

PHNIX[®]



HERO SERIES

ALL DC INVERTER HEAT PUMPS

NOT ONLY FOR WARMING, BUT ALSO FOR A BETTER LIFE

Thanks to the all DC inverter technology, the HERO SERIES heat pumps can be used for HEATING, COOLING & HOT WATER application. It also has MOBILE CONTROL APP as optional.

All Rights Reserved

CONCENTRATE ON ADVANCED HEAT PUMP TECHNOLOGY

101 DC INVERTER Technology

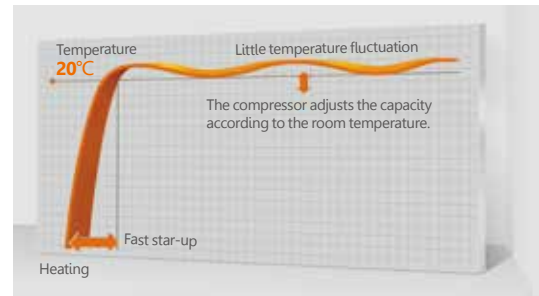
With the use of inverter compressors, brushless DC fan motors and PFC control method, the units can regulate the running capacity at any time when they need to save energy. With no frequent start-ups and stop runnings, the units work in stable condition with high efficiency. The energy consumption is 30% less than that of common heat pump units.



Common heat pumps PHNIX inverter heat pumps

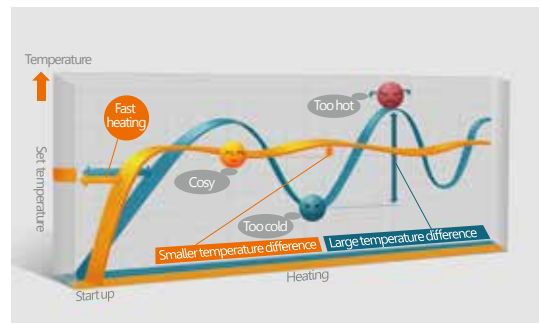
102 HIGH ACCURACY of Temperature Control

The units can change the operating frequency of the compressors automatically according to the room heating/cooling demand. When the target room temperature is going to be reached, the units run at a lower frequency, and the temperature control accuracy can be 0.5°C.



103 FAST Heating/Cooling

When there is large difference between the actual room temperature and the unit setting temperature, the unit can run at higher frequency to make fast heating/cooling to increase/decrease the room temperature rapidly.



Common heat pumps PHNIX inverter heat pumps



104 LOWER Noise

Because there will be no frequent start-ups and stop runnings, and the units work in stable condition, the noise from the units can be reduced significantly.



105 ELECTRIC UTILITIES Benefits

Because of the DC inverter high efficiency design, the units can reduce the load on electric utilities while running.



106 ROOM Thermostat

By installing the room thermostat in your room, you can control both heat pump units and terminals together. A fast heating mode is available in winter, which starts fan coils and floor heating together to heat up rooms. (room thermostat specification: 230V, RS485 interface)



FOCUS ON DETAILS

◎ MITSUBISHI COMPRESSOR

DC inverter scroll compressor, with 20% higher energy efficiency than that of traditional fixed frequency one, works quietly(with minimum 45dB(A) noise level, in 5m distance).



◎ GRUNDFOS WATER PUMP

Grundfos P-M rotor pump, with PWM speed control, power consumption is 80% less than that of traditional water pump, ensuring trouble-free running all year round.

◎ INVERTER DRIVE

Using digital signal processing chips and PMSM sinusoidal wave control method, the power factor reaches 95%, working voltage range is larger and the units realize 1Hz control accuracy.

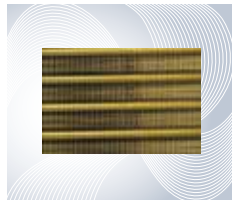


◎ BRUSHLESS DC FAN MOTOR

The brushless DC fan motor could realize stepless speed running under system pressure, realizing more than 30% energy saving.

◎ PATENT HEAT EXCHANGER

With strong countercurrent design, the PHNIX patent heat exchangers are conducive to improving the efficiency and reliability of heat pump.

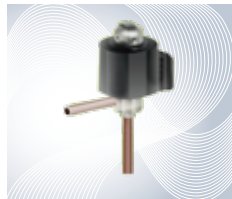


◎ FIN TYPE HEAT EXCHANGER

Golden anti-corrosion aluminum fins specialized for heat pump, it is not easy to frost but easy to clean up, with durable lifespan of more than 10 years.

◎ CAREL CPP CONTROLLER

The CAREL CPP controllers with intelligent control and detection make the units more user-friendly.



◎ ELECTRONIC EXPANSION VALVE

Smartly adjust the refrigerant flow volume, the units always work with high efficiency and reduce energy consumption.



◎ WATER CYCLE

All water cycle circuits are in copper instead of PPR pipe, which make the unit with a longer service life.



◎ DEFROSTING

The use of pressure control defrosting logic makes a smarter defrosting process.

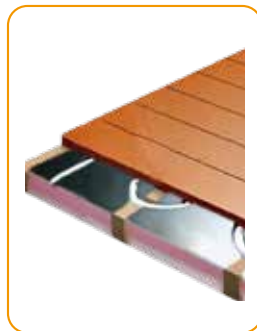


◎ WATER SPRAY

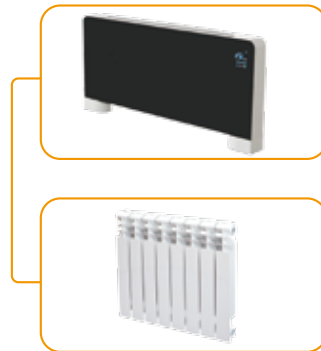
When it's very hot outside in summer, water spray makes a strong cooling effect with less energy consumption.



+



or



◎ ALL DC INVERTER HP

This all DC inverter heat pump with A++ energy level is ErP met for EU market. It's in monobloc design and uses eco-friendly refrigerant R410A.

◎ FLOOR HEATING

It gives you the freedom to design your rooms without radiators. It's efficient and compatible with renewable energy sources.

◎ FAN COIL or RADIATOR

Water fan coil designed by PHNIX, is with DC fan motor inside and uses precise temperature control. Hero Series could also work with common radiators, reaching 55°C outlet water temperature.



INTELLIGENT CONTROL SYSTEM

MAKES YOUR HOME SMARTER

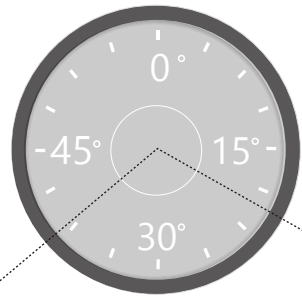


MOBILE APP CONTROL

You could remotely monitor & control your heat pump system by using your smart phone anywhere at anytime.

SATISFY DIFFERENT DEMANDS

With the function of individual thermostat controlling, you could control 32(maximum) rooms temperature at the same time.



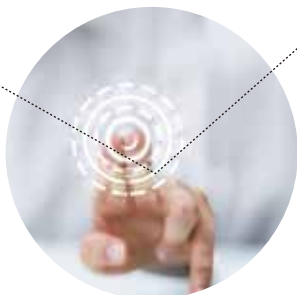
TIMER SETTING

There are multiple timer settings for your choice, thus the system could lead you to a more energy-saving life.



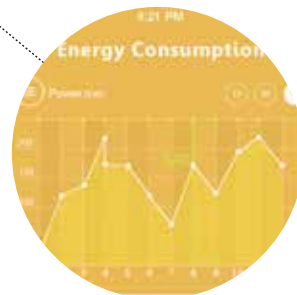
☉ ONE TOUCH FUNCTION

You could turn ON/OFF the whole system with one simple touch, and the HERO SERIES main unit and terminal units could start up automatically.



☉ ENERGY CONSUMPTION

You could easily get to know the energy consumption by hours, days or months through our customized app.



☉ WEATHER FORECAST

The weather forecast data downloaded from Internet could be a reference for your room temperature setting.



H15



H8

Model	Unit	H15	H8
ErP Energy label	/	A++	A++
Power Supply	/	230V ~ /50Hz(380-415V/3N~/50Hz)	230V ~ /50Hz
Heating Capacity Range	kW	6 ~ 18	2.5 ~ 11.5
Heating Power Input Range	kW	1.6 ~ 7.0	0.8 ~ 3.4
Cooling Capacity Range	kW	6 ~ 15	2 ~ 10
Cooling Power Input Range	kW	1.6 ~ 6.0	1.0 ~ 3.4
Water Connection	/	DN32	DN25
Noise	dB(A)	58	54
Weight	kg	172	120
Net Dimensions(L/W/H)	mm	1000×465×1475	980×465×900
Shipping Dimensions(L/W/H)	mm	1040×500×1495	1010×486×910

Heating: Ambient temp.(DB/WB): 7°C/6°C, Water temp.(In/Out): 30°C/35°C; (In accordance with EN14825)
 Cooling: Ambient temp.(DB/WB): 35°C/24°C, Water temp.(In/Out): 12°C/7°C.

The data above is only a reference. For model specifications, please refer to the nameplate on the unit.

GUANGDONG PHNIX ECO-ENERGY SOLUTION LTD.

Tel: 86-20-34990472 Fax: 86-20-34990473 Email: phnixen@phnix-e.com Website: www.phnix-e.com

ISO14001: 2004 ISO9001: 2008 CE CB RoHS

