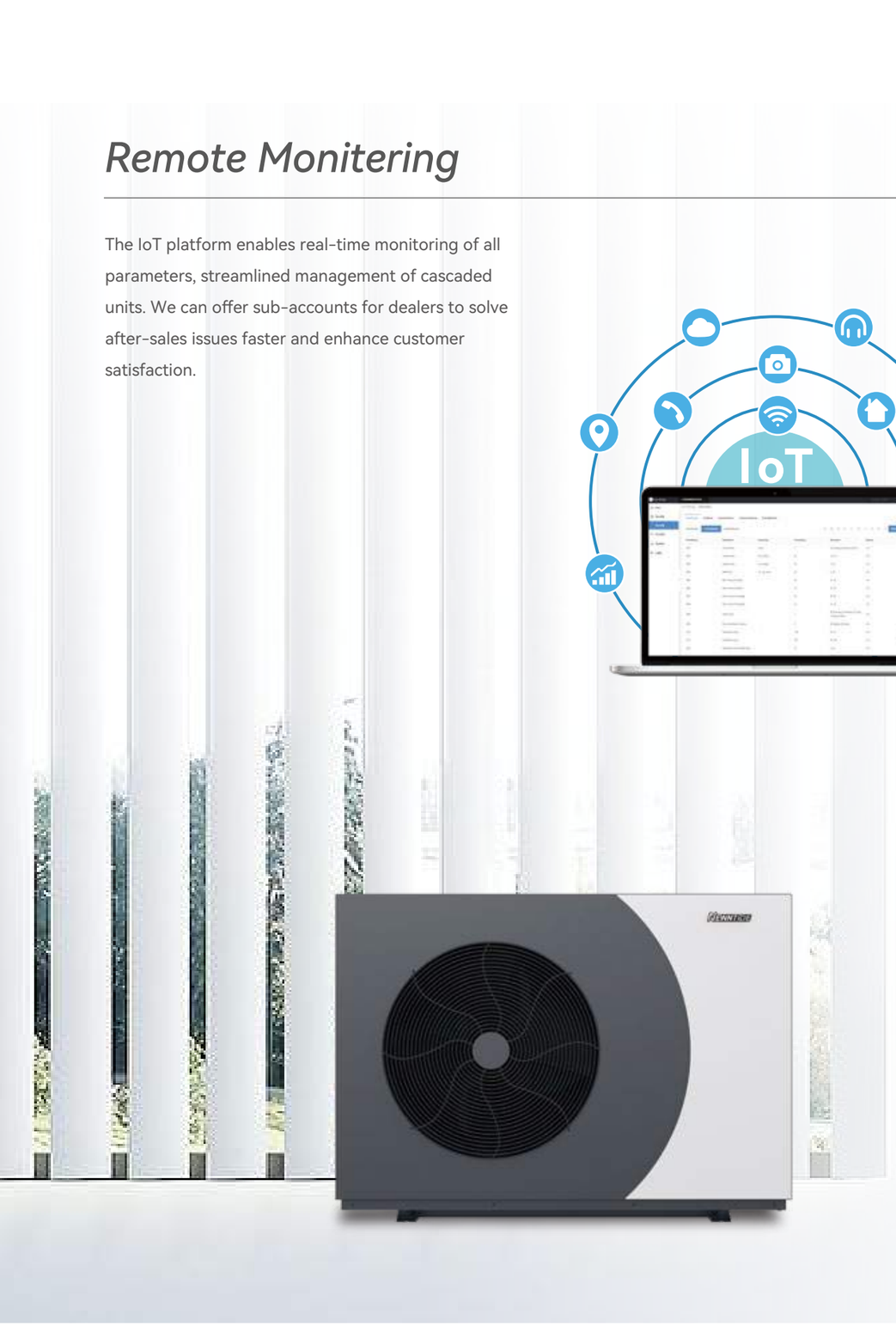
WiFi Connectivity

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 Monitering

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℃/W55℃)			A+++/A++		
Prated（Pdesignh, Average climate, W35℃ /W55℃）（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℃/W55℃）(%)	186 / 131	193 / 135	193 / 141	193 / 141	193 / 139
SCOP （EN14825 Average climate, W35℃/W55℃）（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℃/W55℃）(dB(A))	52	54	58	58	66
Sound Pressure Level at 1m(W35℃/W55℃)（dB(A)）	38	40	44	44	52
Sound Pressure Level at 3m(W35℃/W55℃)（dB(A)）	29	31	35	35	43
[Space Heating] Ambient Temp. (DB/WB): 7℃/6℃, Water Temp. (Inlet/Outlet): 30℃/35℃.					
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℃/6℃, Water Temp. (Inlet/Outlet): 50℃/55℃.					
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℃ / -, Water Temp. (Inlet/Outlet): 12℃/7℃.					
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℃/15℃, Water Temp. from 15℃ to 55℃.					
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（℃）	60				
Operating Ambient Temperature Range（℃）	-28~43				
Power Supply	220-240V~/50Hz			380~415V/3N~/ 50Hz	
Rated Water Flow Rate（m^3/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

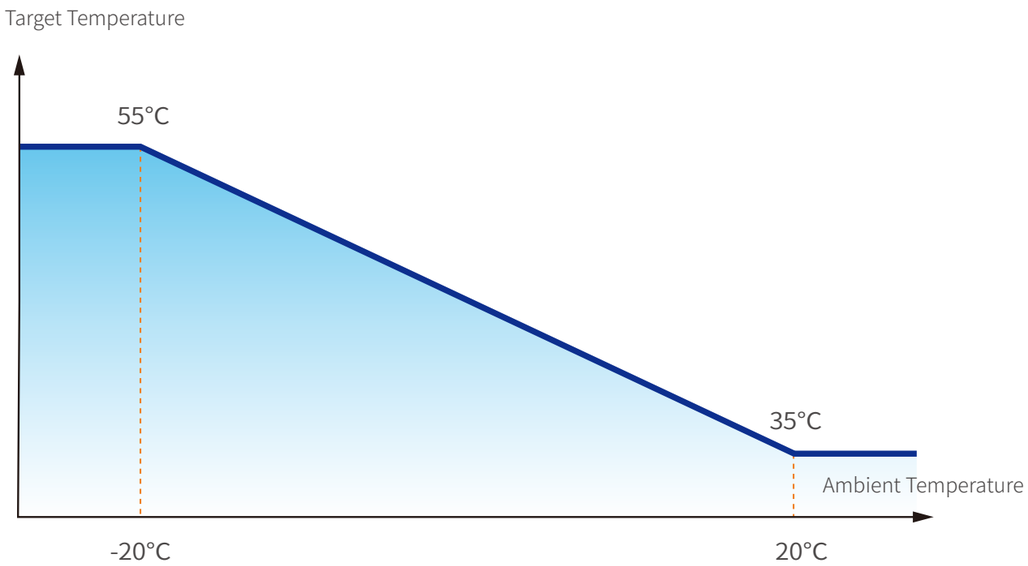
Residential EVI Inverter
Heating & Cooling Heat Pump

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℃. 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 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.



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 (m^3/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 (m^3/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.

Suntide Series

R32 Split System Inverter
EVI Multifunctional Heat Pump

Auxiliary Heat Source Control Function

With its intelligent control system, the NEWNTIDE heat pump can maximize precise cooperation with the existing auxiliary heat sources, such as gas boilers, electric heaters, etc., to ensure efficient and stable operation of each other.

Interlock with Solar Photovoltaic

The heat pump can receive signals about the power source and switch energy usage. When the electricity price is high, the heat pump runs as energy-saving as possible on the premise of ensuring the normal heating demand of the user. When electricity price is low, or even free (for example, from solar photovoltaic panels), the heat pump will use as much electric energy as possible. In this way, it will maximize energy efficiency and minimize running costs.

With SG Ready, the heat pump can automatically switch state according to the power storage of PV equipment and the peak and valley power status of the grid, making full use of free power.

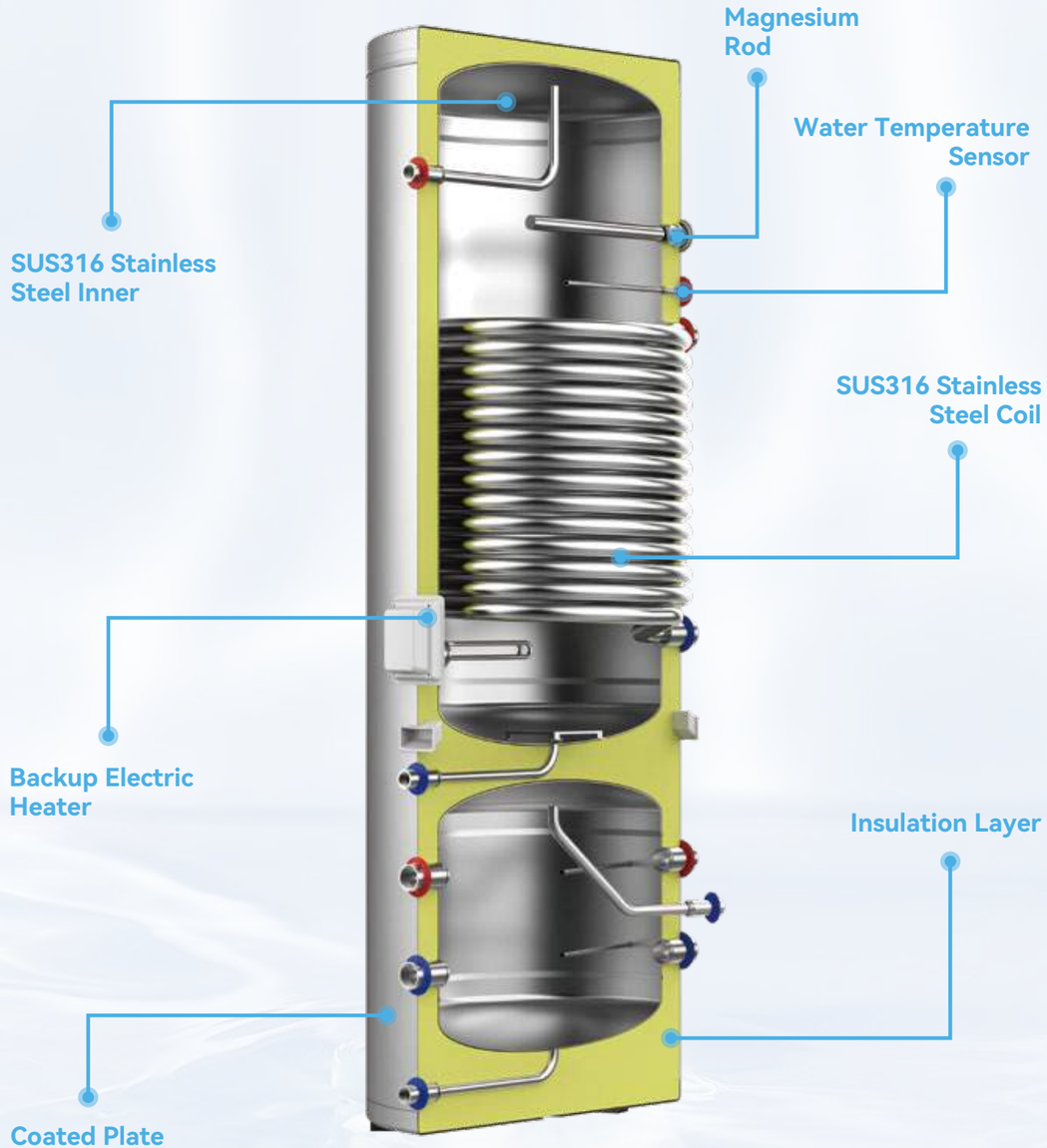
Model: NE-F	60HCR4INEMIO	90HCR4INEMIO	130HCR4INEMIO	160HCR4INEMIO
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C.				
Heating Capacity (kW)	1.68~5.88	4.52~9.02	4.52~12.60	4.67~15.57
Power Input (kW)	0.27~1.27	0.93~1.93	0.93~2.79	0.79~3.56
COP	6.22~4.63	4.84~4.67	5.84~4.51	5.91~4.37
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 50°C/55°C.				
Heating Capacity (kW)	1.09~5.13	3.69~8.93	3.73~12.23	2.74~13.70
Power Input (kW)	0.25~1.97	1.58~3.27	1.67~4.53	0.62~5.18
COP	4.36~2.60	2.34~2.73	2.23~2.70	4.42~2.64
[Space Cooling] Ambient Temp. (DB/WB): 35°C / -, Water Temp. (Inlet/Outlet): 12°C/7°C.				
Cooling Capacity (kW)	0.94~4.71	2.80~7.60	3.25~9.76	2.55~12.77
Power Input (kW)	0.20~1.71	1.16~2.33	0.91~3.93	0.57~4.87
EER	4.70~2.75	2.42~3.26	3.56~2.49	4.47~2.62
[Hot Water] Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. from 15°C to 55°C.				
Heating Capacity (kW)	7.1	11.04	13.5	17.12
Power Input (kW)	1.68	2.43	3.06	3.83
COP	4.23	4.33	4.2	4.47
Indoor Unit Info				
Electric Heater (kW)	3			
Expansion Tank (L)	8			
Water Pipe Connection (inch)	G1''			
Refrigerant outlet (mm)	Φ15.88			
Refrigerant inlet (mm)	Φ6.35	Φ9.52		
Rated Water Flow (m^3/h)	1.03	1.55	2.24	2.75
Circulating Pump	Built-In			
Sound Pressure Level dB (A) at 1m	31	34	35	34
Net Dimensions (mm)	786×450×285			
Water Proof Class	IPX1			
Outdoor Unit Info				
Compressor Brand	Panasonic	Mitsubishi		
Fan Number	1	1	1	2
Sound Pressure Level dB (A) at 1m	49	55	55	59
Net Dimensions (L×W×H) (mm)	913×449×710	980×460×935		998×468×1360
Water Proof Class	IPX4			
General Info				
Power Supply	220~240V~/50Hz			
ErP Level (35°C)	A+++			
ErP Level (55°C)	A++			
Max. Power Input (kW)	5.1 (2.1+3)	7 (4+3)	8 (5+3)	8.8 (5.8+3)
Max. Running Current (A)	23.2 (9.5+13.7)	31.9 (18.2+13.7)	36.4 (22.7+13.7)	40.1 (26.4+13.7)
Refrigerant	R32			
Operation Range (°C)	-25~43			
Max. Outlet Water Temp (°C)	60			
Electricity Shock Proof	I			

Model: NE-F	90HCR4TINEMIO	130HCR4TINEMIO	160HCR4TINEMIO	185HCR4ITNEMIO	200HCR4TINEMIO
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C.					
Heating Capacity (kW)	4.52~9.02	4.52~12.60	4.67~15.57	5.97~17.78	6.17~19.83
Power Input (kW)	0.93~1.93	0.93~2.79	0.79~3.56	1.00~4.02	1.05~4.47
COP	4.84~4.67	5.84~4.51	5.91~4.37	5.97~4.42	5.88~4.44
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 50°C/55°C.					
Heating Capacity (kW)	3.69~8.93	3.73~12.23	2.74~13.70	3.34~15.91	3.72~17.16
Power Input (kW)	1.58~3.27	1.67~4.53	0.62~5.18	0.76~6.14	0.86~6.83
COP	2.34~2.73	2.23~2.70	4.42~2.64	4.39~2.59	4.33~2.51
[Space Cooling] Ambient Temp. (DB/WB): 35°C / -, Water Temp. (Inlet/Outlet): 12°C/7°C.					
Cooling Capacity (kW)	2.80~7.60	3.25~9.76	2.26~12.45	3.03~14.68	3.28~16.80
Power Input (kW)	1.16~2.33	0.91~3.93	0.56~4.95	0.69~5.56	0.76~6.44
EER	2.42~3.26	3.56~2.49	4.04~2.52	4.39~2.64	4.32~2.61
[Hot Water] Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. from 15°C to 55°C.					
Heating Capacity (kW)	11.04	13.5	17.12	21.62	23.25
Power Input (kW)	2.43	3.06	3.83	5	5.48
COP	4.33	4.2	4.47	4.32	4.24
Indoor Unit Info					
Electric Heater (kW)	3/6/9 (optional)				
Expansion Tank (L)	8				
Water Pipe Connection (inch)	G1''				
Refrigerant outlet (mm)	Φ15.88				
Refrigerant inlet (mm)	Φ9.52				
Rated Water Flow (m^3/h)	1.55	2.24	2.75	3.18	3.44
Circulating Pump	Built-In				
Sound Pressure Level dB (A) at 1m	34	32	34	45	45
Net Dimensions (mm)	786×450×285				
Water Proof Class	IPX1				
Outdoor Unit Info					
Compressor Brand	Mitsubishi				
Fan Number	1	1	2	2	2
Sound Pressure Level dB (A) at 1m	52	56	59	59	60
Net Dimensions (L×W×H) (mm)	980×460×935		998×468×1360		
Water Proof Class	IPX4				
General Info					
Power Supply	380~415V/3N~/ 50Hz				
ErP Level (35°C)	A+++				
ErP Level (55°C)	A++				
Max. Power Input (kW)	13 (4+9)	14 (5+9)	14.8 (5.8+9)	15.6 (6.6+9)	16.2 (7.2+9)
Max. Running Current (A)	19.5 (5.8+13.7)	21.5 (7.8+13.7)	23.8 (10.1+13.7)	25.2 (11.5+13.7)	26 (12.3+13.7)
Refrigerant	R32				
Operation Range (°C)	-25~43				
Max. Outlet Water Temp (°C)	60				
Electricity Shock Proof	I				

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

GEMINI SERIES
COMBI TANK

Internal Structure Of Water Tank

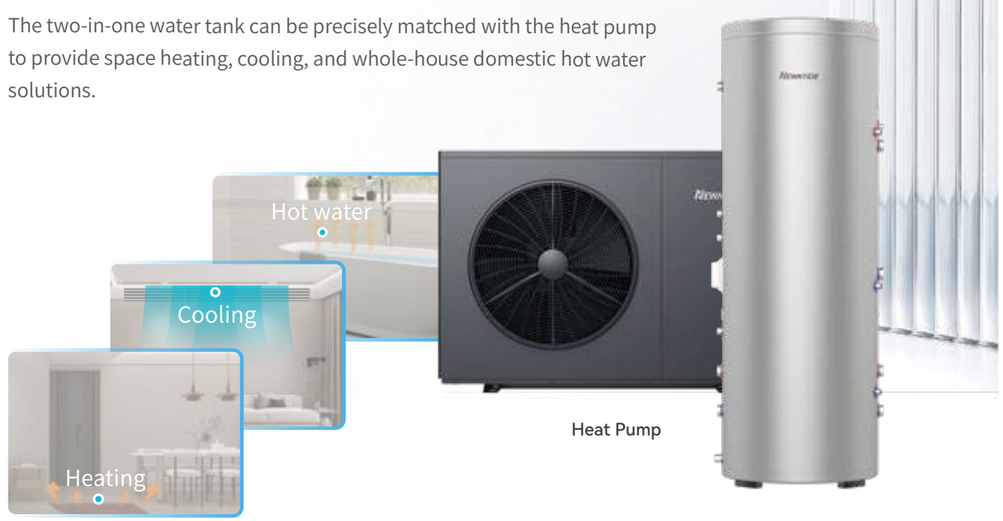


Space Saving

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.

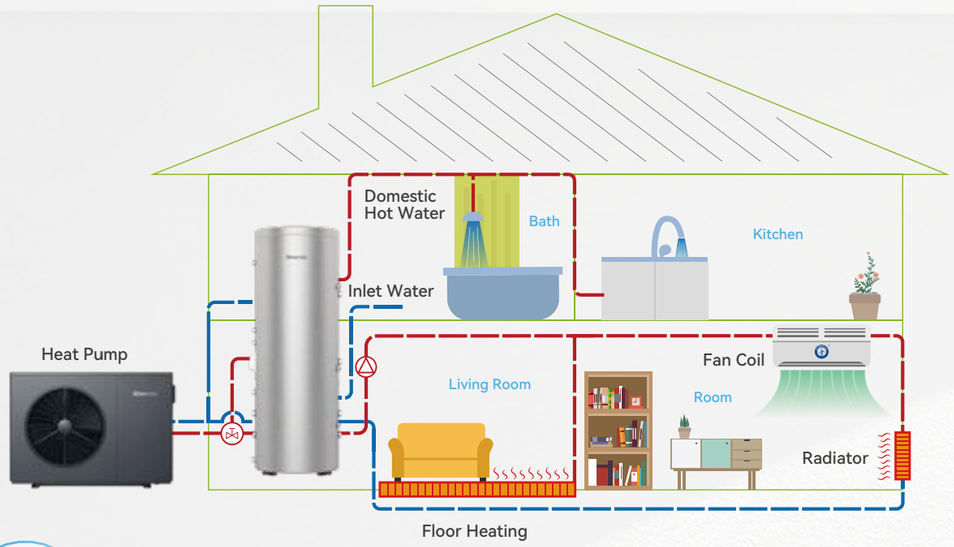


Various Tank Volumes

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.

Suggested Match:	4~6kW Heat Pump	9~20kW Heat Pump	23~31kW Heat Pump
Hot Water Storage Tank	185L	250L	300L
Buffer Tank	65L	80L	110L

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 (m^2)	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.