



**GUANGDONG PHNIX ECO-ENERGY SOLUTION LTD.**

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Website



LinkedIn

# PHNXX

## -MEGALINE INVER-Chill Series

AI Full Inverter Pool Heat Pump For Middle East Region



Industry-First AI Solution



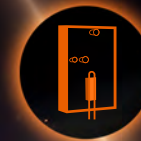
Industry-First Centralized Control Available



Industry-First IOT Smart Management



Industry-First Fluorine-Cooling Driver Board



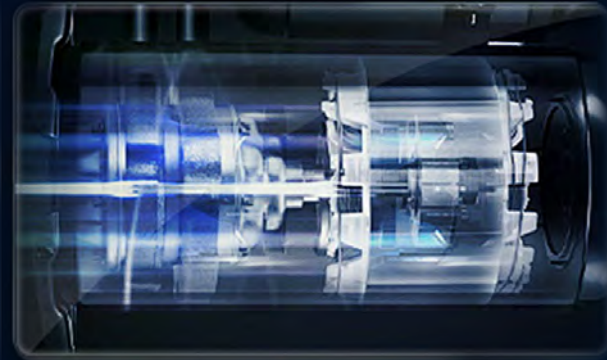
Industry-First Potting Control Board



Working Under Extreme Environment



- A solidate & fixed inverter logic.
- Running at max frequency low COP running.



REGULAR FULL INVERTER

**30%+** ENERGY SAVING

AI FULL INVERTER



#### TRAINED ON AN EXPERIMENTAL OCEAN

- Trained by more than 300,000 heat pumps running.



#### GLOBALLY VALIDATED

- 60-country field tests, localized AI tuning.



#### CONTEXT-ADAPTIVE INVERTER LOGIC

- Dynamically adjust running logic by different environment and users habit.



TUV Certified



Full Inverter



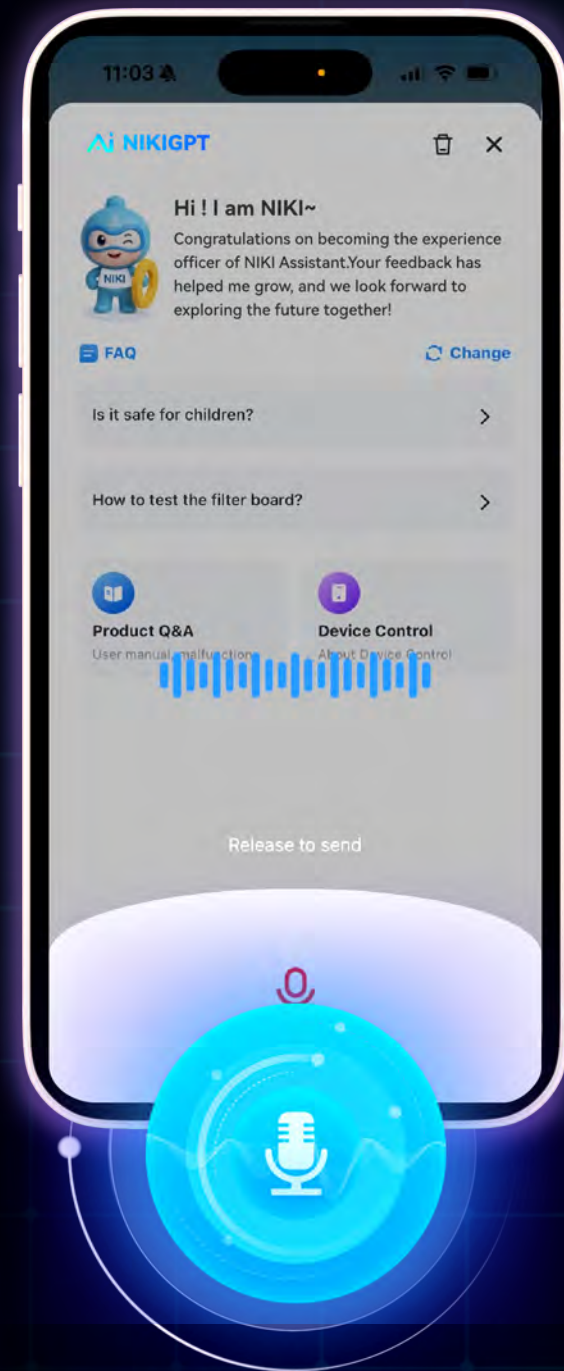
CoreTech

# Industry-First

## AI-CoreTech Pool Heating Solution



## Industry-First AI Smart Assistant



Hi~ i am NIKI. What can I do for you?

I'm hosting a pool party this friday night.  
Any recommended settings?

Device Control.

I'm getting an E03 error.

Please set target temperature to 30°C.



**Device Control**  
About Device Control



**Product Q&A**  
User manual, Malfunction



Aqua Temp

Available on the  
**App Store**

Get it on  
**Google play**

## Building an -Driven Service Ecosystem PHNIX IOT Platform



Hi!! I am NIKI~  
Congratulations on becoming the experience offic.  
Niki Assistant.Your feedback has helped me grow, ar.  
we look forward to exploring the future together!

Error code: E01 ,high pressure protection.  
Explanation: when the pressure of the  
system more than 4.4Mpa ,unit will stop for  
protection.

I have to try fix the problem by adjusting  
parameters,here are the detection records



Go Heating Pro

Available on the  
**App Store**

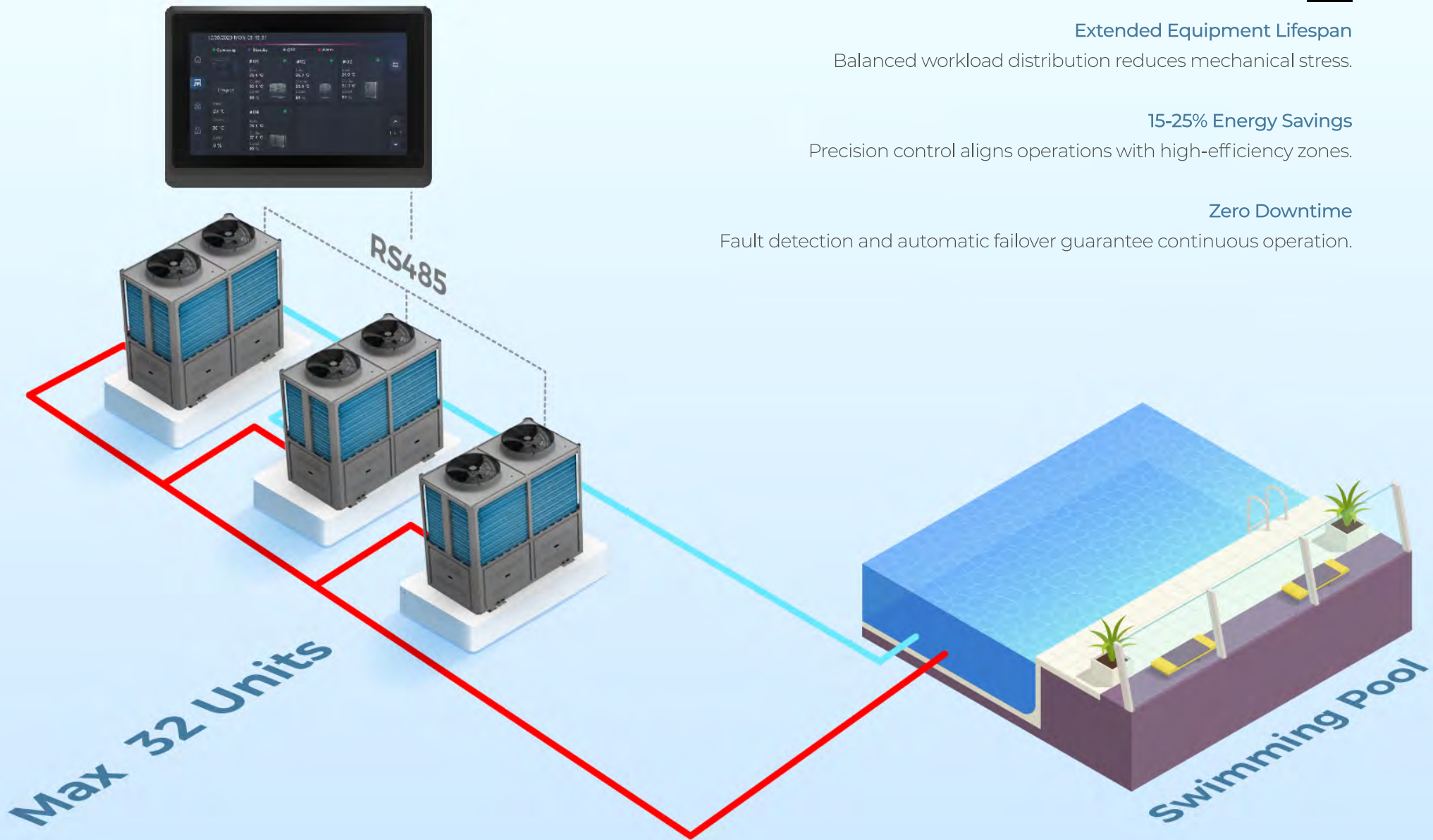
Get it on  
**Google play**

# Industry-First Energy PAD AI Heat Pump Centralized Controller



# Industry-First Energy PAD Centralized Control

Elevate performance, cut costs, and future-proof your system with adaptive intelligence

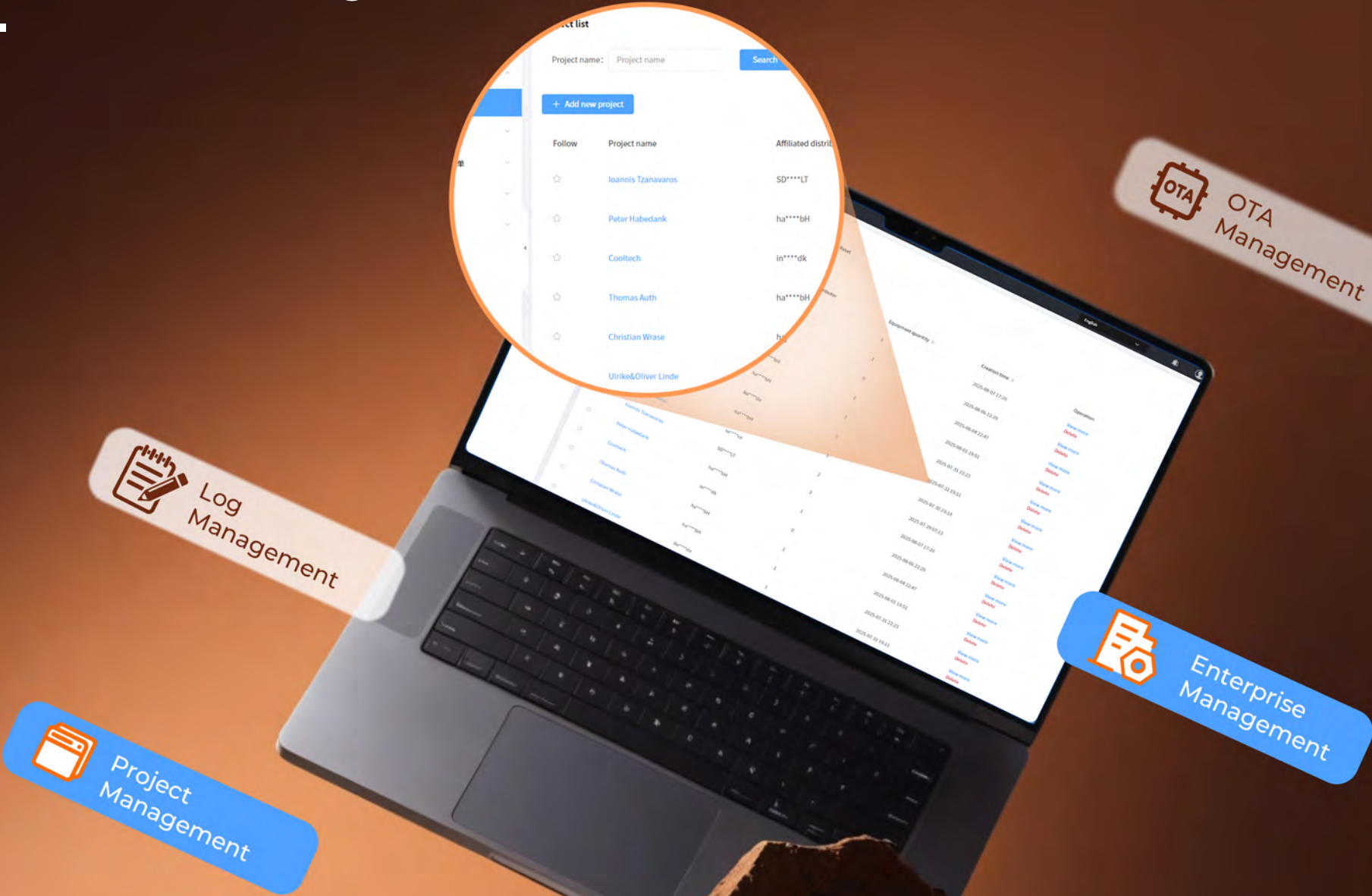


# Remote Intelligence Service Beyond Boundaries

Enjoy seamless connectivity via DTU, 4G or Wi-Fi module, enabling remote service and management through PHNIX IOT platform. Easily monitor and adjust water temperature anytime, anywhere-right from your smartphone or tablet.



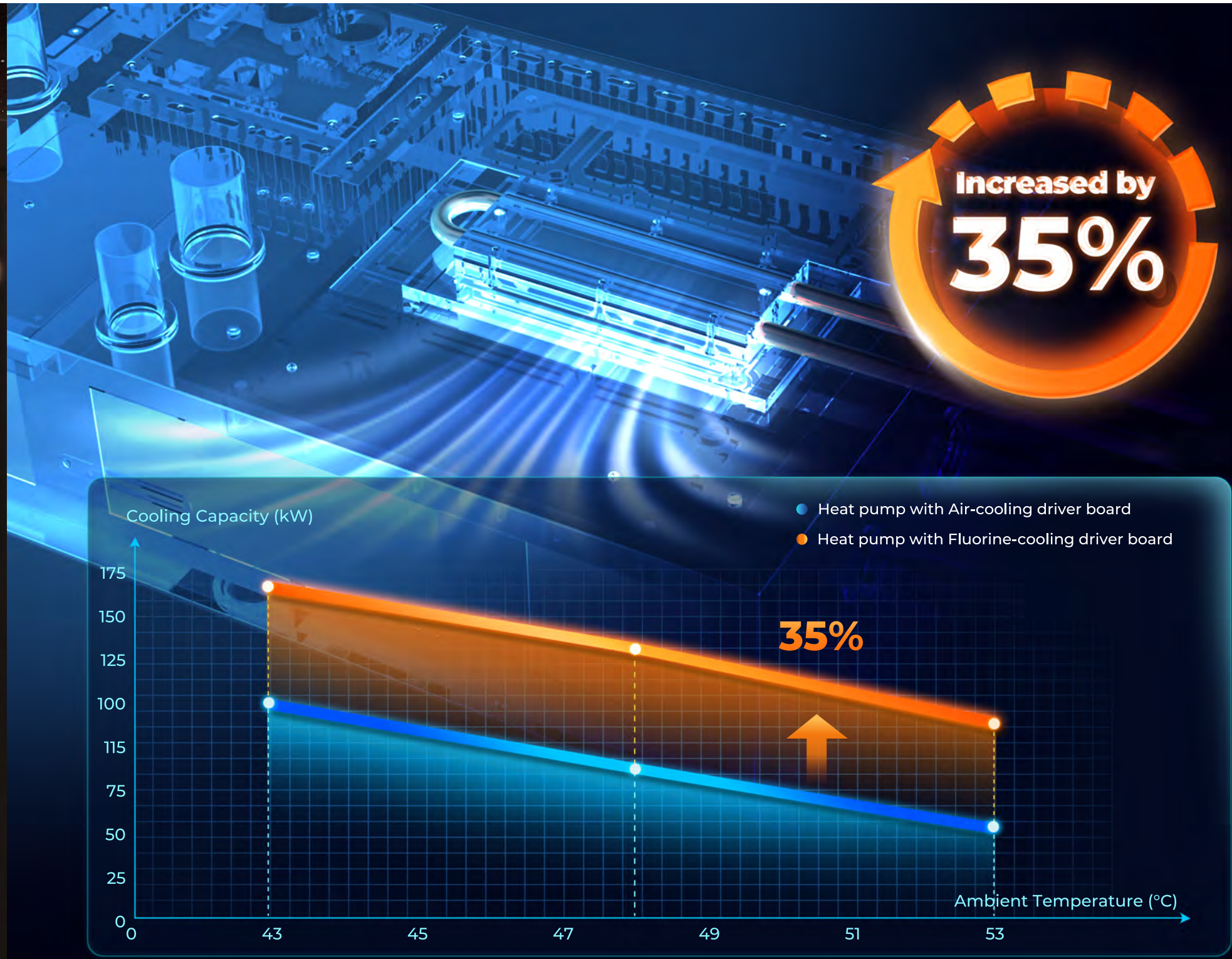
# IOT Smart Management



# Industry-First Fluorine Cooling Driver Board

The central electric control box with PHNIX self-developed driver board inside adopts fluorine-cooling technology, helping heat dissipation of the driver board, to ensure an efficient operation and make sure the unit can be operated under extreme high ambient temperature 53°C.

53°C  
High Temperature



# Industry-First Potting Solution for Control Board

With industry-first glue-filling technology, the PCB achieves a 90% reduction in failure rates, ensuring long-term reliability, this design delivers 5x protection

- Moisture resistance •
- Dust protection •
- Shock resistance •
- Pets-proof •
- Short circuits and damage protection •

# Full Inverter Pool Heat Pump





Wifi  
Connectivity

**COP**  
**16**

COP  
Up to 16



Electronic  
Expansion Valve



Inverter  
Compressor



Titanium Heat  
Exchanger



Inverter  
Fan



High/Low Pressure  
Protection Available



Low as 46dB(A)  
Under Silence Mode



Environmental  
Gas Available



Environmental  
Gas Available



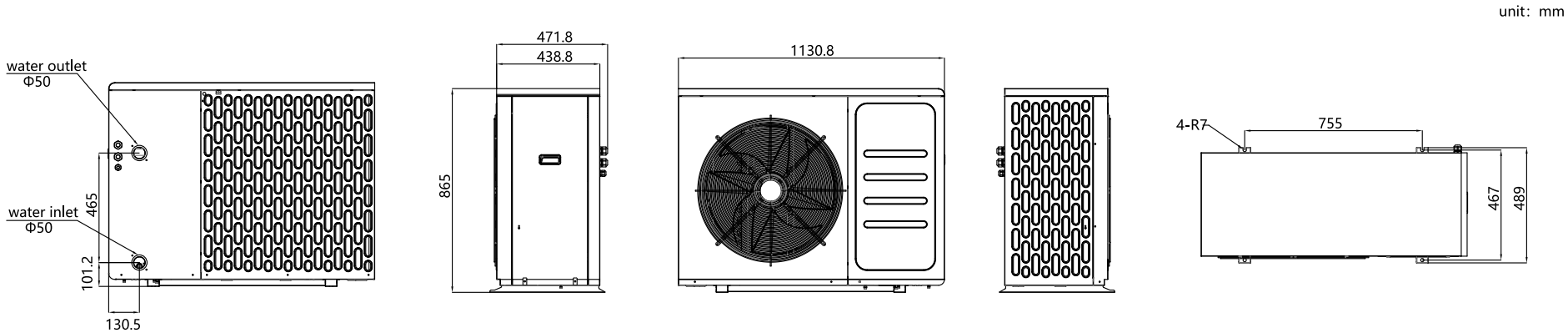
Defrosting



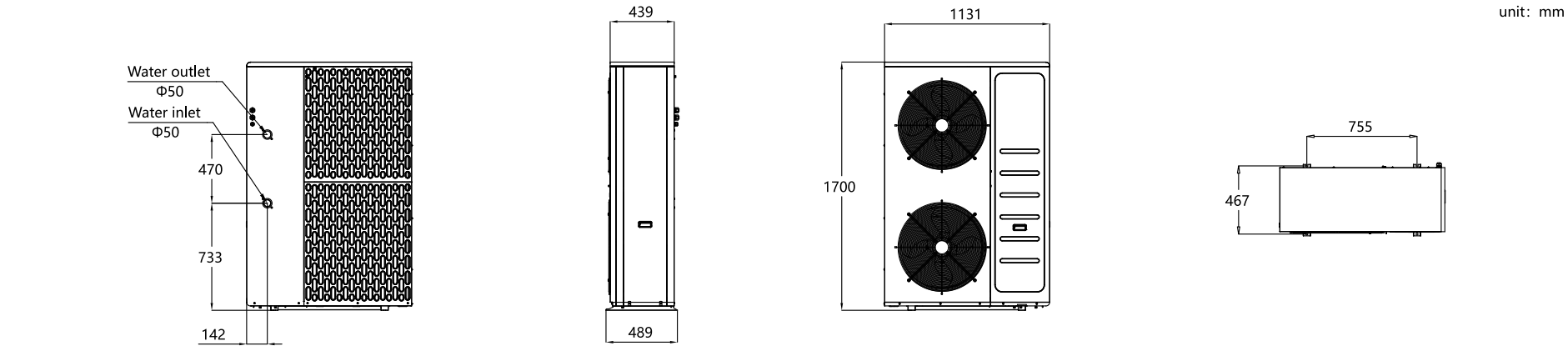
Phase Monitor

Drawing Dimension---R32 Full Inverter Models

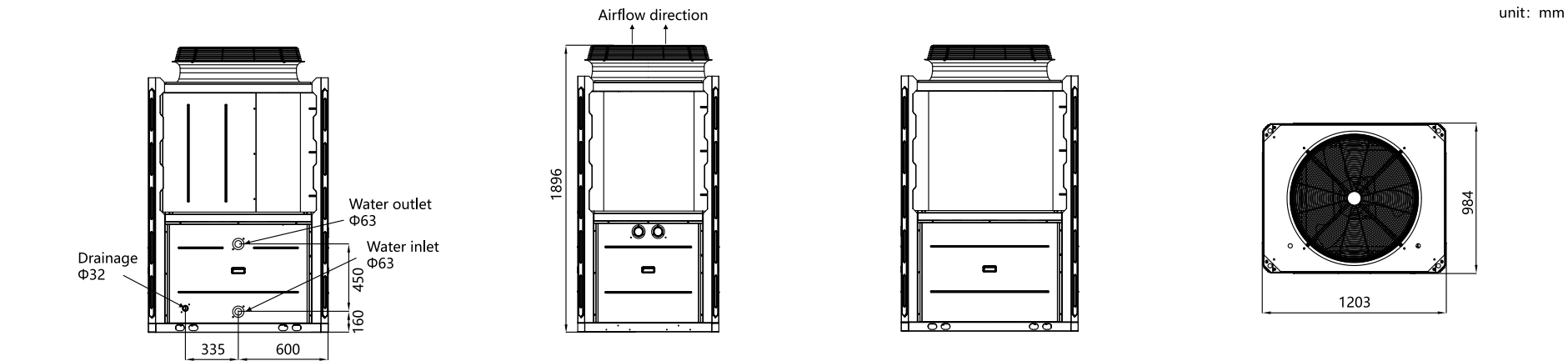
INVER-24 / INVER-30 / INVER-35 / INVER-40



INVER-50 / INVER-60

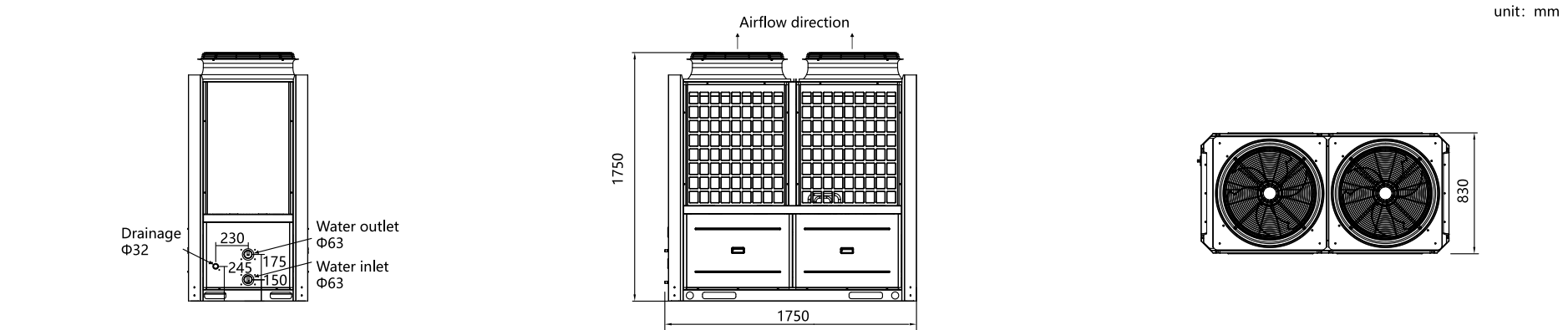


INVER-80

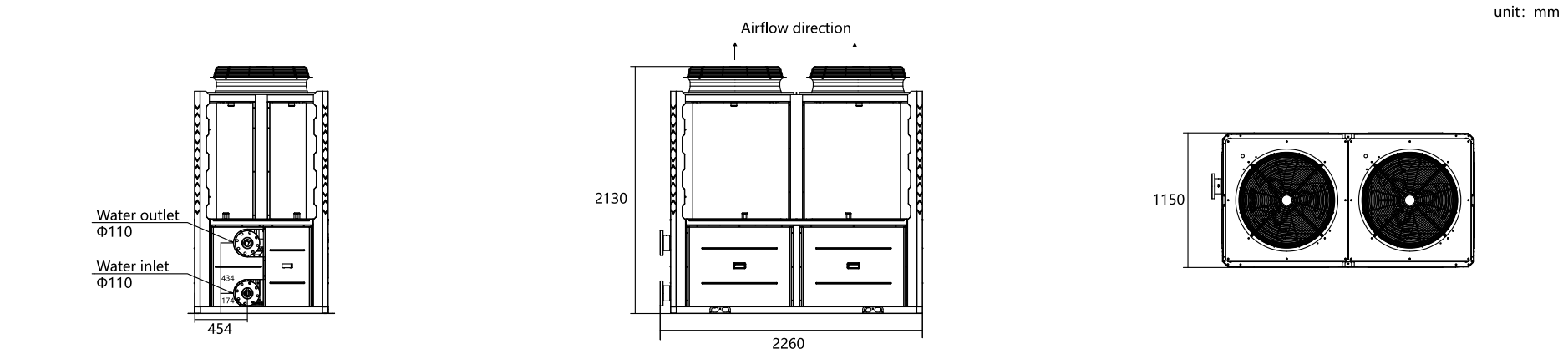


Drawing Dimension---R410A Full Inverter Models

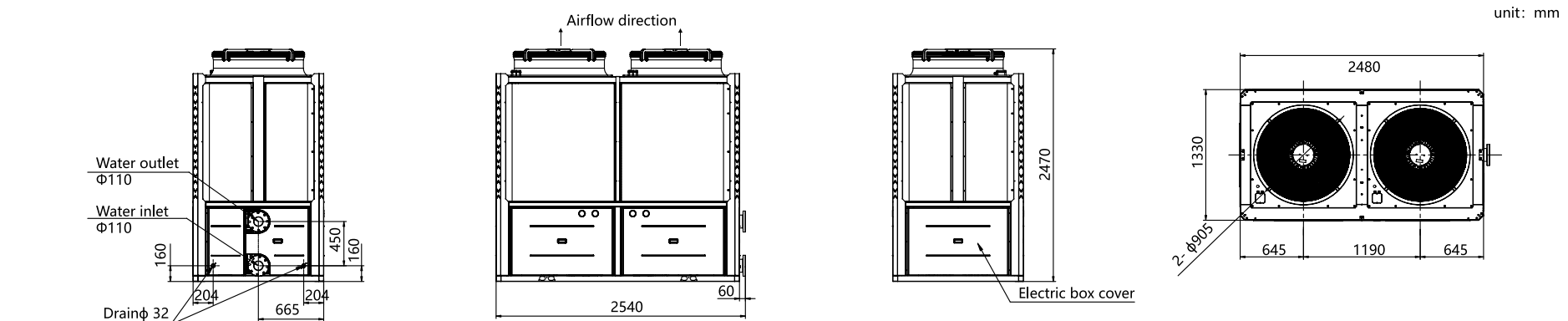
INVER-105



INVER-150 / INVER-175 / INVER-200



INVER-280 / INVER-300 / INVER-350



## Specification

| PHNIX Model               |       | INVER-24             | INVER-30             | INVER-35             | INVER-40             | INVER-50             | INVER-60             | INVER-80             |
|---------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Operating Air Temperature | ℃     | 2-53                 | 2-53                 | 2-53                 | 2-53                 | 2-53                 | 2-53                 | 2-53                 |
| Refrigerant               | /     | R32                  | R32                  | R32                  | R32                  | R32                  | R32                  | R32                  |
| Performance (Heating)     |       |                      |                      |                      |                      |                      |                      |                      |
| Air 27℃ Heating Capacity  | kW    | 4.6-24               | 4.8-30               | 5.09-35              | 5.92-40              | 14.5-50              | 15.9-60              | 23.0-80              |
| /Water 26℃ Consumed Power | kW    | 0.29- 3.42           | 0.30- 4.15           | 0.32-5.07            | 0.37-5.71            | 0.9-7.14             | 1.0-8.51             | 1.42-11.1            |
| /Humid. 80% COP           | /     | 7.0-15.86            | 7.22-16.0            | 6.9-15.9             | 7.0-16               | 7.0-16.10            | 7.05-15.9            | 7.20-16.10           |
| Air 15℃ Heating Capacity  | kW    | 3.5-18.5             | 3.81-22              | 3.7-27.5             | 3.92-31.5            | 10.9-40              | 11.5-48              | 17-60                |
| /Water 26℃ Consumed Power | kW    | 0.46-3.7             | 0.50-4.17            | 0.48-5.28            | 0.51-6.0             | 1.42-7.62            | 1.49-9.05            | 2.23-11.6            |
| /Humid. 70% COP           | /     | 5-7.61               | 5.28-7.62            | 5.2-7.7              | 5.25-7.68            | 5.23-7.68            | 5.30-7.7             | 5.17-7.62            |
| Performance (Cooling)     |       |                      |                      |                      |                      |                      |                      |                      |
| Air 43℃ Cooling Capacity  | kW    | 2.1-11.5             | 2.3-14               | 3.2-17.5             | 3.5-20               | 6.1-25               | 6.54-30              | 9.5-38               |
| /Water 32℃ Consumed Power | kW    | 0.60-1.95            | 0.62-2.36            | 0.90-2.97            | 1.0-3.33             | 1.74-4.18            | 1.82-5.0             | 2.21-6.91            |
| /Humid. 70% EER           | /     | 3.5-5.9              | 3.7-5.93             | 3.56-5.90            | 3.50-6.0             | 3.50-5.98            | 3.60-6.0             | 4.30-5.50            |
| Technical Data            |       |                      |                      |                      |                      |                      |                      |                      |
| Power Supply              | /     | 380V/3N~/50Hz & 60Hz | 380V/3N~/50Hz & 60Hz | 380V/3N~/50Hz & 60Hz | 380V/3N~/50Hz & 60Hz | 380V/3N~/50Hz & 60Hz | 380V/3N~/50Hz & 60Hz | 380V/3N~/50Hz & 60Hz |
| Fan Quantity              | /     | 1                    | 1                    | 1                    | 1                    | 2                    | 2                    | 1                    |
| Fan Speed (RPM)           | /     | 600                  | 650                  | 680                  | 720                  | 750                  | 750                  | 750                  |
| Air Flow Volumn           | m³/h  | 3600                 | 3600                 | 3600                 | 3600                 | 7200                 | 7200                 | 10400                |
| Fan Direction             | /     | Horizontal           | Horizontal           | Horizontal           | Horizontal           | Horizontal           | Horizontal           | Vertical             |
| Compressor Brand          | /     | GMCC                 | GMCC                 | GMCC                 | GMCC                 | GMCC                 | GMCC                 | Mitsubishi           |
| Compressor Type           | /     | Rotory               | Rotory               | Rotory               | Rotory               | Rotory               | Rotory               | Rotory               |
| Compressor QTY            | /     | 1                    | 1                    | 1                    | 1                    | 1                    | 1                    | 1                    |
| Heat Exchanger            | /     | Titanium             | Titanium             | Titanium             | Titanium             | Titanium             | Titanium             | Titanium             |
| BMS Available             | /     | YES                  | YES                  | YES                  | YES                  | YES                  | YES                  | YES                  |
| WIFI Available            | /     | YES                  | YES                  | YES                  | YES                  | YES                  | YES                  | YES                  |
| Sound Pressure 1m         | dB(A) | 52                   | 53                   | 54                   | 55                   | 56                   | 57                   | 61                   |
| Water Connection          | mm    | 50                   | 50                   | 50                   | 50                   | 50                   | 50                   | 63                   |
| Water Flow Volume         | m³/h  | 6.00                 | 6.00                 | 8.00                 | 8.00                 | 13.00                | 13.00                | 18.00                |
| Water Pressure Drop (max) | kPa   | 12.0                 | 12.0                 | 15.0                 | 15.0                 | 20.0                 | 20.0                 | 9.3                  |
| Net Dimensions L/W/H      | mm    | 1131×490×865         | 1131×490×865         | 1131×490×865         | 1131×490×865         | 1131×490×1705        | 1131×490×1705        | 1195×980×1895        |
| Gross Dimensions L/W/H    | mm    | 1210×515×1010        | 1210×515×1010        | 1210×515×1010        | 1210×515×1010        | 1210×515×1845        | 1210×515×1845        | 1320×1085×2100       |
| Certification             | /     | CB                   |                      |                      |                      |                      |                      |                      |
| Function                  | /     | Heating & Cooling    |                      |                      |                      |                      |                      |                      |
| Throttling Device         | /     | EEV                  |                      |                      |                      |                      |                      |                      |

## Specification

| PHNIX Model               |                  |                            |                            | INVER-105             | INVER-150                  | INVER-175           | INVER-200             | INVER-280           | INVER-300      | INVER-350 |
|---------------------------|------------------|----------------------------|----------------------------|-----------------------|----------------------------|---------------------|-----------------------|---------------------|----------------|-----------|
| Operating Air Temperature |                  | °C                         | 2-53                       | 2-53                  | 2-53                       | 2-53                | 2-53                  | 2-53                | 2-53           | 2-53      |
| Refrigerant               |                  | /                          | R410A                      | R410A                 | R410A                      | R410A               | R410A                 | R410A               | R410A          | R410A     |
| Performance (Heating)     |                  |                            |                            |                       |                            |                     |                       |                     |                |           |
| Air 27°C                  | Heating Capacity | kW                         | 14.20~105                  | 30~150                | 28.2~175                   | 32~200              | 65~280                | 61.5~300            | 72~350         |           |
| /Water 26°C               | Consumed Power   | kW                         | 0.88-12.85                 | 1.87-19.2             | 1.76-22.3                  | 1.97-24.2           | 4.03-35.44            | 3.81~40.85          | 4.44-44.87     |           |
| /Humid. 80%               | COP              | /                          | 8.17-16.14                 | 7.80-16.05            | 7.85-16.00                 | 8.26-16.25          | 7.9-16.10             | 7.34~16.14          | 7.80-16.20     |           |
| Air 15°C                  | Heating Capacity | kW                         | 9.60-76                    | 20.1-115              | 20.5-132                   | 22.20-150.00        | 50.00~210             | 53~225              | 60.00~260      |           |
| /Water 26°C               | Consumed Power   | kW                         | 1.26-13.05                 | 2.61-21.5             | 2.63-22.5                  | 2.86-24.6           | 6.41-39.50            | 6.80-40.9           | 7.74-47.5      |           |
| /Humid. 70%               | COP              | /                          | 5.82-7.62                  | 5.35-7.70             | 5.86-7.80                  | 6.10-7.76           | 5.32-7.80             | 5.50-7.79           | 5.47-7.75      |           |
| Performance (Cooling)     |                  |                            |                            |                       |                            |                     |                       |                     |                |           |
| Air 43°C                  | Cooling Capacity | kW                         | 15.00-52                   | 30.5-73               | 30~85                      | 32.3-95             | 72~140                | 75~150              | 83.25~170      |           |
| /Water 32°C               | Consumed Power   | kW                         | 3.41-10.2                  | 7.09-13.85            | 5.50~18.89                 | 7.18-17.27          | 16.36~25.9            | 13.64~32.75         | 18.5~30.91     |           |
| /Humid. 70%               | EER              | /                          | 4.40-5.10                  | 4.30-5.30             | 4.50~5.45                  | 4.50-5.50           | 4.4~5.40              | 4.58~5.5            | 4.5~5.5        |           |
| Technical Data            |                  |                            |                            |                       |                            |                     |                       |                     |                |           |
| Power Supply              | /                | 380-415V~/3Ph~/50Hz & 60Hz | 380-415V~/3Ph~/50Hz & 60Hz | 380V/3Ph~/50Hz & 60Hz | 380-415V~/3Ph~/50Hz & 60Hz | 380-415V~/3Ph~/50Hz | 380V/3Ph~/50Hz & 60Hz | 380-415V~/3Ph~/50Hz |                |           |
| Fan Quantity              | /                | 2                          | 2                          | 2                     | 2                          | 2                   | 2                     | 2                   | 2              |           |
| Fan Speed (RPM)           | /                | 700                        | 750                        | 750                   | 750                        | 850                 | 850                   | 850                 | 850            |           |
| Air Flow Volumn           | m³/h             | 13200                      | 28000                      | 28000                 | 28000                      | 55000               | 55000                 | 55000               | 55000          |           |
| Fan Direction             | /                | Vertical                   | Vertical                   | Vertical              | Vertical                   | Vertical            | Vertical              | Vertical            | Vertical       |           |
| Compressor Brand          | /                | Mitsubishi                 | Hitachi                    | Hitachi               | Hitachi                    | Hitachi             | Hitachi               | Hitachi             | Hitachi        |           |
| Compressor Type           | /                | Scroll                     | Scroll                     | Scroll                | Scroll                     | Scroll              | Scroll                | Scroll              | Scroll         |           |
| Compressor QTY            | /                | 1                          | 2                          | 2                     | 2                          | 4                   | 4                     | 4                   | 4              |           |
| Heat Exchanger            | /                | Titanium                   | Titanium                   | Titanium              | Titanium                   | Titanium            | Titanium              | Titanium            | Titanium       |           |
| BMS Available             | /                | YES                        | YES                        | YES                   | YES                        | YES                 | YES                   | YES                 | YES            |           |
| WIFI Available            | /                | YES                        | YES                        | YES                   | YES                        | YES                 | YES                   | YES                 | YES            |           |
| Sound Pressure 1m         | dB(A)            | 61                         | 62                         | 62                    | 63                         | 64                  | 64                    | 64                  | 65             |           |
| Water Connection          | mm               | 63                         | 110                        | 110                   | 110                        | 110                 | 110                   | 110                 | 110            |           |
| Water Flow Volume         | m³/h             | 27.5                       | 53.0                       | 53.0                  | 53.0                       | 60.0                | 60.0                  | 60.0                | 60.0           |           |
| Water Pressure Drop (max) | kPa              | 25.0                       | 37                         | 37                    | 37                         | 55                  | 55                    | 55                  | 55             |           |
| Net Dimensions L/W/H      | mm               | 1750×840×1750              | 2260×1150×2130             | 2260×1150×2130        | 2260×1150×2130             | 2480x1330x2360      | 2480x1330x2360        | 2480x1330x2360      | 2480x1330x2360 |           |
| Gross Dimensions L/W/H    | mm               | 1840*940*1920              | 2270*1300*2200             | 2270*1300*2200        | 2270*1300*2200             | 2570*1490*2500      | 2570*1490*2500        | 2570*1490*2500      | 2570*1490*2500 |           |
| Certification             | /                | CB                         |                            |                       |                            |                     |                       |                     |                |           |
| Function                  | /                | Heating & Cooling          |                            |                       |                            |                     |                       |                     |                |           |
| Throttling Device         | /                | EEV                        |                            |                       |                            |                     |                       |                     |                |           |