

-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

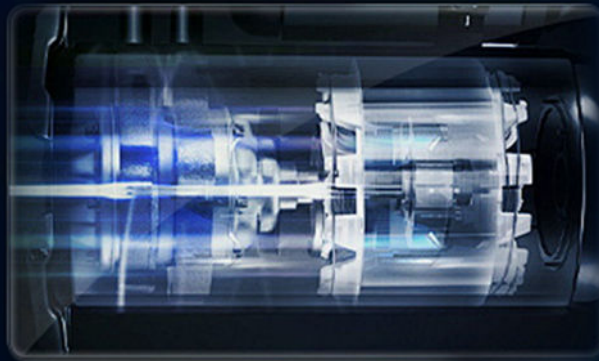


Industry-First Potting Control Board



Working Under Extreme Environment

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



30%+ ENERGY SAVING

REGULAR FULL INVERTER

Industry-First

AI-CoreTech Pool Heating Solution





TUV Certified



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.

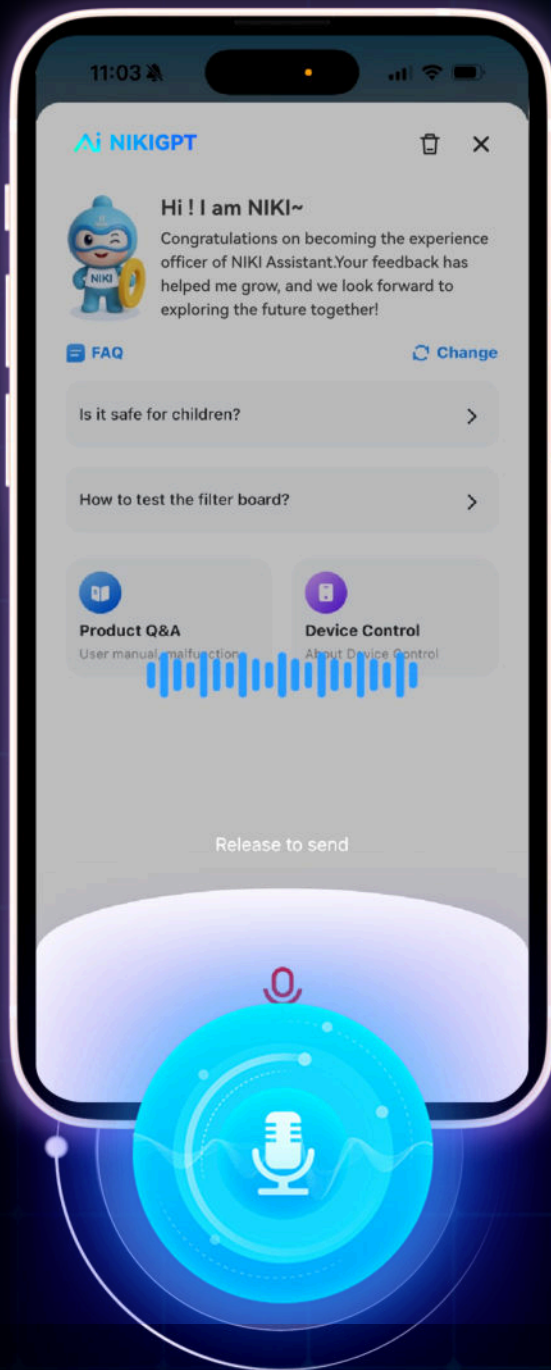


CONTEXT-ADAPTIVE INVERTER LOGIC

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



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.



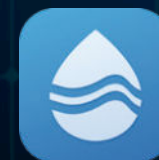
Device Control

About Device Control



Product Q&A

User manual, Malfunction



Aqua Temp



Building an -Driven Service Ecosystem

PHNIX IOT Platform



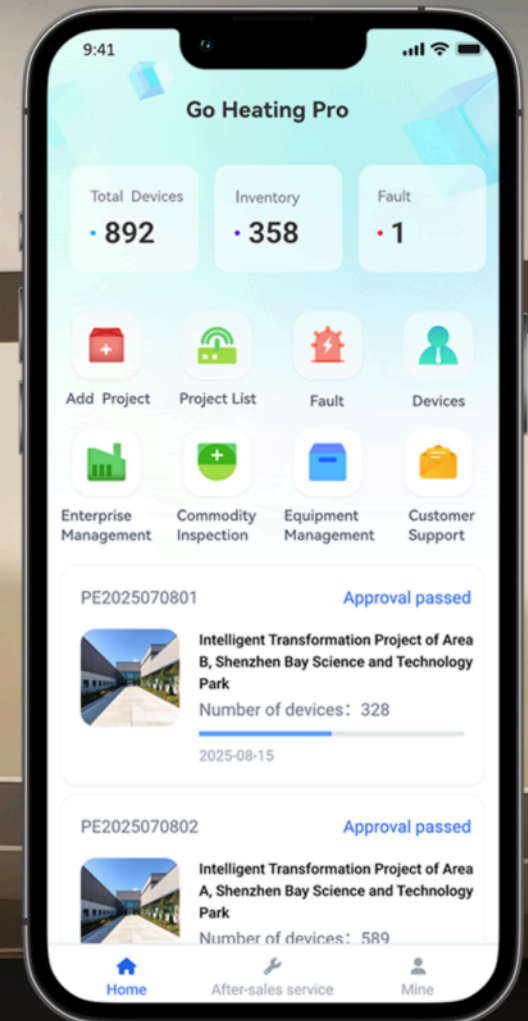
Go Heating Pro



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



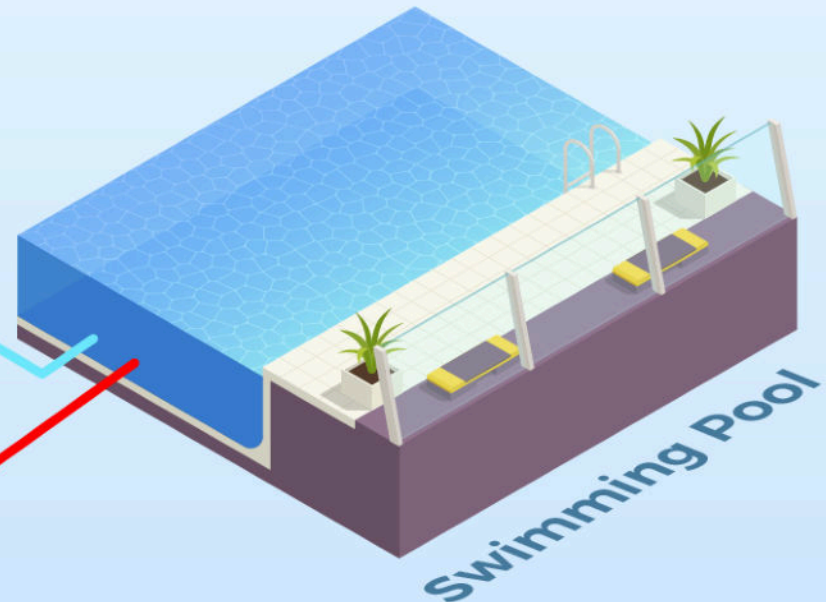
RS485

Max 32 Units

Extended Equipment Lifespan
Balanced workload distribution reduces mechanical stress.

15-25% Energy Savings
Precision control aligns operations with high-efficiency zones.

Zero Downtime
Fault detection and automatic failover guarantee continuous operation.

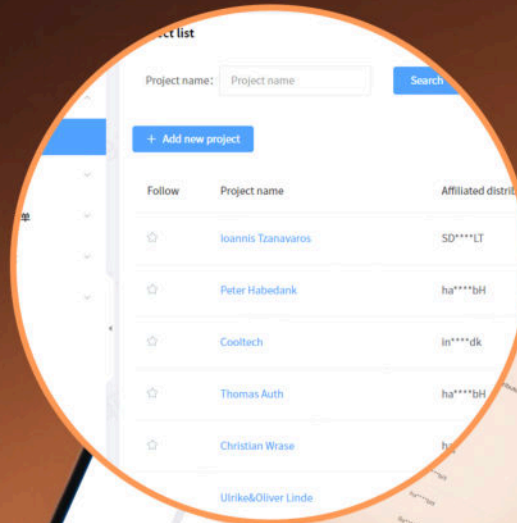


Remote Intelligence Service Beyond Boundaries

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



OTA
Management



Log
Management



Project
Management



Enterprise
Management



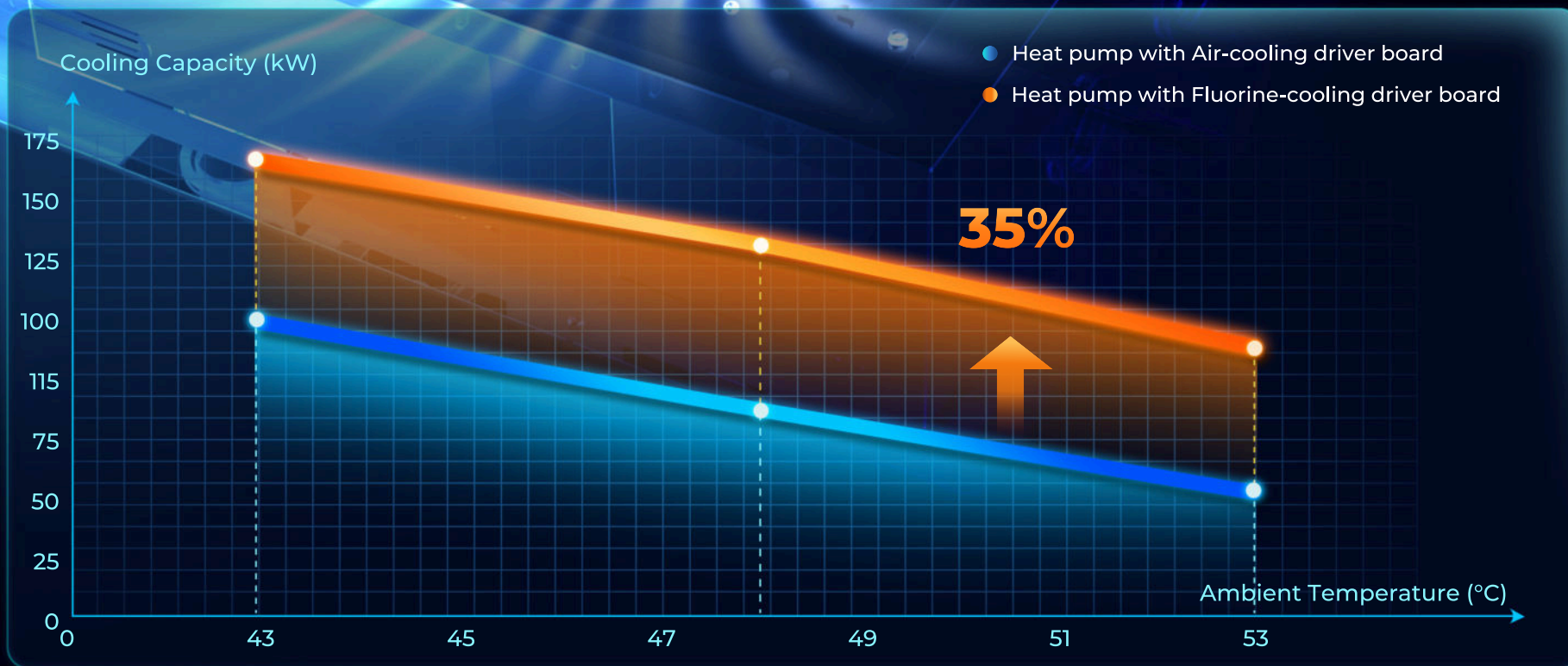
Industry-First Fluorine Cooling Driver Board

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



Increased by
35%



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

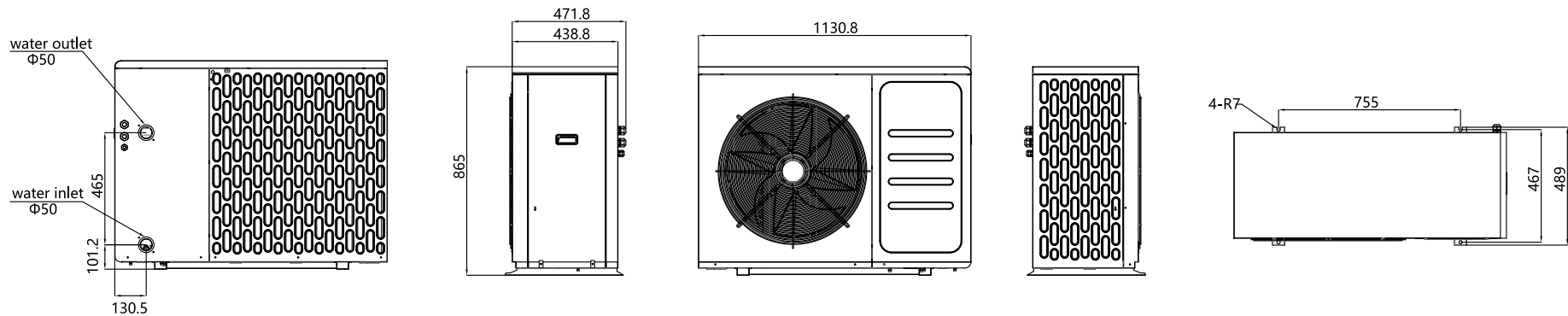


Phase Monitor

Drawing Dimension---R32 Full Inverter Models

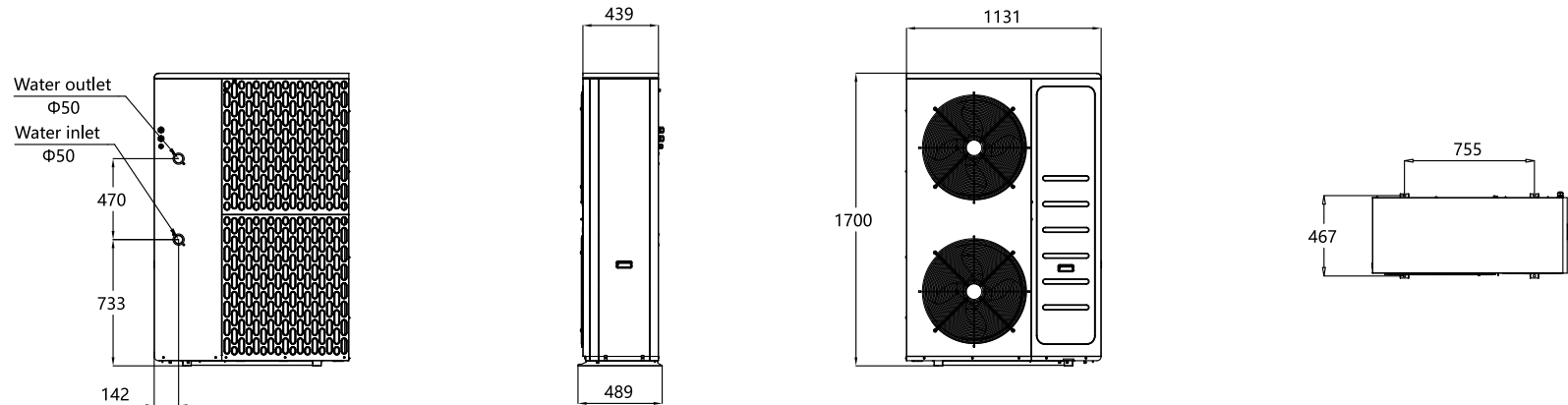
INVER-24 / INVER-30 / INVER-35 / INVER-40

unit: mm



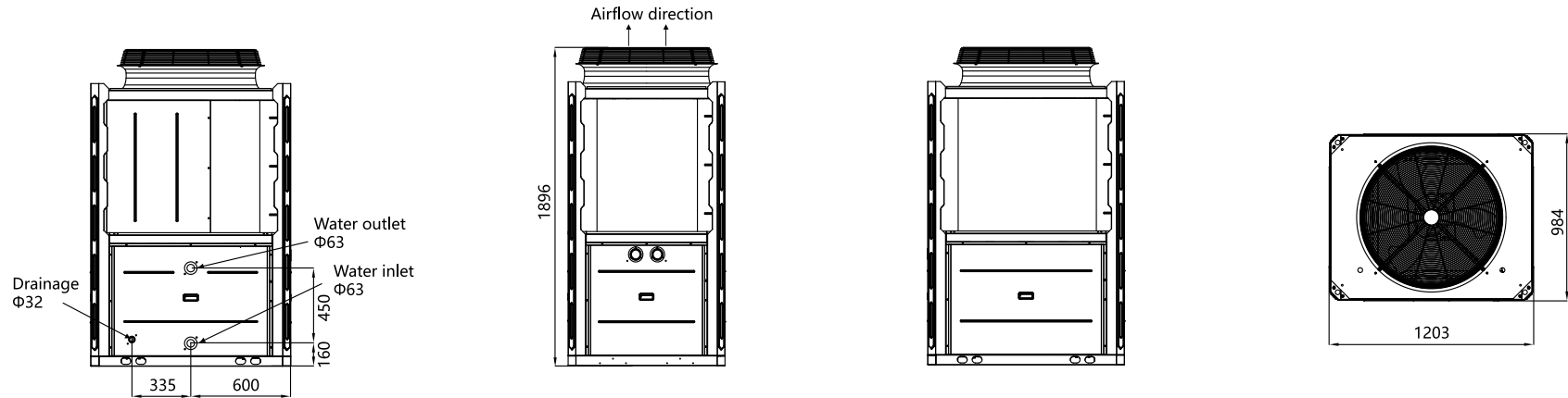
INVER-50 / INVER-60

unit: mm



INVER-80

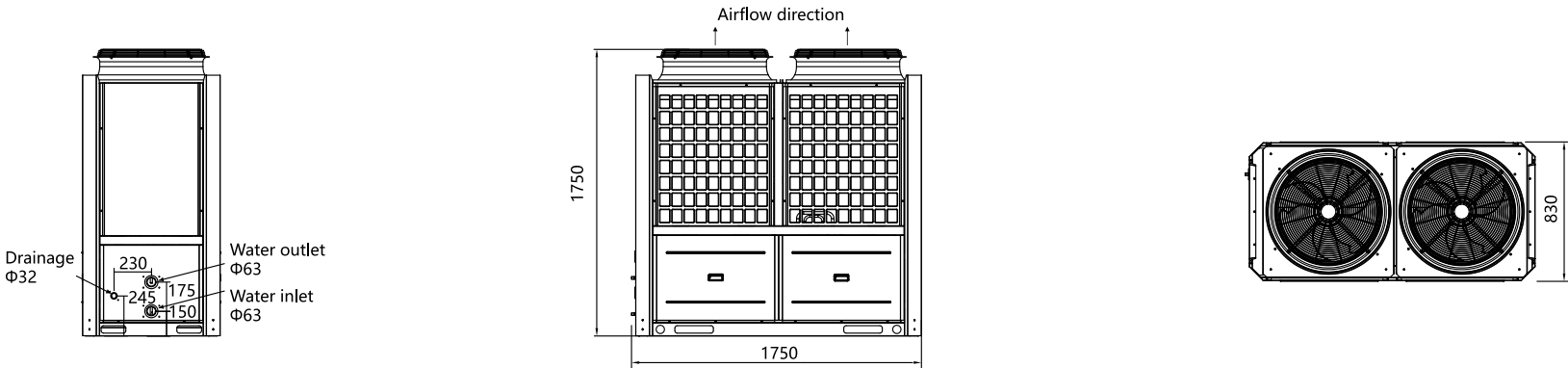
unit: mm



Drawing Dimension---R410A Full Inverter Models

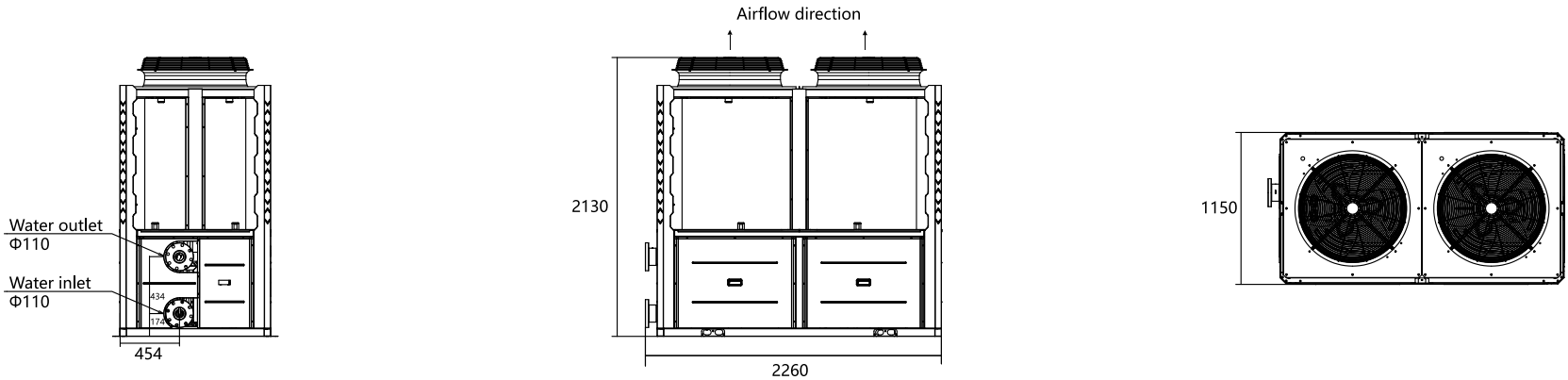
INVER-105

unit: mm



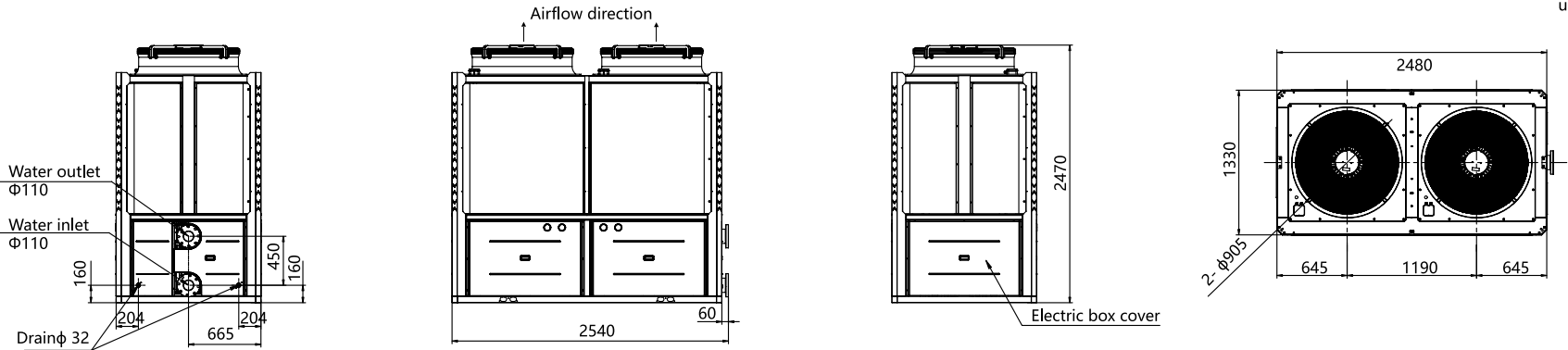
INVER-150 / INVER-175 / INVER-200 /INVER-250

unit: mm



INVER-300 / INVER-350

unit: mm





Parameters

Phnix Model		INVER-24	INVER-30	INVER-35	INVER-40	INVER-50	INVER-60	INVER-80
Operating air temperature (°C)		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°C /Water 26°C /Humid. 80%	Heating Capacity(kW) normal mode	4.6-24	4.8-30	5.09-35	5.92-40	14.5-50	15.9-60	23.0-80
	Consumed power (kW) normal mode	0.29- 3.42	0.30- 4.10	0.32-5.07	0.37-5.71	0.9-7.14	1.0-8.51	1.42-11.1
	COP normal mode	7.0-15.86	7.31-16.0	6.9-15.9	7.0-16	7.0-16.10	7.05-15.9	7.20-16.10
Air 15°C /Water 26°C /Humid. 70%	Heating Capacity(kW) normal mode	3.5-18.5	3.81-22	3.7-27.5	3.92-31.5	10.9-40	11.5-48	17~60
	Consumed power (kW) normal mode	0.46-3.7	0.50-4.13	0.48-5.28	0.51-6.0	1.42-7.62	1.49-9.05	2.23~11.6
	COP normal mode	5-7.61	5.32-7.62	5.2-7.7	5.25-7.68	5.23-7.68	5.30-7.7	5.17-7.62
Performance (Cooling)								
Air 43°C /Water 32°C /Humid. 70%	Cooling Capacity(kW)normal mode	2.1-11.5	2.3-14	3.2-17.5	3.5-20	6.1-25	6.54-30	9.5-38
	Consumed power (kW)normal mode	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
	EER normal mode	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		380-415V/3N~/50Hz & 60Hz	380-415V/3N~/50Hz & 60Hz	380-415V/3N~/50Hz & 60Hz	380-415V/3N~/50Hz & 60Hz	380-415V/3N~/50Hz & 60Hz	380-415V/3N~/50Hz & 60Hz	380-415V/3N~/50Hz & 60Hz
RATED POWER INPUT		4.14	5.02	6.33	7.13	9.13	10.88	12.83
RATED CURRENT INPUT		6.4	7.77	10.7	12.05	14.7	17.52	20.49
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	CB	CB	CB	CB	CB	CB
Function		Heating & Cooling	Heating & Cooling	Heating & Cooling	Heating & Cooling	Heating & Cooling	Heating & Cooling	Heating & Cooling
Throttling device		EEV	EEV	EEV	EEV	EEV	EEV	EEV

Parameters



Phnix Model	INVER-105	INVER-150	INVER-175	INVER-200	INVER-250	INVER-300	INVER-350
Operating air temperature (°C)	2-53	2-53	2-53	2-53	2-53	2-53	2-53
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Performance (Heating)							
Air 27°C Heating Capacity(kW) normal mode	14.20~105	30~150	28.2~175	32~200	65~250	61.5~320	72~360
/Water 26°C Consumed power (kW) normal mode	0.88-12.85	1.87-19.2	1.76-22.3	1.97-23.0	4.03-24.1	3.81~43.60	4.44-46.15
/Humid. 80% COP normal mode	8.17-16.14	7.80-16.05	7.85-16.00	8.69-16.25	10.37-16.10	7.34~16.14	7.80-16.20
Air 15°C Heating Capacity(kW) normal mode	9.60-76	20.1-115	20.5-132	22.20-150.00	25.00~190	53~245	60.00~270
/Water 26°C Consumed power (kW) normal mode	1.26-13.05	2.61-21.5	2.63-22.5	2.86-23.3	3.10-24.4	6.80-44.55	7.74-49.36
/Humid. 70% COP normal mode	5.82-7.62	5.35-7.70	5.86-7.80	6.43-7.79	7.78-8.05	5.50-7.79	5.47-7.75
Performance (Cooling)							
Air 43°C Cooling Capacity(kW)normal mode	15.00-52	30.5-73	30~85	32.3-95	38~120	75~180	83.25~210
/Water 32°C Consumed power (kW)normal mode	3.41-10.2	7.09-13.85	5.50~18.89	7.60-17.27	7.80~21.90	13.64~39.30	18.5~46.66
/Humid. 70% EER normal mode	4.40-5.10	4.30-5.30	4.50~5.45	4.6~0-5.50	4.87~5.80	4.58~5.5	4.5~5.5
Technical data							
Power Supply	380-415V~/3Ph~/50Hz & 60Hz	380-415V~/3Ph~/50Hz & 60Hz	380-415V~/3Ph~/50Hz & 60Hz	380-415V~/3Ph~/50Hz & 60Hz	380-415V~/3Ph~/50Hz & 60Hz	380-415V~/3Ph~/50Hz & 60Hz	380-415V~/3Ph~/50Hz & 60Hz
RATED POWER INPUT	13.1	24.7	28.5	31.13	35.5	63.4	69.7
RATED CURRENT INPUT	21.0	39.7	44.4	50.04	53.5	104.6	111.6
Fan Quantity	2	2	2	2	2	2	2
Fan Speed (RPM)	700	750	750	750	850	850	850
Air flow volumn (m3/h)	13200	28000	28000	28000	30000	55000	55000
Fan direction	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Compressor Brand	Mitsubishi	Hitachi	Hitachi	Hitachi	Hitachi	Hitachi	Hitachi
Compressor Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor QTY	1	2	2	2	2	4	4
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)	61	62	62	63	64	64	65
Water Connection (mm)	63	110	110	110	110	110	110
Water Flow Volume (m3/h)	27.5	53.0	53.0	53.0	53.0	60.0	60.0
Water Pressure Drop (max) kPa	25.0	37	37	37	37	55	55
Net Dimensions L/W/H (mm)	1750×840×1750	2260×1150×2130	2260×1150×2130	2260×1150×2130	2260×1150×2130	2480x1330x2360	2480x1330x2360
Gross Dimensions L/W/H (mm)	1840*940*1920	2270*1300*2200	2270*1300*2200	2270*1300*2200	2270*1300*2200	2570*1490*2500	2570*1490*2500
Certification	CB	CB	CB	CB	CB	CB	CB
Function	Heating & Cooling	Heating & Cooling	Heating & Cooling	Heating & Cooling	Heating & Cooling	Heating & Cooling	Heating & Cooling
Throttling device	EEV	EEV	EEV	EEV	EEV	EEV	EEV



Fluidra Middle East

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