



GUANGDONG PHNIX ECO-ENERGY SOLUTION LTD.

TEL: +86-4009-4009-00 E-mail: phnixen@phnix-e.com FAX: +86-20-39067770 Website: www.phnix-e.com



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Your First Choice for Pool Heating & Cooling

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PHNXX

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Market Distribution

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About PHNIX Mission & Vision & Values **Critical Path on PHP** Supply Chain **Patents & Certificates**





About PHNIX

- Manufacturing Center & Laboratory

About PHNIX

PHN»

PHNIX is one of the largest manufacturers of Swimming Pool Heat Pumps, House Heating Heat Pumps and Heat Pump Water Heaters in China. PHNIX dedicates itself to being a reliable partner and building the highest quality standards to make its products stable and energy-saving.

With 1108 national patents covering heat pump applications and heat pump technologies, PHNIX commits itself to technological excellence.

As an international enterprise, PHNIX attaches great importance to overseas markets, exporting more than 60% of its products to Europe, North America, Middle East, Australia, South America, Africa and other regions.

Let the staff stay happy with us, achieve customer's success, fulfill our social responsibilities.

Let 100 million people love PHNIX, create a better everyday life.

Passion for innovation, cooperation and sharing, honesty and professionalism.

Mission

Vision

Values

Critical Path on PHP



PHNXX

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THE



Manufacturing Center





Production Lines: **5** Annual Output: **42,000** Units

Main Product: Domestic Hot Water Heat Pump



PHNIX Idea Park (Located in Dagang, Nansha)

Production Lines: 10 Annual Output: **430,000** Units

Main Product: Swimming Pool Heat Pump, Air-to-Water Heat Pump



Anhui Factory (Located in Wuhu, Anhui)

Production Lines: 17 Annual Output: 700,000 Units

Main Product: Swimming Pool Heat Pump, Air-to-Water Heat Pump



From 2005, PHNIX had started transforming the structure of the factory and focusing on building automatic intelligence technology into the production process. Up to now, the production process has involved multiple automatic production devices including Copper Pipe Cutter, Pipe Bender Robot, Automated Vacuum Circulatory System, Robotic Palletization and Packaging, AGV and so on. Over 30 percent of automatic production devices are put into use in PHNIX's manufacturing process.

To fulfill its commitment to quality, PHNIX has built several labs, including Noise Lab, Low Temperature Lab and Integrated Performance Lab, whose test items include UV, salt spray, RoHS, heat exchanger efficiency, constant temperature and humidity, pressure, temperature and other high-level test items.















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Packaging Robot



Supply Chain

PHNIX has an integrated supply chain system. We have several brother companies as our upstream suppliers for different components of heat pumps, such as heat exchanger, plastic casing, and galvanized steel casing. This is one of the reasons why PHNIX can always provide heat pumps with stable quality and short delivery time to the market. Heat pump technology is our core strength. PHNIX focuses on technological research and development, adopting the most appropriate components for every heat pump. PHNIX also values technical communication and collaboration with famous enterprises in the world.



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01 About PHNIX

Patents & Certificates

In each of its operation service, PHNIX's top priority is to ensure the reliability and quality of its products and to meet the technical & professional standards of overseas markets.

PHNIX has acquired **1108** patents in the field of heat pump applications and heat pump technologies .

Intelligent Control Patent: 541 Inverter Technology: 499 Energy-efficient Patent: 834



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Innovative Technology

Marko Globa R290 PV Re Noise Full In Smar





- **Marketing Strategy**
- **Global Refrigerant Evolution**
- **R290 Full DC Inverter**
- PV Ready & Flow Meter
- **Noise Reduction Technology**
- Full Inverter Technology
- Smart Control Family

Marketing Strategy





Original Equipment Manufacturing

To make full use of PHNIX's advantages of production and help customers save production costs, from 2002 to 2010, PHNIX adopted the OEM mode, which also successfully helped to achieve efficient batch processing according to the product and brand customer needs, achieving win-win cooperation between both parties.

Save Production Costs



Original Design Manufacturing

Since 2010, PHNIX has been providing customers with one -stop services from R&D, product design, production, maintenance to after-sales services. Moreover, PHNIX also has the ability to improve the product on design and performance, optimize the product specifications together with customers, which further saves R&D time and reduces production costs.

Save R&D Time Plus Production Costs

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Over the past 19 years, growing up with its global cooperative partners, PHNIX has gone through a journey from OEM to ODM. With the increasing market share in business and growing technical strength, PHNIX brings up with a new business mode IDM (Innovative Design Manufacturing) in order to provide better and a higher level of unique services to customers worldwide.

Creating Global Unique Product





Innovative Design Manufacturing

Global Refrigerant Evolution



PHN)X



17/18

02 Innovative Technology





Spring Season

i-GreenLine Ultra R290 Full-Inverter Pool Heat Pump adopts advanced and self-developed full inverter technology. It is also worth noting that R290 pool heat pump (12kw) can achieve manual frequency adjustment based on personal needs and the unit has no heating capacity recession from 27°C to 15°C. Meanwhile, the user can turn on "Boost" mode to maintain strong and stable heating capacity throughout the year.



Summer Season

i-GreenLine Ultra R290 Full-Inverter Pool Heat Pump adopts with a central control system as an RS485 port a unit. Furthermore, all machines have a PV-Ready function. Ultra R290 pool heat pump can connect with Photovoltaic (PV) system and directly use the electricity that it generates during operation. It can achieve free running when solar energy is the strongest

PHN_X





Autumn Season

With the help of fan motor and compressor anti-noise technology, the unit can **run smoothly** and **super quietly** even if it works at full capacity. The sound pressure is kept to as low as 34- 43.5 dB(A) at a 1-meter distance, providing an entirely quiet and relaxing swimming environment. Moreover, R290 pool heat pump can maintain the highest COP of 11 during 50%-load operation, reflecting an obvious advantage in energy conservation and high efficiency.



Winter Season

Merging the advanced full inverter technology with green R290 refrigerant, R290 pool heat pumps can ensure optimal performance all year round from -25°C to 43°C, which can run safely and reliably all year. More significantly, the unit can operate efficiently at -25°C, maintaining high COP, reliable stability and strong heating capacity for an indoor pool. In addition, the maximum outlet temperature is 45°C for SPA.









As the number of heat pumps increases, so does the demand for Photovoltaic(PV). In the future of Photovoltaic (PV), it will connect with the electricity grid in every household and become a source of electricity supply. As a member of the consumers' houses that requires electricity to run, PHNIX swimming pool heat pump can connect with Photovoltaic (PV) system and directly use the electricity it generates during operation.

Flow Meter

PHNIX is committed to developing the most cutting-edge heat pump technology and digital technology to reshape consumers' imagination and experience of heat pumps. Now, PHNIX heat pump's data like capacity, energy consumption, COP, operating cost can be visible just in hands.

PHNIX inverter pool heat pumps are equipped with the ultrasonic flowmeter(optional). We connect it with the mainboard so that the running data can be checked on the App. Through this perfect combination of ultrasonic flowmeter technology and the latest App intelligent control, PHNIX successfully proves the high COP and low operating cost of its heat pump products.

PHN»



Noise Reduction Technology

Dedicated to creating a super quiet running environment for users, PHNIX successfully lowers the running noise of its swimming pool heat pumps to an industry leading level through its special EPP noise reduction structure, unique fan blade shield and airflow design.



PHNIX develops a suspension chassis that can absorb vibration and effectively reduce the operating noise to an extraordinary low level.

Soundproof Sponge the running noise.



Noise Reduction Cavity By EPP Mould EPP material will be used in the cabinet design for the swimming pool heat pump. EPP is a new kind of foam plastic with shock and compression resistance. It can help to reduce the running noise level of the swimming pool heat pump and provide users with a super quiet swimming environment.



😽 20dB(A)—Rustle of Leaves

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Shock Absorption & Noise Reduction Technology

PHNIX unique IDM swimming pool heat pump will adopt the special internal structure in which all sides of cabinet will be covered with soundproof sponge, greatly helping to absorb



14-23.5dB(A) **10 Meters Distance**

PHN_X

Full Inverter Technology

Unlike a traditional heat pump with a single-speed compressor which by switching on and off periodically to adjust the performance of the heating & cooling, a full inverter heat pump uses a variable speed compressor which can automatically adjust the desired output at the lowest consumption of power and maintain the best temperature at different climatic conditions. When the heating demand is high, the inverter compressor and the fan motor will start running at a high speed, inversely, they will run at a low speed.





The application of an improved compressor and inverter technology synergies is a crucial element for the unit to be a top performer which can raise the energy efficiency and provide homeowners with greater cost savings.



Precise Temperature Control

• Fast Heating

• Energy Saving

Stepless control

 Compressor can selfcontrolled with 5Hz/Step under its operating range



• Maintain High COP



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N PHNIX Self-developed Driver Board

Full Model Range: PHNIX swimming pool heat pump has a full model range covering from domestic to commercial applications. In China, an inverter swimming pool heat pump has been successfully applied on commercial occasions.

Remotely Software Update: If there is any error happens in the software, PHNIX can provide the remote service by updating the software online. And when the software has a new version with function upgraded, as long as PHNIX gets users' permission, the software update can be done remotely.

Self-designed Driver Board Control Logic: To ensure PHNIX's product with the more stable operation and longer service life, PHNIX's swimming pool heat pump product uses its self-design driver board with its unique control logic which enables a more suitable running condition for its compressor.

Centralized Control: Each PHNIX heat pump uses the power board and current sampling module with the most innovative technology.

Self-designed Structure: The unique structure of each PHNIX heat pump can perfectly match with the heat pump itself and very convenient for its after-sales service as well.



PHNIX Smart Control Family



Smart Display Family



32-Bit Processor

All PHNIX displays have been updated with a 32-bit processor, which enables a fast and smooth operation.

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Customized Fashionable UI

For the touch color displays, PHNIX can provide different customized UI designs for you. Customers can have their own logos or VI on the designs for their markets.

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Protective Cover

PHNIX display is of high quality and long service life for the reason that a protective cover is fitted on the display if it is installed on the heat pump rather than on the indoor wall, so as to protect it from the rain, sunshine, etc.



PHNX

Smart App Control

With a PHNIX pool heater App in your phone, you can not only remotely turn on/off the heat pump, set your pool water temperature, but also check energy consumption curve during the week. Consequently, an easy click can bring you comfortable swimming as soon as you arrive home.



Web Platform

Central platform management can be realized with DTU function, which effectively saves the cost labor when service is needed. The fault report button creates a direct error report channel to the local service provider. When an error is reported, the service provider can notice the error information of the target house heating heat pump from the platform, and contact users immediately to offer help.





EUROPE APAC MEA





Market **Distribution**

Global Market Overview

NORTH AMERICA

LATIN AMERICA

Global Market Overview

Through years of technological innovation and strategic market expansion, PHNIX has become one of the most famous and influential brands of HEAT PUMP in China.

PHNIX has been highly recognized in the European and North American Heat Pump markets for the past 15 years.

Until now, about 60% of PHNIX Heat Pump products, including Swimming Pool Heat Pumps, House Heating Heat Pumps and Hot Water Heat Pumps, are exported to markets outside of China.



NORTH AMERICA	AMERICA LATINAMERICA MEA			
US Canada Mexico	Argentia Brazil Chile Paraguay Uruguay Rest of Latin America	UAE Saudi Arabia Israel Qatar South Africa Turkey Oman Rest of MEA	FranceSwedenSwitzerlandDenmarkSpainNorwayItalyPolandPortugalHungaryGermanyBulgariaCzech RepublicRussiaAustriaCroatiaNetherlandsRomaniaBelguimRest of EuropeUKUK	

PHNXX





APAC

APAC

Australia New zealand India Thailand Pakistan Rest of APAC

EUROPE

Current Industry Trend

Sustainable Refrigeration With R290

To reduce carbon emissions to the environment and curb global warming, PHNIX develops 💿 R290 heat pump. With many advantages such as low carbon emission and high efficiency, R290 refrigerant is recognized as a refrigerant with the most development potential in the industry, which contributes to the reduction of carbon emissions and helps achieve the global goal of carbon neutrality.





Refrigerant GWP

Global warming potential (GWP) is a measure of the relative global warming effects of different gases. Compared with the other regions in the world, Europe is leading the way in the adoption of low-GWP and natural refrigerants.

Silent Running





Full Inverter Technology



The application of improved compressor and full inverter technology synergies is a crucial element for PHNIX swimming pool heat pump to be a top performer and it can raise the energy efficiency and provide homeowners with greater cost-saving.

Thanks to the smart control system, all of units could be monitored on the platform with your own account. PHNIX full DC inverter compressor can keep stable outlet temp by constantly adjusting its frequency.

High COP





With PHNIX unique technology, the swimming pool heat pump can maintain high COP during operation, creating an extraordinarily high efficiency and savings for users.





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Domestic Pool





Commercial Pool



Application	PHNIX Range	Air Direction	Refrigerant	Technology	Heating Capacity(kW)*	COP *	Noise Level@1m/dB(A)	Air Temp. Range(°C)	Smart Control	
	NEW Ultra	Horizontal	R290		7~28	18.0-8.1	34~43.5	-25~43	WIFI Free	
	х	Horizontal	R290	Full DC Inverter	9~28	16.5~7.5	36~54	-15~43	WIFI Free	S
	IRON	Side-discharge			7~28	16.0~6.0	36~54	-10~43	WIFI Free	
Domestic Pool	PRO	Horizontal	R32		7~20	13.0~5.8	38~55	-7~43	WIFI Free	
	NEO	Horizontal	R32		7~28	10.0~5.0	38~57	-5~43	WIFI Option	
	MAX	Vertical			9~35	20.4~6.4	40~62	-15~43	WIFI Free	S
	MIX	Vertical			7~31	16.3~6.1	44~65	-10~43	WIFI Option	
Above-ground	Penguin	Side-discharge		011/055	3,4,5	5.0~5.1	46~48	-7~43	Bluetooth Free	
Pool	SuperMini	Horizontal		ON/OFF	3,4,5	5.1~4.8	48~50	-7~43	Bluetooth Free	
Commercial Pool	E	/		Full DC Inverter	65~120	16.1-6.1	60~65	-15~43	DTU Free	
Dehumidification	Dehumidifier	/		ON/OFF	2.2/3.5/4.5L/h	/	44~46	10-32	/	Ρ

★(AT@27°C/WT@26°C)

★★ Obtaining Product Catalog

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Dehumidifier

Dehumidification



PHNIX Suggestion

New gas solution ***

Stronger and less recession during low temp.

Most fashionable design

Best sale in 2021

Most cost-effectiveness

Stronger and less recession during low temp.

More compact

Eye catching design

Compact and cost saving

Best solution for commericial pool project

Provide a comfortable environment indoor pool

NORTH AMERICA



Current Industry Trend

Full Inverter Trend

Heat pump technologies are also a way to reach the goals of creating affordable, reliable, sustainable and modern energy in the Sustainable Development Goals. PHNIX has made many efforts to transit from traditional ON/OFF to inverter heat pumps, which is high-efficient and energy-saving compared to the traditional heat pump.



AHRI & ETL Certification

All machines exported to North America have been certificated by AHRI/ETL.The COP can maintain above 4.0 under low temperature operation.

PHNIX Self-developed Driver Board

To ensure PHNIX's products with more stable operation and longer service life, PHNIX's swimming pool heat pump product uses its self-design driver board with its unique control logic which enables a more suitable running condition for its compressor.



RS485 (Centralized Control)

More importantly the inverter heat pump is highlighted with a central control system as an RS485 serial port is designed for













NORTH AMERICA Market Solution





Spa







Application	PHNIX Range	Air Direction	Refrigerant	Technology	* Heating Capacity(BTU)	* Heating COP	** Heating Capacity (BTU)	** Heating COP	Noise Level@1m/dB(A)	Air Temp. Range(°F)	Smart Control	PHNIX Suggestion
	Max	Vertical		Full DC	97,200~150,000	16.0~6.2	60,000~86,000	5.5~4.0	49~63	5~109	Centralized control	Stronger and less recession during low temp.
Vertical	NEW Mix	verticat	R410A	Inverter	11,500~140,000	14.0~6.0	63,100~63,200	5.2~4.0	49~65	44~109	Centralized control	More compact
	S	Horizontal		ON/OFF	90,000~13,100	6.5~5.6	59,000~86,000	4.1~4.0	57~62	44~109	Centralized control	Strong sheet metal cabinet
	Pro			Full DC	44,400~65,000	13.5~6.0	26,600~42,000	5.1~4.0	53~55	44~109	Centralized control	Stronger and less recession during low temp.
Horizontal	Neo	Horizontal	ital R410A	Inverter	24,800~57,800	11.5~5.8	9,900~22,900	4.8~4.0	47~57	44~109	Centralized control	Compact and cost saving
	Pioneer			ON/OFF	52,000~105,000	6.9~6.1	30,600~65,000	4.0~4.0	44~109	44~109	/	Compact
Spa	Split	Horizontal	R410A	ON/OFF	17,000	4.5	7,900	3.5	54	44~109	/	Pool & Spa usage

★ 80°F Ambient Air, 80°F Water,80% Relative Humidity

** 80°F Ambient Air, 80°F Water,80% Relative Humidity

★★★ Obtaining Product Catalog







Current Industry Trend

Full Inverter Trend

It's necessary to keep up with trends, changes and innovations. The leading trend is the full inverter heat pump which is high-efficient and energy-saving compared to the traditional heat pump.



Refrigerant Trend

Global warming potential (GWP) is a measure of the relative global warming effects of different gases. Compared with the other regions in the world, APAC market is leading the way in the adoption of low-GWP and natural refrigerants. The current refrigerant is mainly R410A and R32. More eco-friendly R290 full inverter products also have been put into the market and this is a definite trend.



R290 has a zero ODP value, which means that there is no negative impact on the ozone layer and an extremely low GWP value, which indicates a minimal impact on the global-warming effect.

Silent Running

The unit perfectly keeps an ultra-low operating noise of 34-43.5 dB (A) at a distance of 1 meter, which provides a peaceful swimming experience for you.



Certification & Standard

CE, CB, SAA, EPCS, RCM are all electrical safety certifications recognized by Australia.PHNIX can provide relevant certification support for different certification requirements in the Australian market to meet the certification requirements. We also meet the safety standards and energy efficiency requirements of the Australian SAA/SGS certification authority.









1 Meter Distance



N APAC Market Solution



Application	PHNIX Range	Air Direction	Refrigerant	Technology	* Heating Capacity(kW)	COP*	Noise Level@1m/dB(A)	Air Temp. Range(°C)	Smart Control	
Domestic Pool	Ultra	Horizontal	R290	Full DC Inverter	7~28	18.0~8.1	34~43.5	-25~43	WIFI Free	
	IRON	Side-discharge			7~28	16.0~6.0	36~54	-10~43	WIFI Free	
	х		R32		9~28	16.5~7.6	36~54	-15~43	WIFI Free	
	PRO	Horizontal			7~20	13.0~5.8	38~55	-7~43	WIFI Free	
	NEO				7~28	10.0~5.0	38~57	-5~43	WIFI Option	
	МАХ	Vertical			9~35	20.4~6.4	40~62	-15~43	WIFI Free	
	МІХ				7~35	16.3~6.1	44~65	-10~43	WIFI Option	
Commercial Pool	н	/	R410A		65~300	16.1~6.1	58~71	-15~55	DTU Free	
	E	/	R32		65~120	16.5~6.1	58~64	-15~43	DTU Free	
Above-ground Pool	Penguin	Side-discharge	R32	ON/OFF	3,4,5	5.1~5.0	46~48	-7~43	Bluetooth Free	
	SuperMini	Horizontal				5.1~4.8	48~50	-7~43	Bluetooth Free	
Dehumidification	Dehumidifier	/			2.2/3.5/4.5L/h	/	44~46	10-32	/	

★ (AT@27°C/WT@26°C)

★★ Obtaining Product Catalog

 $\bigstar \bigstar \bigstar$ Representative of Leading Technology







Dehumidification

PHNIX Suggestion

New gas solution

Most fashionable design

Stronger and less recession during low temp.

Best sale in 2021

Most cost-effective

Stronger and less recession during low temp.

More compact

Best solution for commericial pool project in R410A

Best solution for commericial pool project in R32

Eye catching design

Compact and most cost saving

Provide a comfortable environment Indoor pool





Full Inverter Trend

Under the trend of carbon neutrality, the inverter pool heat pump is a promising solution gaining increasing market interest, driven by lower costs and energy conservation.



Refrigerant Trend

Refrigerants in the Middle East market are going through a phase of transition from R407C to R410A. there will be a trend towards eco-friendly R32 inverter heat pumps.



SASO & CB Certification

Time



In each of its operational services, PHNIX's top priority is to ensure the reliability and quality of its products and to meet the technical & professional standards of overseas markets.

RS485 (Centralized Control)

More importantly, the inverter heat pump is highlighted with a central control system as an RS485 serial port is designed for communications in every unit.



Focus On Details





Smart Control

Smart APP control brings a lot of convenience to users. Temperature adjustment, mode switching, timer setting can be achieved on your smart phone. Plus, you can know power consumption statistics and fault record anytime and anywhere.



Strong Cooling Power

The pool heat pump can achieve heating and cooling and have strong cooling power, bringing a cozy swimming experience in summer.





Using COPELAND or Mitsubishi compressors, these systems can offer higher efficienciy and greatly improve the quality of pool heat pump.





Middle East Market Solution



Application	PHNIX Range	Air Direction	Refrigerant	Technology	* Heating Capacity(kW)	COP	** Cooling Capacity(kW)	EER(kW)	[*] Air Temp. Range°C	Smart Control	
Domestic Pool	U	Vertical	R410A	ON/OFF	13~25	5.30~5.32	10~20	3.80	-7~53	Wi-Fi for free	
Commercial Pool	U	Vertical	R410A	ON/OFF	35~210	5.35~5.79	30~175	3.80	-7~53	Wi-Fi for free	Cost-e
	н	Vertical	R410A	Full DC Inverter	65~300	16.10~6.10) 18~140	3.00~4.15	-7~53	Wi-Fi for free	
Dehumidification	Dehumidifier	/	R410A	ON/OFF	2.2/3.0/4.3L/h	/	/	/	/	/	Pro

★ (AT@27°C/WT@26°C)

** Obtaining Product Catalog

PHNIX Suggestion

Most compact house using

t-effective commercial pool heat pump with Wi-Fi

Most powerful commercial inverter with maxmimum 300kW

rovide a comfortable environment indoor pool



N Africa Current Industry Trend

Full Inverter Trend

The pool heat pump is transiting from traditional ON/OFF to inverter heat pump. The full inverter heat pump uses a variable speed compressor which can automatically adjust the output needed at the lowest consumption of power and maintain the best temperature at different climatic conditions, which is more high-efficient and energy-saving compared to the traditional heat pump.

Contraction of the second



Single Phase Voltage Protector

When there is overvoltage or undervoltage in the power supply, the protector can cut off the circuit quickly and safely under the continuous high voltage shock, to protect the unit and controller from damaging. The internal circuit is automatically connected to ensure the normal operation of the heat pump appliances.

CB Certification

In each of its operational services, PHNIX's top priority is to ensure the reliability and quality of its products and to meet the technical & professional standards of overseas markets.







Refrigerant Trend

High-efficiency, sustainable and clean system pool solutions are trending in the future. Currently, the refrigerant in South Africa market is dominated by R410A, and it is slowly beginning to tend towards R32 refrigerant.





N Africa Market Solution



Application	PHNIX Range	Air Direction	Refrigerant	Technology	Heating Capacity(kW)	COP*	Noise Level@1m/dB(A)	Air Temp. Range(°C)	Smart Control	
Domestic Pool	х	Horizontal	R32	Full DC Inverter	9~28	16.5~7.6	36~54	-15~43	WIFI Free	Мо
	PRO		R32		9~28	16.5~6.4	36~54	-7~43	WIFI Option	Most s
	PRO		R410A		5~18	12.0~5.3	38~55	-7~43	WIFI Option	Most st
	NEO		R32		5.4~28	14.0~5.6	38~57	-5~43	WIFI Option	
	NEO		R410A		7~18.4	10.4~5.6	43~54	-7~43	WIFI Option	
Commercial Pool	н	/	R410A		65~300	6.1~16.1	58~71	-15~55	DTU Free	Bes
	E	/	R32		65~120	6.1~16.5	58~64	-15~43	DTU Free	Best
Above-ground Pool	SuperMini	Horizontal	R32	ON/OFF	3,4,5	4.8~5.1	48~50	-7~43	Bluetooth Free	

★ (AT@27°C/WT@26°C)

****** Obtaining Product Catalog





Above-ground Pool



PHNIX Suggestion

Most strong and less recession during low temp.

t strong and less recession during low temp.in R32

strong and less recession during low temp.in R410A

Most cost-effective in R32

Most cost-effective in R410A

Best solution for commericial pool project in R32

est solution for commericial pool project in R410A

Compact and cost-saving

LATIN AMERICA



PHN)X



Full Inverter Trend

In order to meet the market requirement, PHNIX has made many breakthroughs in core technologies. The heat pump is transiting from traditional ON/OFF to inverter heat pumps.



Refrigerant Trend

Now, refrigerants in the South Africa market are mainly R410A and R32, but it is gradually ungrading to R32. The reason is that its significant advantages for energy-saving and environmental protection is recognized as an alternative refrigerant of choice for heat pumps.





Inmetro Certification



In each of its operational services, PHNIX's top priority is to ensure the reliability and quality of its products and to meet the technical & professional standards of overseas markets.

LATIN AMERICA Market Solution



Application	PHNIA Kalige	All Direction	Reingerant	rechnology	neating capacity(KW)	COP	NOISE LEVEL@III/UD(A)	Air Temp. Range(C)	Smart Control	
Domestic Pool	IRON	Side-Discharge	R32	Full DC Inverter	7~28	16.0~6.0	36~54	-10~43	WIFI Free	
	PRO		R32		9~28	16.5~6.4	36~54	-7~43	WIFI Option	
	PRO	Horizontal	R410A		5~18	12.0~5.3	38~55	-7~43	WIFI Option	
	NEO		R32		5.4~28	14,0~5.6	38~57	-5~43	WIFI Option	
	NEO		R410A		7~18.4	10.4~5.6	43~54	-7~43	WIFI Option	
Commercial Pool	Н	/	R410A	Full DC Inverter	65~300	6.1~16.1	58~71	-15~55	DTU Free	
Above-ground Pool	SuperMini	Horizontal	R32	ON/OFF	3,4,5	4.84~5.1	48~50	-7~43	Bluetooth Free	
Dehumidification	Dehumidifier	/	R32	ON/OFF	2.2/3.5/4.5L/h	/	44~46	10-32	/	ł

★ (AT@27°C/WT@26°C)

****** Obtaining Product Catalog

PHNXX



Dehumidification



PHNIX Suggestion

Most fashionable design

Stronger and less recession during low temp.in R32

Stronger and less recession during low temp.in R410A

Most cost-effective in R32

Most cost-effective in R410A

Best solution for commericial pool project in R410A

Compact and cost saving

Provide a comfortable environment Indoor pool



About Us

Our Team Our Service

Our Steps



Our Team

Overseas Swimming Pool Business Division



PHNIX Pool Heat Pump Department

Tina Wang Vice Sales Director tina@phnix-e.com

Sales Account Manager

Southern Europe **Regional Sales Manager**

Western Europe Regional Sales Manager

Northern Europe Regional Sales Manager

Eastern Europe Regional Sales Manager

North America **Regional Sales Manager**

South America Regional Sales Manager

Asian-Pacific Region Regional Sales Manager

African Areas **Regional Sales Manager**

Middle East **Regional Sales Manager**



Howard Zhang

General Manager howard@phnix-e.com

PHNIX Pool Robotic Cleaner Department

Innovation Business Director Supervisor

Sales Account Manager Sales Account Manager

Logistics Team

New Brand

Department





Our Service





N PHNIX Technical Service



Online Introduction & Training

Since Covid-19, we have held online conferences for product and technical training. When our customers encounter heat pump problems, online introductions and training will be conducted in a timely manner.





Remote Software Update

If there is any error happens on the software, we provide do the remote service by updating the software online. When the software has a new version with function upgraded, as long as we got users'permission, we can update the software.





Product Data Monitoring

Thanks to the DTU technology, we can check the heat pump status remotely. When there is a fault occurs, it's easy for us to check product information and give the immediate support to our customers.





Europe Service Center

The center has the following functions:

- 1. New Products Testing 2. Product Demonstration
- 3. Technical Training
- 4. After Sales Service





PHNXX





The European Service Center, located in Sweden, covering an area of 500 square meters, is a new window for anyone who is interested in PHNIX and its products. In this center, PHNIX's products, both the traditional and newest products, will be displayed daily throughout the year.

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Our Steps



PHNXX

Next New Business of Robotic Pool Cleaner

N PHNIX Future Wireless Robotic Pool Cleaner

PHNIX Overseas Pool Division will always be committed to developing technical products for the global pool industry.Our next target is the category of robotic pool cleaners and vision is to develop wireless robotic pool cleaners with advanced intelligent control technology and automatic battery charging technology to bring a superior experience to consumers. We expect to launch these products in 2023.

PHNXX



05 Values

BE READY FOR A LOW CARBON LIFE





05 Values