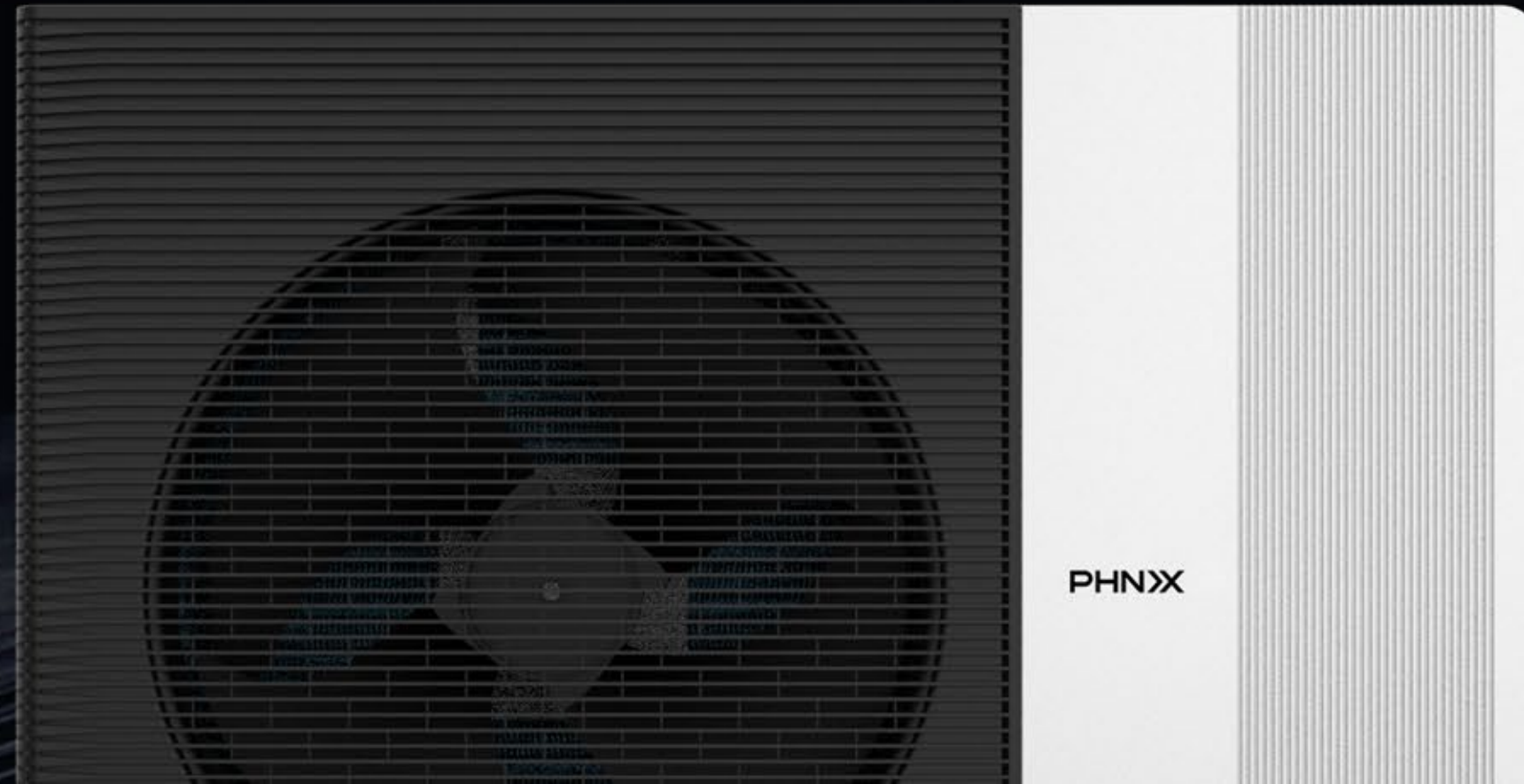


PHNXX



-ForceLine **Ultra**

Swimming Pool Heat Pump



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Appearance

The PHNIX i-ForceLine Ultra pool heat pump combines beauty and functionality with a sleek design inspired by books. Its injection-molded fan cover and aluminum alloy front panel offer durability, while the frosted texture ensures a pleasant feel.

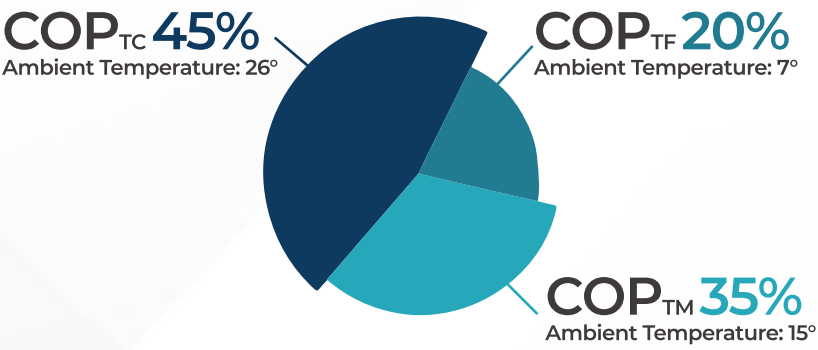


Are you looking for a high COP value of heat pump?

Or are you looking for an energy saving heat pump?

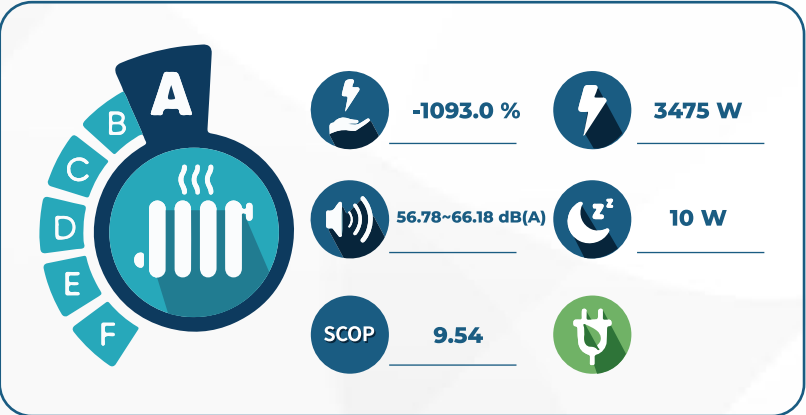


SCOP



SCOP (Seasonal Coefficient of Performance) is published by the FPP organization and the guideline is EN17645.

SCOP value consists of three parts (simulating three different test conditions) in different proportions, hence more comprehensively evaluating the actual energy efficiency of the pool heat pump.



- the energy reduction coefcient of a heating device (Obligatony)
- the power absorbed in active mode, in watts
- the guaranteed noise level of the heating system (Optional)
- the power absorbed in standby mode, in watts
- the SCOP of the system and the corresponding environmental performance class

This is a SCOP label, consisting of 6 energy efficiency levels, A to F, representing different ranges of SCOP values.

The PHNIX i-ForceLine Ultra pool heat pump boasts a globally certified SCOP of 9.54 by TÜV, making it the most efficient on the market. This high SCOP ensures exceptional energy efficiency and reliable performance across various conditions throughout the year.



SCOP=9.54 TÜV certified (EN17645)



Are you also looking for a super low noise heat pump?

How PHNXX made it?

The World's Most Silent Pool Heat Pump

Certified by CQC, PHNIX i-Force Line Ultra pool heat pump is the quietest on the market, operating at just 27 dB(A) from 1 meter away. Its silent performance is perfect for lively parties or peaceful family time, ensuring a comfortable pool environment for every occasion.



CQC Certification



27~47.1 dB(A)
1 Meter Distance

19.8~39.9 dB(A)
3 Meter Distance

10.5~30.4 dB(A)
10 Meter Distance

27dB(A)

PHNIX

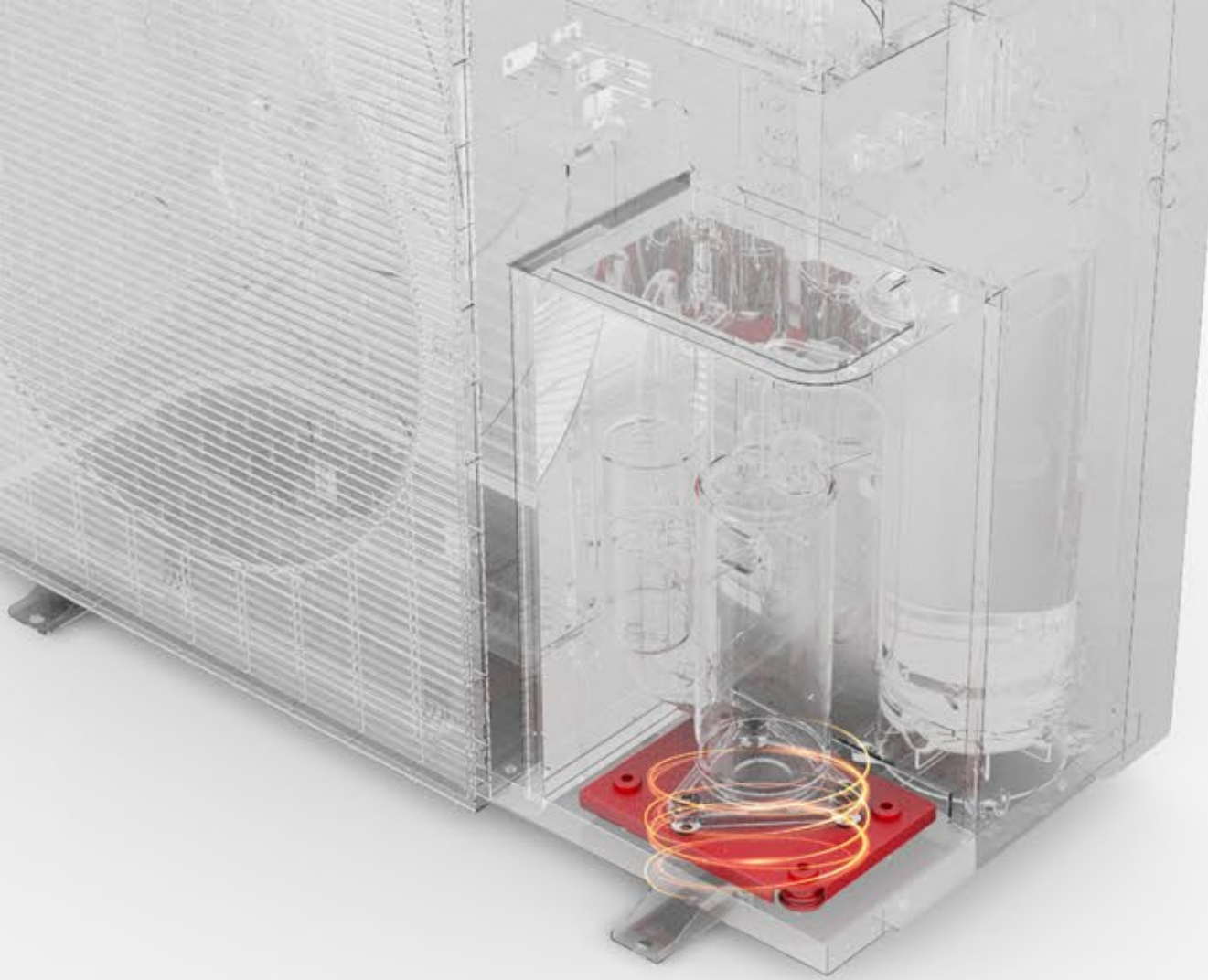


Dive Into Quiet Luxury

Set the World Class Standard for Silence 27dB(A) at 1m Distance.



CQC Certification



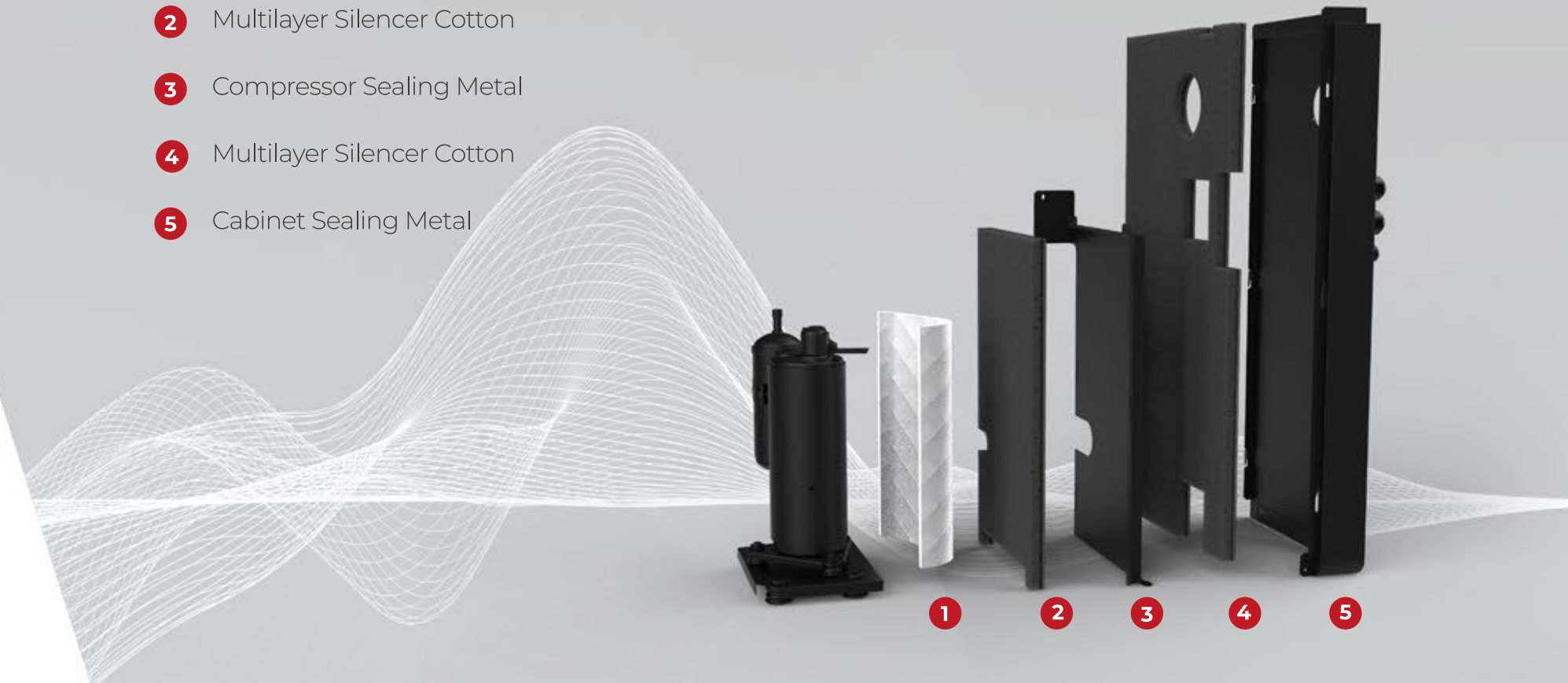
Zero-noise Compressor Operation Achieved Through CDC Suspension Technology

The PHNIX i-ForceLine Ultra pool heat pump features an innovative suspended chassis design that minimizes vibration and noise. By reducing ground contact, it protects internal components, enhancing durability and reliability. This quieter operation creates a serene pool environment, letting you enjoy your pool in peace.

5-layer Noise Reduction Solution

Discover the world-class silent experience of PHNIX i-ForceLine Ultra pool heat pump. Its advanced 5-layer noise reduction solution features high-density silencer cotton, a whisper-quiet design and a compressor with a noise-eliminating solution. This combination ensures an exceptionally quiet operation, making it the ideal choice for you seeking a peaceful and serene pool environment.

- 1 High-density Silencer Cotton
- 2 Multilayer Silencer Cotton
- 3 Compressor Sealing Metal
- 4 Multilayer Silencer Cotton
- 5 Cabinet Sealing Metal



Heating & Cooling Well in All Year Round

from -20°C to 43°C air temperature



Energy Efficiency Legend

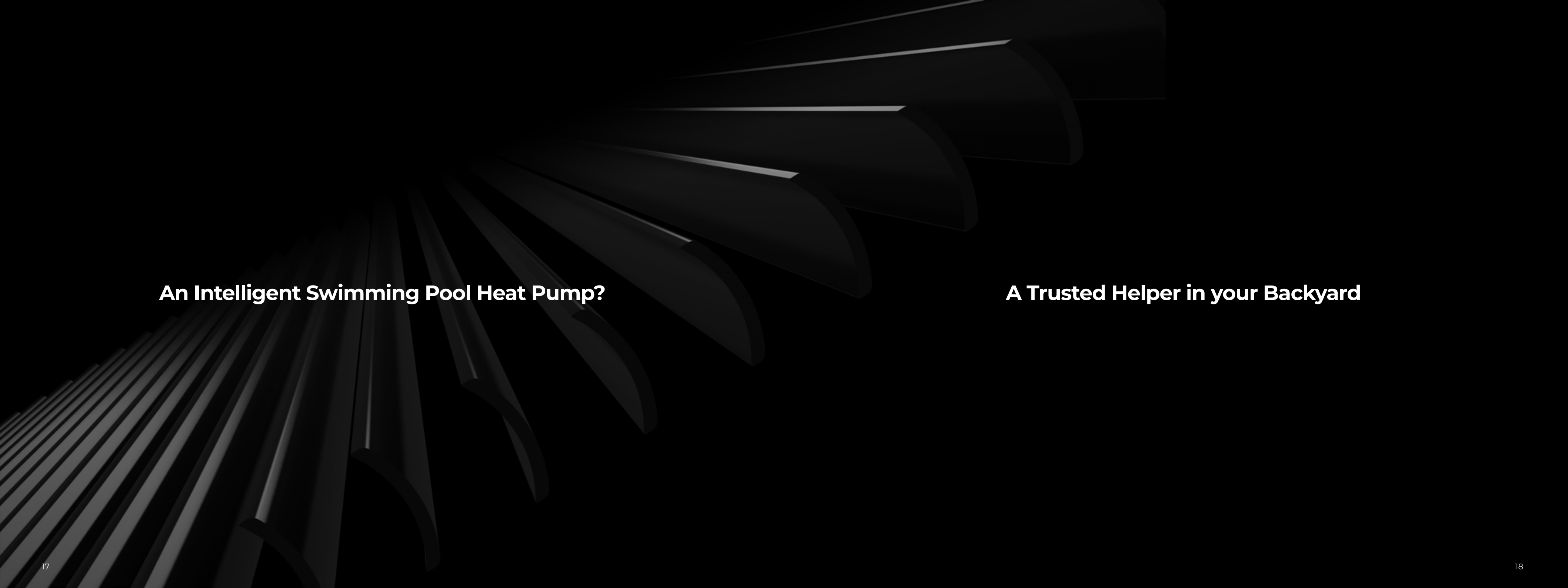
22% more energy saving pool heat pump
with highest SCOP record

Reliable All Year-round Running

The PHNIX i-ForceLine Ultra pool heat pump delivers reliable performance in temperatures from -20°C to 43°C. With a high SCOP, it saves over 22% energy, ensuring efficient year-round pool heating, even in low-temperature environments.



PHNIX Heat Pump in
Ultra-low-temperature
Blizzard Test



An Intelligent Swimming Pool Heat Pump?

A Trusted Helper in your Backyard

Distinct Interfaces Exceptional Intelligence

The wired controller of the PHNIX i-ForceLine Ultra pool heat pump features a sleek 5-inch touch screen for effortless operation and clear settings display. Its intelligent control technology ensures quick, accurate responses, allowing precise temperature management. The optional Boost function enhances performance with rapid heating when needed.



Connect with Your Heat Pumps Anytime Anywhere

—Smart Control, Remote Upgrade

The Smart Control feature of the PHNIX i-ForceLine Ultra pool heat pump is your reliable partner. Enjoy seamless connectivity via 4G or Wi-Fi at OTA and IOT platforms, allowing remote management of water temperatures through your smartphone or tablet, offering unmatched convenience and precision.





Quote Number	Order ID	PO	Currency	Amount	Received Payment	Unpaid Payment	Destination	Delivery Date	Status
QUD-40007-454-489	PE24100004	Q24-005	USD	0	0	0	Refusen@PHNIX	2024-10-20	At Ship
QUD-40007-454-490	PE24101400	Q24-005	USD	0	0	0	Refusen@PHNIX	2024-10-10	Quoted
QUD-40007-454-491	PE24101000	Q24-005	USD	0	0	0	Refusen@PHNIX	2024-10-24	Draft
QUD-40007-454-492	PE24101000	Q24-005	USD	0	0	0	Refusen@PHNIX	2024-10-21	Partial Agreement

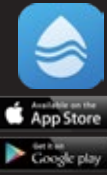
Portal

The PHNIX Portal system enhances user convenience by providing clear visibility into order statuses, shipment details, and delivery timelines. Users can place orders anytime through a seamless self-service function. After-sales issues can be easily reported, with progress tracked in real time. Moreover, both technical and after-sales documents are available for download, ensuring that all necessary information is accessible with ease. This all-in-one platform ensures smooth and easy management for all your needs.



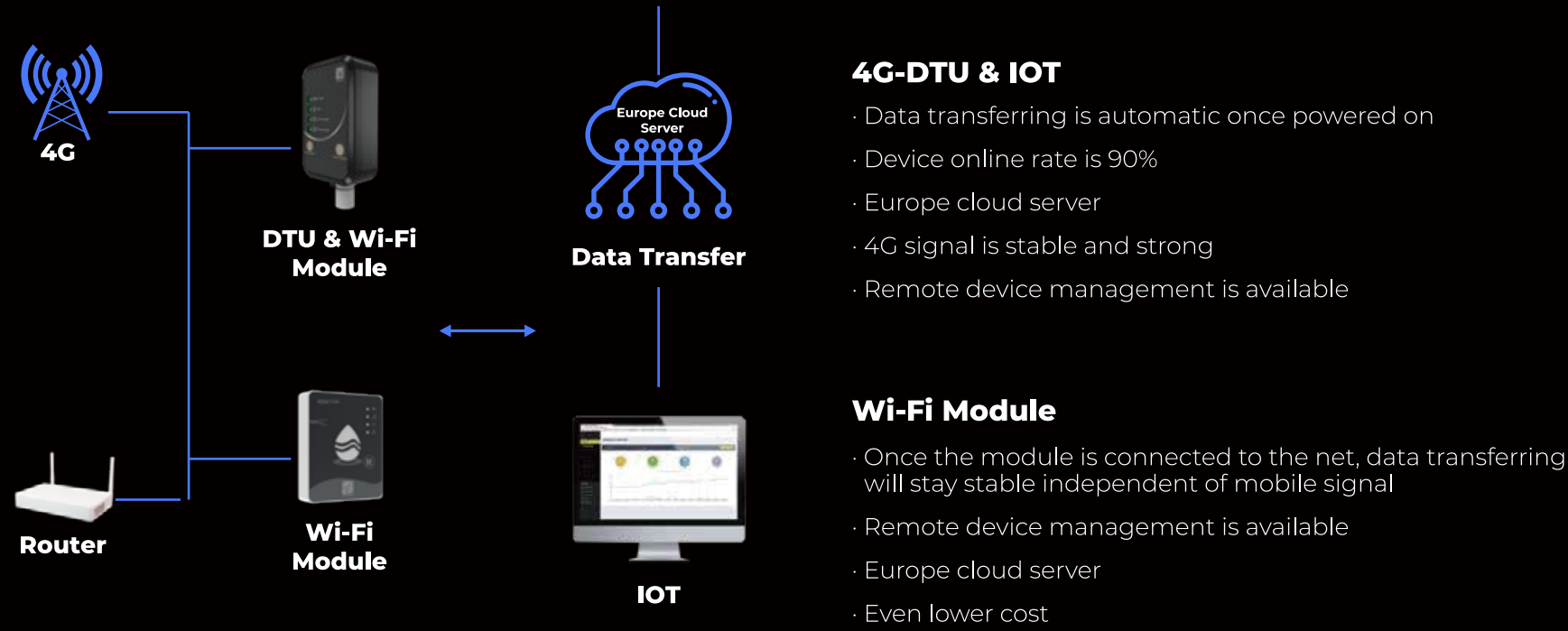
Smart Control Family

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

- Temperature adjustment
- Timer setting
- Mode switching
- Fault alarm and record
- Monitor power-consumption statistics

Aqua Temp



IOT

- Automatic fault alarm
- DTU / Wi-Fi module for precise remote monitoring and convenient control





Reliability Testing Lab



Power Surge Test



Power Fluctuation Test



85°C & 85% Humidity Test



Low-Temperature Operation Test



Comprehensive Resistance Test



Damp Heat Test



Extreme Temperature Stress Test



Salt Spray Test



PCB Operational Temperature Rise Test



Comprehensive Stress Test



Over / Under Voltage Test



Electrostatic Discharge (ESD) Immunity Test

R290 Refrigerant

R290 refrigerant has an extremely low GWP value (GWP=3), showing a minimal impact on the global-warming effect and playing a positive role in going carbon-neutral.

The Feature of R290 Refrigerant



Stable running at -25°C ambient temperature.



The max outlet water temperature can be up to 75°C.



Stable operation: R290 operates stably at low ambient temperature, and can reach the same level of R32 EVI product at ultra-low temperature.



Strong cooling capacity: The cooling capacity of R290 is better than that of R32, which is 103%-105% of the cooling capacity of the same R32 product.



Small refrigerant charge: For heat pump with the same capacity, the refrigerant charge of R290 is 20% less than that of R32 refrigerant and 30% less than that of R410A refrigerant.

Protective Measures for R290

01 Storage

- Warehouses must be ventilated
- R290 leak alarm system must be installed
- Fire and explosion hazard signs must be affixed
- Appropriate fire extinguishers must be equipped

02 Transportation

- Fire extinguishers are required for transport equipment
- Avoid sparks, smoking and other sources of ignition
- Vertical transport to prevent dumping and collision

03 Installation

- Professional staff is required for installation
- Must be installed outdoors
- Keep away from fire

04 After-sales Service

- Must have professional staff to carry out after-sales maintenance



Specification

Model		Ultra-020	Ultra-030	Ultra-040	Ultra-050	Ultra-060	Ultra-070	Ultra-050T	Ultra-060T	Ultra-070T	Ultra-080T
Advised Pool Volume	m³	40	60	80	100	120	140	100	120	140	160
Operating Air Temperature	°C	-15~43									
Refrigerant	/	R32									
Certification	/	CE / CB									
Power Supply	/	220-240V~/1Ph 50HZ(60HZ)						380-400V~/3Ph 50HZ 50HZ(60HZ)			
Performance (Heating)											
EN17645 Rating (TüV Certified)	/	A	A	A	A	A	A	A	A	A	A
SCOP (EN17645 TüV Certified)	/	7.45	7.63	8.3	9.54	7.39	7.39	7.4	7.2	7.0	7.0
Air 27°C / Water 26°C / Humid. 80%											
Heating Capacity at Boost Mode (Option)	/	12.5	15.8	18.5	22	28	32	23.5	28	32	40
Heating Capacity	kW	1.2~10.5	1.8~13.8	3.2~17	3.0~20.5	3.8~25.8	4~30	3.1~21.5	3.7~25.8	4~30	4.5~35
COP	/	21.5~7	21.5~7.0	22.3~7.3	22.4~7.9	21.0~7.0	20.0~7.0	21.0~7.1	20.5~7.0	20.2~7.1	20.0~7.2
Air 15°C / Water 26°C / Humid. 70%											
Heating Capacity	kW	1~8.1	1.2~10.3	2.5~13	1.8~16	3.3~20.2	3.3~24.2	2.4~18.5	3.3~20.2	3.1~23.1	5.4~28.8
COP	/	7.9~5.1	8.0~5.1	8.5~5.4	9.5~5.6	8.2~5.0	8.0~5.1	9.5~5.6	8.2~5.0	8.0~5.1	8.0~5.1
Air 7°C / Water 26°C / Humid. 64%											
Heating Capacity	kW	0.8~6.5	0.8~8	1.1~10.4	1.2~11	1.3~12.2	1.3~12.2	1.2~11.3	1.5~16.16	1.8~18.48	3.2~21.36
COP	/	4.5~4.1	4.2~3.3	5.6~4.5	5.2~4.2	4.3~3	4.3~3	4.3~3	4.3~3	4.1~3	4.9~4
Performance (Cooling)Air 35°C / Water 30°C / Humid. 40%											
Cooling Capacity(kW)	/	1.5~4.8	2.5~7.2	3.6~9	5~13	15.50	4~18	5~13	4~15.5	4~18	6.2~23.5
EER	/	4.5~3.6	3.8~3	5.0~4.2	5.0~4.0	3.70	3.7~2.9	4.4~3.9	3.7~2.9	3.7~2.9	5~3.8
Technical Speicfication											
Throttling Device	/	EEV									
Fan Quantity	/	1									
MAX Fan Speed	RPM	650	650	630	650	750	750	650	750	750	750
Sound Pressure 1m	dB(A)	27~48.5	29~50	29~50	30~50.8	31~56.2	32~56.2	30~50	31~55.2	32~55.2	34~56
Compressor Brand	/	Panasonic									
Temperature Setting in Heating	°C	9~40									
Temperature Setting in Cooling	°C	8~30									
Water Connection	mm	50									
Water Flow Volume	m³/h	4.5	5.9	7.3	8.4	10.9	12.4	10.0	10.9	12.4	15.0
Water Pressure Drop (max)	kPa	3	4	5	8	14.7	14.7	16	8	25	15
Net Dimensions L/W/H	mm	1060×475×768			1144×489×865						
Packing Dimensions L/W/H	mm	1130×485×910			1210×515×1010						
Qty per 40'HQ	/	86	86	62	62	62	62	62	62	62	31

