SAMYOU

ENVIRONMENTAL APPLIANCES PRODUCT CATALOG

One-Stop Solution for HVAC Industry

SAMYOU

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SAMYOU

One-Stop Solution for HVAC Industry

About SAMYOU

Founded in 2016, SAMYOU is a technology-driven company. It has nearly 700 employees, including more than 250 professional R&D engineers, and has secured more than 200 national patents to date.

SAMYOU focuses intensively on the HVAC sector, delivering energy-saving and eco-friendly solutions. Leveraging one-stop capabilities in design, R&D, and manufacturing, we consistently provide customers with high efficiency, environmentally responsible products and system level solutions.

Guided by continuous innovation, we are committed to elevating our products and services and to building a leading environmental appliance brand in the industry.

Enterprise Strength

- Drafter of the National Dehumidifier Standard GB/T 19411-2024
- High-tech Enterprise | Specialized, Refined, Unique and Innovative Enterprises | HVACR Intelligent Manufacturing Award | Innovation-driven Intelligence Award of China HVACR Intelligent Manufacturing Award
- "Research and Application of Intelligent Inverter Energy Saving Dehumidification Technology for Low Temperature Conditions" Second Prize of Guangdong Machinery Industry Science & Technology Award

700+
Employees

250+
R&D Engineers

47000+ m²
Factory Floor Area

200+
Patents

30+
National Standard Laboratories

Two Core Businesses:



1. HVAC Products

We provide product development and manufacturing services in the field of HVAC for domestic and foreign brands.

The main products include residential and commercial air conditioners, heat pumps, ventilation systems, air purification and smart dehumidifiers.



2. Inverter Drive and Control Solutions

We provide control solutions for all kinds of electrical appliance manufacturers, and energy-efficient inverter control products for industrial motor and compressor suppliers.



Manufacturing & Quality Control

Comprehensive HVAC R&D and Quality Management System

Samyou builds its R&D and production systems on Stringent Requirements, Premium Quality, Exact Standards establishing an end-to-end product development process. Strict compliance with ISO 9001 international quality standards ensures every product passes 40+ rigorous tests for consistent and reliable performance.



SAMYOU

CNAS

Certified Laboratory

State of the Art Testing and Measurement Equipment

Equipped with advanced laboratory instruments, including high-precision refrigerant analyzers, compressor test benches, and enthalpy difference laboratories to support product development and performance validation. Integrated PCB strain testers, programmable power supplies, and hardware logic analyzers enable thorough verification of electronic control systems, ensuring reliable system integration and consistent product performance.

R&D Laboratory

- EMC Testing (Electromagnetic Compatibility)
- Salt Spray Test (ASTM B117 Standard)
- 1000 Hour Endurance Test
- 1000 Hour Continuous Operation Test
- Stress Strain Test
- Sound Pressure Level Measurement
- Package Transport Simulation



Company Milestones

2016

- Samyou was founded
  Provided customized R&D services
- Set up a subsidiary company
  Adentech specialized in inverter drive & control solutions

2017

- Set up a JV company with C&H

2018

- Gained strategic investment from Xiaomi

2019

- Created VINO brand for household appliances
- Set up a JV factory Sinewave with KTS

2020
2021

- Launched the Mi Dehumidifier with Xiaomi
- Sales exceeded 100,000 units

2022

- Samyou: National High-tech Enterprise Honor & Special Enterprise Honor
- Sinewave: National High-tech Enterprise Honor

2023

- Adentech: National High-tech Enterprise Honor & Provincial Level Special Enterprise Honor
- Sinewave: Provincial Level Special Enterprise Honor
- Shenzhen Research and Development Center established

2024

- Malaysia company was established
- Completed the acquisition of Sinewave

2025

- Established a production base in Malaysia
- Set up a sales company in USA
- Planning construction of Samyou Group Headquarters Industrial Park



GLOBAL COOPERATION PARTNERS

Our products span a wide range of applications including air conditioners, heat pumps, dehumidifiers, modular units, inverter drives and control systems. To date, our products have been exported to more than 30 countries and regions around the world and are widely used in residential and industrial/commercial scenarios.

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Smart Dehumidifier, Low Noise



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Industrial Product

High-end Custom



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01

RESIDENTIAL PRODUCTS

We use temperature to adjust the comfort of life safeguarding the living health in square meters

Indoor Climate Mastery Solutions:

- Multi Split Air Conditioner
- Low Temperature Inverter Air-to-Water Heat Pump
- EU Air-to-Water Heat Pump
- Solar Air Conditioner
- Ultra Thin Fan Coil Unit
- DC Inverter Geothermal & Water Source Pump



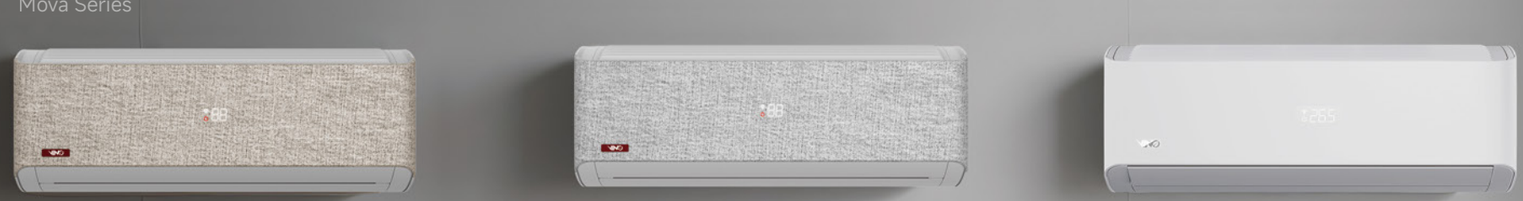
MULTI SPLIT AIR CONDITIONER

The art of Silent Climate Masterpiece

Nora Series



Mova Series



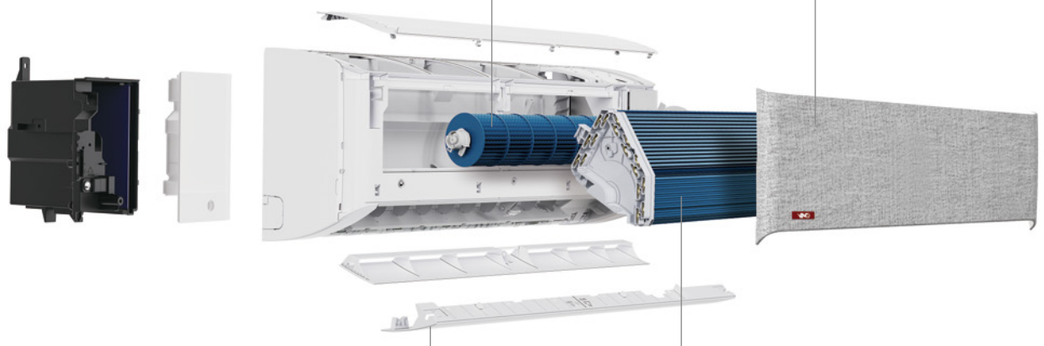
FEATURES

3D Airflow Effortless Climate Mastery

3D omni directional airflow with 700m³/h cyclonic air volume delivers high velocity airflow, accelerating cooling and heating while ensuring coverage in every corner.

Customizable Panels Living Aesthetics

Industry First Interchangeable Fabric Covers Integrating Technology with Life's Artistry Make every home a comfortable living space.



Effortless Maintenance Healthy Air

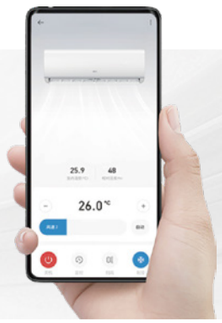
With a removable front panel and split-type base housing enabling tool-free disassembly, regular cleaning thereby ensures contaminantfree airflow for healthier indoor environments.

Indoor Unit Self-Clean & Dust Removal

One key start automatically cleans evaporator scale, defrosts, and prevents dust buildup-boosting energy efficiency and extending product lifespan.

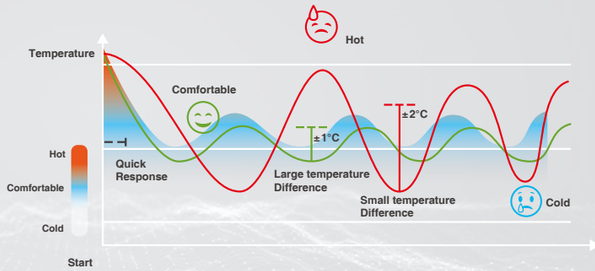
Smart Connectivity & Effortless Living

Remotely manage your air conditioner through a mobile APP, voice commands or other smart modes.
Enabling device control anytime, anywhere.



Full DC Inverter Technology

Newly upgraded Full DC Inverter Technology enables ±0.2°C precision and high energy efficiency through intelligent compressor frequency adjustment.



Rapid Cooling & Heating

Featuring a high-quality branded compressor, it a chieves rapid cooling or heating in 60 seconds for enjoy comfort room instantly.



Independent Dehumidification

Independent Dehumidification Mode actively lowers ambient humidity, preventing dampness and delivering enhanced comfort.



Energy Saving

APF up to 5.25, ECO energy-saving algorithm of low consumption.



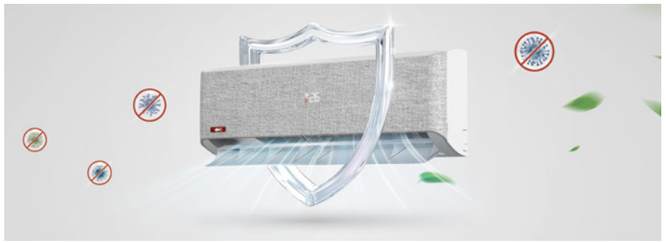
Soft-Sound Operation

With upgraded airflow design for whisper-quiet operation, enjoy restful sleep all night.



Plasma Purification

The built in generator releases positive and negative ions, achieving 99.9% sterilization to maintain pure air and healthy breathing.



SPECIFICATION

China

Type	Unit	1HP / 9K	1.5HP / 12K	2HP / 18K	3HP / 24K
Power Supply	Vac-Ph-Hz	220-1-50	220-1-50	220-1-50	220-1-50
Cooling Capacity	W	3500	3500	5100	7200
Heating Capacity	W	4200	4600	6600	8800
Air Flow	m^3/h	1800	1800	1800	2800
Sound Pressure Level (High)	dB(A)	38 (H)	38 (H)	41 (H)	42 (H)
Dimension	mm	IDU: 850 x 291 x 203 ODU: 830 x 540 x 325	IDU: 850 x 291 x 203 ODU: 830 x 540 x 325	IDU: 972 x 302 x 224 ODU: 830 x 540 x 325	IDU: 1081 x 327 x 248 ODU: 890 x 598 x 372

Europe

Type	Unit	9K	12K	18K	24K
Power Supply	Vac-Ph-Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Cooling Capacity	W	2650	3500	5300	7000
Heating Capacity	W	2850	3500	5400	7400
Air Flow	m^3/h	1280	1280	1280	2800
Sound Pressure Level (High)	dB(A)	36 (H)	36 (H)	44 (H)	45 (H)
Dimension	mm	IDU: 792 x 279 x 195 ODU: 762 x 540 x 225	IDU: 792 x 279 x 195 ODU: 762 x 540 x 225	IDU: 972 x 302 x 224 ODU: 762 x 540 x 225	IDU: 1081 x 327 x 248 ODU: 820 x 598 x 310

North America

Type	Unit	1HP / 9K	1.5HP / 12K	2HP / 18K	3HP / 24K
Power Supply	Vac-Ph-Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Cooling Capacity	W	2650	3500	5300	7000
Heating Capacity	W	2850	3500	5400	7400
Air Flow	m^3/h	1280	1280	1280	2800
Sound Pressure Level (High)	dB(A)	36 (H)	36 (H)	44 (H)	45 (H)
Dimension	mm	IDU: 850 x 291 x 203 ODU: 762 x 540 x 225	IDU: 850 x 291 x 203 ODU: 762 x 540 x 225	IDU: 972 x 302 x 224 ODU: 890 x 598 x 372	IDU: 1081 x 327 x 248 ODU: 960 x 700 x 396

Taiwan Province

Type	Unit	1HP / 9K	1.5HP / 12K	2HP / 18K	3HP / 24K
Power Supply	Vac-Ph-Hz	220-1-60	220-1-60	220-1-60	220-1-60
Cooling Capacity	W	2800	4100	5000	6600
Heating Capacity	W	3000	4300	5100	7200
Air Flow	m^3/h	1800	2800	2800	3300
Sound Pressure Level (High)	dB(A)	36 (H)	36 (H)	44 (H)	60 (H)
Dimension	mm	IDU: 850 x 291 x 203 ODU: 830 x 540 x 325	IDU: 850 x 291 x 203 ODU: 890 x 598 x 372	IDU: 972 x 302 x 224 ODU: 890 x 598 x 372	IDU: 1081 x 327 x 248 ODU: 960 x 700 x 396

Southeast Asia

Type	Unit	9K	12K	18K	24K
Power Supply	Vac-Ph-Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Cooling Capacity	W	2931	3517	5275	7093
Heating Capacity	m^3/h	1280	1320	1800	2800
Air Flow	dB(A)	36 (H)	39 (H)	44 (H)	45 (H)
Sound Pressure Level (High)	W	910 (135-1200)	1130 (190-1400)	1550 (220-2200)	1800 (470-2600)
Dimension	mm	IDU: 792 x 279 x 195 ODU: 630 x 500 x 280	IDU: 792 x 279 x 195 ODU: 762 x 540 x 225	IDU: 972 x 302 x 224 ODU: 762 x 540 x 225	IDU: 1081 x 327 x 248 ODU: 820 x 598 x 310

12K-85K Air Conditioner Outdoor Units

12K-85K air conditioner outdoor units supporting various capacities of indoor units.



1.5HP 12K | 1.8HP 15K | 2HP 17K | 3HP 25K | 4HP 34K | 5HP 42K | 10HP 85K

LOW TEMPERATURE INVERTER AIR-TO-WATER HEAT PUMP



FEATURES

Triple Supply Solution
Provides Heating, Cooling, And Domestic Hot Water, Offering A Versatile Solution

Operating Temperature
Stable Operation at -35~48°C

Independent Regulation
Water Outlet Temperature: 5~65°C
Heating IPLV(H) 3.70

Smart Control
Whole Home Connectivity with APP Control

Type	Unit	VRH018V3AUA-D	VRH021V3AUA2-D
Power Supply	Vac-Ph-Hz	220-1-50	380-3-50
Nominal Cooling Capacity (A35/W7)	kW	12.5	14.6
Nominal Heating Capacity (A12/W35)	kW	12.5	15.2
Heating Capacity (Low-Temp) (A20/W35)	kW	12	14
Refrigerant	-	R32	R32
Operating Temperature	℃	-35 ~ 48	-35 ~ 48
Sound Pressure Level	dB(A)	54	54
Dimension	mm	950 x 1350 x 396	950 x 1350 x 396

EU AIR-TO-WATER HEAT PUMP



FEATURES

One Unit, Five Applications
Individual Heating, Individual Cooling, Individual Hot Water, Heating + Hot Water, Cooling + Hot Water

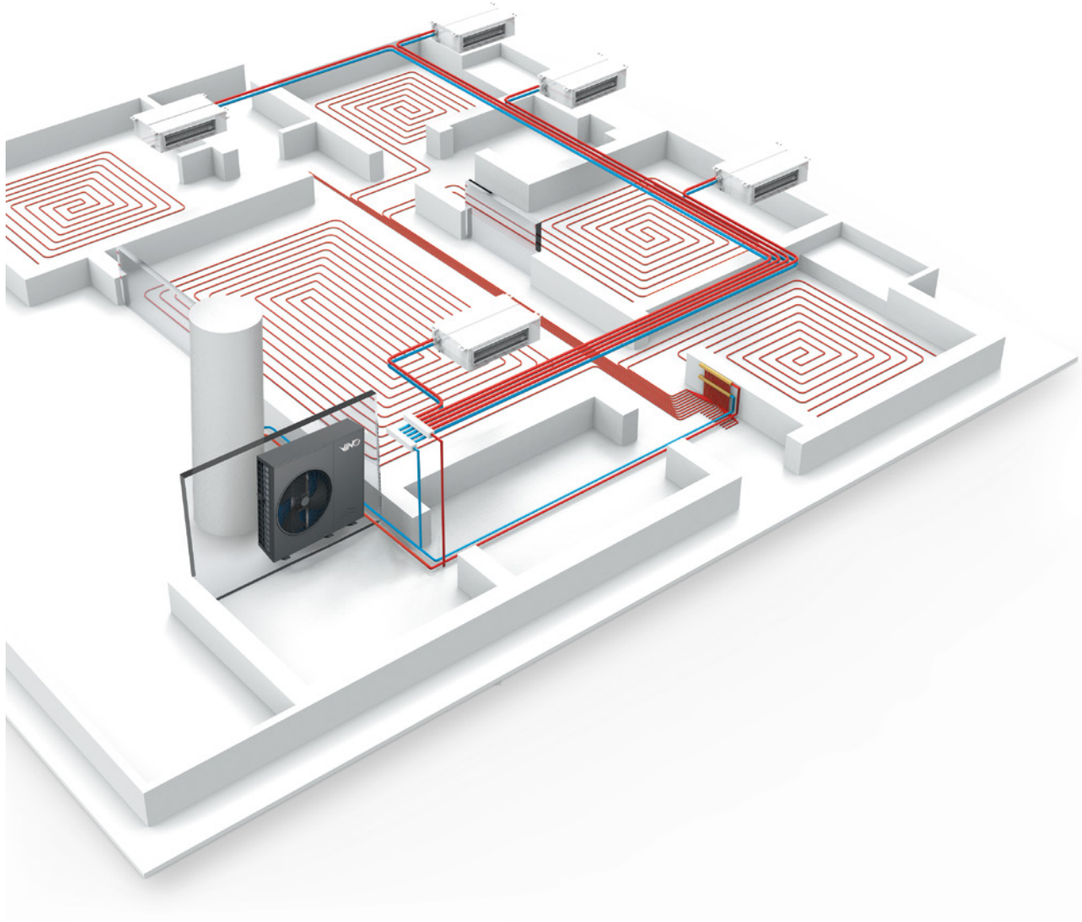
DC Inverter Technology
Inverter compressors and proprietary inverter drive, control technology for precision temperature control

Wide-Temperature Adaptation
Ambient Temp: -25~52°C
Outlet Water Temp: 5~75°C

Eco-Friendly & Energy Efficient
Featuring R290/R32 Eco Refrigerants
ERP A+++

ONE-STOP SOLUTION FOR YOUR HOME

Beyond conventional systems that our EU Air-to-Water Heat Pump integrates heating, cooling, and hot water with exceptional energy efficiency and enhanced comfort. Replacing traditional (AC + boiler + water heater) sets up, it pioneers a new era of whole-home energy conservation, comfort, health, and intelligent living.



Multiple Safety Protections

Intelligent defrosting, multiple anti-freeze protections, water flow anomaly protection, high/low pressure protection, exhaust overheat protection, current over load protection, 10+ drive system Protections, comm unication failure protection, temperature sensor fault protection, and 20+ additional safeguards comprehensively ensuring stable and reliable operation.

WIDE OPERATING TEMPERATURE RANGE



INTELLIGENT CONTROL



Compatible Hybrid Heat Source Technology

Coordinates with gas boilers and solar systems to fulfill heating and hot water demands, achieving energy saving comfort.



APP Smart Control

Enabling remote adjustment via mobile app.



IoT Remote Monitoring

If unit malfunctions, data can be transmitted for remote diagnosis, saving significant time and cost.

SPECIFICATIONS



R290 R32

R290

Type	Unit	VAW-V80A5B(U)	VAW-V100A5B(U)	VAW-V120A5B(U)	VAW-V150A5B(U)
Power Supply	Vac-Ph-Hz	220-1-50	220-1-50	220-1-50	220-1-50
Refrigerant	-	R290	R290	R290	R290
Heating Capacity (A7W35)	kW	8.1	10.0	12.0	15.0
Heating Power	kW	1.6	2.1	2.5	3.4
Capacity Cooling (A35W18)	kW	7.6	9.0	11.6	13.8
Cooling Power (A35W18)	kW	2.4	3.0	4.0	5.1
Energy Efficiency Class (35°C/55°C)	-	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Sound Pressure Level	dB(A)	60	61	65	68
Net Weight	kg	113	113	122	122
Dimension	mm	1050 x 1002 x 490	1050 x 1002 x 490	1050 x 1002 x 490	1050 x 1002 x 490

R32

Type	Unit	VAW-V80A3A(U)	VAW-V100A3A(U)	VAW-V120A3A(U)	VAW-V160A3A(U)
Power Supply	Vac-Ph-Hz	220-1-50	220-1-50	220-1-50	220-1-50
Refrigerant	-	R32	R32	R32	R32
Heating Capacity (A7W35)	kW	8.0	9.5	12.2	15.6
Heating Power	kW	1.6	2.0	2.4	3.3
Capacity Cooling (A35W18)	kW	8.0	9.5	12.0	14.6
Cooling Power (A35W18)	kW	1.54	1.98	2.61	3.55
Energy Efficiency Class (35°C/55°C)	-	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Sound Pressure Level	dB(A)	65	66	66	69
Net Weight	kg	78	78	98	98
Dimension	mm	990 x 790 x 426	990 x 790 x 426	1145 x 950 x 540	1145 x 950 x 540

SOLAR
AIR CONDITIONER



FEATURES

DC Inverter System
Inverter compressor and “SVPWM” control for enhanced efficiency.

Solar Direct-Drive Technology
Proprietary MPPT algorithm with 99.9% conversion rate.

Multiple Operation Modes
Supports cooling, heating, dehumidification, and sleep mode with low-voltage startup.

Low-Noise Operation
Ultra-Quiet 22dB(A) operation delivers silent comfort.

FEATURES

Dual source Hybrid Technology
Integrates solar and conventional grid power for stable operation even at night or on cloudy days, reducing reliance on traditional grids and cutting electricity costs.



Smart Control
Automatically switches to grid power during insufficient or fluctuating solar irradiation, while enabling remote monitoring and operation via mobile app for solar utilization tracking in time.



Intelligent Adaptation
Wide voltage range (DC 80-380V) accommodates solar and grid fluctuations. Outdoor units integrate MPPT modules with MC4 plugand-play connectors for easy maintenance. Operational in -15~52°C environments and weatherproof protection with IP66.



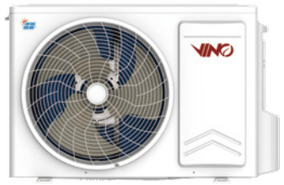
Multi Scenario Application
Solar air conditioners offer flexible design adaptable to diverse structures: homes, guard booths, factory workshops, schools, etc.



SPECIFICATION



Indoor Unit



Outdoor Unit



Remote Control

Model	Type	Power Supply	Cooling Capacity	Heating Capacity	EER	COP	Refrigerant
12K	Inverter	1-Ph-220-50/60Hz	3500W	3700W	3.95	3.96	R32
18k	Inverter	1-Ph-220-50/60Hz	5000W	5100W	3.79	3.72	R32

ULTRA THIN FAN COIL UNIT

High-Efficiency Thermal Radiation · AI-Optimized Operation



Cooling

Heating

7 Speed Fan Control

APP Smart Control

Child Lock

Smart Timer

FEATURES



Flexible Integration

Flexible integration with existing systems, easily adapts to various HVAC setups.



Smart Control

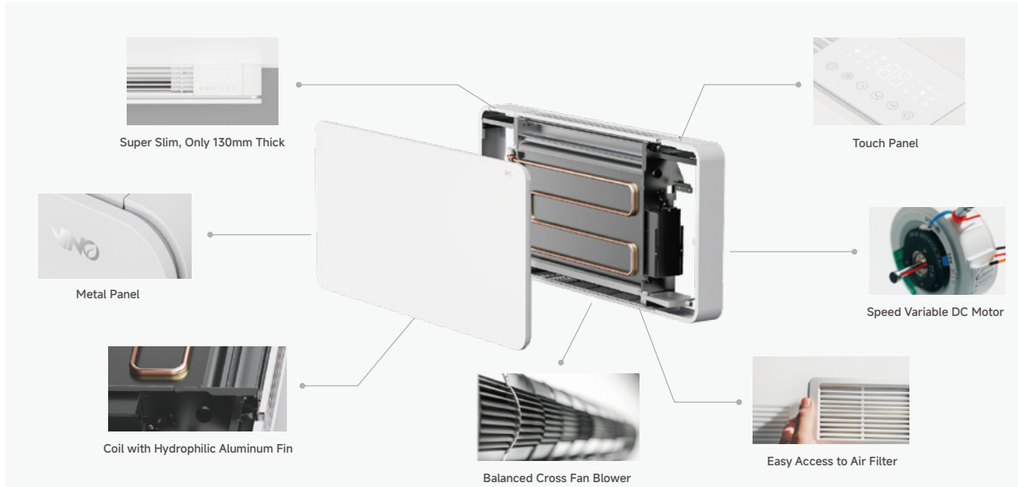
APP remote control & smart home integration.



Quiet & Comfortable

Delivers gentle airflow with noise levels below 28dB(A), ensuring ultimate comfort.

CORE COMPONENTS



Type	Unit	VWVN1-S05A3A	VWVN1-S07A3A	VWVN1-S09A3A
Power Supply	Vac-Ph-Hz	220-1-50	220-1-50	220-1-50
Cooling Capacity [1]	kW	1.4	2.15	2.75
Water Flow Rate [1]	L/h	360	480	570
Heating Capacity [2]	kW	1.55	2.40	3.35
Water Flow Rate [2]	L/h	380	520	650
Air Flow (High)	m^3/h	190	310	460
Sound Pressure Level (max airflow @1m)	dB(A)	42	44	45
Dimension	mm	850 x 130 x 580	1050 x 130 x 580	1250 x 130 x 580

NOTE: 1. Cooling Test Condition: Based on entering water temperature of 7°C with 5°C ΔT, and entering air at 27°C Dry Bulb (DB)/19°C Wet Bulb (WB)
2. Heating Test Condition: Based on entering water temperature of 50°C with 5°C ΔT, and entering air at 20°C Dry Bulb (DB)

DC INVERTER GEOTHERMAL & WATER SOURCE HEAT PUMP



FEATURES

Extended Durability
Geothermal & water source heat pump offer 35 years of service life.

High-Efficiency Operation
Plate heat exchangers deliver 3x higher efficiency than shell and tube designs.

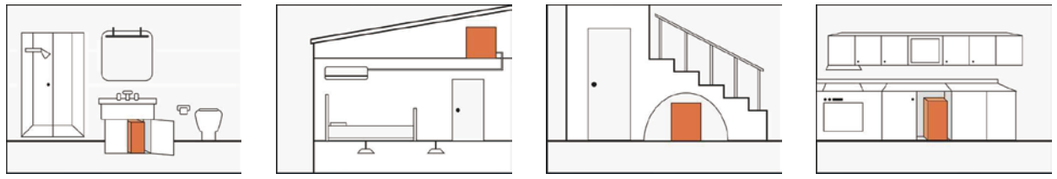
Energy Savings & Carbon Reduction
GSHPs reduce pollutant emissions by over 40% compared to air-source heat pumps.

Convenient Maintenance
Indoor unit installation enables safer and easier access for servicing.

ECOLOGICAL HEATING & COOLING SOLUTION

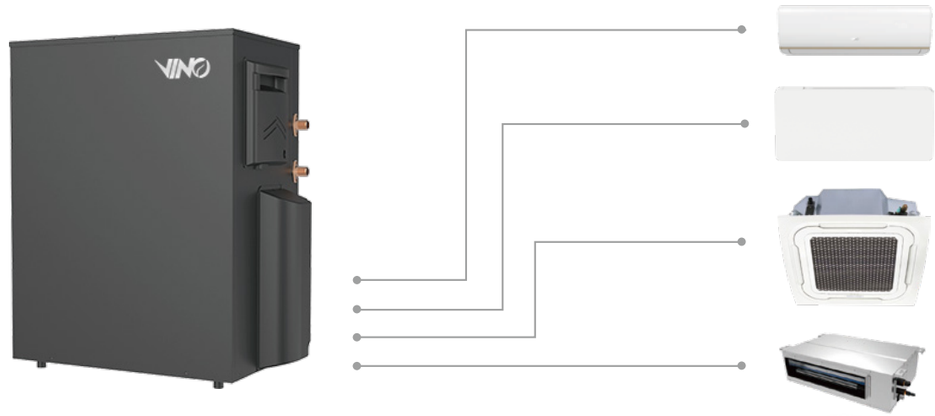
DC Inverter Ground Source & Water Source Heat Pump Systems

- Leveraging renewable thermal sources (groundwater, soil and so on) to deliver combined heating and cooling for buildings.
- Energy efficiency surpasses conventional systems: winter heating capacity reaches 350% of air source heat pumps, with 3.5x heating efficiency ensuring stable operation in extreme cold.
- Hermetic acoustic design reduces maintenance hazards by 80%.
- Saves outdoor unit footprint for flexible indoor deployment.



ADAPTIVE DEPLOYMENT

Flexible Configuration with Wall-Mounted Split Units or Fan Coil Units as Required



SPECIFICATION

Model	Outdoor Unit	Ducted Unit	Wall-Mounted Unit	Ceiling Cassette Unit
Rated Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
Rated Voltage (V)	220-240	220-240	220-240	220-240
Cooling/Heating (W)	10500	6300 / 7000	7100 / 7900	7100 / 7900
Air Flow (m^3/h)	/	1000	1090 / 930 / 630 / 560	1200
Sound Pressure Level dB(A)	42	50	38 ~ 52	42
Dimension (mm)	500 x 300 x 670	1300 x 200 x 450	1109 x 331 x 250	Frame: 840 x 840 x 230 Panel: 950 x 950 x 65

02

DEHUMIDIFIER

Multi Capacity Dehumidifiers (13-100L/D):

Meeting household and commercial demands
with fixed-speed and inverter-driven solutions,
this system delivers precise humidity control,
high capacity dehumidification and plasma purification,
enabling tranquil comfort and effortless breathing.

SMART DEHUMIDIFIER SERIES

Multiple Modes

Low-Noise Operation

Plasma Purification

Smart Control

12-Safeguard Protection

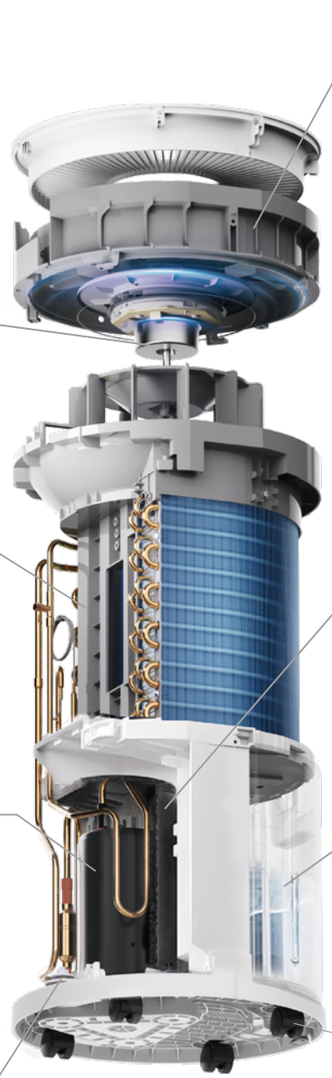
ECO-Efficient

PRODUCT FEATURES

Upgraded 8 designs for noise reduction operate steady, dehumidify in silence.

Powered By A DC Inverter Motor

It delivers robust airflow for rapid circulation, high efficiency ventilation that stays whisper quiet, ultra stable, and energy-saving for the long term.



Bionic Blade Design

Optimized geometry and materials boost airflow while cutting mechanical vibration to a minimum.

Resonance Absorbing Cushion

Absorbs and dissipates operational vibrations for whisper quiet performance.

Double-layer Acoustic Cocoon

High density twin layer soundproofing cotton intercepts high-frequency noise from the compressor and motor.

Quality Dual-rotor DC Inverter Compressor

Powered by quality twin-rotor DC inverter technology, it delivers robust, steady dehumidification with even lower noise.

Better Drainage Design

Reducing water drop height, and minimizing noise interference.

Anti-vibration Structure Design

High-elasticity damping pads embedded beneath the compressor absorb operational vibrations for rock-steady, whisper quiet performance.

Built-in Casters

The rubber coating casters allow better movement, preventing floor scratches and ensuring quieter relocation.

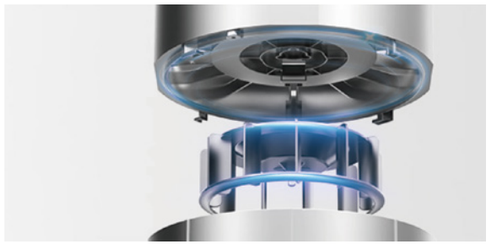
Multiple Modes

According to the requirements of different scenarios, you can freely switch between different usage modes.

Smart Mode | Sleep Mode | Dryer Mode | Custom Mode

Powerful Dehumidification

Equipped with a high quality compressor, heat exchanger, and motor, it rapidly reduces indoor humidity creating a consistently comfortable environment.



Smart Control

Touch panel, Xiaomi Home IoT integration, voice activation and 24 hour timer, make control effortless.



Plasma Purification

A built-in plasma module releases millions of positive and negative ions that cleanse the air while dehumidifying, eliminating bacteria and odors for fresher breathing.



Drying Mode

Powerful airflow accelerates evaporation, fights musty odours, and keeps fabrics drier for safer, long-lasting storage.



Two Drainage Modes

An independent front pull water tank allows easy emptying. Optional drainage pipe for 24 hours continuous operation.



360° Built-in Casters

Rubber coated casters ensure smooth movement, protect floors from scratches, and enable quieter relocation.



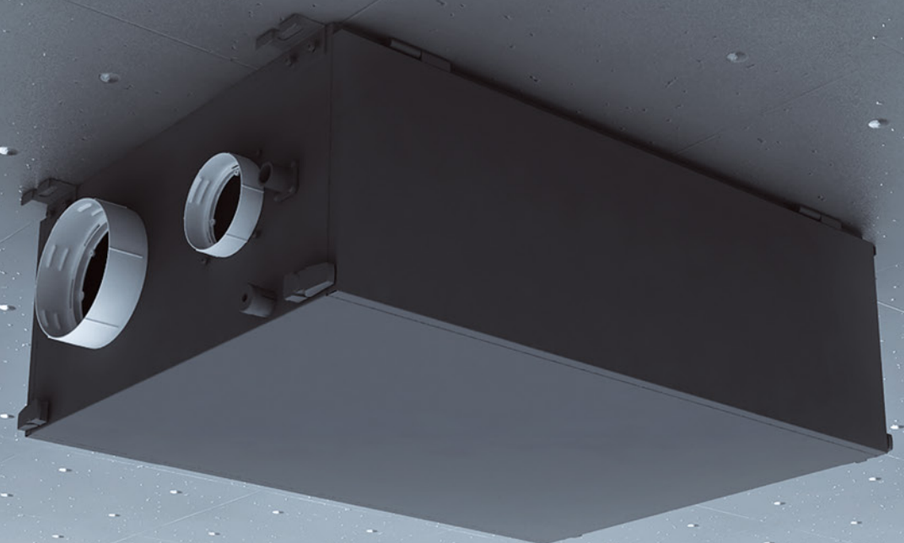
SPECIFICATION



Parameter Type	16L	16L Pro	20L	20L Pro	30L	Inverter 30L	40L	Inverter 40L
Model	VD16E-FA5A(WH)	VD16D-FA5A(WH)	VD20H-FA5A(WH)	VD20H-FA5B(WH)	VD30A-FA5A	VD30B-VA4C(WH)	VD40G-FA5A	VD40G-VA5A
Airflow	125m³/h	125m³/h	150m³/h	150m³/h	185m³/h	185m³/h	280m³/h	260m³/h
Water Tank Volume	2.1L	2.1L	3.0L	3.0L	4.5L	4.5L	6.1L	6.1L
High-Temp. Dehumidification Capacity	16L/D (30°C/80%RH)	16L/D (30°C/80%RH)	20L/D (30°C/80%RH)	20L/D (30°C/80%RH)	30L/D (30°C/80%RH)	30L/D (30°C/80%RH)	40L/D (30°C/80%RH)	40L/D (30°C/80%RH)
Nominal Dehumidification Capacity	0.39kg/h (27°C/60%RH)	0.39kg/h (27°C/60%RH)	0.48kg/h (27°C/60%RH)	0.48kg/h (27°C/60%RH)	0.75kg/h (27°C/60%RH)	0.7kg/h (27°C/60%RH)	1.0kg/h (27°C/60%RH)	1.06kg/h (27°C/60%RH)
Noise Level	32 ~ 36dB(A)	32 ~ 36dB(A)	35 ~ 39dB(A)	35 ~ 39dB(A)	38 ~ 41dB(A)	30 ~ 40dB(A)	42 ~ 44dB(A)	33.2 ~ 42dB(A)
Operation Temperature	5 ~ 35°C	5 ~ 35°C	5°C ~ 32°C	5°C ~ 32°C	5°C ~ 35°C	5°C ~ 40°C	5°C ~ 35°C	5°C ~ 40°C
Rated Voltage	220V	220V	220V	220V	220V	220V	220V	220V
Rated Power	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz
Nominal Dehumidification Power (at rated conditions)	235W	235W	300W	300W	350W	290W	460W	380W
Refrigerant	R290 / 0.045kg	R290 / 0.045kg	R290 / 0.052kg	R290 / 0.052kg	R290 / 0.11kg	R134a / 0.19kg	R290 / 0.105kg	R290 / 0.11kg
Filter Type	Anti-bacterial Filter	Anti-bacterial Filter	Anti-bacterial Filter	Anti-bacterial Filter	Anti-bacterial Filter	Anti-bacterial Filter	Anti-bacterial Filter	Anti-bacterial Filter
Purification	Plasma Sterilization	Plasma Sterilization	Plasma Sterilization Activated Carbon Filter (optional)	Plasma Sterilization Activated Carbon Filter (optional)	-	Anion Sterilization	Plasma Sterilization HEPA Filter (optional)	Plasma Sterilization HEPA Filter (optional)
Net Weight	10kg	10kg	11.2kg	11.2kg	13kg	13kg	15.9kg	14.8kg
Dimension	290 x 195 x 455mm	290 x 195 x 465mm	290 x 205 x 458mm	290 x 205 x 458mm	Φ300 x 660mm	Φ300 x 660mm	375 x 240 x 514mm	375 x 240 x 514mm
Dehumidification Mode	Smart Mode, Dryer Mode Sleep Mode, Custom Mode	Smart Mode, Dryer Mode Sleep Mode	Smart Mode, Dryer Mode Sleep Mode, Custom Mode	Smart Mode, Dryer Mode Sleep Mode, Custom Mode	Smart Mode, Dryer Mode Sleep Mode	Smart Mode, Dryer Mode Sleep Mode	Smart Mode, Dryer Mode Sleep Mode, Custom Mode	Smart Mode, Dryer Mode Sleep Mode, Custom Mode

CENTRALIZED DEHUMIDIFIER

100L/D Industrial Dehumidification for Large-Space Applications



One-Touch
Smart Mode Activation

Intelligent Defrost
Anti-Mold Drying

5-Speed Air
Purification Fresh Air

Energy Star
Certified Efficiency

IoT-Enabled Remote
Smart Control

FEATURES



Integrated Dehumidification & Fresh Air Unit

One-stop solution for seven air quality Challenges, dehumidification, pm filtration, Bacterial elimination, viral inactivation, Odor removal, formaldehyde decomposition, And oxygen enrichment.



DC Inverter Technology

Globally leading inverter system delivers 39% higher dehumidification efficiency than national standards, achieving energy-saving and ecofriendly.



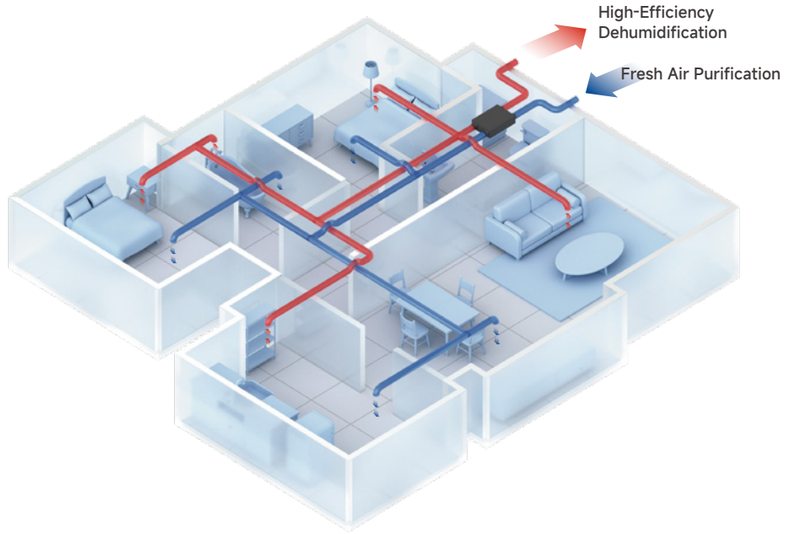
Three-Stage Progressive Filtration

Removes 99.95% of PM0.3 particles, eliminates 99% of bacteria and efficiently neutralizes indoor odors with activated carbon filtration, ensuring healthier breathing.

High Efficiency Dehumidification & Fresh Air Purification

100L/D moisture removal delivers rapid, full-space dryness.

7-in-1 Effect: dehumidification, fresh air supply, and purification in Simultaneous Operation.



SPECIFICATION

Model	Unit	VD100A-VH1A	VD90B-VH1A	VD70A-VH3A
Dehumidification Capacity (27°C/60°crh)	L/D	40	35	40
Dehumidification Capacity (30°C/80°crh)	L/D	70	65	70
Maximum Dehumidification Capacity (27°C/60crh)	L/D	70	66	/
Maximum Dehumidification Capacity (30°C/80°crh)	L/D	100	91	/
Circulation Air Volume	m^2/h	500	450	680
Applicable Environment	°C	5 - 38	5-38	5-38
Sound Pressure Level	dB(A)	39	39	39
Dimension	mm	959 x 632 x 310	983 x 678 x 240	983 x 678 x 240

03

LIGHT COMMERCIAL PRODUCTS

Technology-Driven

±1°C Precise temperature control

Applications for light Industrial & Commercial

in critical cooling scenarios

with reliable performance Guarantee

Core Solutions:

- Multi-Split Air Conditioner
- MINI-VRF Air Conditioner
- U-MATCH Air Conditioner
- Central Ducted Heat Pump



MULTI-SPLIT AIR CONDITIONER



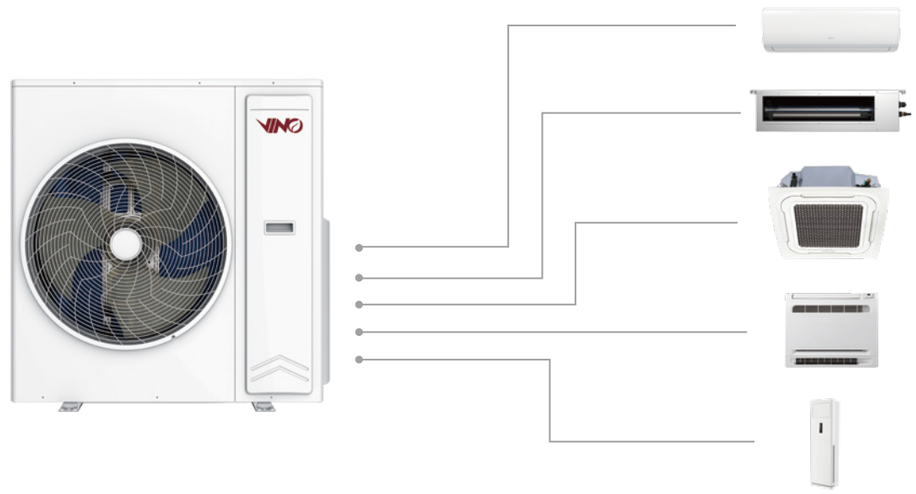
FEATURES

Multi-Split System Design
One outdoor unit drives five indoor units with broad operating range, adaptable to homes, offices, stores, and more.

High Efficiency & Saving Enegry
DC inverter compressor + intelligent drive technology adjusts speed on demand, cutting energy consumption by 40%.

Broad Operating Range
Heating at -25~30°C
Cooling at 10~54°C

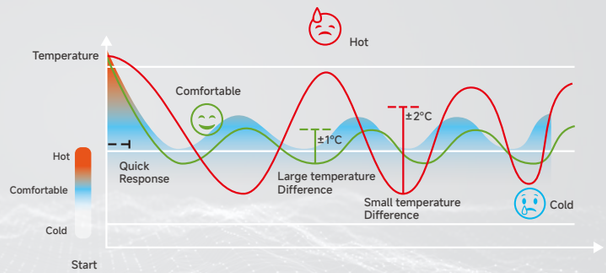
Precise Intelligent Temperature Control
Utilizes a self developed control system and an electronic expansion valve (EEV) to ensure stable temperature control and deliver flexible operation.



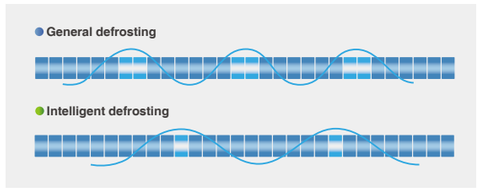
FEATURES

DC Inverter Technology

Uses inverter technology and control systems enable smooth temperature regulation with ±1°C precision.



Intelligent Defrost



Avoids unnecessary defrosting, boosting heating efficiency by 25% and reducing energy waste.

Smart Control



WiFi & APP remote control. Each indoor unit operates independently via remote, wired controller, or mobile APP.

Free Matching



Flexible indoor unit configuration offers design freedom. Maximum piping length of 75 meters accomm odates diverse spatial layouts.

Space Saving



Up to 5 indoor units to be drived by only 1 ourdoor unit, free up the area once occupied by stacks of outdoor units.

Multiple Protections



14-safeguard protection (defrost/pressure/overheat/freeze protection, etc.) ensures long-term stable operation.

SPECIFICATION

Outdoor Unit Parameters

Type	Unit	VHN2-K18A3A(O)	VHN3-K30A3A(O)	VHN4-K36A3A(O)	VHN5-K42A3A(O)
Power Supply	V / Hz	230 / 50	230 / 50	230 / 50	230 / 50
Cooling Input Power	kW	1.52	2.67	3.25	4.10
Heating Input Power	kW	1.43	2.30	2.82	3.47
Rate Cooling Input Current	A	10.20	19.52	19.52	23.51
Rate Heating Input Current	A	9.76	18.63	18.63	22.18
Cooling Capacity (Range)	kW	5.2 (1.2~5.9)	8.8 (3.2~9.2)	10.5 (3.6~10.8)	12.3 (3.8~12.6)
EER	W/W	3.42	3.30	3.23	3.00
SEER	/	6.70	6.50	6.20	6.10
Heating Capacity (Range)	kW	5.6 (1.55~6.25)	9.0 (2.0~9.7)	11.0 (2.0~ 11.5)	12.5 (2.6~13.0)
COP	W/W	3.91	3.91	3.90	3.6
SCOP (Average)	/	4.0	4.0	4.0	3.7
Energy Class (Cooling/Average/Heating)	/	A++/A+/A++	A++/A+/A++	A++/A+/A++	A++/A/A++
Sound Pressure Level	dB(A)	55	58	59	62
Max. Pipe Length/Height Diff	m/ft	10/33	20/66	25/182	25/82
Max. Allowable Pipe Length per Circuit	m/ft	20/66	70/230	70/230	75/246
Net weight/gross weight	kg	36/41	53/58	65/70	75/85
Dim. OUD Dimension	mm	890 x 372 x 598	990 x 426 x 790	990 x 426 x 790	1020 x 396 x 997
Max. Connectable Outdoor Units	Unit	2	3	4	5

Compatible Indoor Units

Type	9K	12K	18K	24K	36K
Wall-Mounted Unit	●	●	●	●	
Ducted Unit		●	●	●	
Cassette Unit		●	●	●	●
Cabinet type	●	●	●		

MINI-VRF
AIR CONDITIONER



FEATURES

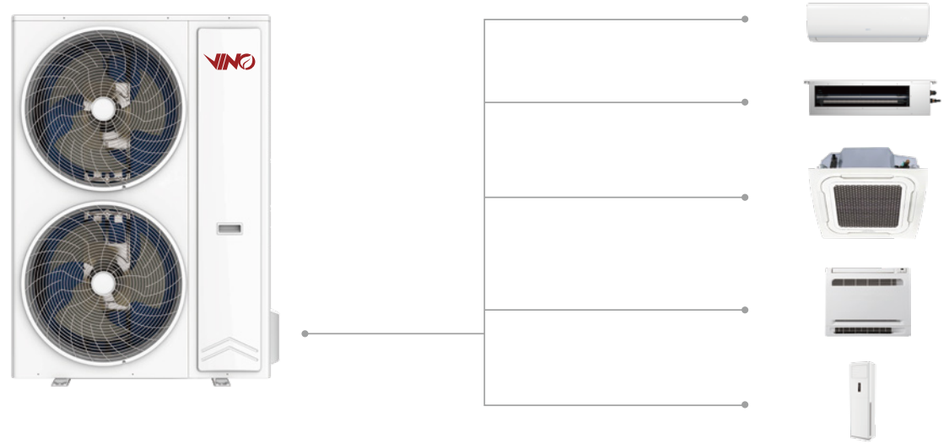
Space Saving Design

One outdoor unit drives multiple indoor units, replacing stacked traditional systems to free up valuable space.



- **Inverter Technology**
  Proprietary frequency conversion and central control system deliver peak performance for stable, comfortable room temperatures.
- **1:5 Multi Split System**
  A single outdoor unit efficiently powers multizone conditioning to meet diverse spatial demands.
- **Free Matching**
  Indoor unit combinations are suitable for different room types.
- **Independent Control**
  Each indoor unit operates autonomously enabling personalized comfort settings per zone.

COMPATIBLE INDOOR UNIT TYPES



SPECIFICATION

Type	Unit	VHNA-K90A1B(O)	VHNA-K100A1B(O)	VHNA-K120A1B(O)	VHNA-K160E1BO
Power Supply	V / Hz	220 / 50	220 / 50	220 / 50	380 / 50
Refrigerant	-	R410A	R410A	R410A	R410A
Cooling Capacity	W	9000	10000	12000	16000
Heating Capacity	W	10000	11500	14000	18000
Energy Efficiency	-	4.5 / 4.6	4.3 / 4.8	3.5 / 3.8	2.86 / 3.16
Dimension	mm	990 x 426 x 790	990 x 426 x 790	1020 x 396 x 1350	1020 x 396 x 1350



FEATURES

High Efficiency
A+++ Rated at 35°C average
A++ Rated at 55°C average

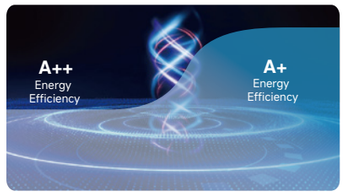
Multi Protection
Multi-safeguard system ensures stable operation.

Free Match Design
Modular indoor units adapt to various room layouts.

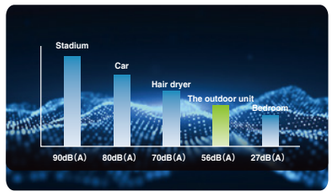
Max. Allowable Pipe Length: 75m
Long distance connectivity for versatil e scenario adaptation.

FUNCTIONS

Energy Saving
A++/A+ Energy Class
SEER 6.1 / SCOP 4.0



Low Noise Operation
Indoor unit sound pressure as low as 27dB(A).
Optimized noise-reduction structure.

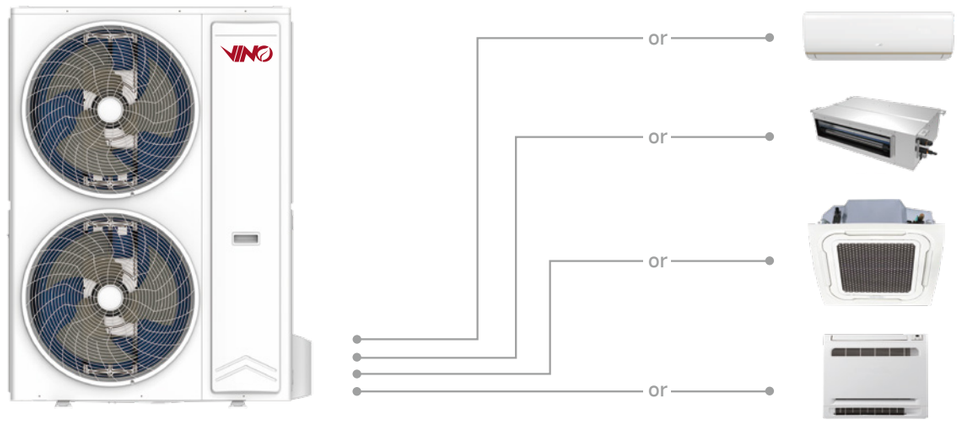


Smart Control
Wireless remote & wired controller with multi function and intuitive interface.



FLEXIBLY COMPATIBLE INDOOR UNIT TYPES

Diverse Options Perfectly Match Spatial Requirements
Flexible selection of split system, ducted, cassette, or fan coil units . Ideal for compact supermarkets, chain stores, hotels, restaurants, offices, conference rooms, and so on.



SPECIFICATION

Type	Unit	Cassete		Floor Ceiling		Ducted	
Power Supply	Vac-Ph-Hz	220-1-50	380-3-50	220-1-50	380-3-50	220-1-50	380-3-50
Max Airflow	m^3/h	850	2000	900	2200	900	2200
Cooling Capacity	W	5200	14500	5200	16000	5200	16000
Heating Capacity	W	5500	17000	5500	17000	5500	17000
Net Weigh（ODU）	kg	36	110	36	48	36	50
Dimension	mm	890 x 598 x 372	1020 x 1350 x 396	890 x 598 x 372	1020 x 1350 x 396	890 x 598 x 372	1020 x 1350 x 396

CENTRAL DUCTED HEAT PUMP

Heating: -13°F~86°F
Cooling: 50°F~129°F

SEER2 20.5
HSPF2 10.0

Silent Air Renewal
Intelligent Defrost

Multi-Safeguard
Stable Operation



FEATURES

Inverter Technology
DC inverter compressor and smart drive enable precise control, stable efficiency, and lower noise.

Smart Precision Control
Proprietary system with EEV delivers accurate heating/cooling capaci.

High Static Pressure Design
Efficient DC motor and centrifugal fan provide superior external static pressure.

Easy Installation
Supports 110Vac/208-230Vac power sources with up to 65m piping for indoor units.

Type	Unit	VUH24-VA6BA(O)(I)	VUH36-VA6BA(O)(I)	VUH48-VA6BA(O)(I)	VUH60-VA6BA(O)(I)
Cooling Capacity	W	7500 ~ 25400	10500 ~ 36400	13600 ~ 49000	16200 ~ 56000
EER2 / SEER2	(Btu/h)/W	11.7 / 20.5	11 / 19.5	11.4 / 19.5	11 / 19.0
Heating Capacity	W	7600 ~ 26000	11000 ~ 36000	14000 ~ 50000	15000 ~ 56000
HSPF2 / COP2	(Btu/h)/W	10.0 / 12.6	9.8 / 13.0	10.6 / 13.9	10.5 / 14.5
Refrigerant	-	R32	R32	R32	R32
Operating Temperature	kg	-13°F ~ 129°F	-13°F ~ 129°F	-13°F ~ 129°F	-13°F ~ 129°F
IDU/ODU Sound Pressure Level	dB(A)	34-42 / 57	38-48 / 57	41-53 / 59	46-57 / 59
Dimension	mm	IDU: 503 x 562 x 1162 ODU: 990 x 426 x 790	IDU: 503 x 562 x 1162 ODU: 990 x 426 x 790	IDU: 563 x 622 x 1352 ODU: 1024 x 396 x 1002	IDU: 563 x 622 x 1352 ODU: 1024 x 396 x 1002

04

INDUSTRIAL PRODUCTS

Specializing in customized industrial HVAC products
Delivering high performance solutions for complex application scenarios

Products:

- Inverter Modular Chiller (Heat Pump)
- Industrial Floor-standing Air Conditioner
- Semi-open Space Portable Air Conditioner
- Energy Storage Station Air Conditioner



INVERTER MODULAR CHILLER (HEAT PUMP)



FEATURES

One-Stop Solution
Heating / Cooling
Domestic Hot Water

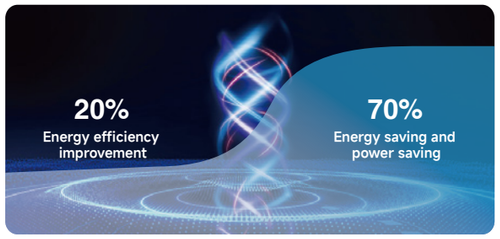
Stable Operation
Ultra-low-temperature, high-efficiency heating down to -38°C
Reliable performance even under extreme conditions.



FUNCTIONS



Ultra-High Energy Efficiency
IPLV(H) of up to 3.32, far exceeding the top-tier standard, significantly cutting operating costs.



IoT Remote Operation & Control
Supports both wired and wireless connections for flexible operation, enabling effortless management of your comfort from anywhere.



Specifications for Enhanced Version

Type	Unit	VMR103AVE1A-D	VMR160AVE1A-D	VMR205AVE1A-D
Power Supply	Vac-Ph-Hz	380-3-50	380-3-50	380-3-50
Rated Heating Capacity A7/W45°C	kW	103 (108)	145 (161)	205 (215)
Nominal Heating Capacity A-12/W41°C	kW	65	106	130
Heating Capacity at Low Temp. A-20/W41	kW	54 (61)	85 (93)	108 (122)
Operating Temperature	°C	-38 ~ 55	-30 ~ 55	-38 ~ 55
Dimension	mm	1100 x 1100 x 2230	2250 x 1200 x 2400	2400 x 1200 x 2400

Specifications for Standard Version

Type	Unit	VMR065AVE1A	VMR130AVE1A
Power Supply	Vac-Ph-Hz	380-3-50	380-3-50
Nominal Cooling Capacity A35/W7°C	kW	65	130
Rated Heating Capacity A7/W45°C	kW	66	132
Max.Input Current	A	62.5	125
Operating Temperature	°C	-20 ~ 55	-20 ~ 55
Dimension	mm	1200 x 1200 x 2120	2250 x 1200 x 2400

SEMI-OPEN SPACE PORTABLE AIR CONDITIONER



FEATURES

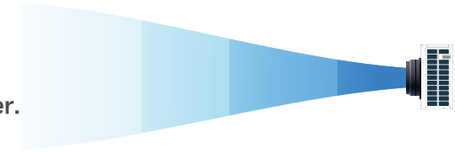
Inverter Technology
Delivers ultra-high energy efficiency with an HFP of 4.86.

Three Types of Operating
Monobloc type, split type and ducted type working designs for different environments.

Multiple Protections
Ensures the stable operation of the equipment.

Applicable for Different Scenario
Suitable for factories, stadiums, farms, and other semi-open venues, etc.

Utra-long air delivery distance of up to 30 meters, able to sense airflow at 55 meters.
Max airflow of 5000m³/h to control temperature faster.



Type	Unit	VDVN1-S140A3A
Power Supply	Vac-Ph-Hz	220-1-50
Cooling Capacity	kW	14
Heating Capacity	kW	16
Refrigerant	-	R32
Cooling / Heating Power	W	3700 / 3900
Dimension	mm	IDU: 990 x 790 x 426 ODU: 1020 x 1350 x 396



INDUSTRIAL FLOOR-STANDING AIR CONDITIONER

FEATURES

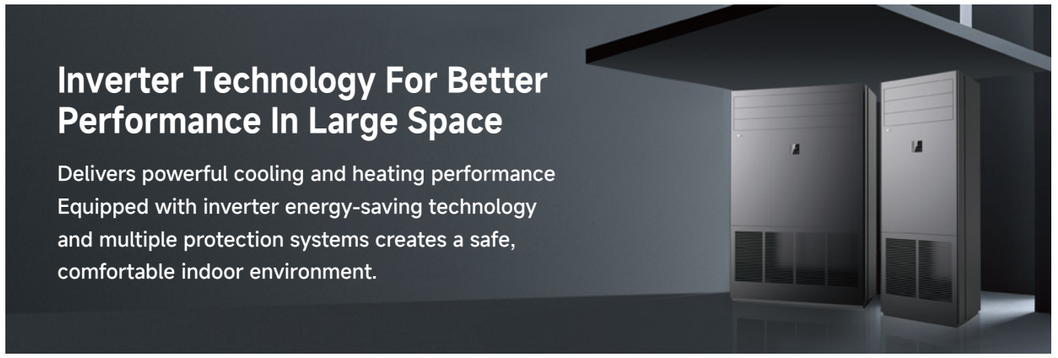
Rapid Cooling & Heating
With precise algorithms, the unit can achieve rapid cooling and heating.

Long-Distance Air Delivery
Utra-long air delivery distance of up to 20 meters.

Multiple Protections
Ensures the stable operation of the equipment.

Customization
Customize the unit according to the usage needs of different scenarios.

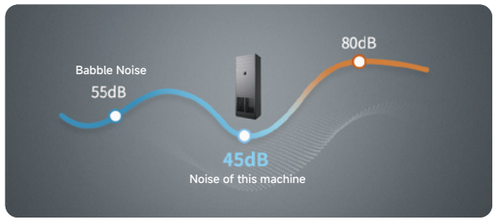
FUNCTIONS



Wide Temperature Operating
Operating range from -20°C to 55°C, satisfying the demands of different environments.



Low Noise Level
Multiple noise reduction configurations, resulting in a low operating noise level of 45dB(A).



SPECIFICATION

Type	Unit	VRH018V3AUA-D	D-280LW/V13BA1-2
Power Supply	Vac-Ph-Hz	380-3-50	380-3-50
Heating Capacity	kW	14.0 (2.6-16.0)	26.0 (5.5-28.0)
Heating Power	kW	4.1	9.3
COP	W/W	3.41	2.90
Cooling Capacity	kW	14.0 (2.9-16.0)	27.0 (4.46-28.0)
Cooling Power	kW	5.8	9.86
EER	W/W	2.41	2.64
Energy Class	-	2	2
Airflow Range	m^3/h	2000	5000
Refrigerant	-	R410A	R410A
Sound Pressure Level	dB(A)	58 / 59	66 / 69
Dimension	mm	IDU: 610 x 1900 x 390 ODU: 1020 x 997 x 396	IDU: 1220 x 1900 x 390 ODU: 1090 x 1538 x 400

ENERGY STORAGE STATION AIR CONDITIONER



FEATURES

Broad Operating Range
It operates in an ambient temperature range of -30°C to 55°C and is adaptable to various climatic conditions.

Multiple Operating Modes
Seamless switching among Auto Mode, Cooling Mode, Heating Mode, and Recirculation Mode.

All-in-One System
The cooling circuit and liquid-supply circuit are engineered as a single, unified design. Compressor units operate in mutual backup to ensure continuous system reliability.

Multiple Protections
The 18 comprehensive safety safeguards ensure the stable operation of the equipment.

SCENARIO-BASED CUSTOMIZATION SOLUTIONS

We provide modular commercial vertical built-in storage cabinets, horizontal built-in storage cabinets, overhead horizontal storage cabinets, and container-scale large vertical storage units. A wide range of installation options fully adapt to diverse thermal-management requirements across any scenario.



DC Inverter Technology

Equipped with Inverter compressor, fans, and coolant pump. Delivers high efficiency and energy savings, elevating the cooling EER of the energy-storage cabinet and maximizing electrical energy utilization.



Automatic Protection Design

It has multiple fault detection functions and automatic protection functions to ensure stable operation of the product.



Multifunctional Design

Equipped with automatic power on function, startup delay function, communication alarm function, power-off memory function, and automatic fluid replenishment function.



Satble Performance In Extreme Environments

Engineered to operate reliably under severe conditions-including extreme low and high temperatures, high-salinity fog and humidity, lightning, high altitude, and sandstorms-the unit safeguards energy-storage container security at all times.



Desert-ready: high-efficiency filtration and fully sealed, dust-tight control enclosure.



High-altitude: arc-quenching technology for electrical components.



Stable operation at 55°C ambient: multi-layer, ultra-large-area condenser design.



Energy Storage Station Air Conditioner



Stable operation down to –30°C, preventing battery-capacity degradation.



Torrential-rain proof: control electronics rated IPX6, compressor IP67.



Thunderstorm-proof: 6kV lightning protection. Coastal-grade: entire unit built to C4/C5 anti-corrosion standards.

SPECIFICATION






Type	Battery Energy Storage System Liquid & Air Cooling Solution		Standing for Containerized Energy Storage	
Model	VLU04E1A	VLU11E1A	VLU60E1L	VLU70E1L
Power Supply (Vac-Ph-Hz)	220-1-50	380-3-50	380-3-50	380-3-50
Cooling Capacity @W18/L45 (kW)	4.0	11.0	60.0	70.0
Cooling Power (kW)	2.0	5.8	30	32
EER	2.0	1.9	2.0	2.2
Heating Capacity (kW)	2	4	20	20
Water Flow (L/min)	50@90kpa	50@90kpa	500@210kpa	500@210kpa
Refrigerant	R410A	R410A	R410A	R410A
Noise Level dB(A)	70	75	85	85
Net Weight (kg)	80	150	500	520
Supply Liquid (°C)	10 ~ 35	15 ~ 35	15 ~ 35	15 ~ 35
Operation Temperature (°C)	-30 ~ 55	-30 ~ 55	-30 ~ 55	-30 ~ 55
Liquid Type	50% glycol water	50% glycol water	50% glycol water	50% glycol water
Communication Method	RS485 / CAN	RS485 / CAN	RS485 / CAN	RS485 / CAN
IP Protection	UnitIP54 (ElectricboxIP56)	UnitIP54 (ElectricboxIP56)	UnitIP54 (ElectricboxIP56)	UnitIP54 (ElectricboxIP56)
Dimension (mm)	275 x 800 x 1050	275 x 1500 x 1050	1200 x 2400 x 440	1500 x 2400 x 440

Optional:

- **Free-cooling Circuit**
  Cuts annual energy use by leveraging low-ambient conditions.
- **Dual-water-loop architecture**
  Separate, precise temperature control for batteries and PCS.
- **OTA Updates & Diagnostics**
  Firmware upgrades and fault fixes delivered remotely-no site visits required.
- **Capacity Range**
  4 kW to 70 kW to meet different needs.

SAMYOU

BEYOND EXPECTATIONS

@ SAMYOU

Harnessing technology to co-create a harmonious and comfortable environment for users worldwide