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LinkWarm

LinkWarm

ONE SYSTEM FOR ALL COMFORT

Heating, Cooling and Domestic Hot Water

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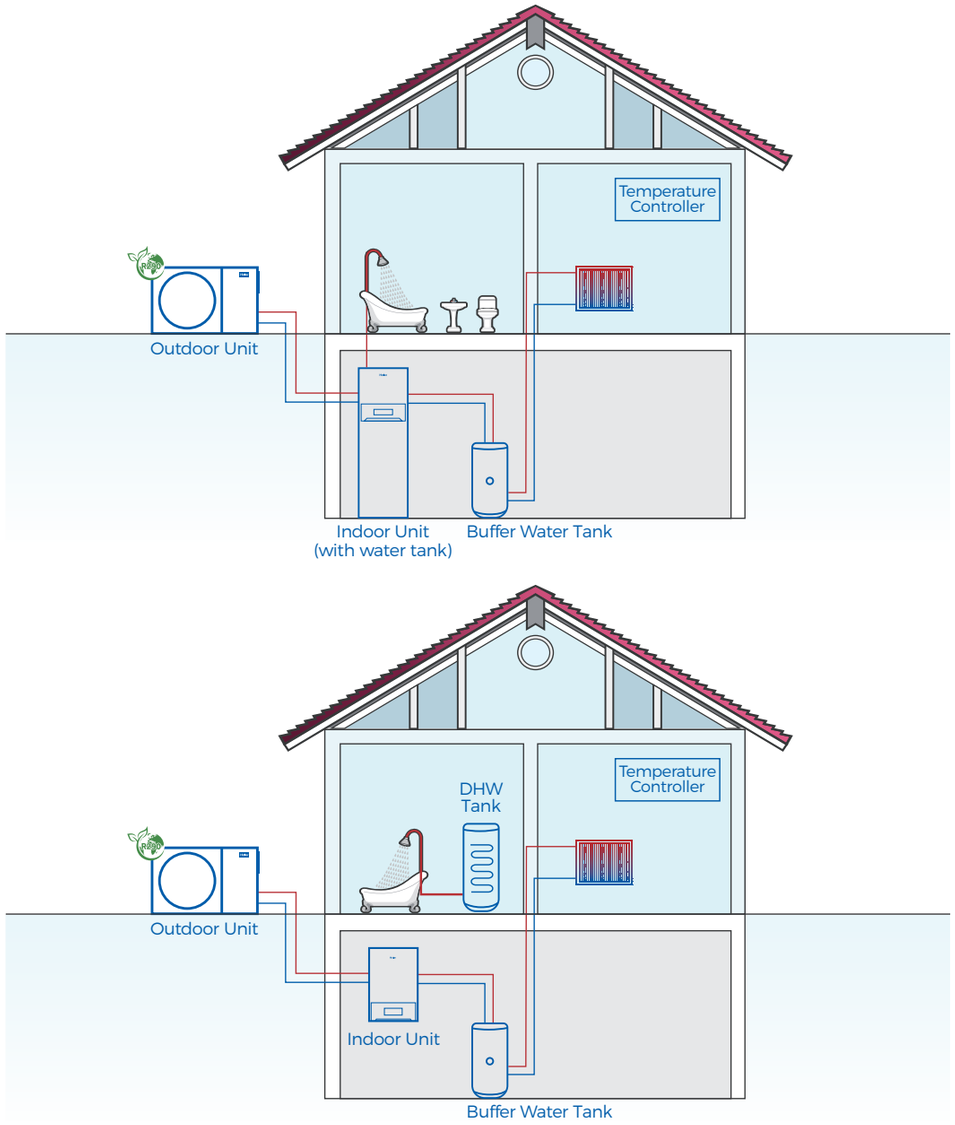
LinkWarm is an integrated system that provides heating /cooling /domestic hot water, offering a complete all-year-round solution which can remove the need for traditional gas or oil boilers, or work together with them, allowing you to enjoy delightfully warm and perfectly hot water throughout the year.



ECO-R290

High Water Temperature

High Efficiency

Stable Operation

Safety

Low Noise

Warm Link System

Integrated Easy Installation

GREEN FOR YOU AND THE EARTH

The new natural refrigerant, R290,
An environmentally friendly choice,
Reduces carbon emissions,
Contributing to the global goal of carbon neutrality.

Furthermore,
With its higher efficiency,
It not only lowers your energy bills,
But also helps protect our planet.

By opting for R290,
We embrace sustainable well-being,
Creating a better world for today and tomorrow.

R290 REFRIGERANT

More ECO-friendly

In order to achieve carbon neutrality and mitigate global warming, LinkWarm uses the R290 natural refrigerant, which has a lesser impact on global warming and is harmless to the ozone layer compared to other synthetic alternatives. This enables LinkWarm to offer sustainable, green, and comfortable hot water solutions.

Natural, Non-toxic and Free of Ozone-depleting

R290 is a high-purity propane refrigerant with a global warming potential (GWP) of 3, which means it will not contribute to ozone depletion as much as other options. It meets the environmental regulations of multiple countries, making it an eco-friendly choice.

Excellent Thermodynamic Performance

Moreover, R290 refrigerant offers excellent thermodynamic performance, enabling higher water temperatures to meet various application demands.

WARMTH, COMFORT, AND TOTAL PEACE OF MIND IN YOUR HOME

HIGH WATER TEMPERATURE

Maximum Water Temperature 85˚C, Meets a Variety of Terminal Usage Needs

LinkWarm can be combined with underfloor heating, fan coil units, radiators, and water tanks. With a high temperature of 85˚C, it is capable of providing optimal temperature and an endless stream of hot water throughout the year, even when using old cast iron radiators.

LinkWarm has upgraded from the industry standard of 75˚C to a more advanced 85˚C. Experience industry-leading efficiency and comfort with LinkWarm.

Underfloor heating

> 35˚C

- Uniform temperature rise, keeping your home consistently comfortable

Fan coil unit

> 45˚C

- Gentle airflow, comfortable and non-drying

Radiator

> 50˚C

- Warm air is distributed throughout the space, providing comfort even in faraway corners

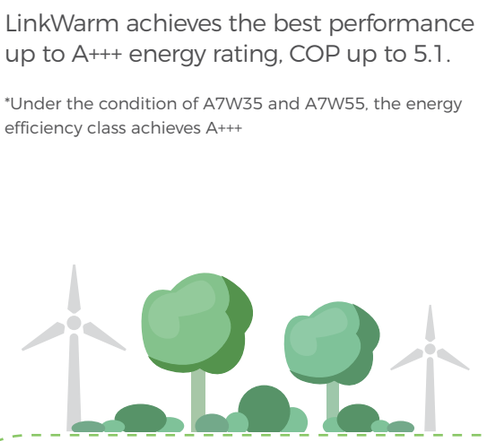
LINKWARM IS A COST-EFFECTIVE, ENERGY-EFFICIENT OPTION AVAILABLE FOR YOU

HIGH EFFICIENCY

ERP Directive Double A+++

LinkWarm achieves the best performance up to A+++ energy rating, COP up to 5.1.

*Under the condition of A7W35 and A7W55, the energy efficiency class achieves A+++



Full Inverter Technology

Full inverter technology utilizes variable frequency compressor and fan that adjust their frequency based on real-time operational conditions. This ensures optimal energy efficiency and low noise levels.

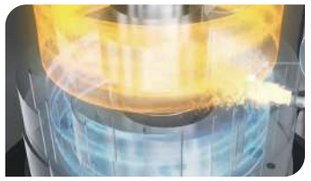
LINKWARM WORKS EFFICIENTLY AT VERY LOW OUTSIDE TEMPERATURES AND SUPPLYS EVERYTHING YOUR HOME NEEDS

STABLE & RELIABLE

Outstanding Performance in Every Condition

LinkWarm is capable of efficiently providing house heating, cooling, and domestic hot water even under extreme cold climates.

EVI (Enhanced Vapor Injection)



With EVI technology, the heating performance is still excellent in low-temperature environments.

- Without attenuation in heating performance even at -10˚C.
- Supply hot water at 75˚C with outdoor temperatures down to -15˚C.
- Stable operation in an ultra-cold climate, in fact even as low as -30˚C.

Multiple Anti-freezing Protection

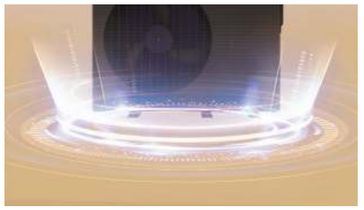
By integrating anti-freezing technologies like water pump circulation, system circulation, and chassis heating, the heat pump automatically warms to 15˚C when ambient temperature drops below 2˚C and water temperature falls under 7˚C, preventing system freezing.

Water pump circulation

When the ambient temperature is less than or equal to the anti-freezing temperature, the circulating water pump starts running.

System circulation

Automatically monitor the temperatures of the main unit and pipe to prevent system from freezing.



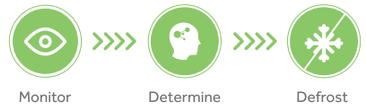
Chassis heating

Optimize the evaporator flow path, heat the chassis to prevent frosting at the bottom, and simultaneously optimize the air outlet to reduce air flow resistance, resulting in stronger heat exchange and more even defrosting.

Smart Defrost

Monitor the operating temperature through multi-touch sensors and perform smart defrost on demand to prevent invalid operation. It is more effective and energy-saving than scheduled defrost.

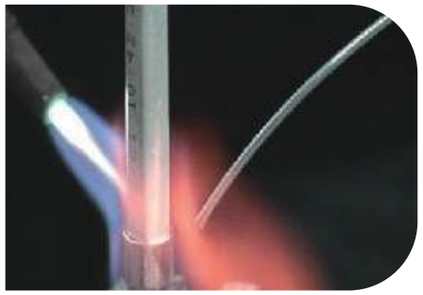
The Smart Defrost Module



SAFETY

Safety Craftmanship

To deal with the R290 refrigerant which is combustible, we have adopted silver brazing welding technology to ensure stronger welding and avoid leakage.



Safety Component

Refrigerant separator can quickly discharge the refrigerant from the water system in case of leakage and prevent it from entering the water system and indoor space.

At the same time, a fully sealed control cabinet is used to avoid potential fire hazards and provide strong protection for user safety.

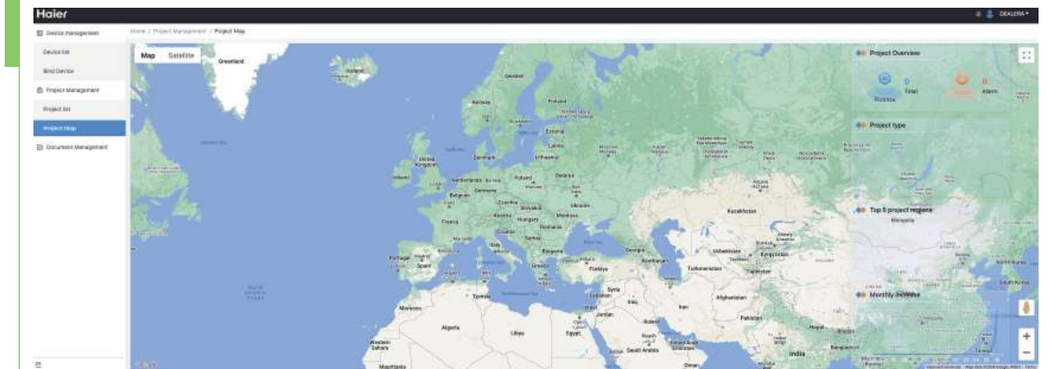
LOW NOISE

LinkWarm adopts multiple noise reduction technologies, with a minimum noise level of 66dB.

WARM LINK SYSTEM

Ultimate Convenience And Ease of Mind

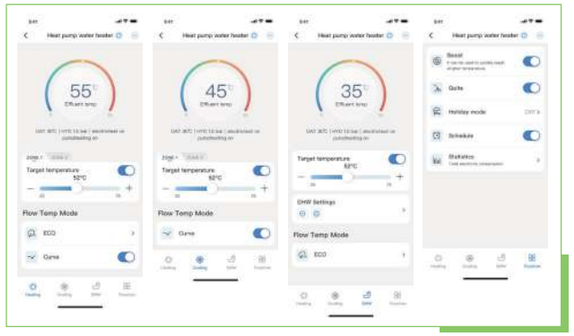
You can control the entire system with just one app. This new system integrates all electronic devices and applications together to provide temperature control and energy management solutions. It also can effectively reduce energy consumption, reduce CO_2 emissions, and always have the latest operating cost overview.



App Remote Temperature Control

Use the mobile app can achieve remote control, energy management and more other functions.

- Easy and convenient energy control
- Remote switch
- Mode and temperature regulation
- Temperature control in different rooms at different times
  (Need to select the end hardware)
- Energy consumption analysis
- Fault broadcast



INTEGRATED EASY INSTALLATION

LinkWarm includes water pump, electric heating element, expansion tank, and exhaust valve etc., and does not require third party components. This allows for faster and easier installation compared to traditional systems.

Thanks to the integrated design, the installation space is minimized both in terms of footprint and height.

FUNCTIONS

Anti-freezing Mode

The water pump activates when the water temperature drops below 5°C. If the temperature remains below 5°C for more than 10 minutes, the heat pump will also turn on.

Schedule Mode

Users can set temperature and time separately for Zone 1, Zone 2, and DHW, and schedule each zone from Monday to Sunday with up to four time periods per day. Additionally, pre-set programs can be copied for convenience.

Quite Mode

This mode has 6 mute levels, with higher levels offering better effects, and the default level is 3. Simply set the desired level and activate the mode by pressing ON. It can also work together with a timer, ensuring low sound levels particularly during night time.

Hygiene DHW Mode

Users can activate Hygiene DHW Mode by pressing ON, setting the temperature, start time, duration, and selecting the date in the "Apply to" section. The current heating mode will continue during sterilization, but adjusting the temperature or switching modes will exit this mode.

Hot Water Scald Protection Mode

Press ON to activate this mode, with a default temperature of 60°C. Users can also set the anti-scald temperature in the central range, adjustable between 50°C and 70°C.

Boost Function Mode

Rapidly heat water using both the electric heater and heat pump. It operates only when hot water mode is on and stops automatically once the target temperature is reached.

2-Zone Control

Efficiently control the temperatures of two different zones with separate heating or cooling circuits.

SG Mode

When the SG function is activated and a valid SG signal is detected, the icon will light up; otherwise, it will turn off.

Electric Auxiliary Mode

This mode ensures hot water supply if the heat pump is not working properly. Activating electric auxiliary mode will light up the icon.

PV Mode

Upon detecting a valid photovoltaic signal, the icon will light up; otherwise, it will turn off.

Holiday Mode

In holiday mode, users can set the start and end dates of the holiday, along with the operating status for various modes during this period. One of the hot water (DHW), cooling and heating settings can be chosen to turn on, and the selected mode will be automatically prepared the day before your return.

Auto Mode

In Auto mode, the cooling and heating mode is automatically managed according to the outdoor ambient temperature. There is no need to manually set the heat pump operating mode which is very convenient for the users.

COMPONENTS

1. Expansion tank
2. Water flow meter
3. Electric heating element
4. Safety valve
5. 3-way valve
6. Water pump
7. Coil water tank

1. Compressor
2. Plate heat exchanger
3. Safety valve
4. Refrigerant separator
5. Exhaust valve
6. 4-way valve
7. Fan
8. Casing

LINKWARM SERIES LINEUP

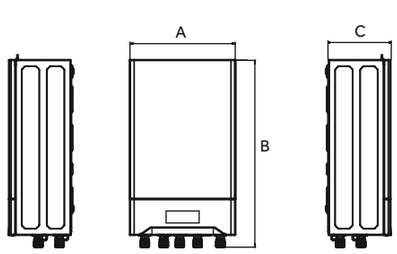
One System For All Comfort-R290 Refrigerant

 6kW-12kW	• Single-phase electricity • 9-meter head pump • 3000W electric heating		
 10kW-12kW	• Three-phase electricity • 9-meter head pump • 3000W electric heating		
 14kW-16kW	• Three-phase electricity • 10-meter head pump • 6000W electric heating		

CONTROL PANEL

PRODUCT SKETCH

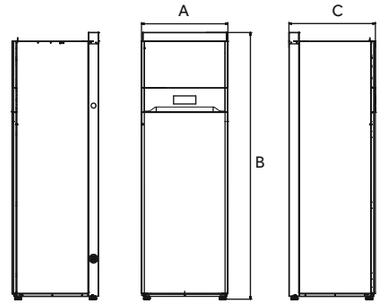
Indoor Unit



*Dimensions (mm)

Model	A	B	C
HPM06(12)-ND2-WW1	500	887	309
HPM10(12)-TND2-WW1	500	887	309
HPM14(16)-TND2-WW1	500	887	309

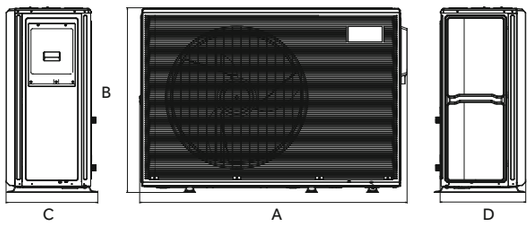
Indoor Unit With Water Tank



*Dimensions (mm)

Model	A	B	C
HPM6(12)-200CE-AW1	610	1800	610
HPM10(12)-T200CE-AW1	610	1800	610
HPM14(16)-T200CE-AW1	610	1800	610

Outdoor Unit



*Dimensions (mm)

Model	A	B	C	D
6/8kW	1271	822	534	498
10/12kW	1271	990	534	498
14/16kW	1556	1074	534	498

TECHNICAL PARAMETERS

Indoor Unit

Model	HPM06(12)-ND2-WW1	HPM10(12)-TND2-WW1	HPM14(16)-TND2-WW1
Power source (V/Hz)	220/50	380/50	
Expansion tank (L)	8		
Electric heating power (kW)	3	6	
Maximum pump head (m)	9		10
Display	TFT		
Dimensions, unpacked (mm)	500×887×309		

Indoor Unit With Water Tank

Model	HPM6(12)-200CE-AW1	HPM10(12)-T200CE-AW1	HPM14(16)-T200CE-AW1
Maximum pump head (m)	9		10
Electric heating power (kW)	3	6	
Expansion tank (L)	8		
Display	TFT		
Tank capacity (L)	200		
Maximum water pressure (Mbar)	1		
Heat exchange area (m^2)	1.8		
Tank electric heating	3		
Insulation layer (Thickness/Material)	50mm/polyurethane		
Hot water temperature range in heat pump mode (°C)	25-85		
Heating hot water temperature range (°C)	30~75		
Maximum domestic water temperature (°C)	75		
Cooling water temperature range (°C)	5-25		
Domestic water connection (G)	1"		
Connection heating pipe diameter (G)	1"		
Heat pump (main unit) connection (G)	1"		
Electrical connection (V/Hz)	230/50		
Waterproof type	IPX4		
Dimensions, unpacked (mm)	1800×610×610		
Power source (V/Hz)	220/50	380/50	

Outdoor Unit

Type	Model	HPM06-ND2-H	HPM08-ND2-H	HPM10-ND2-H	HPM12-ND2-H	HPM10-TND2-H	HPM12-TND2-H	HPM14-TND2-H	HPM16-TND2-H
Power source	Power source (V/Ph/Hz)	220				380			
Heating	Rated heating output (kW)	6	8	10	12	10	12	14	16
35°C Energy efficiency class	Energy efficiency class	A+++							
55°C Energy efficiency class	Energy efficiency class	A+++							
Refrigerant	Refrigerant	R290							
Environment temperature	Heating (°C)	-30-35							
	Cooling (°C)	10-50							
	Domestic hot water (°C)	-30-50							
Water temperature	Heating (°C)	25-85							
	Cooling (°C)	5-25							
	Domestic hot water (°C)	30-65							
Compressor	Type	DC inverter							
Draught fan	Type	DC inverter							
Outdoor unit	Outdoor unit dimensions (mm)	1260×430×780		1300×520×780		1300×520×780		1300×520×950	

*Specific dimensions subject to actual machine.