THE WORLD'S OBAIR

In the vast global innovation landscape, "Obair" shines like a brilliant star, leading the wave of technological innovation.

We are not just a company, but also advocates and practitioners of the global upgrade in quality of life.

In the world of Obair, technological innovation is not only a driving force but also the soul.

We firmly believe that "Obair" will resonate in every corner of the world, representing excellence, quality, and dreams.

We cross mountains and seas, connecting the five continents, adding a bright color to the global stage of life, becoming a synonym for beauty in the hearts of people around the world, and together writing a glorious chapter in human civilization.

The related products of Oubo have obtained the above certification,
and the specific product certification is detailed in the relevant product certification certificate

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Public Account

Note: There may be discrepancies between all product descriptions, data, and actual products in this catalog.
Please refer to the actual product. Changes will not be notified separately.

OBAIR

HJHV

Full DC Inverter Intelligent Multi-Split System

OBAIR
Central air conditioning

Version NO.: OB-202502A
Haojin Oubo Technology CO., LTD

OBAIR

Haojin Oubo
Technology CO., LTD

COMPANY PROFILE

Haojin Oubo Technology Co., Ltd. is a large-scale purification central air conditioning national high-tech enterprise integrating research and development, production, sales, and service.

Obair has always adhered to technological innovation, participated in the formulation of national and industry standards as a member unit of China's "Cold Standard Committee", and has obtained multiple invention patents and utility model patents. It has established industry-university-research bases with Nanchang University and Jiangxi University of Science and Technology. It is a key demonstration enterprise for deep integration of informatization and industrialization in Jiangxi Province, a demonstration enterprise for service-oriented manufacturing in Jiangxi Province, and the company has successively won honors such as Jiangxi Province Technology Center, Ganzhou City Industrial Design Center, Jiangxi Famous Brand Product, national green factory, and national specialized and innovative "little giant" enterprise.

Obair currently has two phases in Ganzhou, Jiangxi, using digital park management, with over 120 digital production equipment, achieving an annual production capacity of 100,000 units.

Obair currently has more than 1000 models of high-quality air conditioning products independently developed, and the products have obtained energy-saving certification, CRAA, EU CE certification, American AHRI certification and other authoritative institutions' testing and certification, widely used in hospitals, dust-free workshops, pharmaceutical factories, electronics, tobacco, painting, photovoltaic, new energy, semiconductor, laboratory and other industries, and has the industry reputation of "King of Cleanliness" and "King of Constant Temperature and Humidity Non-standard".

Obair strictly implements the ISO9001/ISO14001/ISO45001 management system, always practices the purpose of "willing to explain the price for a while, but not to apologize for the quality for a lifetime", proposes the "6-hour" on-site service concept for all customers and for all customers, and provides the most professional and high-quality technical support and after-sales service.

From the mission, born for purification!

Obair, your regret-free choice!

170,000square meters
of complete machine production base

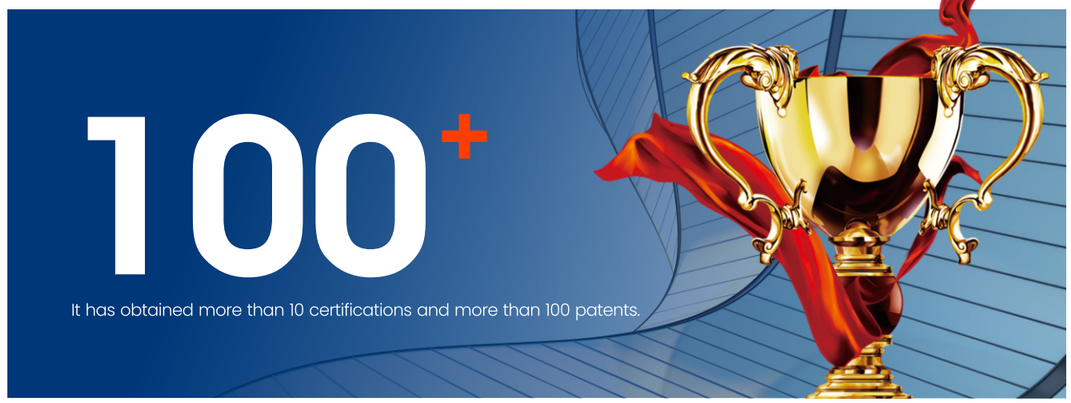
70+
National Service Contact Points

1000+
employees

100,000+
Pilot Project Air Conditioning Solutions

HONORARY QUALIFICATIONS

Advanced equipment, professional technology and strict management have created the high quality of "OBAIR" brand products.
It has successively won dozens of honors such as national high-tech enterprise, China's well-known brand, specialized and special new enterprise, cold standard committee enterprise, provincial service-oriented manufacturing demonstration enterprise, provincial enterprise technology center, Jiangxi famous brand product, etc.
"OBAIR" products are your reliable choice.



National Cold Standard Committee Member Certificate | Engineering Practice Teaching Cooperation Base | Demonstration Enterprise for Development and Upgrading | National Specialized and Innovative "Little Giant" Enterprise

National Green Factory | National High-tech Enterprise | Provincial Demonstration Enterprise for Service-oriented Manufacturing | Top Ten Economic Personalities of the Year

Jiangxi Province Famous Brand Product | Enterprise Technology Center | AHRI Certificate | TUV Certificate

HJHV | Full DC Inverter Intelligent Multi-Split System

OBAIR
Haojin Oubo
Technology CO., LTD

High-efficiency Brushless DC Motor
The motor uses a permanent magnet rotor, resulting in low vibration and low noise during operation.

Ultra-silent Operation Feature
According to user requirements, the system can be set to ultra-silent mode in the initial stage of operation, achieving ultra-low noise operation and reducing interference with the surrounding environment.

Streamlined Duct Design
The air guide ring has been specially optimized based on the characteristics of the airflow, effectively reducing the vibration caused by airflow resistance in the duct.

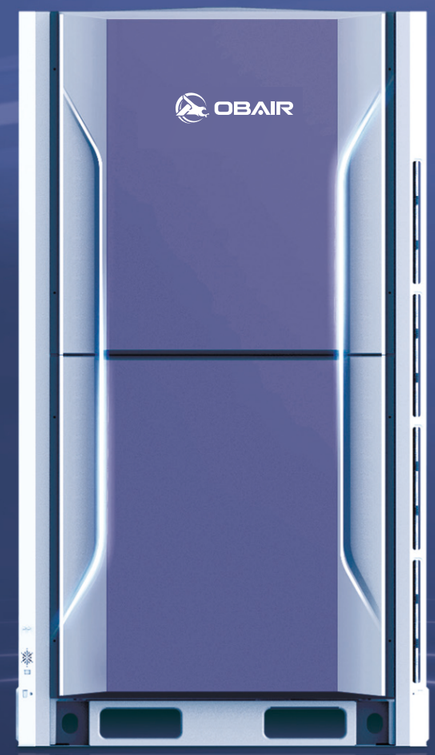
Aerospace-grade Three-dimensional Simulation Pipeline Design
Adopting the most advanced three-dimensional fluid simulation technology in the industry, the vibration-reducing design of the pipeline has been repeatedly optimized, significantly reducing the vibration frequency and amplitude.

CONTENTS

Multiple Layers of Protection — 01
Safe and Reliable — 12
Outstanding Performance — 21
Thoughtfully Designed — 37
Smart Interconnection — 51
Indoor Unit Lineup — 55
Product Specifications — 71

Technology Without Boundaries
New Favorite for Heating and Cooling

The HJHV Series can integrate the functions of central air conditioning and waterless underfloor heating into one system. The indoor unit provides powerful cooling, and the heating without electric auxiliaries is more energy-efficient. It can also be equipped with rapid-heating underfloor heating as needed. Suitable for various locations, it offers more advantages in areas with centralized heating and meets diverse requirements.



2030 Carbon Emission Peak
2060 Carbon Neutrality

Restoring Nature to A More Habitable Ecology

Multiple Layers of Protection
Comprehensively Safeguarding
Green and Environmentally Friendly Practices

With the introduction of the "2060" target, the energy-saving and carbon-reducing capabilities of air conditioners will play a significant role in the carbon peak strategy. Aobo, adhering to the group's philosophy of achieving the "Dual Carbon" goals, is taking proactive steps towards a "zero-carbon" future.

Agricultural Greenhouse

Car Air Conditioner

Heating and Cooling for Buildings

Industrial Heat use

Hot Water Supply

High-grade Energy Input

Process Drying

What is IPLV(C)?

IPLV(C) refers to the Integrated Part Load Value for Cooling, which is used to measure the part-load efficiency of multi-split air conditioning systems during the cooling season. According to the requirements of GB/T 18837-2015 "Multi-split Air Conditioning (Heat Pump) Units," the IPLV(C) is determined by testing the operating efficiency of the air conditioning units under various operating conditions (considering temperature and capacity utilization rate) and performing corresponding calculations. It reflects the operating efficiency of multi-split systems under part-load conditions.

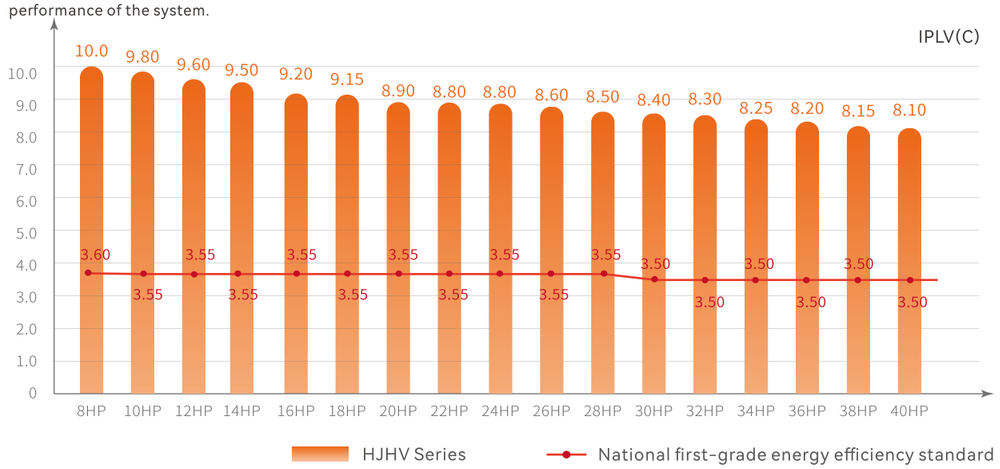
IPLV(C) is divided into five grades, with the corresponding IPLV(C) values for each energy efficiency grade as follows:

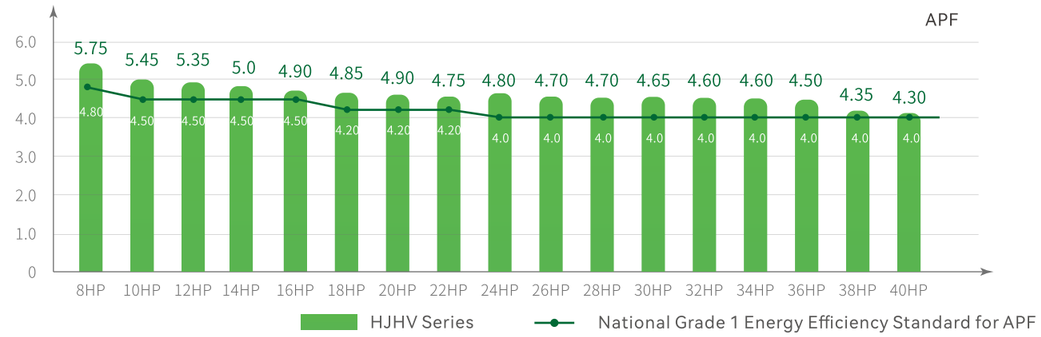
Nominal cooling capacity	Energy efficiency rating				
(CC)/W	5	4	3	2	1
CC < 28000	2.80	3.00	3.20	3.40	3.60
28000 < CC < 84000	2.75	2.95	3.15	3.35	3.55
CC > 84000	2.70	2.90	3.10	3.30	3.50

Note: The data is derived from GB 21454-2008 "Energy Efficiency Limit and Energy Efficiency Grades for Multi-split Air Conditioning (Heat Pump) Units."

The IPLV(C) value can reach as high as 10.0, which is significantly higher than the national first-grade energy efficiency standard.

The OBAIR HJHV Series, through innovations in core technologies and overall system optimization, employs high-efficiency jet-injection DC inverter compressors, high-efficiency DC motors, and high-efficiency heat exchange technologies. The comprehensive performance coefficient IPLV(C) can reach up to 10.0, surpassing the national first-grade energy efficiency level. This further enhances the overall energy-saving performance of the system.



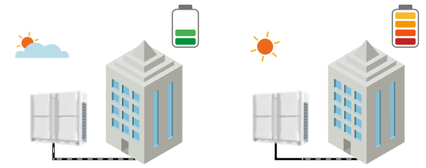


Intelligent Energy Saving, Worry-free Operation All Year Round

Due to the imbalance in power supply demand, there may be a strain on electricity usage during the summer, leading some areas to implement corresponding power rationing measures. The Aobo multi-split air conditioning units can automatically identify the operating mode of the entire system and enter an energy-saving mode to meet the power rationing requirements during periods of tight electricity supply.

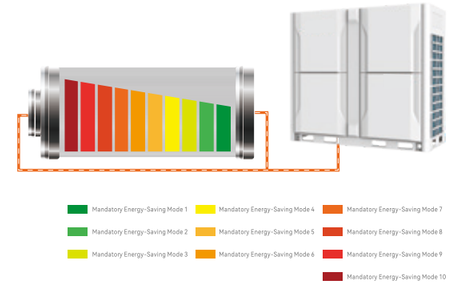
Automatic Energy-saving Mode

The system features an automatic energy-saving mode, which optimizes system output based on changes in ambient temperature to achieve automatic energy-saving control throughout the year, thereby enhancing the overall energy efficiency of the unit during its full-season operation.



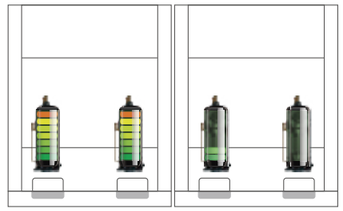
Mandatory Energy-saving Mode

Based on the actual power usage, the unit allows for the setting of a mandatory power-limiting output energy-saving mode, which can achieve 10 levels of power limitation settings, maintaining a higher level of overall unit output with less power.



Intelligent Capacity Allocation, Efficient Operation

The OBAIR HJHV Series EVI Super Inverter Multi-Split Unit control logic not only regulates the refrigerant flow based on the indoor load demand and operating status but also automatically adjusts the evaporation and condensation temperatures of the refrigerant to achieve more comfortable results. Moreover, the system is equipped with self-adaptive optimization and intelligent energy-saving control technology. This technology can adaptively match the optimal operating speeds of the compressor and outdoor unit fans with the total capacity demand of the indoor units, ensuring precise regulation of system output. This makes the entire unit operate more stably and energy-efficiently, adaptable to various environmental conditions, and provides a more comfortable indoor environment.



Conventional Multi-split Unit

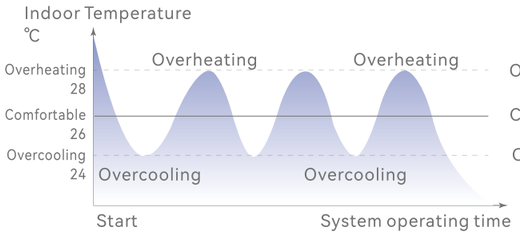
When the modular units operate in a combination of full load and low load states, the overall system losses increase, which affects the service life and leads to higher power consumption.

OBAIR HJHV Series Units

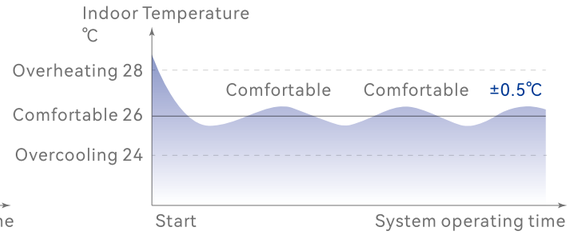
The modular units operate at partial load conditions, which results in high efficiency and energy savings.

Self-adaptive Technology for Evaporation and Condensation Temperatures

As the air conditioning system operates, the indoor temperature may fluctuate due to changes in the indoor load and the capacity of the indoor units. The new control logic, equipped with self-adaptive technology for evaporation and condensation temperatures, achieves better matching between the capacity of the indoor units and the indoor load. This reduces room temperature fluctuations and meets the requirements for human comfort.



Conventional multi-split unit



Multi-split unit with evaporation/condensation temperature adaptive technology

Temperature Differential Adjustment Technology

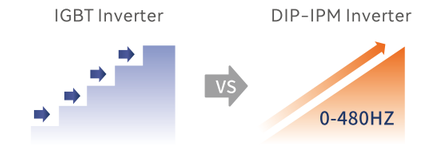
The multi-split system has a wide range of applications and needs to achieve different air conditioning effects based on actual usage requirements. It features climate-differentiated adjustment technology for evaporation and condensation temperatures. By changing the default evaporation and condensation temperatures set at the factory for the multi-split system, it can achieve differentiated air conditioning effects. This ensures precise regulation of the air conditioning system output, making the entire unit operate more stably and energy-efficiently. It adapts to various operating conditions and provides a more comfortable indoor environment.

5D Full DC Inverter, Precise Stepless Control

The 5D Full DC Inverter includes: full DC compressor, full DC indoor and outdoor unit motors, full DC water pump, full DC electronic expansion valve, and full DC electrical control.

Broad-range Stepless Frequency Variation

Adopting a wide-frequency compressor and advanced frequency conversion control technology, the compressor has sufficient wide-frequency operation capability from 0 to 480 Hz, which allows it to better cope with various complex and harsh extreme working conditions and broadens the product's range of application. The outdoor unit's DC frequency conversion compressor can continuously and freely adjust its operating speed according to the changes in system capacity, enabling precise regulation of refrigerant output.



Stepped Frequency Conversion Schematic

Stepless Frequency Conversion Schematic

DC Indoor Unit

Adopting the new-generation direct current (DC) motor drive technology, the energy efficiency is significantly improved. The unit's vibration is reduced, operational noise is lowered, and the energy-saving effect is markedly enhanced.

- DC Water Pump

  The indoor unit employs a new series of DC water pumps, which completely eliminates the operational vibration and noise associated with AC water pumps, creating a more tranquil and comfortable space.

- High-precision Electronic Expansion Valve

  The precise control of refrigerant flow features a wide range of adjustment and high accuracy, resulting in a more comfortable performance.

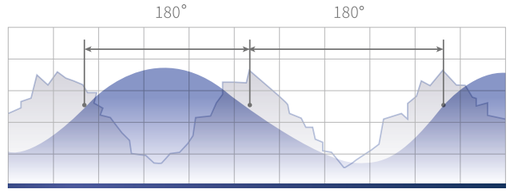
DC Water Pump

High-Precision Electronic Expansion Valve

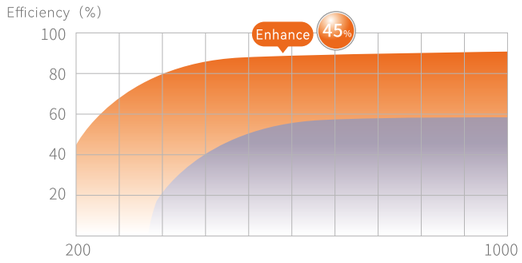
DC Brushless Motor

The outdoor unit's fan motor employs a DC motor, which significantly enhances motor efficiency. Compared to conventional AC motors, efficiency is improved by 45%, and energy consumption is substantially reduced. The fan can perform stepless speed regulation based on ambient conditions and air conditioning load, matching the compressor's stepless frequency conversion technology. This ensures high precision in regulation, maintains optimal system pressure, and achieves higher operational efficiency and stability.

Our company can achieve stepless adjustment within the range of 0 to 90 Hz, with a precision of 1 Hz.



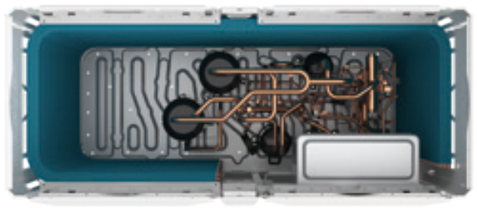
Ensuring that the output current of the DC inverter is a smooth sine wave curve, the motor operates more smoothly and its operational efficiency is significantly improved.

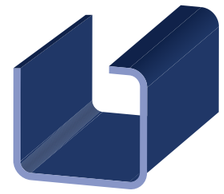


Dual Optimization of Heat Exchanger and Piping System for High-Efficiency Heat Transfer

DC Brushless Motor

The outdoor unit features a newly designed annular, one-piece, high-efficiency G-type heat exchanger with internal high teeth. This design reduces air flow resistance, enabling more uniform and thorough heat exchange. It significantly increases the heat exchange area and efficiency. Additionally, during winter heating, the reduced frost formation on the heat exchanger enhances the heating performance.



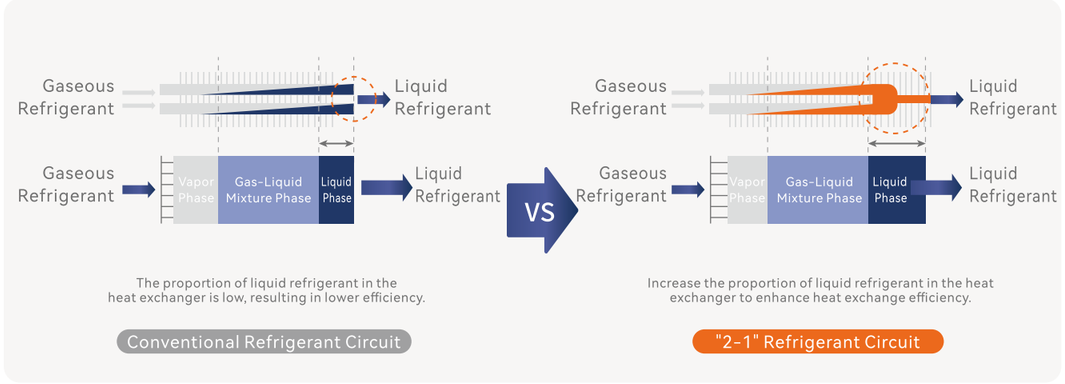


Integrated Four-Sided Heat Exchanger

Conventional Four-Sided Heat Exchanger

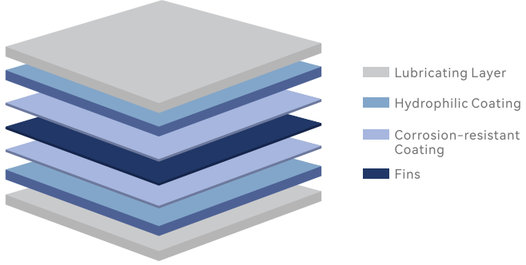
❯ “2-1” Refrigerant Circuit

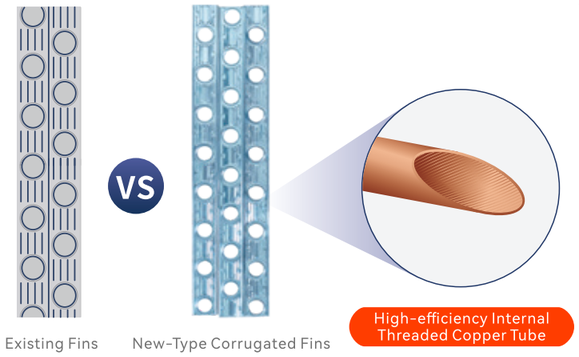
Through the specially designed “2-1” refrigerant flow process, the amount of liquid refrigerant is effectively increased, the flow resistance is reduced, and the refrigerant flow velocity is enhanced, thereby optimizing the heat exchange efficiency of the heat exchanger.



❯ Double-sided Three-layer Coating, Ensuring Long-term High-efficiency Heat Transfer of The Fins.

The corrosion-resistant coating effectively mitigates the corrosion of the heat exchanger caused by atmospheric pollution. The hydrophilic coating ensures that the air conditioner is less likely to frost up during heating. The lubricating layer can disrupt the surface tension of water droplets, accelerating the flow of condensate or defrost water, thereby enhancing the performance of the air conditioner.





❯ High-efficiency Internal Threaded Copper Tubes and New-Type Corrugated Fins

Adopting new-type corrugated fins with low pressure loss and high heat transfer efficiency, as well as spiral, slender, and high-tooth-slot high-performance Φ7 internal threaded copper tubes, the internal surface area of the copper tubes is increased, thereby enhancing their thermal conductivity. The hydrophilic corrugated fins have strong frost resistance and good water drainage properties, which improve the heating performance of the unit.

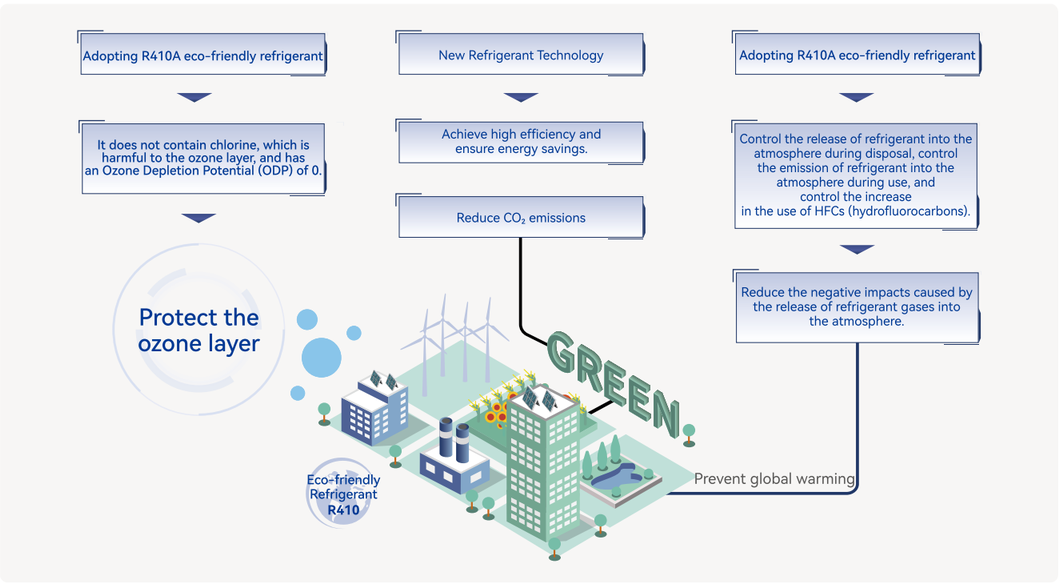
Compliant With the RoHS Directive, Environmentally Friendly and Low-carbon

The full name of the RoHS Directive is “Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment.” This directive prohibits the use of the following six hazardous substances in electrical and electronic equipment: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE). OBAIR actively responds to the RoHS Directive by implementing a series of procedures and measures to control hazardous substances. The purpose of this directive is to protect human health and ensure that the recycling and disposal of waste electrical and electronic equipment meet environmental requirements.

Hazardous Substances	Typical Detection Methods	RoHS Directive Restrictions
Cadmium（CD）	Wet chemical treatment or X-ray fluorescence	<0.01%（100ppm）
Chromium（Cr6+）	Wet chemical treatment or X-ray fluorescence	<0.1%（1000ppm）
Lead（Pb）	Wet chemical treatment or X-ray fluorescence	<0.1%（1000ppm）
Mercury（Hg）	Wet chemical treatment or X-ray fluorescence	<0.1%（1000ppm）
Polybrominated Biphenyls（PBB）	GCMS、FTTR or X-ray Fluorescence	<0.1%（1000ppm）
Polybrominated Diphenyl Ethers（PBDE）	GCMS、FTTR or X-ray Fluorescence	<0.1%（1000ppm）

R410A Eco-friendly Refrigerant, Protecting the Ozone Layer

R410A refrigerant is a globally recognized, non-toxic, eco-friendly refrigerant that is harmless to humans and has an ODP (Ozone Depletion Potential) of 0. OB's new multi-split systems use R410A refrigerant, which not only offers high efficiency and energy savings but also does not harm the Earth's environment. By delivering optimal temperature, humidity, freshness, and healthiness to every corner of the space, it provides you with a comfortable and refreshing air conditioning environment.

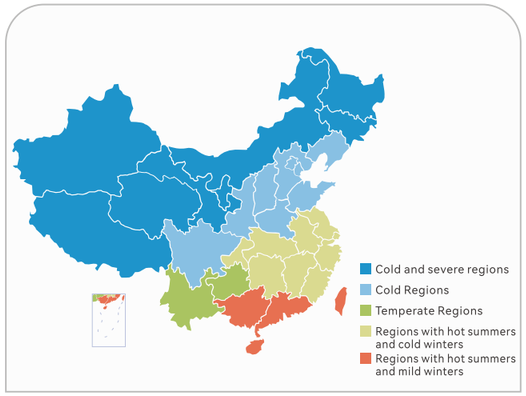


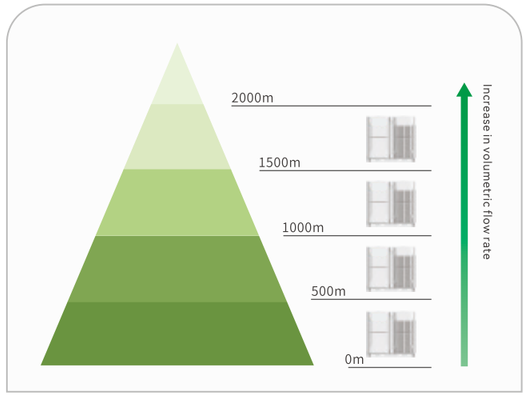
Location-based Weather Adaptive Technology

Optimize the parameters and thresholds of each component by matching the control characteristics of the unit with geographical information, climate zones, altitude, and weather conditions. This achieves optimized pre-control logic and breaks through the issue of high standby power consumption.

❯ Automatically identify the characteristics of climate zones and provide pre-control strategies, achieving a 10% improvement in energy efficiency.

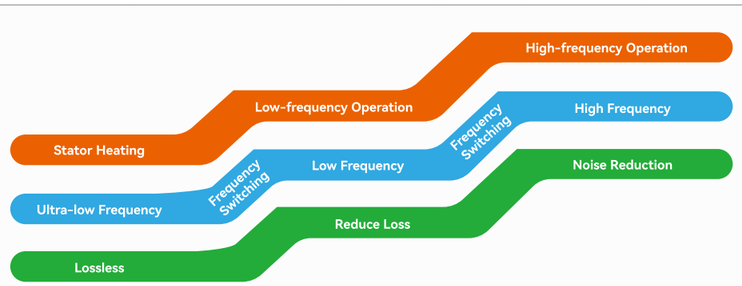
❯ Automatically identify the altitude and air pressure, perform automatic capacity compensation, and increase the heat exchange capacity by 5.8%.





Variable Frequency Control Technology

Based on the operating characteristics of the compressor, the system automatically switches the frequency. High frequency reduces noise, while low frequency reduces losses, thereby maximizing efficiency and reliability.

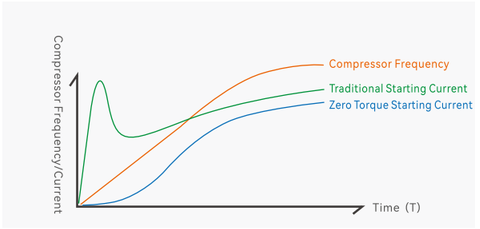


High Torque Starting Control Technology

Without the need for external balancing devices, the compressor employs torque self-feedback and adjustment control. This allows the compressor to start under high pressure differential during system operation, effectively ensuring the continuity and stability of system operation.

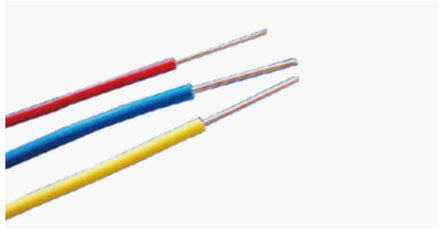
Zero Torque Starting Technology

The system is equipped with a built-in pressure balancing valve, which is opened before the compressor starts to ensure the balance between high and low pressure in the compressor. The compressor starts under zero torque conditions, with a starting current of less than 1A. This results in minimal impact on the power grid, low starting power consumption, and reduced energy consumption during startup.



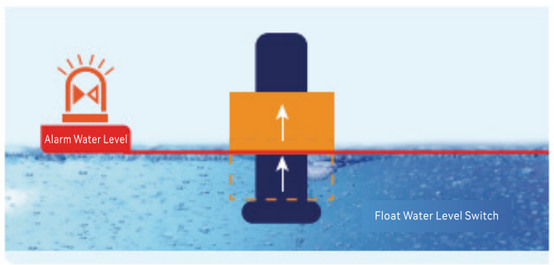
Common Busbar Technology

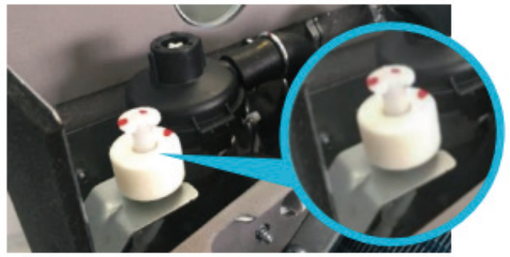
The fan and compressor can share a single set of rectification, filtering, and voltage stabilization devices. The compact structural design results in a smaller electrical box volume. Meanwhile, the standby power consumption of the entire frequency conversion control section is reduced, effectively improving the energy efficiency of the unit.



New-type float water level switch with leak prevention and early warning design

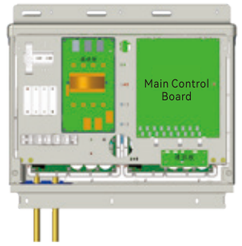
If the air conditioner's indoor unit experiences poor drainage, the float water level switch will rise with the water level in the condensate pan. When the water level reaches the warning level, the float water level switch will float up completely. At this point, the indoor unit of the air conditioner will shut down immediately, and a fault will be indicated on the air conditioner's line controller.





Power Supply Voltage Imbalance Control Technology

The inverter employs advanced power supply voltage imbalance control technology, with the fan motor and compressor using independent power supply technology. This results in simpler control connections, more stable power supply, and greater convenience for maintenance. Even in the case of poor grid quality, the inverter can operate stably, ensuring the system runs reliably.



Independent Power Supply Technology

The fan motor and compressor utilize independent power supply technology, resulting in simpler control connections, more stable power supply, and greater convenience for maintenance.

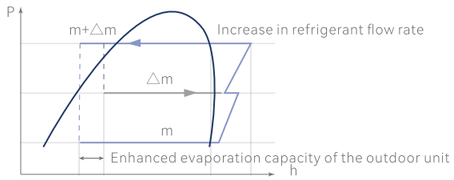
Safe and Reliable,
Ensuring Stable Operation of The Unit

With global climate warming and the increasing frequency of extreme weather events, the demand for air conditioning and heating in harsh weather conditions has become more urgent. After years of technological development and accumulation, the OBAIR multi-split R&D team has developed a new multi-split system that can be used in various scenarios. Whether it is scorching heat, freezing cold, or complex urban building environments, the system can maintain efficient operation.

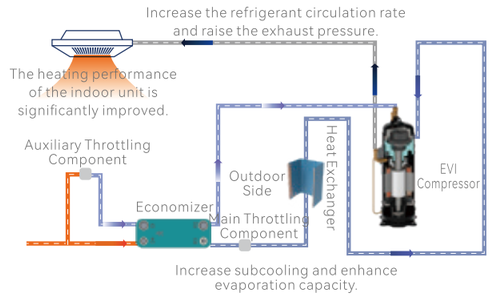
- Intelligent Oil Return
- Precise Temperature Control
- AI Smart Defrosting
- Humanized Backup Operation
- Intelligent Programming Technology
- Advanced Silent Technology
- VIP Mode
- IoT Centralized Control

EVI Dual Injection Frequency Conversion Technology

The system employs internationally renowned brand jet-injection compressors with dual injection technology for cooling and heating. Under high-temperature cooling and low-temperature heating conditions, high-precision injection valves supply superheated gas into the compressor's intermediate chamber through the intermediate gas injection pipe. This effectively improves the compressor's exhaust temperature and achieves a quasi-two-stage compression effect. As a result, the system can increase cooling capacity by 15% at high temperatures and heating capacity by 30% at low temperatures. Even in ambient temperatures as low as -30°C, the system can still provide normal heating without capacity degradation at -15°C.



Taking the heating cycle as an example, when the outdoor ambient temperature is very low, the heat exchange capacity of the outdoor unit decreases, and the amount of refrigerant gas returning to the compressor through the normal suction port is reduced. However, by injecting and supplementing refrigerant gas through the intermediate pressure suction, the compressor's exhaust volume is increased. This results in an increased amount of refrigerant circulating through the indoor unit's heat exchanger for heating, thereby enhancing the heating capacity.



*The systems of different models vary.
The above schematic diagram is for reference only.

EVI Compressor, delivering sustained power

1 New-Type Asymmetric Vortex Line

Adopting a new-type asymmetric vortex profile reduces leakage losses, minimizes ineffective overheating of the suction gas, and improves compressor efficiency.

2 Non-contact Oil Film Sealing Technology

The and axial radial directions of the compression chamber employ non-contact sealing, relying on lubricating oil to form an oil film seal. This reduces friction and enhances efficiency and reliability.

3 Enhanced Vapor Injection (EVI) Technology

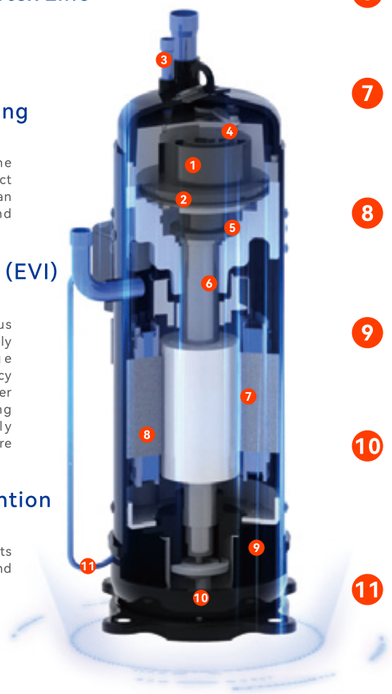
Directly injecting the required gaseous refrigerant into compressor the effectively suppresses excessive discharge temperature. Combined with DC frequency conversion control technology, this further enhances the low-temperature heating capacity and stability, significantly improving the energy efficiency of the entire unit.

4 Over-Compression Prevention Control Technology

Improves part-load energy efficiency, adapts to variable pressure ratio conditions, and enhances compressor performance.

5 Flexible Pressure Design

The intermediate pressure is dynamically adjusted according to the operating pressure, achieving axial flexibility and enhancing product performance.



6 High-Reliability Bearing Design

Adopting a bearing set comprising cylindrical bearings and self-aligning ball bearings enhances the reliability of the compressor.

7 Ultra-Wide Frequency Operation Technology

The compressor operates at a speed range of 0-160 revolutions per second (0-480 Hz), offering a broader capacity range.

8 Efficient Concentrated Winding Design

The height of the concentrated winding motor coil is reduced, resulting in lower copper losses and higher efficiency in the medium and low-speed ranges.

9 Internal Oil Circulation Structure

The lubricating oil circulates internally, reducing overheating losses, lowering oil carryover rate, and enhancing efficiency and reliability.

10 High-Reliability Gear Oil Pump Design

The positive displacement gear oil pump ensures adequate oil supply at both high and low frequencies, enhancing the reliability of the compressor.

11 New Dynamic Oil Balance Design

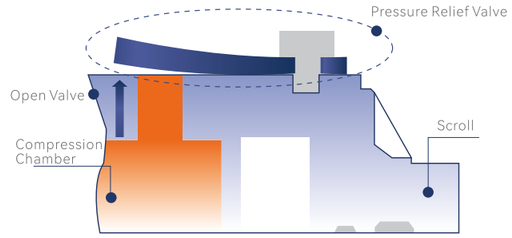
The oil balance pipe achieves dynamic oil balance for parallel compressors, ensuring the reliability of multiple compressors operating in parallel.

High-Pressure Chamber Design

The compressor suction directly enters the scroll disc, resulting in low suction superheat, high suction density, and high volumetric efficiency. The compressor has a broader operating range and better adaptability for low-temperature heating.

Overpressure Prevention and Low Pressure Loss Design

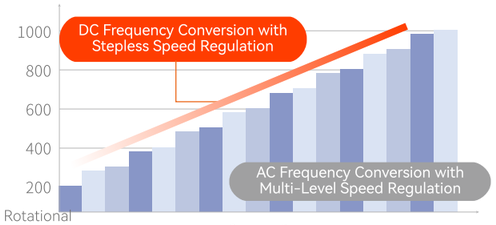
Overpressure prevention design enhances part-load energy efficiency; low pressure loss design reduces pressure drop and improves overall system efficiency.



Operating Principle Diagram

DC Brushless Motor, Achieving Higher Operational Efficiency

The outdoor unit's motor employs a DC brushless motor, which significantly enhances motor efficiency and effectively reduces the power consumption of the outdoor unit. Combined with a DC frequency conversion control board, the motor can perform precise stepless speed control according to the system's operational changes. This ensures optimal system pressure, higher operational efficiency, more stable performance, and lower noise levels.



Stator of a Brushless DC Motor with Reluctance

Rotational vibration suppression, enhanced stator rigidity, and reduced magnetic field losses.

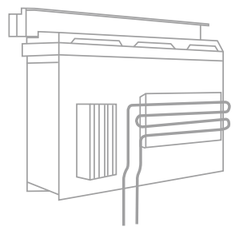
High-Efficiency NdFeB Brushless DC Motor Rotor

The magnetic force of neodymium magnets is ten times that of common ferrite magnets. Under the same strength of electromagnetic field, neodymium magnets offer greater starting torque and higher motor efficiency.

Full Refrigerant Cooling Technology, Fearless in High-Temperature Environments

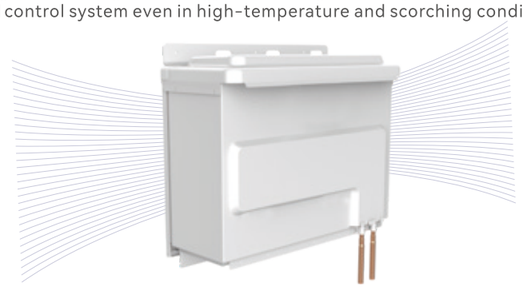
Refrigerant Cooling, Unafraid of Intense Heat

Refrigerant cooling replaces traditional air-cooled heat dissipation technology, offering more outstanding cooling capacity in high-temperature environments (partially available as a standard feature). When the outdoor unit operates, the frequency conversion module board undertakes a large amount of computation, monitoring, and command execution, generating a significant amount of heat. If the temperature of the control board abnormally rises, it can lead to a decrease in operating speed and affect system stability. By adopting full refrigerant cooling technology, the cooling efficiency of the control system is enhanced, ensuring stable operation of the electrical control system even in high-temperature and scorching conditions.



Conventional refrigerant cooling combined with air cooling

Ordinary refrigerant heat dissipation + air cooling heat dissipation, fan module high temperature when there is a high temperature limit, shutdown and so on.

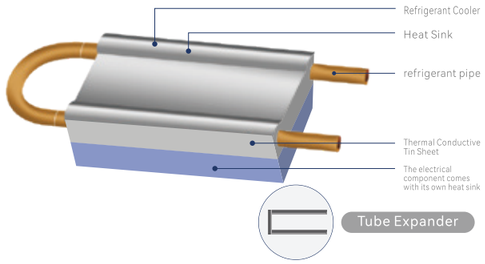


Full Refrigerant Cooling

Under a high temperature of 55℃, the system operates efficiently with strong output.

Refrigerant Cooling

The refrigerant cooling system employs high-performance thermal conductive materials to fully encapsulate and closely adhere to the refrigerant copper tubes. Lead-free tin sheets are used as thermal conductive pads. The flow of refrigerant in the cooling circuit is precisely controlled by high-precision electronic expansion valves. This design effectively dissipates heat from the frequency conversion module, achieving precise control over the surface temperature of the module. As a result, the system's ability to adapt to harsh outdoor environments is enhanced, ensuring stable operation even at extremely high outdoor temperatures of up to 55°C.



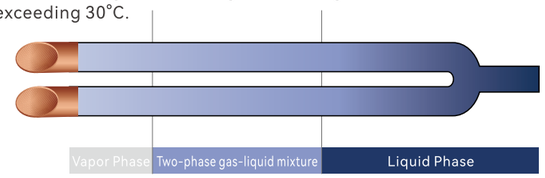
- The refrigerant cooling plate uses high thermal conductivity aluminum alloy and internal mechanical expansion tube processing methods to achieve a 360° tight fit between the copper tubes and the cooling plate, resulting in superior heat dissipation performance.
- Thermal conductive pads are added between the refrigerant cooler and the heat sink of the electrical components to enhance heat transfer efficiency. With a high thermal conductivity, these pads significantly improve the overall heat dissipation performance.

Three-stage subcooling technology, efficiently enhancing refrigeration performance

The outdoor unit's heat exchanger features a specially designed subcooling section. Compared to traditional multi-split outdoor units without a subcooling section, it can achieve three-stage subcooling. This design further reduces the refrigerant temperature, with a maximum subcooling degree exceeding 30°C.

First-stage Subcooling

Through the specially designed "2-1" process, the flow rate on the liquid phase side during refrigeration is increased, which enhances the heat exchange efficiency and increases the subcooling degree.

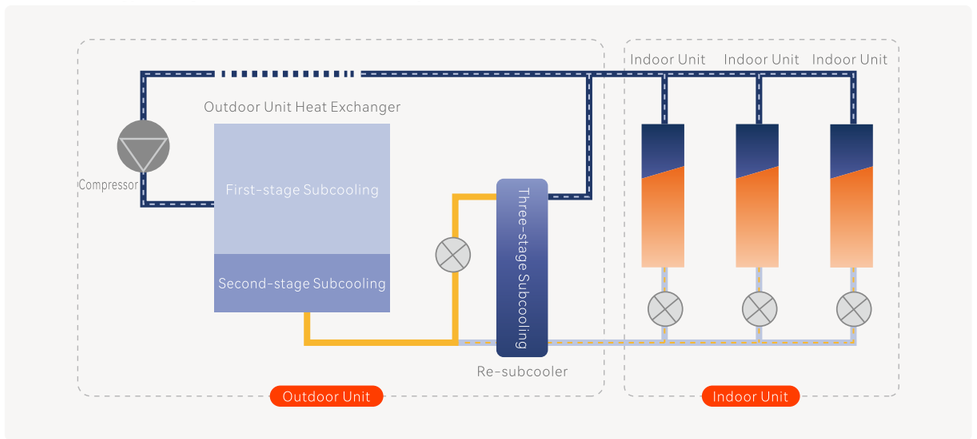


Second-stage Subcooling

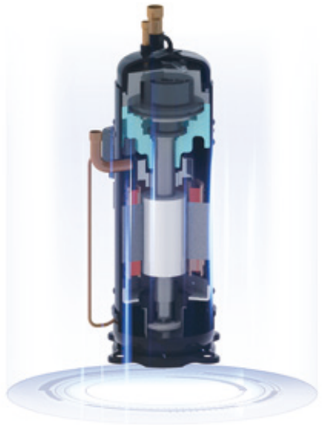
The second-stage subcooling is achieved through a uniquely designed high-flow-rate liquid refrigerant subcooling section. Due to the large refrigerant flow rate after convergence and the extremely high flow velocity, the heat exchange efficiency is significantly increased, thereby enhancing the subcooling degree.

Three-stage Subcooling

An efficient plate heat exchanger is introduced, utilizing the precise control of an electronic expansion valve to achieve bypass subcooling.
The three-stage subcooling technology can achieve a maximum subcooling degree of up to 30°C, resulting in better performance, compatibility with longer piping lengths and higher vertical drops during installation, and meeting users' needs for energy savings and installation flexibility.



Liquid hammer prevention technology ensures the normal operation of the compressor



Efficient High-capacity Gas-liquid Separator Design

The refrigerant is effectively separated into gas and liquid states, preventing a large amount of refrigerant from being directly drawn into the compressor. In addition, the system evaluates the liquid return based on parameters such as suction and discharge temperatures. The compressor, electronic expansion valve, solenoid valve, and other components are adjusted in real-time. This effectively prevents compressor liquid strike anomalies, ensuring stable and reliable operation.

Flexible Scroll Design of The Compressor

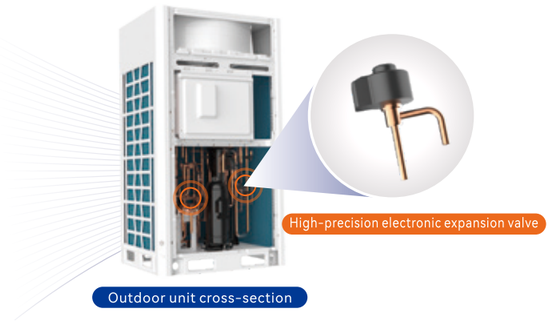
Effectively reduces friction losses and leakage losses during normal compressor operation. At the same time, it ensures that the compressor can effectively unload when abnormal pressure occurs inside, avoiding liquid compression. This significantly improves the efficiency and reliability of the compressor's operation.

Compressor Electric Preheating Technology and Check Valve Design At The Compressor Exhaust Port

Effectively prevents liquid slugging in the compressor and prevents refrigerant backflow, ensuring smooth and stable compressor operation.

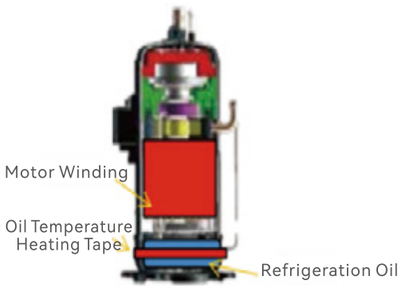
Multi-electronic expansion valve control technology, precisely regulating the refrigerant flow

The outdoor unit is equipped with multiple high-precision electronic expansion valves, which can quickly and accurately regulate the refrigerant flow of the unit. This allows it to better adapt to outdoor environmental conditions and precisely meet the changes in indoor load, resulting in minimal indoor temperature fluctuations and thereby creating a more comfortable and pleasant indoor environment.



Dual-heat-source oil temperature control technology

In standby mode, the compressor windings and external electric heating tapes can independently or simultaneously control the heating of the refrigeration oil: the heating power of the motor windings is variable; it enables rapid and safe startup under different environmental conditions; the commissioning period is reduced from 8 hours to 2 hours, thus shortening the commissioning time.

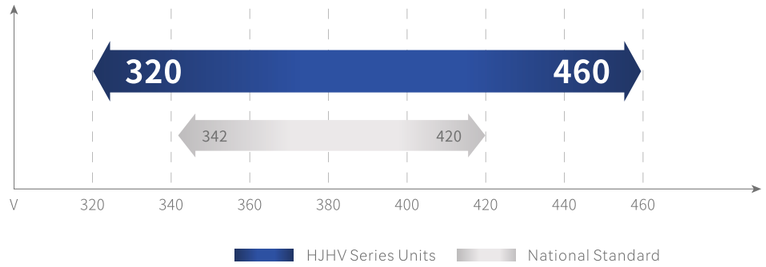


Anti-aging of the indoor unit panel

The panel is made from high-quality PVC granules and undergoes multiple processing techniques. This not only delivers a more sophisticated and premium visual effect but also achieves greater stability in usage quality and enhanced resistance to aging.

Ultra-wide Voltage Operation, Safe and Stable

The ultra-wide voltage control technology of 320V-460V far exceeds the national standards. It effortlessly handles power fluctuations and ensures safe and stable operation.



Compressor Durability Assurance

The outdoor unit's main control board actively monitors the operating current of the outdoor unit.

When abnormal reasons cause the operating current of the outdoor unit to exceed the protection limit, the unit will prohibit frequency increase or actively reduce frequency. This keeps the compressor's operating current within the normal range and prevents the compressor from being damaged due to overload.

Fast Frequency Reduction Protection

When the compressor current increases and exceeds the higher protection limit, the inverter actively implements fast frequency reduction to prevent the compressor from operating under overload.

Compressor Demagnetization Protection

The compressor demagnetization protection circuit is designed to protect the compressor. When the current peak exceeds the demagnetization protection current value, the compressor operates in a protected mode. This is used to prevent the rotor's neodymium magnets from demagnetizing and to ensure the normal operation of the compressor.

Unique Over-compression Relief Valve Design for The Fixed Scroll

When over-compression occurs, the compressor's exhaust volume is automatically adjusted to reduce compression losses. This adaptation to variable pressure ratio conditions enhances compressor performance and improves partial-load energy efficiency.

Automatic Oil Equalization System

Improves the oil storage capacity and reliability of high-speed compressors, ensuring refrigeration and heating performance while enhancing reliability.

An Exhaust Temperature Sensor is Installed in The Compressor's Exhaust Piping

When the detected temperature exceeds the preset safety range, the system can shut down to provide protection.

Automatic Detection and Phase Sequence Self-Adjustment Technology

The compressor and fan motor both use direct current (DC) motors. With the leading automatic detection and phase sequence self-adjustment design, the unit can automatically correct the phase sequence when the power supply phase sequence is incorrect, thereby achieving normal operation.

Durability Assurance of the Electrical Control System

Full Refrigerant Cooling and Heat Dissipation Technology

It can stably and efficiently remove the heat from the inverter module and the electrical control box of the outdoor unit, enhancing the electrical reliability of the unit when operating in high-temperature environments and ensuring stable and safe operation. It also prevents poor heat dissipation under extreme conditions, such as when the fan operates intermittently or stops rotating.

Professional Modular Design of Electrical Control

The design significantly reduces wiring connections, thereby enhancing reliability. The electrical control box adopts a double-layer structure with zonal control. The middle partition can be flipped for operation, eliminating the need to disassemble the control box during maintenance and improving the convenience of installation and repair. The indoor and outdoor PCB boards are made of epoxy resin composite substrates, feature double-sided printing, and use surface-mount soldering. These boards have high integration, strong weather resistance, and high reliability.

Power Cable Anti-Misconnection Technology, Effectively Protecting System Components

By using a voltage detector to monitor the voltage of the three-phase power supply and a phase sequence detector to check the phase sequence of the three-phase power, the switching devices are controlled to manage the continuity of the neutral line. This prevents situations where the phase voltage is mistakenly connected as line voltage or where the power supply lacks a neutral line, which could otherwise damage the components. This technology effectively protects the load and components, enhancing overall safety.

Automatic Repair Function

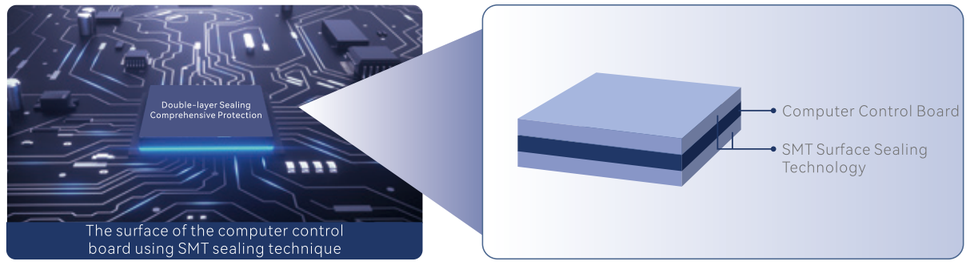
In adverse conditions that are likely to cause failures or damage to multi-split systems, such as excessively high temperature, excessive current, or abnormal refrigerant pressure (either too high or too low), the electrical control circuit features an automatic repair function. It can promptly trigger an alarm and automatically repair the circuit. This ensures that the unit operates under appropriate temperature, current, and pressure conditions, thereby increasing the unit's reliability and extending its service life.

The electrical control board uses Surface-Mount Technology (SMT) for component soldering and sealing

It effectively enhances the electrical control board's resistance to electromagnetic interference, protects it from adverse environmental conditions such as high temperature, humidity, and severe weather like sandstorms and smog, and significantly improves the board's corrosion resistance.

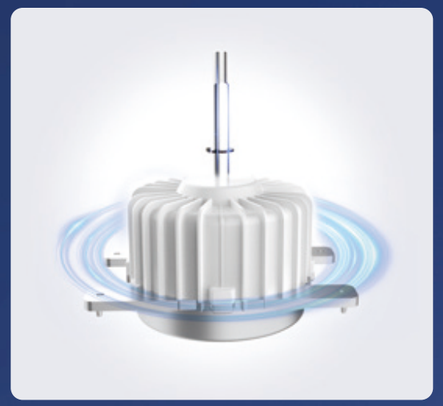
Eco-friendly Materials

The indoor and outdoor PCB boards are made of epoxy resin composite substrates, featuring double-sided printing and surface-mount soldering. They offer high integration, strong weather resistance, and high reliability.



Durability Assurance of DC Motors

- The use of DC brushless motors significantly improves motor efficiency and effectively reduces the power consumption of the outdoor unit. With stepless frequency control, the motor can perform high-precision speed regulation according to the system's operational changes, ensuring that the system pressure remains in an optimal state. This results in higher operational efficiency, more stable performance, and lower noise levels.
- The plastic-encapsulated motor, which uses plastic encapsulation technology to package the stator core and windings of the motor with engineering plastics as a whole, can eliminate the traditional stator insulation treatment process and the metal casing of ordinary motors. It is corrosion-resistant, moisture-resistant, and heat-resistant, with a broader range of applications.
- The application of multiple protections such as high-temperature protection and current protection effectively ensures the operating conditions of the motor, reduces the risk of damage, and extends its service life.



Durability Assurance of the Refrigeration System

- Intelligent Rotation Operation By means of double rotation operation technology, the running time between each outdoor unit module and between each compressor within a single module is balanced, which improves the durability of the unit and extends the service life of the air-conditioning system.

  The electronic expansion valve and liquid side bypass solenoid valve circuit are designed in parallel, double guarantee, after one part is damaged, the other part can still assist the normal operation of the system.Translated with DeepL.com (free version).
- The pressure sensor and pressure switch provide a dual safeguard. The pressure sensor accurately detects the high and low pressures during the operation of the unit, and adjusts the output of the fan and compressor to maintain the unit in a reasonable pressure state. The pressure switch detects the on-off signals to provide timely protection.
- The unit is equipped with a variety of temperature sensors, which, through advanced technology, can promptly detect the operating environment temperature, actual room temperature, and refrigerant evaporation temperature. Based the on temperature data detected, the unit can determine its operating condition to ensure smooth and safe operation.

A Variety of Protective Functions are Constantly Safeguarding the System's Operation

- Safety Grounding Protection
- Overvoltage and Undervoltage Protection
- Temperature Protection
- Current Protection
- Compressor Overload Protection
- Fan Motor Overload Protection
- Electrical Control Overheat Protection
- Pressure Protection
- Electrical Control Surge Protection
- Motor Overheat Protection
- Electromagnetic Interference (EMI) Protection
- Anti-freeze Protection

Outstanding Performance Empowers an Ultimate Comfort Experience

Comfort is an important criterion for measuring the quality of a central air conditioning system. For different application scenarios, scientific airflow organization, comfortable and pleasant temperatures, and clean and fresh air all influence the user experience. The OBAIR HJHV Series Multi-Split System, together with its diverse indoor units, offers users a quieter, more comfortable, and healthier experience, creating a high-quality environment.

EVI Compressor

High-efficiency DC Motor

G-type Four-way Heat Exchanger

Wide Frequency Operation

Full Coolant Heat Dissipation

Three-stage Subcooling Technology

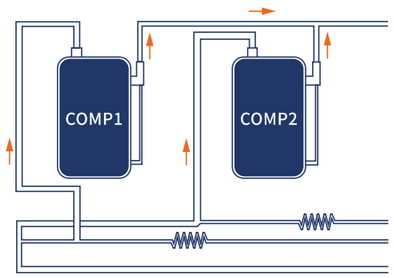
Intelligent Oil Management System

Compressor Discharge Baffle Oil-saving

The compressor features a special discharge baffle design. When the refrigerant is compressed and discharged, this mechanism can reduce the amount of lubricating oil being expelled, ensuring that most of the lubricating oil remains inside the compressor.

Compressor Oil Equalization Technology

When there are multiple compressors in the system, if it is detected that one of the compressors has an excess of lubricating oil, the surplus oil will be drained through the oil equalization pipe into the system. The refrigerant flow will then carry the lubricating oil to other compressors.



Centrifugal Oil Separator

The oil, which is discharged along with the refrigerant from the compressor, is quickly separated. The oil return efficiency is high, and it can promptly and effectively deliver the oil back to each compressor, ensuring the required oil quantity for the compressors.

Gas-Liquid Separation Lubrication and Oil Return Technology

The unique oil return port design ensures stable and efficient oil return for the compressor. The oversized capacity design allows for greater storage of refrigerant in the system and also helps to better prevent liquid slugging.

Oil Separator Cross-Flow Oil Return

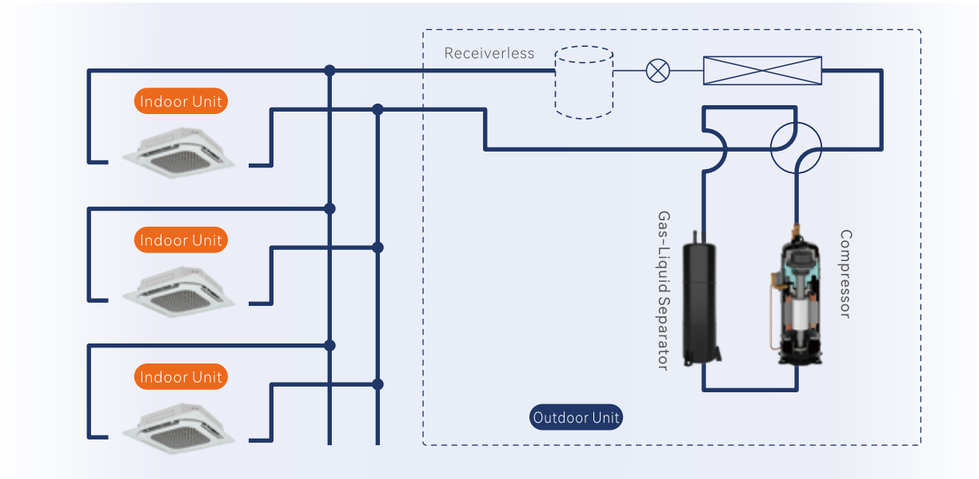
An oil separator is installed in the flow path of each compressor. The separated lubricating oil is then supplied to another compressor to prevent uneven oil distribution and ensure reliable lubrication of the compressors.

System Oil Return Technology

The system automatically sends oil return commands through the main control chip based on operating time and status, enabling automatic oil return.

Intelligent Refrigerant Management System

The unit employs three-stage subcooling technology, which significantly reduces the refrigerant charge in the system, lowering installation costs and achieving energy savings and environmental protection. Additionally, it features a system circuit design without a receiver, utilizing refrigerant piping to store excess liquid refrigerant. The advanced refrigerant piping storage technology ensures more precise control, greatly reducing system losses. As a result, the unit's operating efficiency is significantly improved, and its operation is stable and reliable.

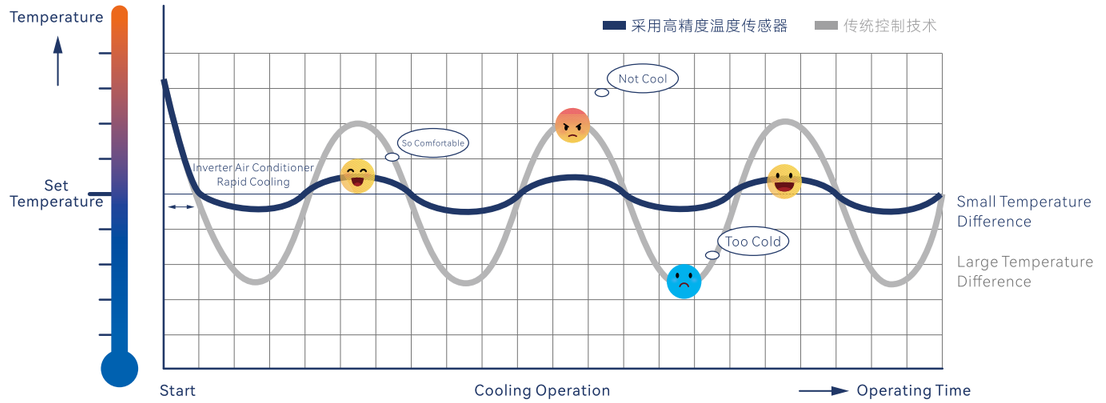


Precise Temperature Control and Comfortable Airflow Coverage

By detecting the parameters of various components in the system through a comprehensive range of sensors (including compressor discharge pressure and temperature sensors, outdoor ambient temperature sensors, return air temperature sensors, evaporator temperature sensors, etc.), the system precisely controls its operating mode. This ensures that the system always runs in the most optimal state, achieving maximum capacity output with the minimum energy consumption, thereby maximizing energy savings.

0.1°C High-Precision Temperature Sensor

Using a high-precision temperature sensor with a resolution of 0.1°C, it can detect subtle temperature fluctuations. It provides real-time monitoring of the indoor and outdoor units, adjusts the capacity output of the outdoor unit, reduces indoor temperature variations, ensures the comfort of the indoor environment, prevents significant temperature changes, and better meets human comfort requirements.

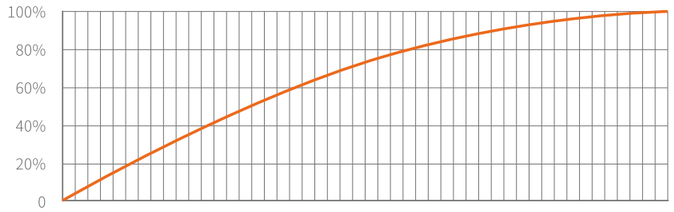


High-Precision Pressure Sensor

The high-precision pressure sensor enables rapid and accurate detection of pressure fluctuations in the refrigerant system, ensuring stable and efficient operation of the unit.

Multi-Electronic Expansion Valve Control Technology

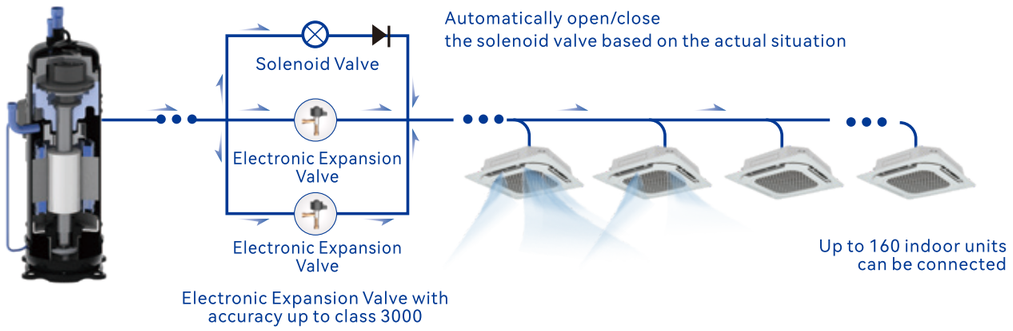
The indoor and outdoor units are equipped with multiple electronic expansion valves. A single electronic expansion valve can achieve 3,000 levels of refrigerant flow adjustment, precisely regulating the refrigerant circulation to match the actual demand of the indoor unit, thereby ensuring accurate temperature control.



Multi-Electronic Expansion Valve and Liquid Side Bypass Control Technology

Through the Multi-Electronic Expansion Valve and Liquid Side Bypass Control Technology, the refrigerant circulation volume is precisely regulated, and the compressor superheat is controlled. This maximizes the efficiency of the compressor while ensuring its safe and reliable operation.

- **Refrigerant Balance Technology:** Advanced refrigerant balance technology can ensure uniform distribution of refrigerant in the outdoor unit's heat exchanger, guaranteeing efficient and stable system operation.
- **Liquid Side Bypass Control Technology:** Through the combination of multi-electronic expansion valves and liquid-side bypass control technology, the refrigerant circulation volume is precisely regulated, and the compressor superheat is controlled. This maximizes the efficiency of the compressor while ensuring its safe and reliable operation.



Personal Comfort Sensing Function

The controller is equipped with a personal comfort sensing function, which detects the ambient temperature around the human body. This replaces the temperature detected by the indoor unit's temperature sensor, providing a temperature reading that is closer to human perception and thus offering a more comfortable experience.

Human-Sensing Intelligent Airflow

The indoor unit panel can be equipped with a human-sensing sensor to monitor the entire room. It intelligently detects and judges the status of people in the room. Based on different statuses, it automatically adjusts the room temperature and airflow volume to ensure comfortable airflow and temperature in the human activity space and on the floor.

*Use with a multifunctional controller or other wired controllers to sense the ground's dryness.
Note: The illustration is based on a four-way air outlet unit as an example.

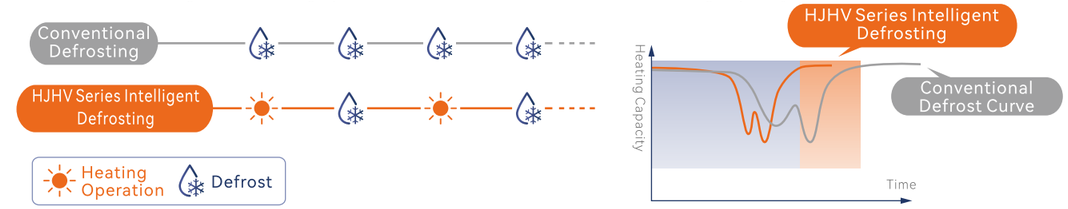
Customized Temperature Compensation

It provides settings for cooling and heating temperature compensation. Adjust the DIP switches according to the actual installation to bring an excellent comfort experience.

AI Smart Defrosting

AI Smart Defrosting Technology optimizes defrost control by enabling intelligent defrosting in multiple modes. The system precisely determines the optimal timing for defrosting based on key parameters such as temperature, pressure, and current during heating operation, as well as load variations. This ensures that defrosting occurs only when necessary—when frost is present—while maintaining normal heating when there is no frost. This approach avoids unnecessary energy losses associated with defrosting.

In high-humidity outdoor conditions and low-ambient temperature scenarios, the system can implement different mechanisms for intelligent defrosting optimization. This maximizes the unit's heating capacity and enhances indoor comfort.



Intelligent judgment effectively reduces the number of defrost cycles, extends heating time, and improves heating efficiency.

Partial Load Defrost Mechanism

Under different load conditions, the system determines whether defrosting is necessary based on specific criteria, thereby avoiding unnecessary energy losses associated with defrosting during heating.
a. When the system operates at full load, the defrost timing is accurately determined based on the change in heat exchange temperature difference of the outdoor unit.
b. During partial load, the defrost timing is accurately determined based on the change in heat exchange efficiency of the outdoor unit.

Defrost Mechanism for High Humidity Environments

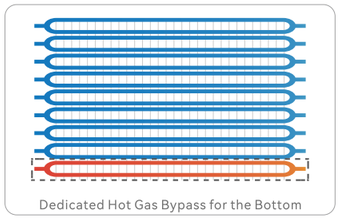
The higher the ambient humidity, the more likely the unit is to frost over. The unit can intelligently determine the external environmental humidity based on defrost data from each cycle, allowing for more accurate defrost operation and preventing unnecessary defrosting or excessive frosting.

Defrost Mechanism for Low-Temperature Environments

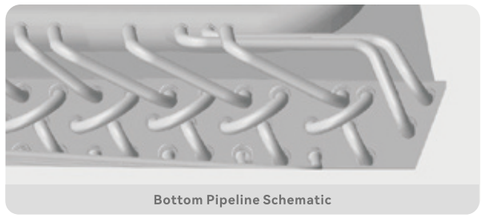
In low-temperature environments where frosting is less likely to occur, the heating time is automatically extended. When the outdoor ambient temperature is even lower, the unit will automatically correct the data detected by the ambient temperature sensor to make it more accurate, thereby ensuring more precise defrost timing.

Anti-Frost Design at the Bottom During Heating

The special anti-frost design at the bottom ensures that the outdoor heat exchanger remains frost-free during winter heating. During defrosting, the system can fully heat the ice-water mixture that flows along the fins to a liquid state, which is then drained through the bottom drain hole. This design prevents the accumulation of ice and frost at the bottom, which could otherwise lead to poor heating performance.



Dedicated Hot Gas Bypass for the Bottom

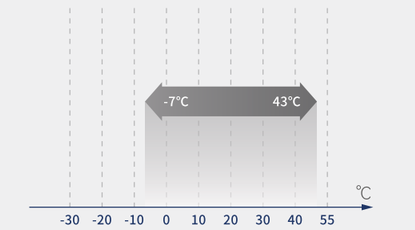


Bottom Pipeline Schematic

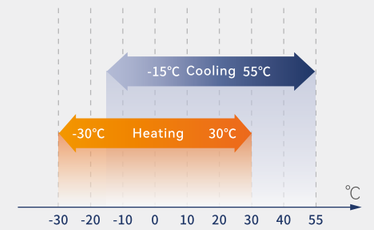
Wide Operating Range for Stronger Versatility

The new multi-split series units can operate within a wide temperature range. Heating operation can be achieved down to as low as -30℃, ensuring excellent heating performance in winter. In summer, cooling can be provided even at high ambient temperatures of up to 55℃. This flexibility allows the units to adapt to special climatic conditions and meet the personalized usage needs of users in different environments.

Cooling: -15℃-55℃; Heating: -30℃-30℃。



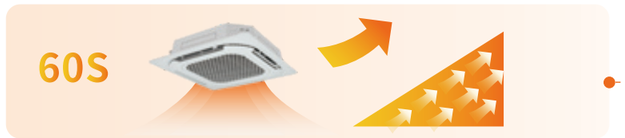
Typical Multi-Split System Operating Range



Operating Range of HJHV Series Units

60-Second Rapid Heating

By utilizing the high-capacity operation of the inverter compressor and starting the unit with a soft start, it achieves an instant high-power heating output within 60 seconds. This quickly meets the load demand of the indoor air conditioning system.



Humanized Multi-Backup Operation

Fan Backup Operation

Some basic modules are designed with dual fans. When one of the fans fails, the unit can still operate in emergency mode using the other fan, avoiding the impact of sudden shutdowns on the customer's work.

Compressor Backup Operation

The basic module is equipped with two compressors. When one of the compressors fails, the other compressor can still operate in emergency mode to meet the user's needs.

Module Backup Operation

The OBAIR multi-split system can combine up to four separate units, with each unit serving as a basic module. In the case of a multi-module combination, if one of the outdoor units fails, it can be disconnected from the system communication, allowing the remaining modules to continue operating and thereby reducing the impact of the failure.

Fan Backup

The outdoor unit features a dual-fan design. When one fan fails, the other can operate in emergency mode to avoid downtime and minimize losses for the customer.

Under normal conditions, each fan is activated and operates according to demand.

In the event of a fan failure, the system can be urgently started and operated to avoid downtime and prevent losses for the customer

Compressor Backup

Dual-compressor module, with intelligent rotation between compressors under partial load. In the event of a failure of one compressor, the other immediately takes over the operation.

During normal operation, the dual compressors intelligently distribute the load and operate in a balanced manner.

When one of the compressors fails, the other compressor operates in emergency mode to ensure uninterrupted use by the user.

Module Backup

Different modules within the same system serve as backups for each other, ensuring that the system can continue to operate even if one module fails in an emergency situation.

During normal operation, the dual modules intelligently share the load.

When one module fails, the other module automatically takes over as a backup.

Operating Status | Fault or Shutdown Status

Pressure Sensor Backup Operation

When the pressure sensor of the unit fails, the system can still read the pressure switch signal to control the unit, ensuring that the system continues to operate.

Temperature Sensor Backup Operation

When the discharge temperature sensor fails, the system intelligently judges the pressure and current signals. If the data is normal, the unit continues to operate normally, ensuring the user experience.

Oil Return Capillary Backup Operation

The system is designed with dual oil return capillaries. If one capillary becomes blocked, the other capillary can still function normally, ensuring the normal operation of the system.

Frequency Converter Backup Operation

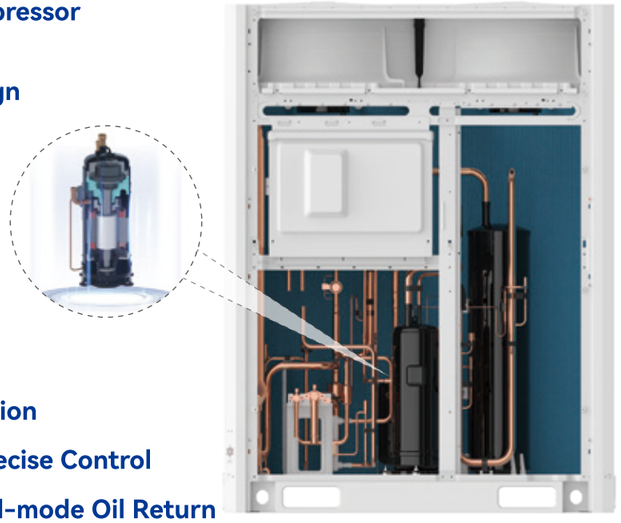
If one of the frequency converters in the outdoor unit's basic module fails, the other frequency converters can still operate in emergency mode.

Industry-leading 15-day Backup Operation

The system offers a 15-day backup operation capability. Moreover, the cloud service platform and mobile app can synchronize intelligent fault codes in real-time. The unit can send periodic alarm notifications to users to remind them to arrange for on-site service, ensuring the best possible experience.

Compressor Eight-Stage Oil Return

- First-stage Oil Return: Oil separator Inside the Compressor
- Second-stage Oil Return: Independent Oil Return Design
- Third-stage Oil Return: Cyclone Oil Separator
- Fourth-stage Oil Return: Multi-stage Oil Storage
- Fifth-stage Oil Return: No Oil Equalization Pipe
- Sixth-stage Oil Return: Equal-resistance Gas Separation
- Seventh-stage Oil Return: Precise Control
- Eighth-stage Oil Return: Dual-mode Oil Return



The industry's most advanced oil return technology, with an oil return rate of up to 99.99%.

Nine Major Noise Reduction Technologies for the Main Unit, as Low as 40 Decibels

High-Efficiency Brushless DC Motor

It uses a permanent magnet rotor, resulting in low vibration and low noise during operation.

New-Type Airflow Adaptor Grille

The airflow angle at the outlet and the grille deflection angle have been optimized for better matching, reducing air resistance and thereby lowering noise.

180° Sine Wave Vector Inverter Drive Technology

The advanced inverter control module ensures that the motor input current is a smooth sine wave current, significantly reducing motor vibration and electromagnetic noise during operation.

Super Silent Operation Function

According to user needs, the system can be set to super silent mode in the early stage of operation, achieving ultra-low noise operation and reducing interference with the surrounding environment.

Compressor Silencing Design

The design provides pressure differential oil supply and oil film lubrication technologies to reduce compressor friction. Additionally, a large silencing chamber is employed. These multiple technologies ensure low-temperature and low-noise operation of the compressor.

Streamlined Air Duct Design

The air guide ring has been specially optimized according to the characteristics of the airflow, effectively reducing the vibration caused by airflow resistance in the duct.

Swept-forward Wing Anti-vibration Axial Fan

Effectively reduces blade vibration and tip vortex generation during high-speed operation, achieving low-noise operation.

Aerospace-grade 3D Simulation of Fluid Paths

Using the most advanced 3D fluid simulation technology in the industry, the vibration-reducing design of the fluid paths has been repeatedly optimized to significantly reduce vibration frequency and amplitude.

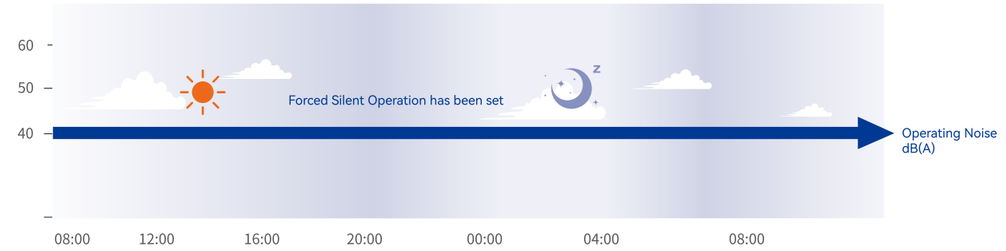
Refrigerant Flow Silencing

The refrigerant piping is specifically optimized for refrigerant flow noise, and it is equipped with high-quality brand silencers to reduce refrigerant noise.

Silencing Technology

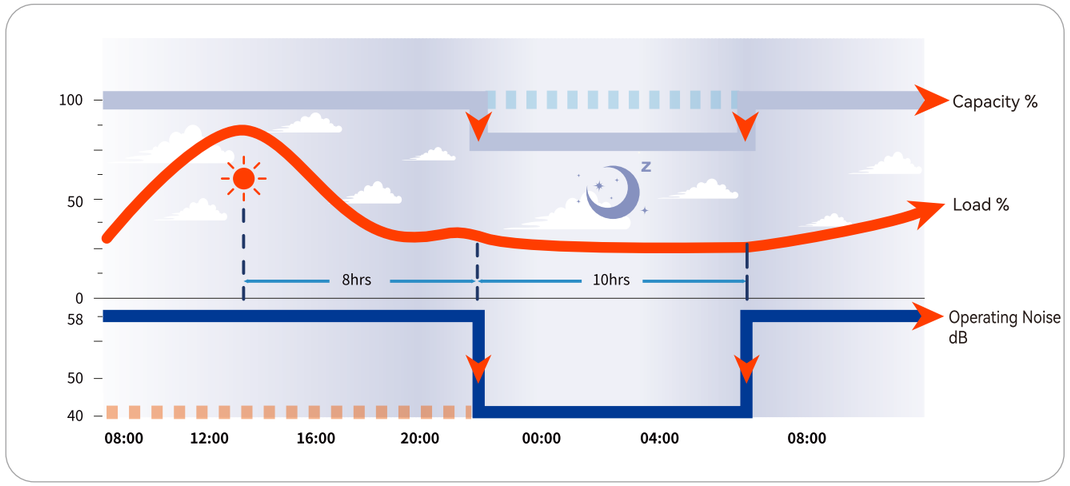
Silent Mode

When the unit is installed in locations with specific noise level requirements, silent operation is necessary both during the day and at night. The OBAIR multi-split system offers a variety of silent modes for setting, ensuring that the unit operates in low-noise mode at all times, with noise levels as low as 40 dB(A).



Nighttime Silent Mode

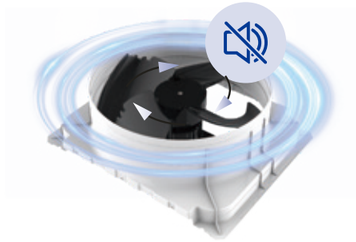
The outdoor unit has a unique nighttime operation setting function. The system can remember and determine the highest outdoor temperature. When the system enters nighttime low-load operation, it can automatically switch to silent mode. Depending on the actual application scenario, the unit can be set to four different nighttime silent modes.



Air Duct Silencing

The industry's most advanced fan and air duct technology employs aerospace-grade fluid simulation. While significantly increasing airflow, it effectively reduces noise.

Fan Blade: It features an anti-vibration blade design, made from special materials. Combined with biomimetic thin-wing design, edge-flipping design, and trailing-edge notch design, it effectively absorbs vibration and noise, resisting the vibration noise caused by air flow impact on the blades.

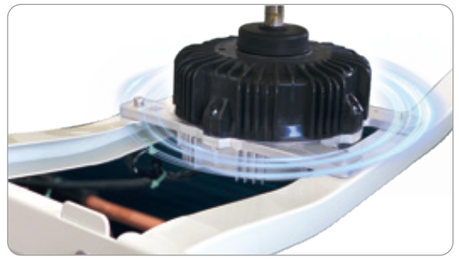


Air Guide Ring

The design employs an ultra-high stepped, gradually varying diameter fan air guide ring, which ensures a smooth transition in airflow velocity. This enhances the uniformity of the outlet airflow, increases the air delivery distance, effectively reduces airflow short-circuiting, lowers fan energy consumption, and simultaneously reduces ventilation noise. The external high ring ribs and vertical ribs of the air guide ring provide higher stiffness and bending strength, thereby effectively reducing vibration noise during fan operation. The extended design of the air guide ring also significantly improves the fan's pressure resistance and increases the air delivery distance.

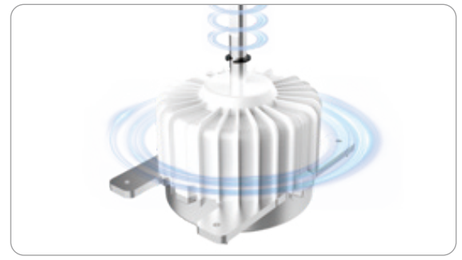
Motor Mount

The use of high-strength channel steel motor mounts, non-resonant hangers, and air guide plates ensures a robust and durable structure. This design reduces air resistance, increases airflow while lowering noise levels.



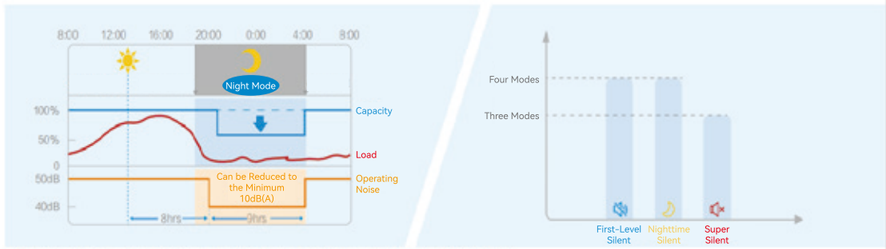
Direct Current (DC) Motor

Stepless speed control with low electromagnetic noise ensures that the system pressure is maintained at an optimal state. This results in higher operating efficiency, more stable performance, and lower noise levels.



13 Silent Modes Available, with Automatic Nighttime Silence

The unit automatically remembers the time when the peak outdoor temperature occurs. After 8 hours1, it initiates the silent operation mode, achieving a minimum noise level of 40 dB(A) and maintaining this for 9 hours2 before returning to the normal mode.



Notes:*1 The initial setting can be chosen from 6 hours, 8 hours, or 10 hours.
*2 The initial setting can be chosen from 8 hours, 9 hours, or 10 hours.

12 Major Noise Reduction Technologies

Utilizing a variety of noise reduction technologies and low-noise operating components, the vibration sources of the air conditioning system's components are studied, and the fan blades are optimized to achieve silent operation of the indoor and outdoor units.

1.New-type air guide ring design; 2.New-type outlet grille; 3.Vibration-reducing design of the motor mounting bracket;
4.Next-generation high-performance, low-noise DC inverter compressor; 5.Latest compressor soundproof hood treatment;
6.3D simulation pipeline vibration reduction design; 7.Large-diameter anti-vibration axial flow fan;
8.Refrigerant flow silencing; 9.Vibration-reducing design of the outdoor unit's casing; 10.DC inverter fan motor;
11.Capacity priority mode; 12.Nighttime silent function.

Programmable Technology

Outdoor Unit Programming

Through the main control board of the outdoor unit, you can enter the self-programming mode. Based on the environment and usage requirements, the following parameters can be set separately:

- Cooling T2B target value A;
- Heating T2 target value B;
- Energy-saving mode value C;
- Refrigerant auto-charging function;
- Maximum defrost cycle duration;
- Defrost exit temperature T3 value;
- Allowed indoor unit disconnection time;
- Allowed number of indoor unit disconnections.

Indoor Unit Programming

Through the indoor unit wired controller, you can enter the self-programming mode. Based on usage requirements, the following parameters can be set separately:

- Indoor unit address; Indoor unit capacity; Cooling compensation temperature; Heating compensation temperature; Power failure memory (enabled or disabled); Anti-cold wind temperature; Static pressure selection; Airflow speed selection.

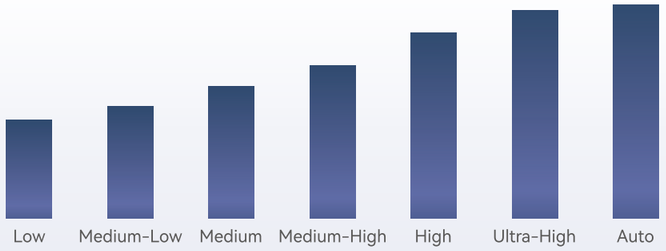
DIP Switch Setting

Multi-split all-DC inverter units offer a variety of setting modes to adapt to different environments and usage conditions.

- Automatic Priority Mode, Heating Priority Mode, Cooling Priority Mode, Heating-Only Mode, Cooling-Only Mode, VIP Priority Mode/Automatic Priority Mode
- Standard Static Pressure Mode, Low Static Pressure Mode, Medium Static Pressure Mode, High Static Pressure Mode, Ultra-High Static Pressure Mode
- Normal Silent Mode, High Silent Mode, Ultra-High Silent Mode

Programmable Technology

7 Fan Speed Settings (Ultra-High, High, Medium-High, Medium, Medium-Low, Low, Auto), easily meeting the needs of different customers.



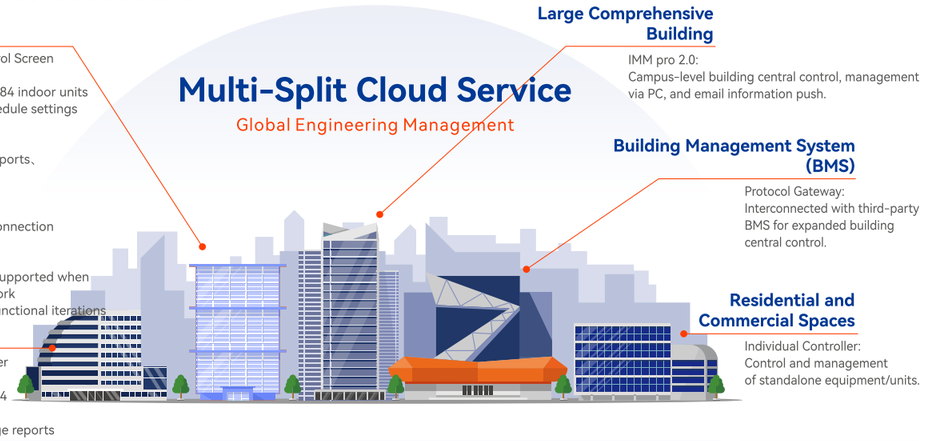
Remote IoT Central Control System

Forming a Strong Alliance With Communication Service Providers

Achieving global positioning and information transmission of the unit, providing real-time feedback on the unit's operating status, predicting unit failures in advance, monitoring energy consumption, and optimizing operating modes.

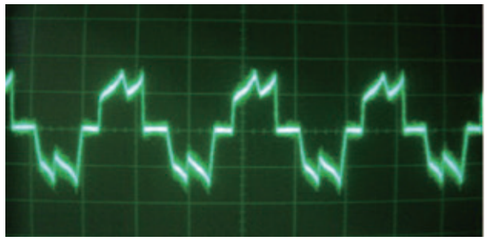
Through the Multi-Split Cloud Service Platform

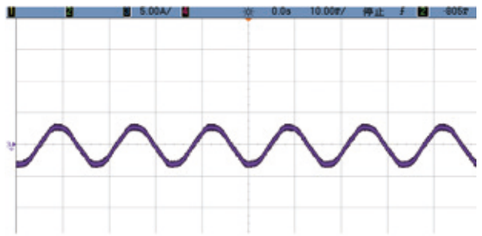
You can understand the operating status of the unit in various scenarios such as offices, buildings, and shops anytime and anywhere. Remote control of the equipment for centralized management is possible, along with a one-click energy-saving strategy to achieve energy efficiency. Real-time monitoring of the equipment's operating status is provided, and in the event of a fault, real-time SMS alerts are sent.



High Back-EMF Self-Detection Position Control Technology

The fan motor employs high back-EMF position detection technology, eliminating the need for external position sensors. The inverter outputs a smooth current sine wave, resulting in fewer harmonics and a significant increase in efficiency.





VIP Mode

Based on the importance of the room, the air conditioner can be set to different priority levels. A high-priority VIP mode can be set, so that when the system output is limited, the needs of the VIP indoor unit are prioritized.

Cooling-Only

Indoor units set to cooling or ventilation operate normally, while those set to heating display a mode conflict.

Heating-Only

Indoor units set to heating operate normally, while those set to cooling or ventilation display a mode conflict.

Cooling Priority

Indoor units set to heating will stop operating, with the operation panel displaying "Non-Priority" or "On Standby." Indoor units that are normally operating in cooling mode will continue to function as usual.

Heating Priority

Indoor units operating in cooling or ventilation mode will stop, with the operation panel displaying "Non-Priority" or "On Standby." Indoor units that are operating in heating mode will continue to function normally.

VIP Priority

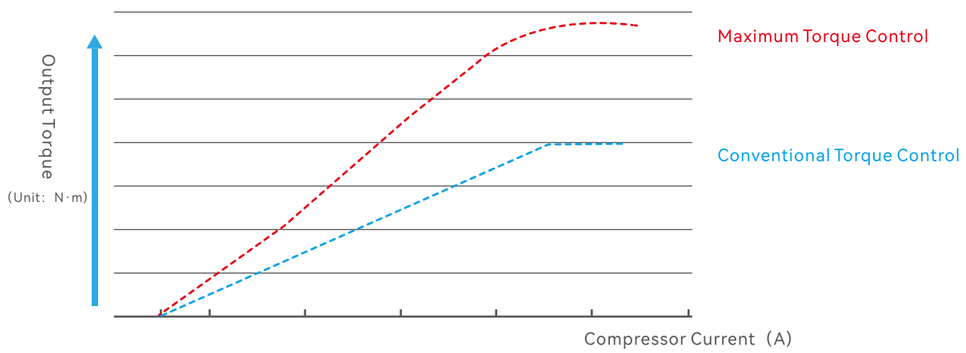
If Indoor Unit No. 63 (VIP Indoor Unit) is set, the operating mode of the VIP indoor unit will be the priority operating mode of the system.

Automatic Priority

The system automatically determines whether to prioritize cooling or heating based on the ambient temperature.

Leading Torque Control Technology

Effectively utilizing the reluctance torque of the rotor in the DC inverter compressor, it maximizes torque output with minimal current, reducing motor winding losses and achieving higher energy efficiency.

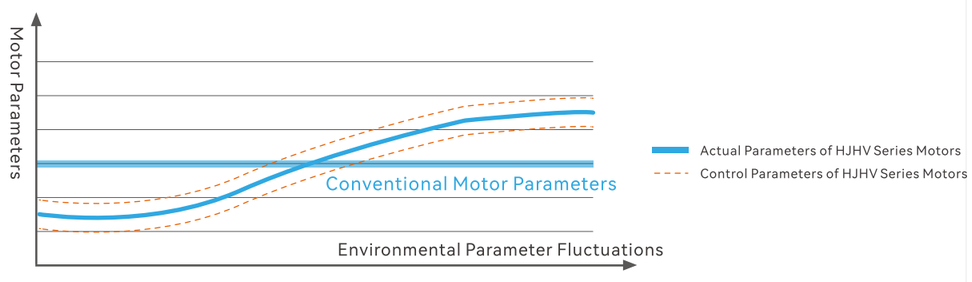


Low-Frequency Torque Control

Directly controlling the motor torque enables ultra-low-speed operation of the DC inverter fan motor, with minimal torque pulsation. This meets the system requirements while achieving a higher level of comfort.

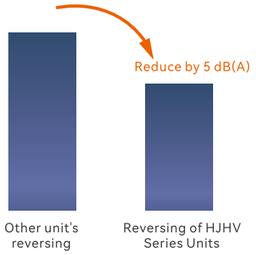
Motor Parameter Self-Adaptive Technology

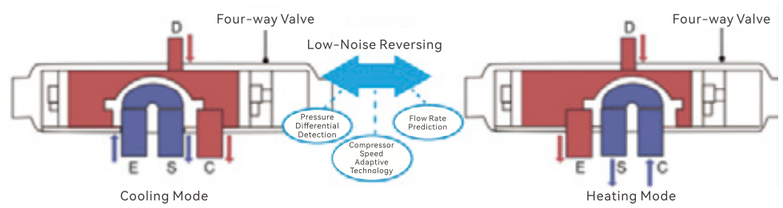
In conventional control, motor parameters can change with temperature and current fluctuations. However, Obo has adopted a motor parameter self-adaptive technology, which can automatically identify and correct the motor parameters during operation. This technology closely follows the system's needs and adaptively adjusts the motor parameters, effectively enhancing the reliability of control.



Low-Noise Commutation Control Technology

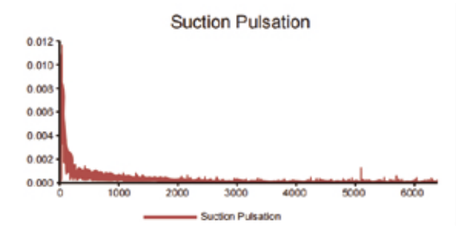
The four-way valve low-frequency commutation design involves detecting the commutation pressure difference and predicting the flow rate. During commutation, the compressor speed is adaptively adjusted. This results in minimal refrigerant flow pulsation and effectively reduces commutation noise. By achieving unit commutation, the reliability of the four-way valve operation is enhanced, while also improving the comfort of the unit's use.





Enthalpy Pulse Control

The specially designed buffer can reduce up to 90% of the refrigerant pulsation impact on the piping, lower the unit's vibration, and ensure the reliability of the unit.



Thoughtfully Designed Easy and Hassle-free Installation and Maintenance

An excellent experience comes not only from the product itself but also from reliable design and installation. We pay close attention to user needs. While providing air-conditioning products with outstanding performance, we also carefully consider every aspect of installation, use, and maintenance. The OBAIR HJHV series adopts a human-oriented design, featuring long piping installation options, large indoor unit capacity configurations, and intelligent diagnostics. These features flexibly address challenges in installation, use, and maintenance, breaking free from traditional constraints and offering users a convenient and intelligent air-conditioning experience.

Installation

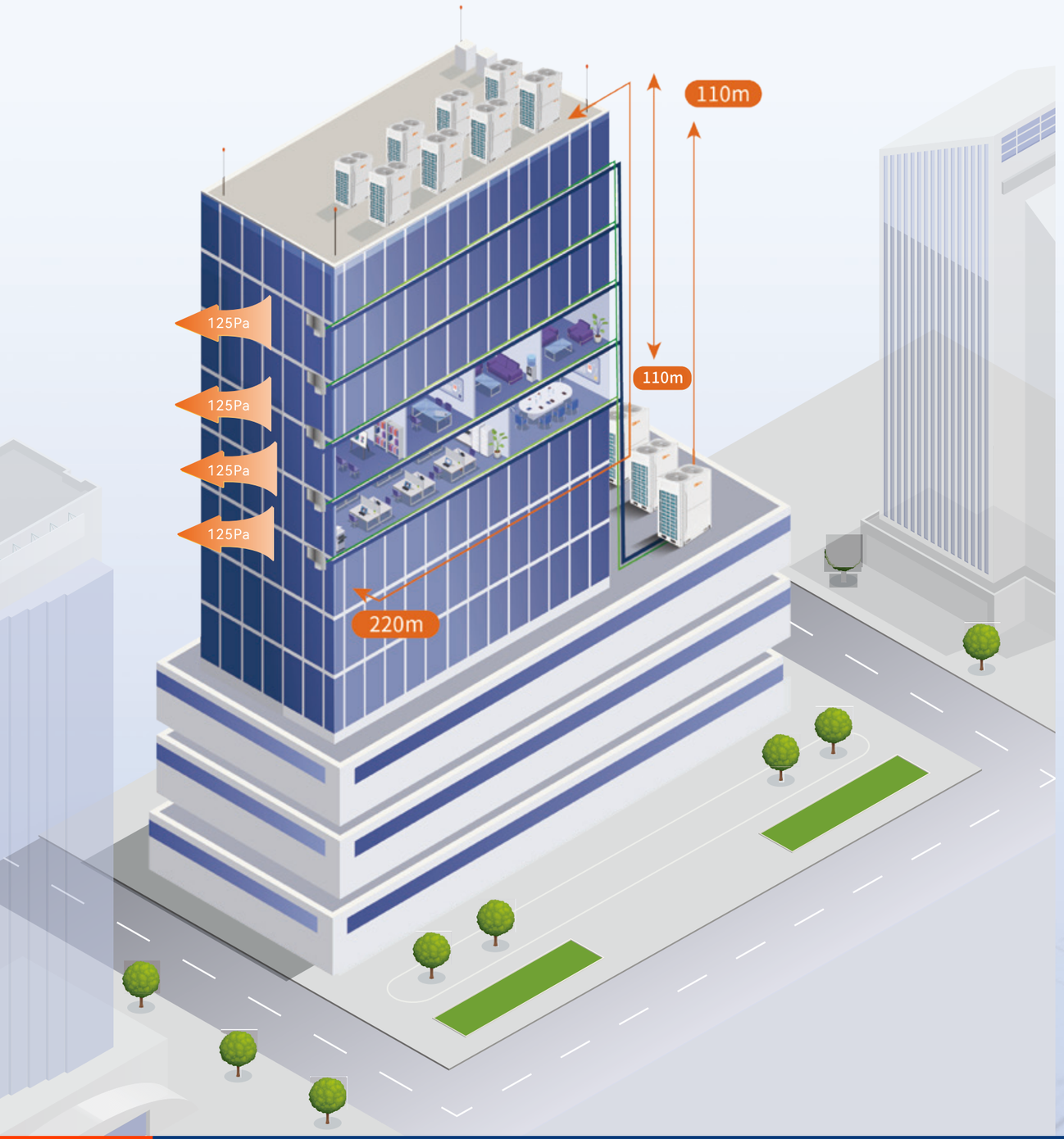
Compact size, long piping, high vertical drop, high static pressure, multiple indoor units

Operation

Windproof, snowproof, lightning-resistant, corrosion-resistant, and anti-aging

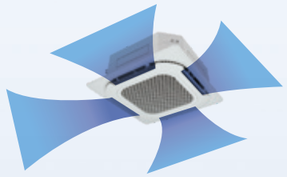
Maintenance

Self-cleaning, wireless communication, intelligent diagnostics, fault information storage



Ultra-long Piping, High Vertical Drop

- Total piping length: 1200m
- Maximum length after the first branch pipe: 120m
- Vertical drop of the indoor unit: 40m
- Maximum actual single-pipe length: 220m
- Vertical drop with the outdoor unit on top: 110m
- Communication distance: 2000m
- Maximum equivalent single-pipe length: 260m
- Vertical drop with the outdoor unit below: 110m

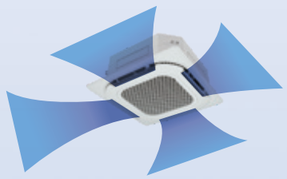


01 General Manager's Office

Focus on the comfort and quietness of the space environment; employing a variety of soundproofing patented components and advanced technologies to achieve ultra-low-noise operation.

02 Meeting Room

Instant and rapid cooling needs; high-quality core components and technologies achieve ultra-low-noise operation, improve heat exchange efficiency, and provide rapid cooling.



03 Archive Room

Constant temperature needs; stable and reliable system operation, with multiple protection functions to better cope with environmental changes.

04 Office Area

The area is large, and what needs to be highlighted is the precision of the air-conditioning temperature control.

125Pa Outlet Static Pressure

The outdoor unit features highly efficient axial flow blades and ducts designed with advanced concepts such as computational fluid dynamics and duct simulation technologies. The intake and outlet angles are optimized. Combined with a unique, ultra-high-stepped, gradually varying-diameter fan guide ring and a new type of brushless DC motor, the outdoor unit achieves freely adjustable static pressure, better exhaust performance, and ensures smooth airflow and good heat exchange efficiency.

The External Static Pressure of the Unit can Reach Up to 125Pa, Ensuring Effective Heat Dissipation.

- Under the premise of maintaining the same noise level, higher static pressure of the outdoor unit is achieved by using larger air volume fan blades and DC fan motors, ensuring the heat dissipation performance of the outdoor unit and optimizing its operating conditions.
- A wider range of louver specifications are available, while ensuring better heat dissipation when arranged in layers or centrally.

125Pa **01** General Manager's Office
Focus on the comfort and quietness of the space environment; employing a variety of soundproofing patented components and advanced technologies to achieve ultra-low-noise operation.

125Pa **02** Meeting Room
Instant and rapid cooling needs; high-quality core components and technologies achieve ultra-low-noise operation, improve heat exchange efficiency, and provide rapid cooling.

125Pa **03** Archive Room
Constant temperature needs; stable and reliable system operation, with multiple protection functions to better cope with environmental changes.

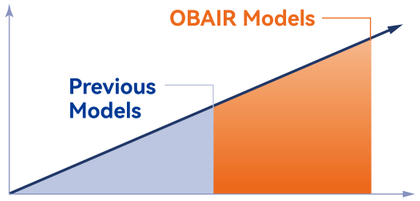
125Pa **04** Office Area
The area is large, and what needs to be highlighted is the precision of the air-conditioning temperature control.

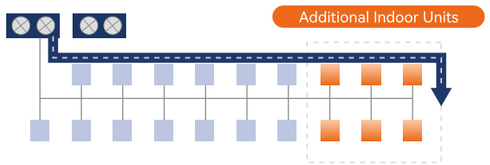
Ultra-high Capacity for Multiple Indoor Unit Connections

Thanks to OBAIR's leading communication technology, combined with its unique refrigerant circulation and pressure control technology, the system can be configured with a larger capacity. Up to 160 indoor units can be connected, offering greater flexibility in engineering applications.
*For the number of indoor units and connection rates for each capacity model, please consult OBAIR's air conditioning technical personnel.

Increased Mumber of Connectable Indoor Units and Enhanced Connection Rate

OBAIR can connect up to **160** indoor units.





Refrigerant Automatic Detection and Automatic Injection

Refrigerant Automatic Detection Function

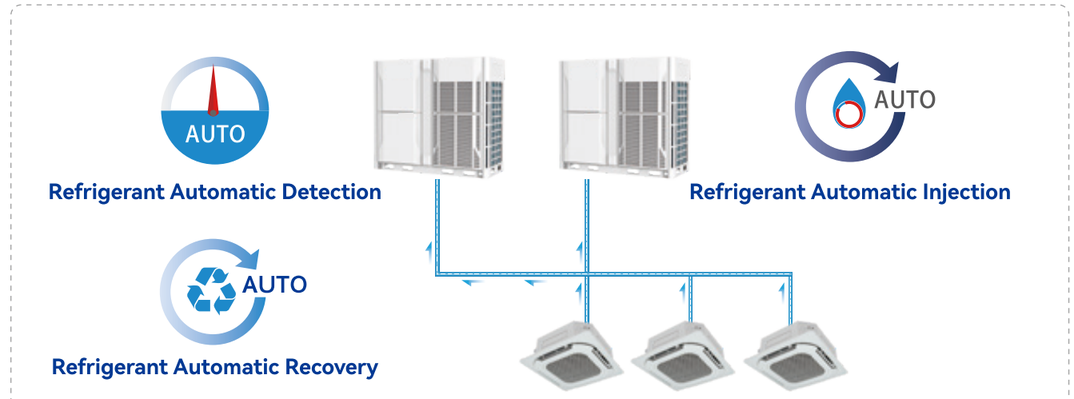
Adopting advanced intelligent control programs, the system continuously monitors the refrigerant level based on its operating conditions and makes intelligent judgments to ensure stable operation. Relevant data from the main unit can be checked in real-time to keep track of the refrigerant status.

Refrigerant Automatic Injection Function

By comprehensively evaluating parameters such as temperature, subcooling, and pressure during the system's trial operation, the refrigerant charge status of the outdoor unit can be effectively determined. This makes the maintenance and servicing of the air-conditioning system more convenient and improves the efficiency of unit installation and commissioning.

Refrigerant Automatic Recovery Function

The unit is equipped with a one-key automatic intelligent refrigerant recovery function. When maintenance is required, the refrigerant can be automatically recovered into the indoor unit or other normally operating outdoor units by simply pressing a button on the main control board of the outdoor unit. This not only effectively protects the environment but also reduces maintenance costs.

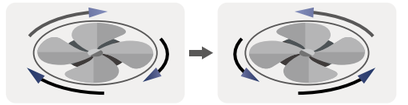


Safe and Stable Operation for Worry-Free Use

Fan Windproof

When external forces cause the outdoor unit fan to rotate in reverse, the air conditioner will first stop the fan upon startup and then restart it in the correct direction according to the program, protecting the fan and blades from damage.

Conventional



External forces cause the fan to rotate in reverse

Instantaneous reverse rotation, with a sudden increase in torque, can easily cause damage to the fan blades.

Windproof

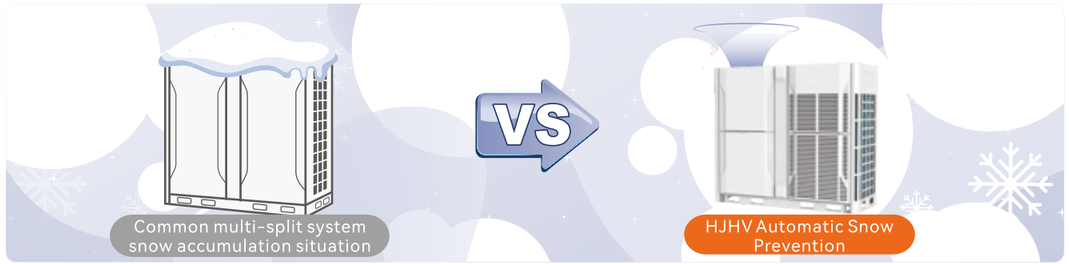
External forces induce reverse rotation of the fan.

Start the unit and stop the rotation.

Positive rotation, with low starting torque, protects the fan blades.

Snowproof Function

In the event of severe weather conditions such as blizzards, even if the outdoor unit is not operating, the intelligent sensor on the outdoor unit's circuit board will detect the external snow signal and activate. The outdoor fan motor will then start running at full speed to prevent the outdoor unit from being covered in snow. If the user is using the air conditioner, the fan will switch to normal operation.



* This function is available as an optional feature.

Dual Lightning Protection Function

The outdoor unit features a metal grounding circuit and an electronic control lightning protection module. It provides anti-interference and lightning protection capabilities. Additionally, through reliable internal grounding design and strict installation standards, the system ensures more stable and reliable operation.

Anti-aging Function

The casings of the indoor units, outdoor units, and various controllers are all designed with anti-aging features. This helps to prevent the casings from yellowing and developing color differences due to long-term use, thereby maintaining the aesthetic appearance of the units.

Corrosion Protection Treatment

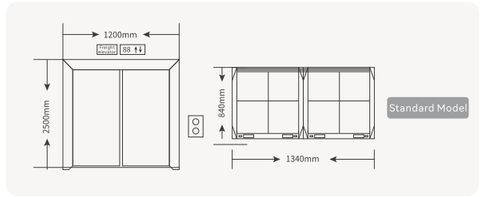
Fearless in coastal and other special application scenarios, corrosion-resistant technologies and materials are employed to extend the normal service life of the air conditioning units. The specific corrosion protection techniques for various components are as follows:

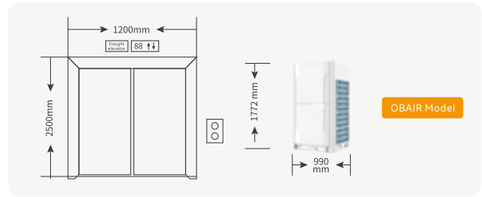
(1) Stainless steel screws or high-performance corrosion-resistant screws are used.
(2) Electrical components are designed with an integrated closed structure and coated with special corrosion-resistant materials.
(3) High-corrosion-resistant hydrophilic aluminum foil heat exchanger fins are used, with an added corrosion-resistant primer layer to enhance the corrosion protection of the fins.
(4) Guard nets are coated with UV-resistant powder and undergo deep corrosion protection treatment.
(5) Sheet metal parts are treated with surface phosphating and coated with special corrosion-resistant materials. Through dual corrosion protection, the corrosion resistance of sheet metal is significantly improved.
(6) Copper pipe joints are sprayed with corrosion-resistant paint.
(7) Pressure vessels are treated with surface phosphating, providing good corrosion resistance.
(8) Plastic-encapsulated motors are used.
(9) Electronic control boards are coated with moisture-proof oil.
(10) The surface of the electronic control box sheet metal is treated with an additional corrosion-resistant spray coating.

User Experience Design, Easier Installation and Maintenance

Compact

- The outdoor unit module features a compact design, with the 16HP model measuring only 990mm × 1772mm × 845mm (length × height × width).
- It can be transported using an elevator, making both transportation and installation easy to handle.

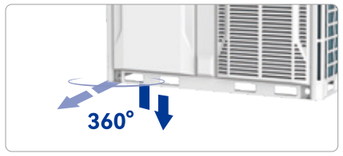




Note: The comparison in the figure is based on the 16HP model as an example.

360° Piping Connection

The piping connections can be freely chosen from different directions such as the front, back, side, and bottom, facilitating installation and use. This eliminates the need to compromise on installation due to spatial limitations.



Automatic Address Assignment

The system can automatically assign addresses to all indoor units. During commissioning, there is no need for manual dip switch coding, which simplifies the installation and commissioning process and reduces the likelihood of errors associated with manual address assignment. Additionally, the controller can query and set the addresses of the indoor units, making the process more intelligent and convenient.

Non-polarized Communication

The communication lines between the indoor and outdoor units are connected without polarity, simplifying the installation process, accelerating the installation schedule, and preventing issues such as reversed wiring.

Intelligent Diagnostic and Commissioning Software

Using advanced intelligent diagnostic and commissioning software, the air conditioner can be comprehensively tested and diagnosed quickly, making it convenient for users. Any indoor unit can be connected to the diagnostic software to collect the operating parameters of the entire system and output operational parameter curve charts, facilitating commissioning and maintenance.

Self-cleaning and Dust-removal Functions

The unit is equipped with an automatic fan reverse function. When dust accumulation on the heat exchanger severely reduces heat exchange efficiency, it can effectively remove the dust automatically, thereby improving heat exchange efficiency.

* This function is available as an optional feature.

Professional Structural Design

The compressor is positioned at the front for easy maintenance. The ambient temperature sensor is located away from the condenser, preventing interference from rain and snow in winter and ensuring accurate detection of ambient temperature.

Indoor and Outdoor Unit Positioning

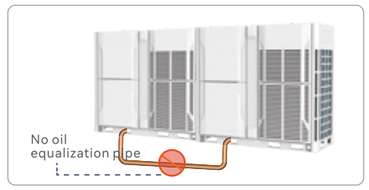
During system commissioning or maintenance, all indoor and outdoor units in the same system emit a gentle sound, facilitating on-site location identification.

Wireless Communication

Wireless communication allows for convenient installation, eliminating the need for traditional communication wiring between outdoor and indoor units, thereby enhancing convenience and reducing installation complexity. Through wireless networking technology, the system can search for and connect indoor and outdoor units, enabling communication between them. When wiring for communication lines is impractical due to aesthetic concerns or in renovation projects where existing wires are disorganized, independent modules can be installed on both indoor and outdoor units to achieve wireless communication.

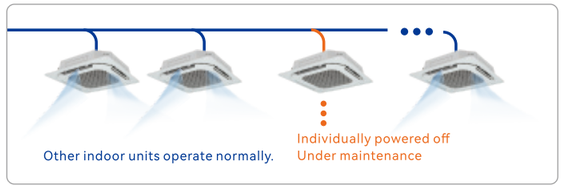
Outdoor Unit Without Oil Equalization Pipe Design

The outdoor unit modules do not require oil equalization piping, reducing the risk of pipe leakage and ensuring stable and efficient oil return. This design also simplifies the installation process.



Emergency Repair of Indoor Units in Case of Power Loss

When a specific indoor unit needs to be powered down for repair due to a malfunction, it can be individually disconnected from power without affecting the operation of the entire system. The number of units to be powered down and the duration of the power-off period can be set according to requirements, enhancing the flexibility and convenience of maintenance.



One-key Trial Operation for Intelligent Diagnostic Commissioning

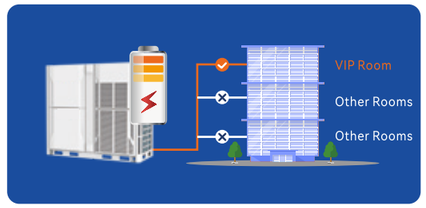
The one-key trial operation can be initiated either from the outdoor unit side or from any indoor unit side. This flexibility facilitates on-site commissioning and enhances the quality and efficiency of construction at the project site.

- Automatically detect whether the main power supply of the outdoor unit is in a reverse phase or phase loss condition;
- Automatically detect whether there is any communication abnormality between the outdoor unit's main control board and the inverter module board;
- Automatically detect and confirm whether there is any incorrect wiring between the indoor and outdoor units;
- Automatically identify the piping length, and automatically adjust and optimize operation based on the piping length;
- Automatically detect and confirm the operating conditions of moving components within the air conditioning unit, such as compressors, fan motors, electronic expansion valves, four-way valves, and solenoid valves, to ensure that each component is functioning normally.

Intelligent Diagnostics: Effortless and Efficient Management

Power Supply Insufficiency Detection Function

In certain usage scenarios, when a diesel generator is temporarily used for power supply, the outdoor unit can detect the signal of insufficient power supply. The outdoor unit will adaptively adjust its load output based on low voltage and send this signal to the indoor units. At this point, only the VIP rooms are allowed to use the air conditioning, while other rooms are prohibited from using it.



Emergency Shutdown Linked with Fire Protection Systems

The indoor and outdoor units are equipped with reserved functional interfaces that can be connected to the building's fire protection system. In the event of a fire alarm, the system will automatically shut down to prevent greater risk and loss, ensuring safer and more reliable use.

Power-loss Memory Automatic Restart

Whether the indoor or outdoor unit experiences an unexpected power outage during operation, the system will record the operating status before the power loss. When the power is restored, the system will automatically resume to the pre-power-loss state without the need for reconfiguration.

Black Box Fault Information Storage Function

The DC inverter unit is equipped with a "black box" data storage device: The "black box" can automatically store data from the unit, indoor units, and control system at the time of a fault, as well as the cause of the fault. The "black box" can record fault data and retain it even after power loss, with no time limit on data storage.

Room Card Linkage Function

Equipped with room card and access control management functions, it can achieve linkage control for hotel room management or smart home systems. When the card is inserted, the air conditioner starts working and automatically executes the previously memorized operating mode, avoiding waste and providing efficient and convenient operation.

Password Lock Construction Supervision

The system is equipped with an intelligent locking function. After the actual installation meets the specifications, it can be unlocked with a single click, ensuring the reliability of the system's operation in the later stages and reducing the usage issues caused by non-standard installation practices. In combination with the Oubo Intelligent Air Conditioning Management System, it can achieve a user arrears locking function, facilitating management.

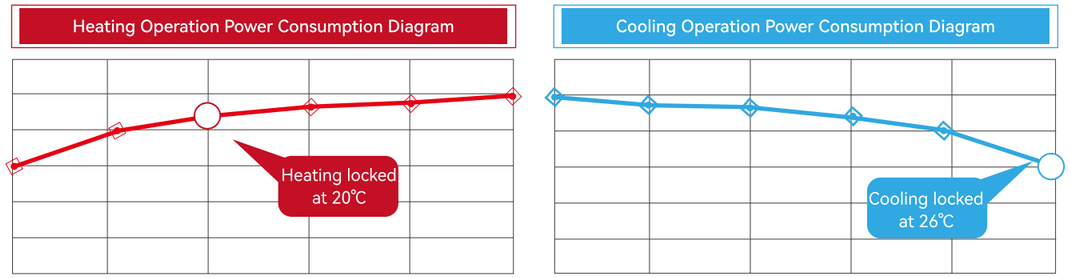
Function to Suppress Electromagnetic Noise and High-order Harmonics

The newly designed Type-II filter effectively eliminates interference voltages and powers, among other interferences. An optimized algorithm achieves the best sine wave output for the voltage, thereby significantly reducing high-order harmonics. The use of ferrite magnetic rings and non-polarized dual-core shielding cables effectively suppresses the transmission paths of electromagnetic noise and high-order harmonics to the indoor units, reducing the impact of electromagnetic noise and high-order harmonics on the entire system. Through these technologies, electromagnetic noise and high-order harmonics are effectively suppressed.

26°C Energy-saving Lock

With a single click, the indoor temperature is locked at the most comfortable level for the human body—26°C (or 20°C in winter). This ensures comfort while maintaining low energy consumption, making it energy-efficient and environmentally friendly.

Cooling locked at 26°C; Heating locked at 26°C

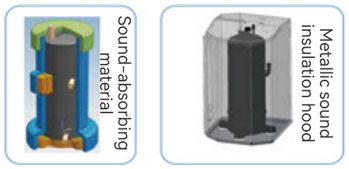


Noise Source Cloud Map Identification Technology

During the design of the unit, noise source cloud map identification technology is introduced. This technology performs a comprehensive scan and, in combination with computer simulation analysis, precisely locates the noise sources. Based on the characteristics of the noise sources, targeted measures are taken to reduce noise.

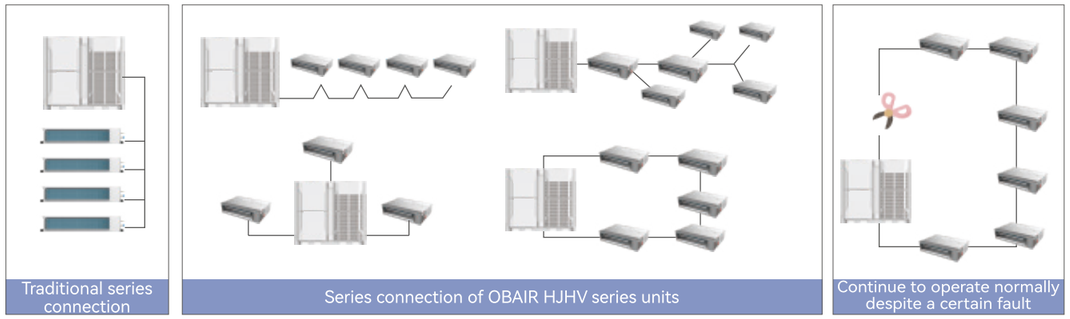
Compressor Sound Absorption and Insulation Technology, Independent Noise Reduction Chamber

Using high sound absorption coefficient materials for sound insulation, the compressor's radiated noise is reduced. It consists of a sheet metal layer and a sound-absorbing layer. The sheet metal layer effectively insulates sound, prevents water ingress, and resists aging, while the sound-absorbing layer is made of a new type of damping sound-absorbing material that effectively absorbs the vibrations from the sheet metal layer, thereby reducing noise.



Dedicated Communication Chip, Arbitrary Wiring

In addition to the traditional series connection, the communication lines can be connected in tree, star, ring, or any other form, reducing installation costs and eliminating the possibility of incorrect wiring on-site.



Collaborative Control with Building Load Forecasting System

Identification of Building Space Characteristics

All indoor units automatically determine the size of the building space and the thermal insulation effect based on the rate of temperature decrease.

System Refrigerant Temperature Determination

The outdoor unit prioritizes the indoor unit with the highest refrigerant temperature requirement based on the demands provided by each indoor unit, and supplies this refrigerant temperature to all indoor units.

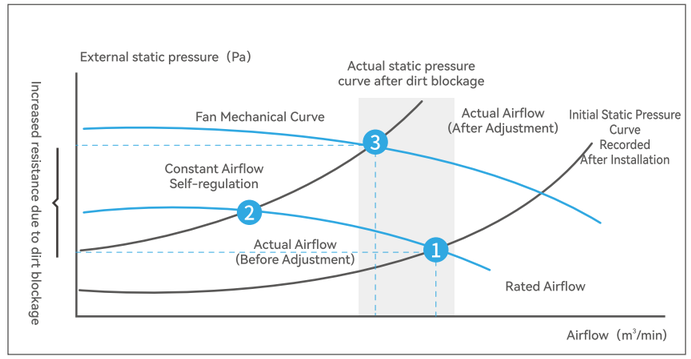
Indoor Unit Airflow and Volume Self-adaptation

Each indoor unit automatically adjusts its airflow and the refrigerant flow passing through it based on the refrigerant temperature provided by the outdoor unit, achieving precise regulation of the indoor temperature.

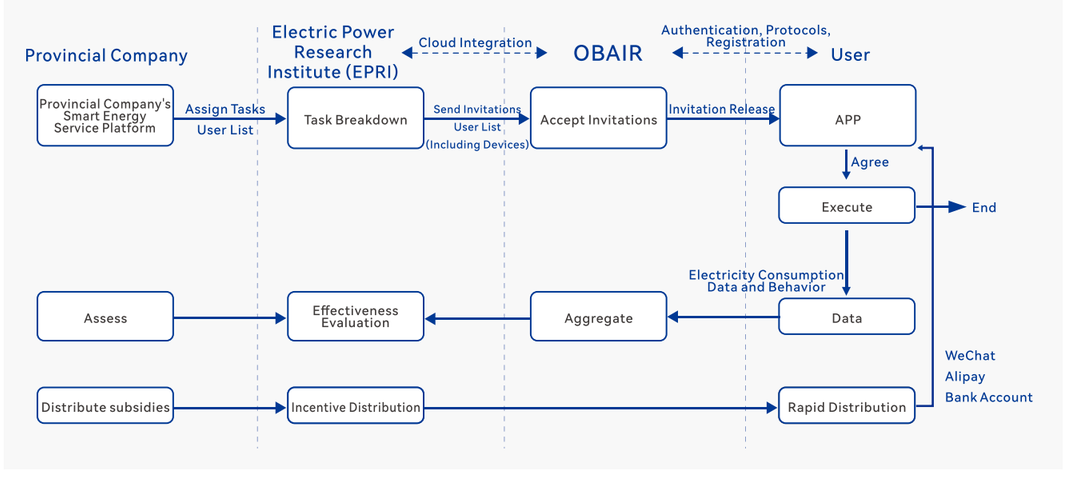
Constant Airflow Indoor Unit Real Dirty Blockage Detection

During operation, the outdoor unit heat exchanger is prone to dirt blockage, which can lead to a decrease in the overall system efficiency. The newly designed digital outdoor fan, through constant airflow maintenance and dirt blockage back-calculation, can quickly determine the system's degradation level and provide feedback to the customer and after-sales service, reminding them of the need for timely maintenance.

OBAIR's unique digital fan drive identification compares with the stored fan model to rapidly increase torque, achieving constant airflow self-regulation and maintaining the airflow within ±10% of the rated airflow. This allows for the calculation of the increased resistance caused by dirt blockage.



Intelligent Response to Unified Grid Peak Shaving

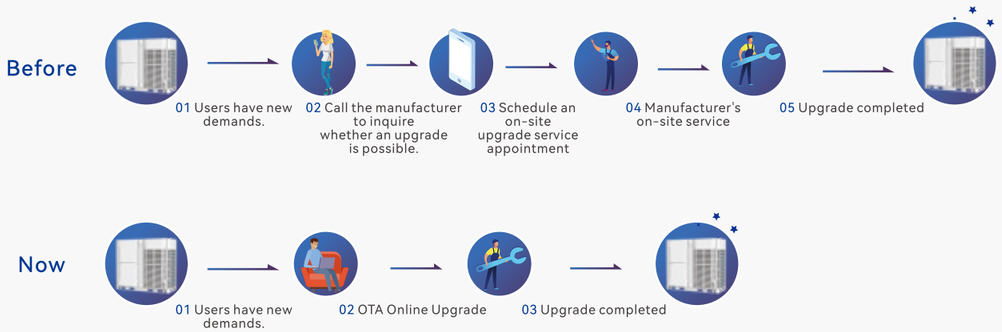


The Unit Automatically Connects to the Network Upon Power-on

Upon power-on, the device can automatically connect to the network, and the air conditioning systems can self-form a network, providing convenient and efficient operation. Utilizing the latest dedicated IoT protocols, the network offers extensive coverage, strong penetration, and instant response. Data transmission speeds can be up to 750 times faster than those of industry-standard protocols, ensuring a stable and reliable connection that never drops offline.
Through wireless self-organizing network technology, the system can search for and connect indoor and outdoor units, enabling communication and connection between them without the need for signal wires. This reduces installation complexity and enhances convenience.

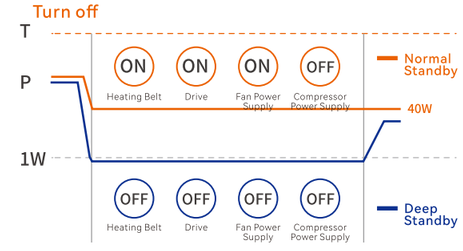
Remote Upgrade and Self-Optimization

The control logic of the system is automatically upgraded online, eliminating the need for on-site service.



1W Low Standby Power Technology

The IoT multi-split system adjusts the power supply of the electrical control power module based on the usage of the outdoor unit. When the system detects that there is no cooling or heating demand from the indoor units, the main program issues a command to intelligently cut off the power supply to the electric heating and electrical control modules of the outdoor unit. This reduces the standby power of the outdoor unit to as low as 1W, achieving ultra-low power standby.



DIP Switch Adjustment Setting

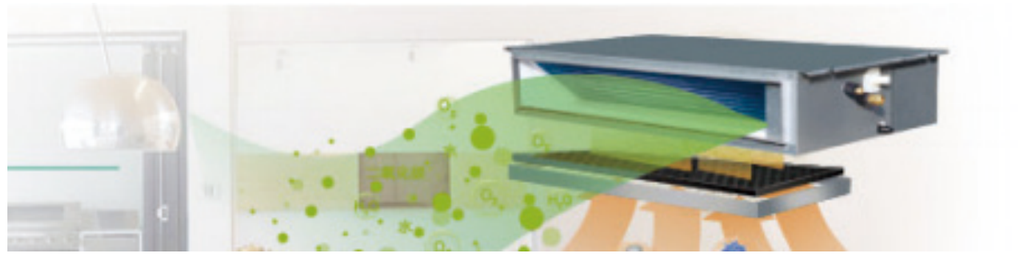
For indoor units with a capacity of less than 3 horsepower, a user-friendly DIP switch adjustment setting has been specially designed. When the load of the indoor unit increases or decreases, the capacity of the indoor unit can be adjusted by approximately ±0.25 horsepower through the DIP switch to adapt to changes in indoor load, making it more convenient for users.

Uniform-diameter Refrigerant Piping System

Uniform-diameter Refrigerant Piping System (for models 285 and below): The entire refrigerant piping system uses a consistent diameter for the main pipes, saving time and labor in design and construction. In the future, if the indoor unit model is changed, there is no need to modify the main refrigerant piping. This ensures that the indoor decoration remains undamaged and reduces the investment in secondary renovation.

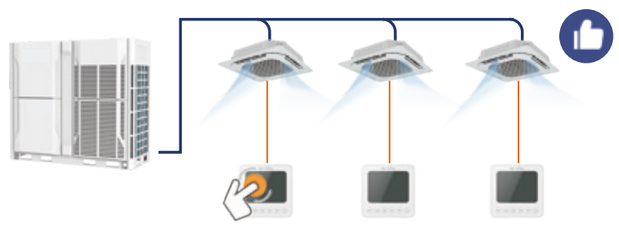
Pure Ecological Module

While meeting the needs of air conditioning use, it can achieve purification functions such as antibacterial and dust removal, odor elimination through negative ions. It can also moisturize and beautify the skin, achieving the dual effects of an air conditioner and an air purifier. Additionally, this indoor unit is equipped with features such as Forest Wind and Smart Sleep modes, and users can also purchase a dehumidification module based on climatic characteristics.



One-key Group Shutdown

Turn off all indoor units in the system with a single click.



Intelligent Interconnection
Ideal Operation Under Your Control

Technology changes life, and intelligence makes life more convenient. The OBAIR HJHV series is equipped with a variety of controllers and control methods. The intelligent and efficient centralized management system solves traditional central air conditioning management problems, easily meeting the needs of different usage scenarios and providing convenient management of your central air conditioning system.

Versatile Control Methods

OBAIR HJHV series units provide diversified control methods for customers to choose from, meeting the needs of different places and people.

❯ Remote Controls

Specificities

One to One
Suitable for all indoor units

Dominance

The traditional remote control is battery-powered, making it flexible and easy to access at will.

❯ Line Control

Specificities

1. One-to-one or one-to-many control of multiple indoor units
2. Optional with WiFi function for remote operation.

Dominance

1. Easy to operate, beautiful appearance;
2. Fixed on the wall, will not be lost;
3. Powered by the indoor unit, no batteries, peace of mind and save trouble.

❯ Touchscreen Centraliser (4")

Specificities

1. 4 systems can be connected to control 100 indoor units;
2. Real-time view of indoor and outdoor unit operation status;
3. With functions such as one-key switching, mode locking and weekly timer setting

Dominance

1. Small and compact, compatible with 86 box installation;
2. Single or multiple indoor units can be controlled;
3. Full touch screen design, support multi-language, easy to operate.

❯ Touchscreen Centraliser (10")

Specificities

1. Centralised control of multiple systems;
2. Highly equipped hardware with rich interfaces;
3. Custom linkage scenarios, flexible customisation.

Dominance

1. Support music and video playback;
2. Linkage control with other smart home;
3. Voice, touch screen and other interactive methods.

❯ Smart Gateway Control

Specificities

1. Support multi-system control;
2. Remote control by mobile phone or tablet;
3. Weekly timer or yearly timer and scene setting can be set.

Dominance

1. Convenient operation way to control the air conditioner remotely;
2. Centralised control of multiple indoor units to improve overall energy efficiency.

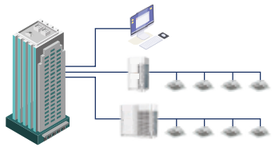
❯ Hotel Plug-in System

Specificities

Connect the air conditioner to the hotel plug-in system with other appliances

Dominance

A new generation of hotel card insertion system, compatible with strong and weak power control, convenient access to a variety of hotel room card insertion system.



❯ Building Control Systems

Specificities

Efficient and convenient management
Reduce energy waste

Dominance

Provide air-conditioning communication protocol, air-conditioning and lighting, security and other systems can be centralised to achieve the building word automation management.

Remote Controls

With clock, timer, swinging air supply and other functions;
Simple and compact, powered by traditional 7 batteries, ultra-low power consumption;
Backlight display + fluorescent keys (optional), night operation is also clear at a glance;
Multiple mode setting function (automatic, cooling, heating, dehumidification, multi-speed air supply);
The address of indoor unit can be set automatically by remote control, quick and convenient installation and commissioning;
A variety of additional functions such as sleep/mute/energy-saving/power-saving, one-key cooling/one-key heating, fast mode switching.

Line Control

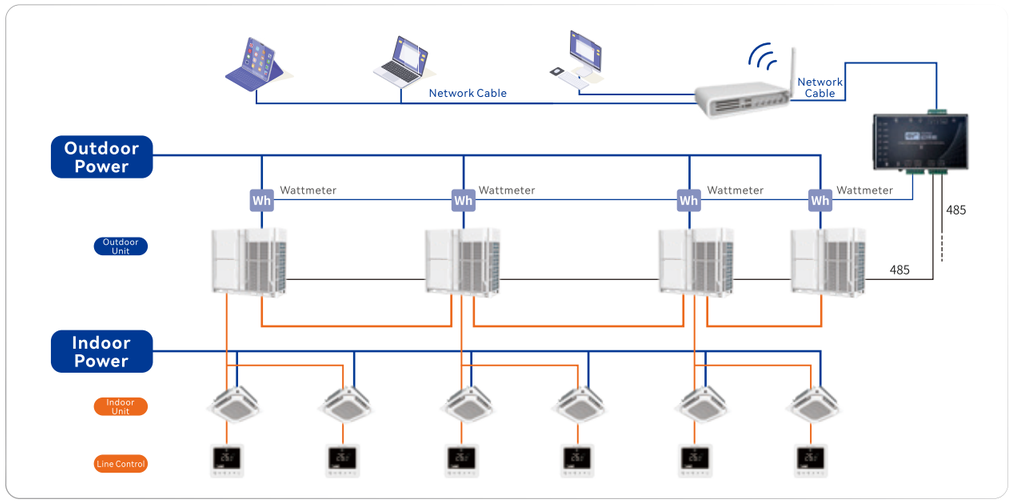
Both remote control receiving function, align the line control can receive the remote control function;
Master-slave line controller controls the same indoor unit or one line controller controls multiple indoor units;
With clock, timing, swinging air supply, filter cleaning tips, energy-saving operation and other functions;
With a variety of operating modes setting function (automatic, cooling, heating, dehumidification, multi-speed air supply);
Running status query, parameter setting, address setting, one control multiple/multiple control one, through the parameter setting;
Backlight display, Chinese characters, night operation is also clear;
wifi function is optional, to achieve remote control.

Touchscreen Centraliser (4")

Support any internal machine or group to set weekly timer function;
With the functions of fault prompting, mode locking, and one-key switching machine;
Full touch screen design, beautiful appearance, support for multi-language, easy to operate;
Can be unified real-time check all the internal equipment and external units of the operating state;
Support mode lock, remote control lock, single machine control, group control, all control functions.

Centralised Control of Household Billing

The new centralised control system, based on distributed architecture, allows administrators to log in to the control system through a browser to achieve automation and remote online management and control of air conditioning, as well as other functions such as power statistics and division, building control and schedule management, etc. The system can provide professional solutions for enterprises and users to help customers effectively control the overall use of the central air-conditioning system, and provide efficient and intelligent one-stop solutions for the air-conditioning system. Intelligent one-stop solution for air-conditioning system.



The system can realise remote centralized monitoring in LAN, and support browser such as Chrome operation, the power division report and equipment operation record report are output in excel format, which is convenient for statistical use. Convenient installation, directly from the external wiring, saving the difficulty of wiring, saving time and cost of the project.

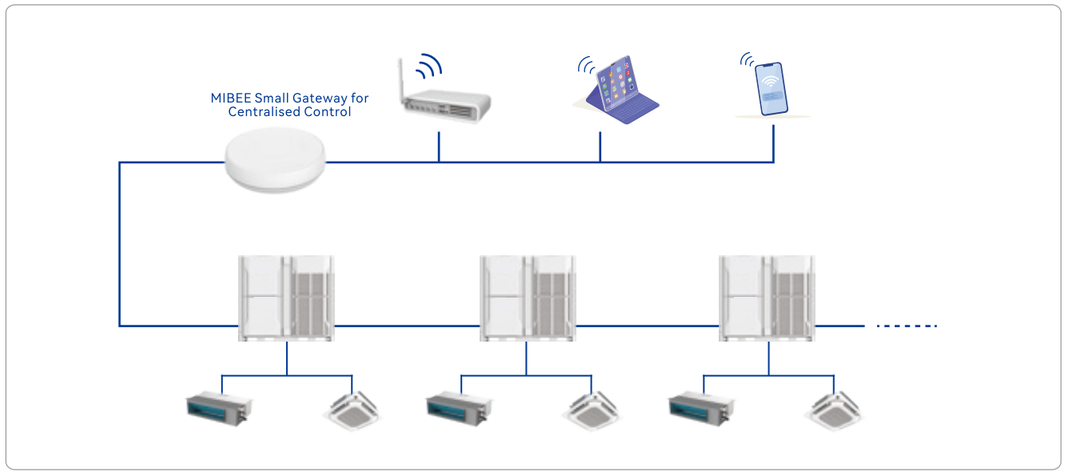
Key Features

(1) Centralised control of equipment
(2) Schedule management function
(3) Scenario setting
(4) Air-conditioning unit group navigation
(5) Intelligent billing function
(6) Equipment and power consumption overview
(7) User account management
(8) Data statistics, report output
(9) Gateway equipment engineering debugging

Automatic backup of operational billing data

MIBEE Small Gateway for Centralised Control

MIBEE centralised control mini-gateway is suitable for home and office, setting up different scenario actions according to different scenes to turn on the air conditioner in advance to achieve the effect of suitable indoor temperature when you get home;In the office, the air conditioner can be centrally managed to improve the overall energy efficiency and support multi-system centralised control.



Main Features

1. Mobile phone remote control; 2. Can be set weekly timer or annual timer; 3. Set the scene of a key switch; 4. Support for multi-system centralised control.

Line-up of internal machines
A wide selection of internal machines

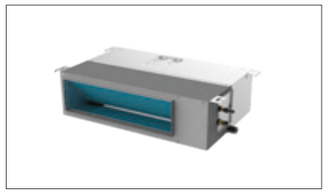
Equipped with hundreds of indoor models to choose from, the OBAIR HJHV series easily meets the needs of different places from small to large, matching the efficient landing of the project.

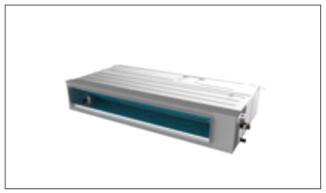
Multi Indoor Unit Product Line-up


Single-directional airflow ceiling unit


Two-directional airflow ceiling unit


360° Surround Ceiling Unit

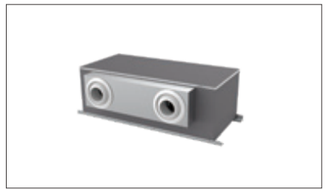

Low Static Pressure Thin Duct Fan


Medium Static Pressure Ducted Unit

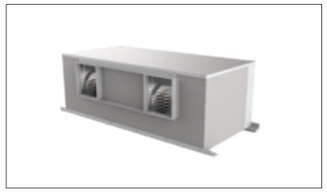

High Static Pressure Ducted Unit


Free Static Pressure Ducted Unit


Floor and Ceiling Dual-purpose Air Conditioner


High Static Pressure Ductdd Unit (With Jet Outlet)


Wall-mounted Air Conditioner


Fresh Air Indoor Unit


10HP Vertical Cabinet Air Conditioner

A Variety of Indoor Unit Options to Meet the Needs of Commercial and Residential Spaces

Single-directional Airflow Ceiling Unit

With unidirectional air supply, it can create a comfortable airflow effect for narrow spaces and corners, such as aisles or narrow conference rooms, restaurants, shops, etc., and bring distinctive air-conditioning enjoyment.

Two-directional Airflow Ceiling Unit

Ultra-thin body design with optimised silent centrifugal wind wheel creates a quiet and pleasant comfortable experience for the space and meets the various needs for air conditioning in hotel rooms, restaurants and KTV boxes.

360° Ceiling Unit

Suitable for large places that have a large ceiling space and can be fully suspended, 360° air supply without dead angle, so that the airflow is evenly sent to every corner of the room.

low Static Pressure Ducted Unit

Low static pressure thin air duct machine adopts integral heat exchanger, smooth transition of the contour, to achieve intelligent self-cleaning fast no dead-end sewage, the body is exquisite and compact, static pressure range: 0 ~ 30Pa

Medium Static Pressure Ducted Unit

Adopting high-performance centrifugal fan, high residual pressure outside the machine, flexible duct layout, for different scenarios, through the divergent pipe and ventilation hose can be realised through multi-point long-distance air supply.Static pressure range: 80 Pa

High Static Pressure Ducted Unit

Applied to large space places, this kind of places, indoor area is large, the flow of people is large and dense. Such as airports, waiting rooms, gymnasiums, shopping malls and so on. Static pressure range: 0~400Pa

Free Static Pressure Ducted Unit

Using industry-leading constant air volume technology, there is no need to manually adjust the static pressure during installation, and it automatically matches the static pressure and adapts to the length of the air ducts, avoiding the waste of rework caused by improper design or installation errors. Static pressure range: 0~160Pa

Wall-mounted Air Conditioner

Exquisite and compact shape design, can be harmoniously matched with the interior decoration, especially suitable for rooms with limited floor height and small area (such as economic guest rooms in hotels, workers' rooms, etc.); does not require any form of ceiling, which brings great convenience for installation.

Fresh Air Unit

Applicable to a variety of places that need to purify the air, sterilization, filtration performance is superior, air purification is more thorough, to bring you fresh and healthy good air.

Floor and Ceiling Dual-purpose Air Conditioner

It can be installed either as a seated or suspended unit, depending on the environmental requirements. This design perfectly fits the space and is especially suitable for renovation projects in already-decorated environments and minimalist venues without suspended ceilings.

10HP Vertical Cabinet Air Conditioner

Aiming at the pain points of commercial scenes such as large area, high flow of people, long operation time and confined environment, it is specially built for small and medium-sized commercial spaces, energy-saving and stable, comfortable and efficient.

360° Ceiling Unit

Application Scenario Recommendations: Supermarkets, shops, and office buildings are the top choices.

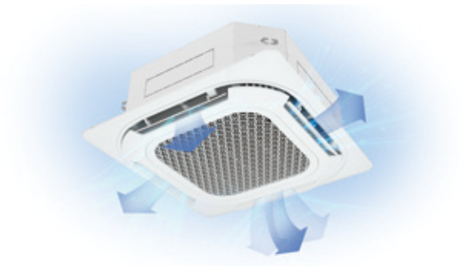
Circulating Airflow with Uniform and Comfortable Temperature Distribution

The new 360° air-distribution ceiling-mounted indoor unit achieves comprehensive air coverage throughout the entire room by adjusting the airflow direction and the position of the louvers. This design creates an all-around circulating airflow that eliminates dead zones in air delivery, ensuring a more uniform indoor temperature and a more comfortable space.

Independent Louver Control for Free Air Distribution

The four-sided air-directing louvers can be independently controlled, allowing for a wide range of angle combinations.

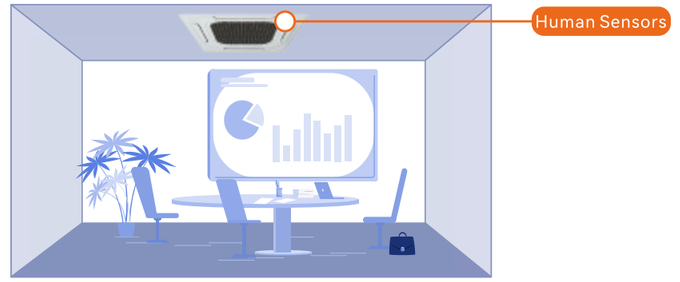
This design better meets users' needs for temperature and airflow distribution in different areas of the room, thereby enhancing overall comfort.



Intelligent Eye, Smart Regulation of Indoor Conditions

Technical Features:

- The panel of the indoor unit can be equipped with a human sensor, which intelligently senses the number and position of people, automatically adjusts the direction of air supply, and sets the wind blowing and wind avoiding modes according to the needs of different people.
- Whole-house monitoring, intelligent sensing and judgement of the state of people, according to the different state of intelligent adjustment of the room temperature and air supply, to ensure comfortable airflow and temperature in the human activity space and the ground.
- Human sense of energy saving, automatic sensing of human body signals, when no one in the room, intelligent adjust the indoor temperature to reduce energy consumption, when no one for a long time, then automatically shut down to reduce energy consumption.

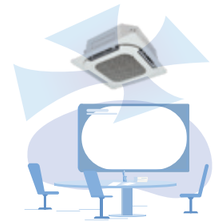


During normal operation

In situations with frequent human activity, that is, during normal operation, the system operates in the standard mode.

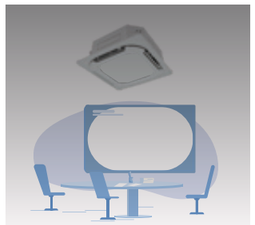
When there is little human activity

In situations with minimal human activity, the system automatically adjusts the temperature and air volume to ensure both comfort and energy efficiency.



Unoccupied space for a short period of time

In situations where the room is temporarily unoccupied, the air conditioner further suppresses its operation and output to save electricity.



Prolonged absence of premises

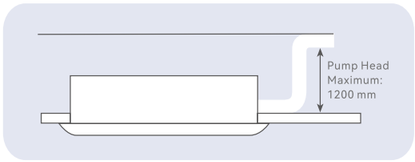
When the indoor unit is unoccupied for an extended period, such as 60 minutes, users can choose to turn it off or put it into standby mode to avoid wasting electricity due to forgetting to switch it off.

Intelligent Eye: Smart Regulation of Indoor Conditions

Adopting a DC brushless motor and streamlined, high-efficiency centrifugal impeller, the airflow efficiency is significantly improved. The operation is more energy-efficient, with substantially reduced vibration and noise.

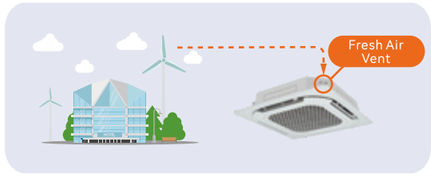
DC Drainage Pump

The high-head drainage pump features a brushless DC motor, which offers better energy efficiency and superior quietness. The indoor unit's drainage pump has a maximum head of 1,200 mm, allowing flexible adjustment of the unit's vertical installation height to meet various engineering requirements.



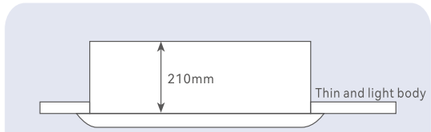
Fresh Air Interface: Comfort and Health

The fresh air interface effectively introduces 8% to 10% of outdoor fresh air into the indoor space, thereby enhancing indoor comfort.



Slim Body Design, Space-saving Installation

The slim body (only 210mm thick) makes it suitable for use in narrow ceiling spaces. Its thin design reduces the need for ceiling height, allowing installation without being restricted by the room's height.



Easy to Clean Filter, Easy to Clean Panel

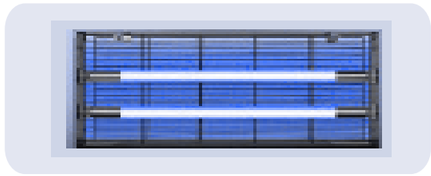
The return air filter of the indoor unit has excellent filtration performance. It can be set with a timer for cleaning through the controller, making disassembly and cleaning easy and convenient. This ensures a cleaner and more hygienic usage experience. The body panel is made of special materials that effectively inhibit the adhesion of bacteria and dust, making it easier to wipe and clean.

Humidity Sensor can be Equipped to Achieve Low-temperature Dehumidification Function, Precise Control of Temperature and Humidity.

The indoor unit can be fitted with an optional humidity sensor to achieve automatic and low-temperature dehumidification functions.

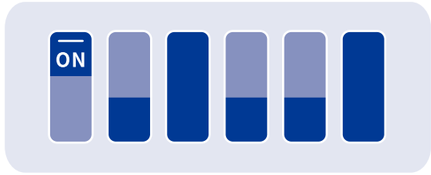
Mold Prevention and Bacteria Elimination Module: High-Efficiency Purification

Photocatalytic Hydrogen Ionization/UVC Germicidal/UVA Germicidal.



Self-programming Internal Machine, Free Control

Temperature compensation, cold air prevention temperature, anti-freezing temperature, static pressure (DC motor speed), address setting, expansion valve opening, and more...



Note: Some functions of this product are optional.

Low Static Pressure Thin/Standard Duct Units

Application Scenario Recommendations: Shopping malls, hotels, hospitals, schools, canteens, and similar venues.

Ultra-thin Body, Easy Installation

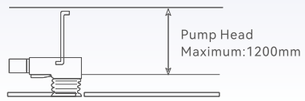
The thickness of the body is only 200mm, can be flexible with the construction of decorative decoration, applicable to a variety of height space installation.

DC Motor: High Efficiency and Low Noise

The high-efficiency brushless DC motor allows for stepless speed control, resulting in quieter operation and a significant improvement in energy-saving performance.

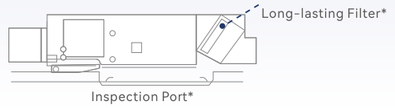
DC Drainage Pump

The head of the pump can reach 1200mm, and the vertical installation height of the unit can be flexibly adjusted, with high engineering adaptability.



Static Eressure 0~30Pa, Can be Connected to the Air Duct, Flexible and Convenient

The indoor unit can be equipped with an optional humidity sensor to achieve automatic and low-temperature dehumidification functions.



Quiet Operation, Comfortable Experience

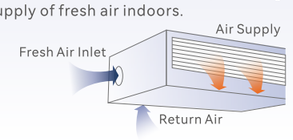
The noise level is as low as 20dB(A). The indoor unit employs advanced noise control technology combined with a new streamlined scroll casing, effectively suppressing and reducing the "refrigerant flow noise" and other noises during system operation. This ensures a comfortable and quiet experience for users.

Flexible and Diverse Installation Options

According to the building and the use of demand, the flexibility to choose different return air and air supply static pressure.

Fresh Air Introduction to Enhance Air Quality

The fresh air interface can be connected to fresh air ducts to introduce outdoor air, ensuring a continuous supply of fresh air indoors.



Self-programming of the Indoor Unit for Customized Control

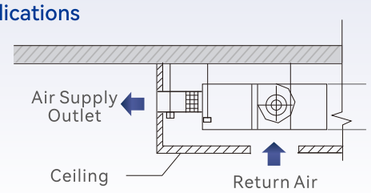
Temperature compensation, cold air prevention temperature, anti-freezing temperature, static pressure (DC motor speed), address setting, expansion valve opening, and more...

Medium Static Pressure Ducted Air Conditioner

Application Scenario Recommendations: Offices, hotels, hospitals, etc.

Selectable Static Pressure for a Wider Range of Applications

80Pa Ultra-high Static Pressure, suitable for long-distance air distribution through multiple ducts, meeting the needs of complex layout spaces and creating a comfortable environment.



Diverse Return Air Methods, Installation Unrestricted

Flexible layout of the most suitable supply and return air methods according to the needs of different places ensures more freedom in installation.

Rear Return Air Method

Bottom Return Air Method

Optimized Duct Design for Longer Air Distribution Distance

Adopting a more optimized, quiet, and high-efficiency duct structure, the unit features optimized fan blade dimensions and scroll outlet angles. This results in a more uniform airflow distribution, increased air volume, higher heat exchange efficiency, and lower noise levels.

Energy-saving Mode, Green and Environmentally Friendly

With a single press, you can select the energy-saving mode, which reduces the capacity demand of the indoor unit and indirectly lowers the output capacity of the outdoor unit. This achieves high-efficiency energy savings and is environmentally friendly.

DC Drainage Pump, High Efficiency and Low Noise

The pump head can reach up to 1200mm, allowing flexible adjustment of the unit's vertical installation height, which enhances its adaptability for various engineering applications.

Self-programming of the Indoor Unit

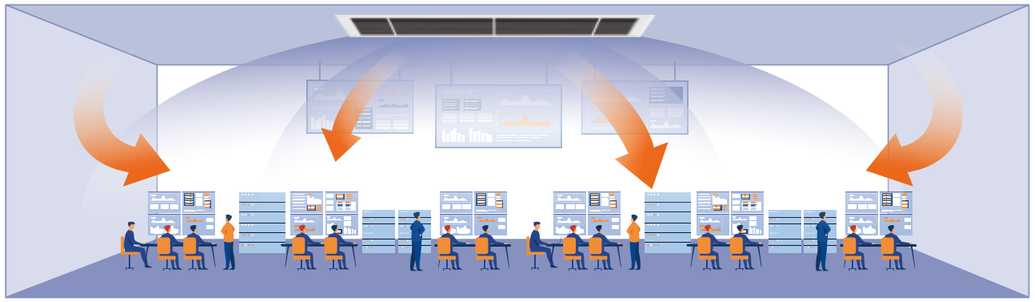
Temperature compensation, cold air prevention temperature, anti-freezing temperature, static pressure (DC motor speed), address setting, expansion valve opening, and more...

High Static Pressure Ducted Air Conditioner

Recommended application scenarios: airports, waiting rooms, gymnasiums, shopping malls, bars, factory buildings, etc.

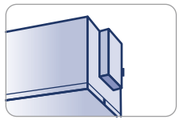
High Static Pressure, Meets Various Needs

The maximum static pressure can reach 400Pa, enabling multi - outlet and long - distance air supply. This meets the air - conditioning requirements of various large - space places, and makes engineering design and application more convenient and faster.



Easy Maintenance

Externally mounted electrical control box design, which can be removed as a whole, making maintenance more convenient.

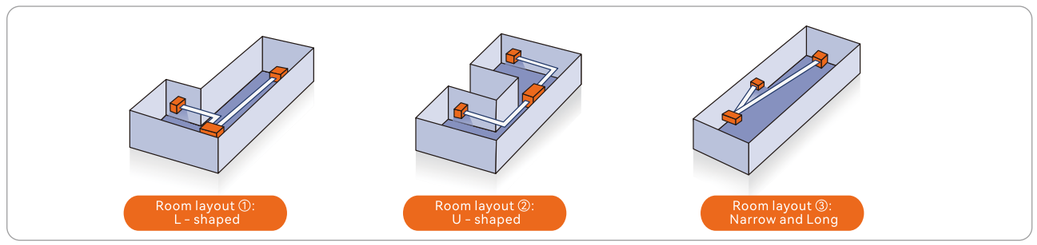


Duct Optimization, Quiet Operation

Through the new structural design of the indoor unit, and the optimized selection of the fan motor and fan blades, the operating noise is reduced, resulting in quieter operation.

Multiple Installation Methods, Choose at Will

The installation method is diverse. It can be flexibly customized according to the house type and user needs, thus meeting the settings of various types of rooms.



Indoor Unit Self - programming

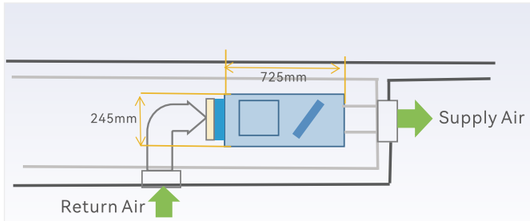
Temperature compensation, anti - cold air temperature, anti - freeze temperature, static pressure (DC motor speed), address setting, expansion valve opening, etc.

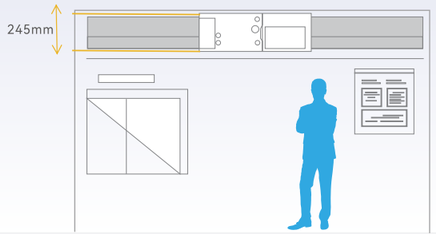
Free Static Pressure Duct Air Conditioner

Recommended application scenarios: shopping malls, hotels, office buildings, large - scale complexes, etc.

Slim Body, Easy to Install

The thickness of the unit is only 245mm. The small size is equipped with a high external static pressure, which can enhance the flexibility of on - site installation and improve the uniformity of the airflow field.





DC Motor, More Energy - saving and Quieter

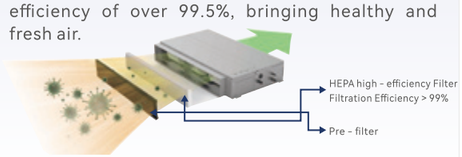
A high - efficiency DC brushless motor achieves stepless speed regulation, enables quieter operation, and significantly enhances energy - saving effects.

Self - adaptive Static Pressure, One - key Adjustment to the Optimal Static Pressure

0 - 160Pa self - adaptive static pressure technology, good adaptability for on - site debugging, it can be installed with a long duct, suitable for occasions requiring long - duct air supply.

High - efficiency HEPA (High - Efficiency Particulate Air) Filter.

Equipped with a medium - to - high - efficiency filter at the return air inlet, it can effectively filter PM2.5, bacteria, and germs, with a removal efficiency of over 99.5%, bringing healthy and fresh air.



*Optional accessory

Equipped with Various Air Outlets

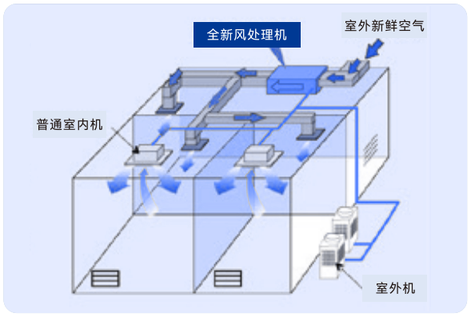
The full range of static pressure can be matched with different air outlets, easily matching various types of decoration styles.

Fresh Air Fan

Recommended application scenarios: airports, gymnasiums, waiting rooms, schools, restaurants, offices, etc.

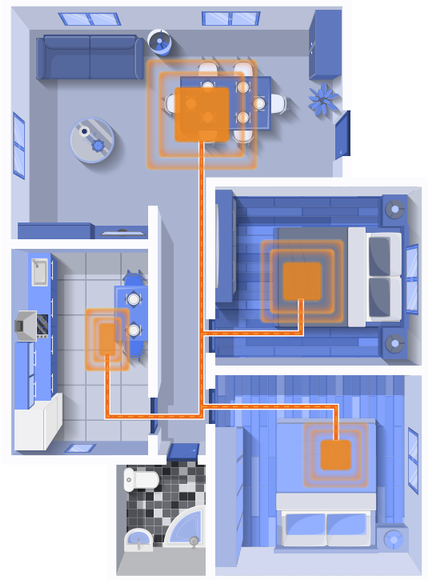
Introduce Outdoor Fresh Air to Improve Indoor Air Quality

The fresh air handling unit can cool or heat the outdoor fresh air to a temperature close to that inside the room. It delivers the fresh air into the room, provides high - quality fresh air, and creates a more fresh and comfortable indoor environment.



Mix and Match, Convenient to Use

The fresh air handling unit can be mixed and matched with conventional multi - split indoor units within the same system, reducing the installation cost of the system. Meanwhile, it can also enhance air quality while controlling indoor temperature.



High Static Pressure Design, Shared by Multiple Rooms

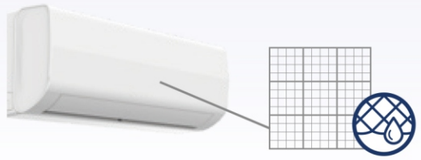
The static pressure can reach up to 500Pa, which facilitates the flexible design of the ductwork. Depending on the layout of the installation site and the user's requirements, the air outlets can be arranged properly. One fresh air unit can serve multiple rooms.

Wall-mounted Air Conditioner

Recommended application scenarios: living rooms, bedrooms, studies, etc.

Filter Washable

Technical features: long - lasting filter, can be disassembled for cleaning, making maintenance and upkeep more relaxed.

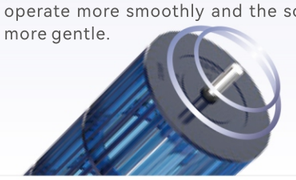


The Panel is Detachable, Making it Easy to Clean

Technical features: The indoor unit panel can be easily removed, making it convenient to clean and keep the indoor unit's appearance clean and new.

Quiet Design, Enjoy Comfort

Technical features: The adoption of a large - diameter through - flow impeller and high - quality plastic - encapsulated motor makes the system operate more smoothly and the sound of the wind more gentle.

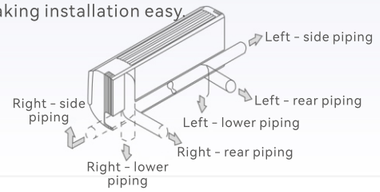


Multiple Protection Functions, Worry - free Operation

Technical features: anti - freeze protection, built - in over - load protection for the fan motor, and abnormal protection of the temperature sensor.

Flexible Installation

Technical features: Wall - mounted installation does not occupy floor space, and there is no need to coordinate with the ceiling. The refrigerant piping routing is flexible and free, making installation easy.



Simple Ddesign, Light Luxury and Elegant

Technical features: The product adopts a minimalist design that caters to trendy needs. It is characterized by a simple shape and can be matched with various types of indoor decorations.

Uniform Airflow Distribution

Through mode setting, various air - directing methods can be provided by the operation of the air - directing blades. The optimal air - directing blade angle and method can be selected according to different seasons. The airflow organization in the entire room is reasonable and uniform, making the use more comfortable.

DC Brushless Motor, High Efficiency and Energy-saving

High-efficiency DC speed-regulating motor, significantly reduces the return air resistance of the indoor unit, higher efficiency, less operating vibration, and lower noise.

Multiple modes are available, thoughtfully meeting customer needs

The unit has functions such as energy-saving mode, silent mode, and sleep mode, which flexibly and conveniently meet users' various usage needs, making the air conditioner more thoughtful to use.

10HP Vertical Cabinet Air Conditioner

Technologically advanced, outstanding performance

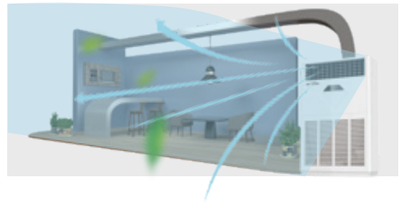
Targeting the pain points of commercial scenarios, such as large areas, high foot traffic, long operating hours, and enclosed environments, this commercial central air conditioning solution is designed specifically for small and medium-sized commercial spaces. It combines flexibility and aesthetics, and offers energy efficiency, stability, and comfortable efficiency.

Small and medium-sized commercial principal spaces

1 Sports Venue
2 Waiting Hall
3 Music/Dance Studio
4 Workshop/Factory

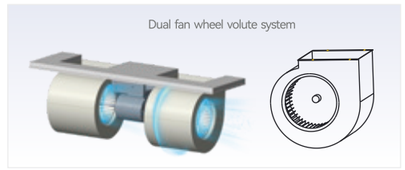
High-precision electronic expansion valve/ temperature sensor

It can sense subtle fluctuations in ambient temperature at any time, precisely regulate the refrigerant flow, and conduct real-time monitoring of both indoor and outdoor units.



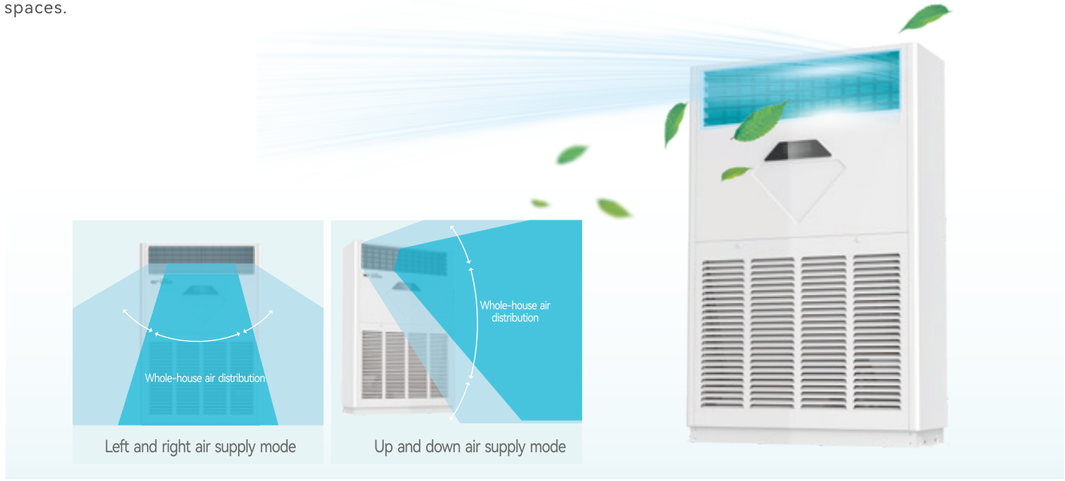
High-efficiency suction-type duct design

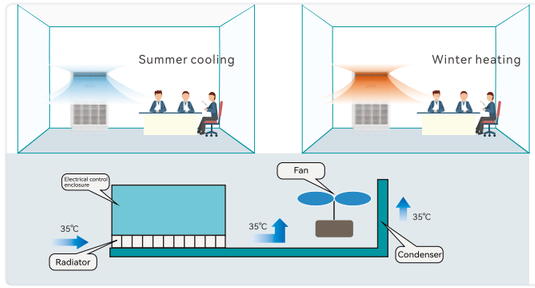
The unique suction-type duct design enables more uniform and sufficient heat dissipation of the heat exchanger. It can not only enhance heat exchange efficiency, but also reduce unit noise.



Ultra-wide range and long-distance air delivery, cooling every corner

The cabinet adopts a wide outlet design, delivering air over long distances and in large volumes. It can meet the cooling and heating needs of every corner of the room in a short time. Its ultra-high airflow easily achieves all-round air delivery in large spaces.

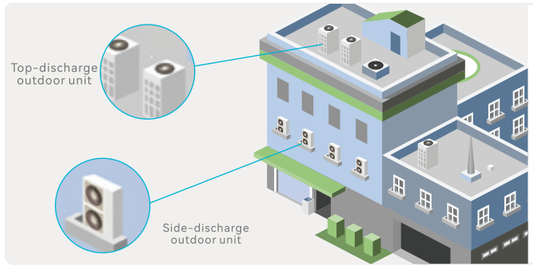




Both cooling and heating are taken into account, ensuring comprehensive comfort

Summer Coolness: The inverter module adopts refrigerant cooling technology, which increases the cooling speed in high-temperature environments by 10%~15% compared to ordinary air conditioners. It fears no high temperatures and better handles scorching weather.

Winter Heating: Under extremely cold conditions of -30℃, the unit can still operate in heating mode, meeting the winter heating needs of most regions in the country.



User-friendly design, flexible installation

① The outdoor unit can be selected to match either a side-discharge or top-discharge model, offering more flexible installation locations.

② The indoor unit is easy to install, with no need for ceiling installation or duct connection. The construction period is short, saving installation costs.

Sleek and high-end in appearance, paired with a stylish large screen

High-end appearance design, the overall style of simple atmosphere, perfect integration into a variety of commercial scenarios; configuration of fashionable LCD screen, ultra-clear display, convenient and smooth control; according to the specific scenarios optional remote control, intimate response to user needs.

A variety of indoor units to meet the various needs of commercial and residential spaces

In the commercial era where every inch of land is worth its weight in gold, how to make the most of space resources is a key factor in seizing business opportunities. The OBAIR HJHV series full DC inverter intelligent central air conditioning offers a wide selection of indoor units. With its ultra-thin body, flexible installation, and small footprint, it expands the actual usable space, giving you an edge in today's highly competitive business landscape.

Name	Appearance	18	22	25	28	32	36	40	45	50	56	63	71	80	90	100	112	125	140	150	160	180	200	224	260	280	335	400	450	505	560
Single-directional airflow ceiling unit HJHV-D(*)Q1-A			●		●		●		●		●		●																		
Two-directional airflow ceiling unit HJHV-D(*)Q2-A			●		●		●		●		●		●	●																	
Standard 360° surround ceiling unit HJHV-(*)Q-A					●		●		●		●		●	●	●	●	●	●	●		●										
Energy-saving 360° surround ceiling unit HJHV-D(*)Q-A					●		●		●		●		●	●	●	●	●	●	●		●										
Standard (0-30Pa) low static pressure ducted unit HJHV-(*)F1-A HJHV-(*)F1/P-A		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●										
Energy-saving (0-50Pa) low static pressure ducted unit HJHV-D(*)F1-A HJHV-D(*)F1/P-A		●	●	●	●	●	●	●	●	●	●	●	●																		
Standard Type (80Pa) Medium Static Pressure Ducted Unit HJHV-(*)F2-A HJHV-(*)F2/P-A													●	●	●	●	●	●	●	●	●										
(0~160Pa) Free Static Pressure Ducted Unit HJHV-D(*)F2-A HJHV-D(*)F2/P-A HJHV-D(*)F2/D(S)-A HJHV-D(*)F2/D(S)P-A													●	●	●	●	●	●	●	●	●	●									
High static pressure ducted unit HJHV-D(*)F3-B																							●	●	●	●	●	●	●	●	●
Wall-mounted air conditioner HJHV-D(*)G-A			●		●	●	●	●	●	●	●	●	●																		
Floor and ceiling dual-purpose air conditioner HJHV-(*)LD-A									●		●		●	●	●	●	●	●	●		●										
Fresh air indoor unit HJHV-D(*)XF-B																			●				●	●	●	●	●	●	●	●	●
10HP Vertical Cabinet Air Conditioner HJHV-(*) L-A HJHV-(*) L/DS-A																									●						

Single-directional airflow ceiling unit

Model			HJHV-D22Q1-A	HJHV-D28Q1-A	HJHV-D36Q1-A	HJHV-D45Q1-A	HJHV-D56Q1-A	HJHV-D71Q1-A
Power Specification			220V~50Hz					
Panel Model			ZP-TQ1-01			ZP-TQ1-02		
Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating Capacity		kW	2.6	3.2	4.0	5.0	6.3	8.0
Rated Power		W	20	20	30	30	30	40
Noise Level		dB(A)	24~33	24~33	28~34	28~35	32~37	34~43
Standard Airflow		m^3/h	430	430	500	650	750	850
Dimensions	Unit (L × W × H)	mm	943×468×245			1254×492×290		
	Panel (L × W × H)	mm	1070×520×50			1380×560×50		
Weight	Unit	kg	23			28.5	30	30
	Panel	kg	3.5			5.35		
Pipe Connection Specification	Gas Pipe	mm	ϕ9.52		ϕ12.7			ϕ15.88
	Liquid Pipe	mm	ϕ6.35					ϕ9.52
	Drain Pipe	mm	DN25					

Two-directional airflow ceiling unit

Model			HJHV-D22Q2-A	HJHV-D28Q2-A	HJHV-D36Q2-A	HJHV-D45Q2-A	HJHV-D56Q2-A	HJHV-D71Q2-A	HJHV-D80Q2-A
Power Specification			220V~50Hz						
Panel Model			ZP-TQ2-01					ZP-TQ2-02	
Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0
Heating Capacity		kW	2.6	3.2	4.0	5.0	6.3	8.0	9.0
Rated Power		W	20	20	30	30	30	40	45
Standard Airflow		m^3/h	430	430	500	650	750	850	950
Noise Level		dB(A)	24~33	24~33	28~34	28~35	32~37	34~43	34~43
Dimensions	Unit (L×W×H)	mm	1036×521×318					1276×521×318	
	Panel (L×W×H)	mm	1180×630×40					1420×630×40	
Weight	Unit	kg	35					41	
	Panel	kg	5					7	
Pipe Connection Specification	Gas Pipe	mm	ϕ9.52		ϕ12.7			ϕ15.88	
	Liquid Pipe	mm	ϕ6.35					ϕ9.52	
	Drain Pipe	mm	DN25					DN25	

Note:
1. The above indoor unit cooling capacity test conditions: Cooling at 35℃ DB/24℃ WB (outdoor), 27℃ DB/19℃ WB (indoor); Heating at 7℃ DB/6℃ WB (outdoor), 20℃ DB/15℃ WB (indoor); Refrigerant piping equivalent length: 5 meters, drop 0 meters.
2. The operating noise listed in this brochure is the value tested in a semi-anechoic chamber. In actual installation conditions, due to the influence of surrounding background noise, there may be slight differences from the values recorded in this brochure.
3. If due to the continuous optimization of the product, some parameters may change. We reserve the right to make changes without prior notice. Please refer to the actual unit nameplate parameters.

Standard 360° Surround Ceiling Unit

AC Model HJHV-(*)Q-A		28	36	45	56	71	80	90	100	112	125	140	160
Cooling Capacity	kW	2.8	3.6	4.5	5.6	7.1	8	9	10	11.2	12.5	14	16
Heating Capacity	kW	3.2	4	5	6.3	8	9	10	11.2	12.5	15	16	18
Power		220V ~ 50Hz											
Rated Power	W	54	54	54	56	84	84	163	163	163	163	163	220
Rated Current	A	0.2	0.2	0.2	0.3	0.4	0.4	0.8	0.8	0.8	0.8	0.8	1.0
Noise Level	dB(A)	25-31		25-32	25-33	28-37		34-43					37-46
Dimensions (L×W×H)	mm	840×840×210						840×840×295					
Quality	kg	20.5			24	25		30					31.5
Airflow	m^3/h	700		750	800	1000		1700					2100
Static Pressure	Pa	0											
Pipe Connection Specification: Gas Pipe	mm	Φ9.52		Φ12.7		Φ15.88							
Pipe Connection Specification: Liquid Pipe	mm	Φ6.35				Φ9.52							
Pipe Connection Specification: Drain Pipe	mm	DN25											
Refrigerant Model		R410a											
Waterproof Rating		IPX4											
Anti-electrocution Protection Type		Class I											
Maximum Working Pressure of the Heat Exchanger	MPa	4.4											

AC Model (With Electric Auxiliary)		HJHV-(*)Q/D-A						HJHV-(*)Q/DS-A					
		28	36	45	56	71	80	90	100	112	125	140	160
Cooling Capacity	kW	2.8	3.6	4.5	5.6	7.1	8	9	10	11.2	12.5	14	16
Heating Capacity	kW	3.2	4	5	6.3	8	9	10	11.2	12.5	15	16	18
Electric Auxiliary Power	W	2000						2500					
Electric Auxiliary Current	A	9						3.8					
Power		220V ~ 50Hz						380V 3N ~ /50Hz					
Rated Power	W	54	54	54	56	84	84	163	163	163	163	163	220
Rated Current	A	0.2	0.2	0.2	0.3	0.4	0.4	0.8	0.8	0.8	0.8	0.8	1
Noise Level	dB(A)	25-31		25-32	25-33	28-37		34-43					37-46
Dimensions (L×W×H)	mm	840×840×210						840×840×295					
Quality	kg	21.5			25	26		31					32.5
Airflow	m^3/h	700		750	800	1000		1700					2100
Static Pressure	Pa	0											
Pipe Connection Specification: Gas Pipe	mm	Φ9.52		Φ12.7		Φ15.88							
Pipe Connection Specification: Liquid Pipe	mm	Φ6.35				Φ9.52							
Pipe Connection Specification: Drain Pipe	mm	DN25											
Refrigerant Model		R410a											
Waterproof Rating		IPX4											
Anti-electrocution Protection Type		Class I											
Maximum Working Pressure of the Heat Exchanger	MPa	4.4											

Note:
1. The above indoor unit cooling capacity test conditions: Cooling at 35℃ DB/24℃ WB (outdoor), 27℃ DB/19℃ WB (indoor); Heating at 7℃ DB/6℃ WB (outdoor), 20℃ DB/15℃ WB (indoor); Refrigerant piping equivalent length: 5 meters, drop 0 meters.
2. The operating noise listed in this brochure is the value tested in a semi-anechoic chamber. In actual installation conditions, due to the influence of surrounding background noise, there may be slight differences from the values recorded in this brochure.
3. If due to the continuous optimization of the product, some parameters may change. We reserve the right to make changes without prior notice. Please refer to the actual unit nameplate parameters.

Energy-saving 360° Surround Ceiling Unit

DC Model HJHV-D(*)Q-A		28	36	45	56	71	80	90	100	112	125	140	160
Cooling Capacity	kW	2.8	3.6	4.5	5.6	7.1	8	9	10	11.2	12.5	14	16
Heating Capacity	kW	3.2	4	5	6.3	8	9	10	11.2	12.5	15	16	18
Power		220V ~ 50Hz											
Rated Power	W	17	17	22	22	32	32	50	50	70	78	78	170
Rated Current	A	0.1	0.1	0.15	0.15	0.2	0.2	0.25	0.25	0.35	0.4	0.4	0.86
Noise Level	dB(A)	25-30		25-32		28-37		29-38		33-41	34-43		37-46
Dimensions (L×W×H)	mm	840×840×210						840×840×295					
Quality	kg	20.5			24	25		30					31.5
Airflow	m^3/h	650	700	750		1000		1300		1500	1700		2100
Static Pressure	Pa	0											
Pipe Connection Specification: Gas Pipe	mm	Φ9.52		Φ12.7		Φ15.88							
Pipe Connection Specification: Liquid Pipe	mm	Φ6.35				Φ9.52							
Pipe Connection Specification: Drain Pipe	mm	DN25											
Refrigerant Model		R410a											
Waterproof Rating		IPX4											
Anti-electrocution Protection Type		Class I											
Maximum Working Pressure of the Heat Exchanger	MPa	4.4											

AC Model (With Electric Auxiliary)		HJHV-D(*)Q/D-A						HJHV-D(*)Q/DS-A					
		28	36	45	56	71	80	90	100	112	125	140	160
Cooling Capacity	kW	2.8	3.6	4.5	5.6	7.1	8	9	10	11.2	12.5	14	16
Heating Capacity	kW	3.2	4	5	6.3	8	9	10	11.2	12.5	15	16	18
Electric Auxiliary Power	W	2000						2500					
Electric Auxiliary Current	A	9						3.8					
Power		220V ~ 50Hz						380V 3N ~ /50Hz					
Rated Power	W	17	17	22	22	32	32	50	50	70	78	78	170
Rated Current	A	0.1	0.1	0.15	0.15	0.2	0.2	0.25	0.25	0.35	0.4	0.4	0.86
Noise Level	dB(A)	25-30		25-32		28-37		29-38		33-41	34-43		37-46
Dimensions (L×W×H)	mm	840×840×210						840×840×295					
Quality	kg	21.5			25	26		31					32.5
Airflow	m^3/h	650	700	750		1000		1300		1500	1700		2100
Static Pressure	Pa	0											
Pipe Connection Specification: Gas Pipe	mm	Φ9.52		Φ12.7		Φ15.88							
Pipe Connection Specification: Liquid Pipe	mm	Φ6.35				Φ9.52							
Pipe Connection Specification: Drain Pipe	mm	DN25											
Refrigerant Model		R410a											
Waterproof Rating		IPX4											
Anti-electrocution Protection Type		Class I											
Maximum Working Pressure of the Heat Exchanger	MPa	4.4											

Note:
1. The above indoor unit cooling capacity test conditions: Cooling at 35℃ DB/24℃ WB (outdoor), 27℃ DB/19℃ WB (indoor); Heating at 7℃ DB/6℃ WB (outdoor), 20℃ DB/15℃ WB (indoor); Refrigerant piping equivalent length: 5 meters, drop 0 meters.
2. The operating noise listed in this brochure is the value tested in a semi-anechoic chamber. In actual installation conditions, due to the influence of surrounding background noise, there may be slight differences from the values recorded in this brochure.
3. If due to the continuous optimization of the product, some parameters may change. We reserve the right to make changes without prior notice. Please refer to the actual unit nameplate parameters.

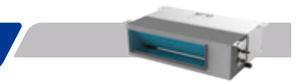
360° Surround Ceiling Unit (Intelligent Type)

DC Model HJHV-D(*)Q-B		28	36	45	56	71	80	90	100	112	125	140	160
Cooling Capacity	kW	2.8	3.6	4.5	5.6	7.1	8	9	10	11.2	12.5	14	16
Heating Capacity	kW	3.2	4	5	6.3	8	9	10	11.2	12.5	15	16	18
Power		220V ~ 50Hz											
Rated Power	W	17	17	22	22	32	32	50	50	70	78	78	170
Rated Current	A	0.1	0.1	0.15	0.15	0.2	0.2	0.25	0.25	0.35	0.4	0.4	0.86
Noise Level	dB(A)	25-30		25-32		28-37		29-38		33-41	34-43		37-46
Dimensions (L×W×H)	mm	840×840×210						840×840×295					
Quality	kg	20.5			24	25		30					31.5
Airflow	m^3/h	650	700	750		1000		1300		1500	1700		2100
Static Pressure	Pa	0											
Connection Pipe Specification – Gas Pipe	mm	Φ9.52	Φ12.7			Φ15.88							
Connection Pipe Specification – Liquid Pipe	mm	Φ6.35				Φ9.52							
Connection Pipe Specification – Drain Pipe	mm	DN25											
Refrigerant Model		R410a											
Waterproof Rating		IPX4											
Anti-electrocution Protection Type		Class I											
Maximum Working Pressure of the Heat Exchanger	MPa	4.4											

DC Model (With Electric Auxiliary)		HJHV-D(*)Q/D-B						HJHV-D(*)Q/DS-B					
		28	36	45	56	71	80	90	100	112	125	140	160
Cooling Capacity	kW	2.8	3.6	4.5	5.6	7.1	8	9	10	11.2	12.5	14	16
Heating Capacity	kW	3.2	4	5	6.3	8	9	10	11.2	12.5	15	16	18
Electric Auxiliary Power	W	2000						2500					
Electric Auxiliary Current	A	9						3.8					
Power		220V ~ 50Hz						380V 3N ~ /50Hz					
Rated Power	W	17	17	22	22	32	32	50	50	70	78	78	170
Rated Current	A	0.1	0.1	0.15	0.15	0.2	0.2	0.25	0.25	0.35	0.4	0.4	0.86
Noise Level	dB(A)	25-30		25-32		28-37		29-38		33-41	34-43		37-46
Dimensions (L×W×H)	mm	840×840×210						840×840×295					
Quality	kg	21.5			25	26		31					32.5
Airflow	m^3/h	650	700	750		1000		1300		1500	1700		2100
Static Pressure	Pa	0											
Connection Pipe Specification – Gas Pipe	mm	Φ9.52	Φ12.7			Φ15.88							
Connection Pipe Specification – Liquid Pipe	mm	Φ6.35				Φ9.52							
Connection Pipe Specification – Drain Pipe	mm	DN25											
Refrigerant Model		R410a											
Waterproof Rating		IPX4											
Anti-electrocution Protection Type		Class I											
Maximum Working Pressure of the Heat Exchanger	MPa	4.4											

Note:
1. The above indoor unit cooling capacity test conditions: Cooling at 35℃ DB/24℃ WB (outdoor), 27℃ DB/19℃ WB (indoor); Heating at 7℃ DB/6℃ WB (outdoor), 20℃ DB/15℃ WB (indoor); Refrigerant piping equivalent length: 5 meters, drop 0 meters.
2. The operating noise listed in this brochure is the value tested in a semi-anechoic chamber. In actual installation conditions, due to the influence of surrounding background noise, there may be slight differences from the values recorded in this brochure.
3. If due to the continuous optimization of the product, some parameters may change. We reserve the right to make changes without prior notice. Please refer to the actual unit nameplate parameters.

Low Static Pressure Slim Ducted Unit (Standard Type)

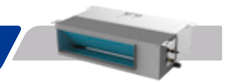


Model	HJHV-(*)F1-A	18	22	25	28	32	36	40	45	50	56	63	71
	HJHV-(*)F1/P-A	18	22	25	28	32	36	40	45	50	56	63	71
Cooling Capacity	kW	1.8	2.2	2.5	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1
Heating Capacity	kW	2.2	2.6	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1	8
Power		220V ~ 50Hz											
Rated Current	A	0.3				0.4		0.4				0.6	
Rated Power	W	55				90		93				132	
Noise Level	dB(A)	22 ~ 30				25 ~ 31		27 ~ 33		29 ~ 35		30 ~ 36	
Dimensions (L×W×H)	mm	700×450×200						1010×450×200				1310×450×200	
Air Outlet Size	mm	530×150						840×150				1140×150	
Return Air Inlet Size	mm	600×175						910×175				1210×175	
Quality	kg	16.5						23				27	
Airflow	m^3/h	450				580		750				1100	
Static Pressure	Pa	0 ~ 30											
Connection Pipe Specification – Gas Pipe	mm	Φ9.52				Φ12.7						Φ15.88	
Connection Pipe Specification – Liquid Pipe	mm	Φ6.35										Φ9.52	
Connection Pipe Specification – Drain Pipe	mm	DN25											
Refrigerant Model		R410A											
Waterproof Rating		IPX4											
Anti-electrocution Protection Type		Class I											
Maximum Working Pressure of the Heat Exchanger	MPa	4.4											

Model	HJHV-(*)F1/D-A	18	22	25	28	32	36	40	45	50	56	63	71
	HJHV-(*)F1/DP-A	18	22	25	28	32	36	40	45	50	56	63	71
Cooling Capacity	kW	1.8	2.2	2.5	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1
Heating Capacity	kW	2.2	2.6	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1	8
Power		220V ~ 50Hz											
Electric Auxiliary Current	A	4						8				9	
Electric Auxiliary Power	kW	0.88						1.75				1.99	
Rated Current	A	0.3				0.4		0.4				0.6	
Rated Power	W	55				90		93				132	
Noise Level	dB(A)	22 ~ 30				25 ~ 31		27 ~ 33		29 ~ 35		30 ~ 36	
Dimensions (L×W×H)	mm	700×450×200						1010×450×200				1310×450×200	
Air Outlet Size	mm	530×150						840×150				1140×150	
Return Air Inlet Size	mm	600×175						910×175				1210×175	
Quality	kg	17.5						24.5				28.5	
Airflow	m^3/h	450				580		750				1100	
Static Pressure	Pa	0 ~ 30											
Connection Pipe Specification – Gas Pipe	mm	Φ9.52				Φ12.7						Φ15.88	
Connection Pipe Specification – Liquid Pipe	mm	Φ6.35										Φ9.52	
Connection Pipe Specification – Drain Pipe	mm	DN25											
Refrigerant Model		R410A											
Waterproof Rating		IPX4											
Anti-electrocution Protection Type		Class I											
Maximum Working Pressure of the Heat Exchanger	MPa	4.4											

Note:
1. The above indoor unit cooling capacity test conditions: Cooling at 35℃ DB/24℃ WB (outdoor), 27℃ DB/19℃ WB (indoor); Heating at 7℃ DB/6℃ WB (outdoor), 20℃ DB/15℃ WB (indoor); Refrigerant piping equivalent length: 5 meters, drop 0 meters.
2. The operating noise listed in this brochure is the value tested in a semi-anechoic chamber. In actual installation conditions, due to the influence of surrounding background noise, there may be slight differences from the values recorded in this brochure.
3. If due to the continuous optimization of the product, some parameters may change. We reserve the right to make changes without prior notice. Please refer to the actual unit nameplate parameters.

Low Static Pressure Slim Ducted Air Conditioner (Energy-saving Type)



Model	HJHV-D(*)F1-A		18	22	25	28	32	36	40	45	50	56	63	71
	HJHV-D(*)F1/P-A		18	22	25	28	32	36	40	45	50	56	63	71
Cooling Capacity		kW	1.8	2.2	2.5	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1
Heating Capacity		kW	2.2	2.6	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1	8
Power			220V ~ 50Hz											
Rated Current		A	0.22				0.24		0.33				0.55	
Rated Power		W	21				24		36				55	
Noise Level		dB(A)	22 ~ 30				25 ~ 31		27 ~ 33		29 ~ 35		30 ~ 36	
Dimensions (L×W×H)		mm	700×450×200						1010×450×200				1310×450×200	
Air Outlet Size		mm	530×150						840×150				1140×150	
Return Air Inlet Size		mm	600×175						910×175				1210×175	
Quality		kg	16.5						23				27	
Airflow		m³/h	450				580		750				1100	
Static Pressure		Pa	0 ~ 50											
Pipe Specification Connection	Gas Pipe	mm	Φ9.52				Φ12.7						Φ15.88	
	Liquid Pipe	mm	Φ6.35										Φ9.52	
	Drain Pipe	mm	DN25											
Refrigerant Model			R410A											
Waterproof Rating			IPX4											
Anti-electrocution Protection Type			Class I											
Maximum Working Pressure of the Heat Exchanger		MPa	4.4											

Standard Low Static Pressure Ducted Unit

Model	HJHV-(*)F1-A		80	90	100	112	125	140	150	160
	HJHV-(*)F1/P-A		80	90	100	112	125	140	150	160
Cooling Capacity		kW	8	9	10	11.2	12.5	14	15	16
Heating Capacity		kW	9	10	11.2	12.5	15	16	17	18
Power			220V ~ 50Hz							
Rated Current		W	130	165			220			
Rated Power		A	0.6	0.75			1			
Noise Level		dB(A)	29~40	35~42			35~43			
Airflow		m³/h	1200	1700			2000			
Dimensions (L×W×H)		mm	1000×725×245	1400×725×245						
Air Outlet Size		mm	812 × 178	1212×178						
Return Air Inlet Size		mm	875 ×206	1275×206						
Net Weight		kg	35	43						
Pipe Specification Connection	Static Pressure	Pa	30	30						
	Gas Pipe	mm	Φ15.88							
	Liquid Pipe	mm	Φ9.52							
Drain Pipe		mm	DN25							
Refrigerant Model			R410A							

Note:
1. The above indoor unit cooling capacity test conditions: Cooling at 35℃ DB/24℃ WB (outdoor), 27℃ DB/19℃ WB (indoor); Heating at 7℃ DB/6℃ WB (outdoor), 20℃ DB/15℃ WB (indoor); Refrigerant piping equivalent length: 5 meters, drop 0 meters.
2. The operating noise listed in this brochure is the value tested in a semi-anechoic chamber. In actual installation conditions, due to the influence of surrounding background noise, there may be slight differences from the values recorded in this brochure.
3. If due to the continuous optimization of the product, some parameters may change. We reserve the right to make changes without prior notice. Please refer to the actual unit nameplate parameters.

Standard Type Medium Static Pressure Ducted Unit

Indoor Unit Model		HJHV-71F2-A	HJHV-80F2-A	HJHV-90F2-A	HJHV-100F2-A	HJHV-112F2-A	HJHV-125F2-A	HJHV-140F2-A	HJHV-150F2-A	HJHV-160F2-A
		HJHV-71F2/P-A	HJHV-80F2/P-A	HJHV-90F2/P-A	HJHV-100F2/P-A	HJHV-112F2/P-A	HJHV-125F2/P-A	HJHV-140F2/P-A	HJHV-150F2/P-A	HJHV-160F2/P-A
Cooling Capacity	kW	7.1	8	9	10	11.2	12.5	14	15	16
Heating Capacity	kW	8	9	10	11.2	12.5	15	16	17	18
Power		220V ~ 50Hz								
Rated Current	A	1.1		0.9			1.3			
Rated Power	W	150		200			280			
Noise Level	dB(A)	37-40		40-42			41-43			
Dimensions (L×W×H)	mm	1000×725×245		1400×725×245						
Air Outlet Size	mm	812×178		1212×178						
Return Air Inlet Size	mm	875×206		1275×206						
Net Weight	kg	35		43						
Airflow	m³/h	1200		1700			2000			
Static Pressure	Pa	80								
Pipe Specification Connection	Gas Pipe	mm	Φ15.88							
	Liquid Pipe	mm	Φ9.52							
	Drain Pipe	mm	DN25							
Refrigerant Model		R410A								

Indoor Unit Model		HJHV-71F2/D-A	HJHV-80F2/D-A	HJHV-90F2/DS-A	HJHV-100F2/DS-A	HJHV-112F2/DS-A	HJHV-125F2/DS-A	HJHV-140F2/DS-A	HJHV-150F2/DS-A	HJHV-160F2/DS-A
Cooling Capacity	kW	7.1	8	9	10	11.2	12.5	14	15	16
Heating Capacity	kW	8	9	10	11.2	12.5	15	16	17	18
Power		220V ~ 50Hz		380V 3N ~ /50Hz						
Rated Current	A	1.1		0.9			1.3			
Rated Power	W	150		200			280			
电辅热电流	A	10		5.7						
电辅热功率	W	2200		3300						
Noise Level	dB(A)	37-40		40-42			41-43			
Dimensions (L×W×H)	mm	1000×725×245		1400×725×245						
Air Outlet Size	mm	812×178		1212×178						
Return Air Inlet Size	mm	875×206		1275×206						
Net Weight	kg	36		44						
Airflow	m³/h	1200		1700			2000			
Static Pressure	Pa	80								
Pipe Specification Connection	Gas Pipe	mm	Φ15.88							
	Liquid Pipe	mm	Φ9.52							
	Drain Pipe	mm	DN25							
Refrigerant Model		R410A								

Note:
1. The above indoor unit cooling capacity test conditions: Cooling at 35℃ DB/24℃ WB (outdoor), 27℃ DB/19℃ WB (indoor); Heating at 7℃ DB/6℃ WB (outdoor), 20℃ DB/15℃ WB (indoor); Refrigerant piping equivalent length: 5 meters, drop 0 meters.
2. The operating noise listed in this brochure is the value tested in a semi-anechoic chamber. In actual installation conditions, due to the influence of surrounding background noise, there may be slight differences from the values recorded in this brochure.
3. If due to the continuous optimization of the product, some parameters may change. We reserve the right to make changes without prior notice. Please refer to the actual unit nameplate parameters.

Free Static Pressure Ducted Unit

Model	HJHV-D(*)F2-A	71	80	90	100	112	125	140	150	160	180
	HJHV-D(*)F2/P-A	71	80	90	100	112	125	140	150	160	180
Cooling Capacity	kW	7.1	8	9	10	11.2	12.5	14	15	16	18
Heating Capacity	kW	8	9	10	11.2	12.5	15	16	17	18	20
Power		220V ~ 50Hz									
Rated Current	A	0.7	0.75	0.85	0.98	1.01	1.13	1.26	1.55	1.55	1.85
Rated Power	W	80	90	110	130	138	155	170	210	210	260
Noise Level	dB(A)	27~37	27~37.5	28~38	29~38.5	29~39	30~40	30~40	30~40	32~42	35~45
Dimensions (L×W×H)	mm	1000×725×245				1400×725×245					
Air Outlet Size	mm	812×178				1212×178					
Return Air Inlet Size	mm	875×206				1275×206					
Net Weight	kg	34.5	34.5	35	35	42	43	43	43	43	45
Airflow	m^3/h	1100	1200	1500	1600	1700	1800	2000	2200	2200	2400
Static Pressure	Pa	30 (0~160)									
Connection Pipe Gas Side/Liquid Side	mm	Φ15.88/Φ9.52									
Drain Pipe	mm	DN25									
Refrigerant Model	/	R410A									

Model		HJHV-D(*)F2/D-A				HJHV-D(*)F2/DS-A					
		HJHV-D(*)F2/DP-A				HJHV-D(*)F2/DSP-A					
		71	80	90	100	112	125	140	150	160	180
Cooling Capacity	kW	7.1	8	9	10	11.2	12.5	14	15	16	18
Heating Capacity	kW	8	9	10	11.2	12.5	15	16	17	18	20
Power		220V ~ 50Hz				380V/3N ~ /50HZ					
Rated Current	A	0.7	0.75	0.85	0.98	1.01	1.13	1.26	1.55	1.55	1.85
Rated Power	W	80	90	110	130	138	155	170	210	210	260
Rated Input Current of Electric Auxiliary Heating	A	10	10	10	10	5.7	5.7	5.7	5.7	5.7	5.7
Rated Input Power of Electric Auxiliary Heating	W	2200	2200	2200	2200	3300	3300	3300	3300	3300	3300
Noise Level	dB(A)	27~37	27~37.5	28~38	28~38.5	29~39	30~40	30~40	30~40	32~42	35~45
Dimensions (L×W×H)	mm	1000×725×245				1400×725×245					
Air Outlet Size	mm	812×178				1212×178					
Return Air Inlet Size	mm	875×206				1275×206					
Net Weight	kg	34.5	34.5	34.5	34.5	43	43	43	43	43	45
Airflow	m^3/h	1100	1200	1500	1600	1700	1800	2000	2200	2200	2400
Static Pressure	Pa	30 (0~160)									
Connection Pipe Gas Side/Liquid Side	mm	Φ15.88/Φ9.52									
Drain Pipe	mm	DN25									
Refrigerant Model	/	R410A									

Note:
1. The above indoor unit cooling capacity test conditions: Cooling at 35℃ DB/24℃ WB (outdoor), 27℃ DB/19℃ WB (indoor); Heating at 7℃ DB/6℃ WB (outdoor), 20℃ DB/15℃ WB (indoor); Refrigerant piping equivalent length: 5 meters, drop 0 meters.
2. The operating noise listed in this brochure is the value tested in a semi-anechoic chamber. In actual installation conditions, due to the influence of surrounding background noise, there may be slight differences from the values recorded in this brochure.
3. If due to the continuous optimization of the product, some parameters may change. We reserve the right to make changes without prior notice. Please refer to the actual unit nameplate parameters.

High Static Pressure Ducted Unit

Model HJHV-D(*)F3-B		200	224	260	280	335	400	450	505	560
Cooling Capacity	kW	20	22.4	26	28	33.5	40	45	50.5	56
Heating Capacity	kW	26.4	27.4	28.5	31.5	37.5	45	50	56	63
Power		220V ~ 50Hz								
Rated Current	A	4.8	4.8	6.6	7.3	8.2	11.4	13.7	16.5	17.5
Rated Power	W	580	580	800	900	1000	1450	1750	2000	2250
Airflow	m^3/h	3500	3500	4000	4500	5000	6500	7000	7400	7800
Weight	kg	122	122	122	130	130	191	191	202	202
Static Pressure	Pa	0~250	0~250	0~250	0~250	0~250	50~400	50~400	50~400	50~400
Noise Level	dB(A)	50~54	50~54	50~54	51~55	52~56	53~57	52~56	54~58	55~59
Air Outlet Size	mm	919×351					1257 × 348			
Return Air Inlet Size	mm	1120×401					1599 × 521			
Maximum Input Current of Indoor Unit	A	8.2	8.2	9	9.5	12.5	16.8	19.4	21.7	23.3
Maximum Input Power of Indoor Unit	W	1000	1000	1100	1200	1500	2200	2500	2800	3000
Dimensions(L×W×H)	mm	1540×902×542					2035 × 940 × 672			
Connection Pipe Gas Side/Liquid Side	mm	Φ22.2/Φ9.52					Φ28.6/Φ15.88			
Drain Pipe	mm	DN25								
Refrigerant Model		R410A								

Wall-mounted Indoor Unit

Model HJHV-D(*)G-A		22	28	32	36	40	45	50	56	63	71	80
Power		220V ~ 50Hz										
Cooling Capacity	kW	2.2	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1	8
Heating Capacity	kW	2.6	3.2	3.6	4	4.5	5	5.6	6.3	7.1	8	8.8
Rated Current	A	0.05		0.06		0.1		0.15		0.2		
Rated Power	W	10	11	13		20	25	30		40		
Noise Level	dB(A)	24~33		28~35			28~36	32~39		33.5~43		
Airflow	m^3/h	400	450	530		560	670	750		850		
Dimensions(L×W×H)	mm	805×295×198				990×316×219						
Weight	kg	9.5				11.8						
Connection Pipe Specification	Liquid Pipe	mm	Φ6.35								Φ9.52	
	Gas Pipe	mm	Φ9.52		Φ12.7						Φ15.88	
	Drain Pipe	mm	DN20									

Note:
1. The above indoor unit cooling capacity test conditions: Cooling at 35℃ DB/24℃ WB (outdoor), 27℃ DB/19℃ WB (indoor); Heating at 7℃ DB/6℃ WB (outdoor), 20℃ DB/15℃ WB (indoor); Refrigerant piping equivalent length: 5 meters, drop 0 meters.
2. The operating noise listed in this brochure is the value tested in a semi-anechoic chamber. In actual installation conditions, due to the influence of surrounding background noise, there may be slight differences from the values recorded in this brochure.
3. If due to the continuous optimization of the product, some parameters may change. We reserve the right to make changes without prior notice. Please refer to the actual unit nameplate parameters.

Floor and Ceiling Dual-purpose Air Conditioner

Model HJHV-D(*)LD-A		45	56	71	80	90	100	112	125	140	160
Cooling Capacity	kW	4.5	5.6	7.1	8	9	10	11.2	12.5	14	16
Heating Capacity	kW	5	6.3	8	9	10	11.2	12.5	15	17	18
Airflow	m^3/h	1000	1000	1100	1200	1500	1600	1700	1800	2000	2200
Rated Power	W	90	90	96	100	110	130	138	155	170	210
Rated Current	A	0.7	0.7	0.77	0.8	0.85	0.98	1.01	1.13	1.26	1.55
Power		220V/50Hz									
Noise Level	dB(A)	27~37	27~37	27~37	27~37.5	28~38	29~38.5	29~39	30~40	30~40	32~42
Net Weight	kg	24	24	25	25	29	29	29	38	38	38
Dimensions(L×W×H)	mm	1055×675×235				1275×675×235			1635×675×235		
Connecting Pipe – Liquid Pipe	mm	ϕ6.35				ϕ9.52					
Connecting Pipe – Gas Pipe	mm	ϕ12.7				ϕ15.88					
Connecting Pipe – Drain Pipe	mm	DN25									

Fresh Air Indoor Unit

Model HJHV-D*XF-B		140	200	224	260	280	335	400	450	505	560
Power		220V~50Hz									
Refrigerant Model		R410A									
Cooling Capacity	kW	14	20	22.4	26	28	33.5	40	45	50.5	56
Heating Capacity	kW	10	16	17	19	20	26.4	26.8	27.8	32	39.5
Rated Current	A	1.35	4.1	4.1	5.7	6.5	7.3	8.1	8.1	14.6	15.9
Rated Power	W	180	500	500	700	800	900	1000	1000	1800	1950
Maximum Input Current	A	2	8.2	8.2	9	9.5	12.5	12.5	12.5	21.7	23.3
Maximum Input Power	W	270	1000	1000	1100	1200	1500	1500	1500	2800	3000
Standard Air Volume	m^3/h	1500	2200	2200	2500	3000	3500	4000	4000	5000	7000
Static Pressure Range	Pa	60~200	0~300	0~300	0~300	0~300	0~300	0~300	0~300	50~400	100~450
Noise Level	dB(A)	41~45	49~53	49~53	49~53	50~54	51~55	51.5~55.5	52~56	53~57	54~58
Weight	kg	43	122					130		180	
Supply Air Outlet Size	mm	1212×178	919×351							1257×348	
Return Air Inlet Size	mm	1275×206	1120×401							1599×521	
Dimensions(L×W×H)	mm	1480×725×245	1540×902×542							2035×940×672	
Gas Pipe/Liquid Pipe	mm	Φ15.88/9.52	Φ22.2/9.52					Φ28.6/15.88			

10HP Vertical Cabinet Air Conditioner

Model		HJHV-260L/DS-A	HJHV-260L-A
Power	/	380V 3N~50Hz	220V ~50Hz
Refrigerant Model	/	R410A	R410A
Cooling Capacity	kW	26	26
Heating Capacity	kW	28.2+6	28.2
Rated Current/Power of Indoor Unit	A/W	2.5/550	2.5/550
Connection Pipe Diameter	mm	ϕ9.52/22.2	ϕ9.52/22.2
Rated Input Current of Electric Auxiliary Heating	A	9.1	/
Rated Input Power of Electric Auxiliary Heating	W	6000	/
Circulation Air Volume	m^3/h	4000	4000
External Static Pressure	Pa	0	0
Noise Level	dB(A)	56~60	56~60
Net Weight	kg	139	135
Maximum Working Pressure of Heat Exchanger	MPa	4.4	4.4
Dimensions(L×W×H)	mm	1200×420×1850	1200×420×1850

Outdoor Unit Lineup

The OBAIR HJHV series super variable frequency multi-linked unit boasts both independent and modular outdoor units. Among them, the modular outdoor units cover a capacity range of 8 to 40 horsepower (HP), and can be freely combined within four units, with the combined capacity able to cover 8 to 160 HP after combination; the independent outdoor units, covering a capacity range of 8 to 40 HP, are more flexible and convenient, meeting the diverse needs of engineering projects.

Host Parameters

Model HJHV-(*)WD/SAM-A			255	285	335	400	450	505	560	615
HP (Horsepower)			8	10	12	14	16	18	20	22
Rated Power Supply			3N~380V 50Hz							
Rated Cooling Capacity		kW	25.5	28.5	33.5	40	45	50.5	56	61.5
Rated Heating Capacity		kW	27.4	31.5	37.5	45	50	56	63	69
Cooling	Rated Operating Current of Outdoor Unit	A	9.05	11.39	13.11	17.46	20.3	22.65	26.1	29.6
	Rated Input Power of Outdoor Unit	W	5350	6700	8100	10350	12100	13400	15500	17600
Heating	Rated Operating Current of Outdoor Unit	A	9.01	11.3	13.27	17.88	20.25	22.65	25.7	28.4
	Rated Input Power of Outdoor Unit	W	5300	6650	8200	10600	12000	13400	15200	16800
Maximum Operating Current of Outdoor Unit		A	23.1	24.6	25.5	30.8	31.7	37.2	41.1	42.1
Maximum Input Power of Outdoor Unit		W	13400	14300	14800	18300	18800	22000	24400	25000
Maximum Working Pressure on Discharge/Suction Side		MPa	4.5/1.6							
Maximum Permissible Pressure on High/Low Pressure Side		MPa	4.5/4.5							
Maximum Working Pressure of Heat Exchanger		MPa	4.5							
Noise		dB(A)	≤56	≤57	≤59			≤60	≤63	≤63
APF		Wh/Wh	5.75	5.45	5.35	5.0	4.9	4.85	4.9	4.75
IPLV(C)		W/W	10.0	9.80	9.65	9.5	9.3	9.2	8.9	8.8
Compressor Type		/	Enhanced Vapor Injection (EVI) DC Inverter Scroll Compressor							
Net Weight		kg	207.5			216.5		274.5	280.5	
Dimensions (L×W×H)		mm	990*1772*846					1356*1772*846		
Refrigerant	Type	/	R410A							
	Throttling Method	/	Throttling by Electronic Expansion Valve							
	Refrigerant Charge	kg	6			8		8.5	9.5	9.5
Operating Range	Cooling	℃	-15℃-55℃							
	Heating	℃	-30℃-30℃							
Connecting Pipe	Liquid Pipe	mm	ϕ12.7	ϕ12.7	ϕ12.7	ϕ16	ϕ16	ϕ16	ϕ16	ϕ16
	Gas Pipe	mm	ϕ22	ϕ22	ϕ22	ϕ28	ϕ28	ϕ28	ϕ28	ϕ28
	Connection Method	/	Welding							
Airflow		m^3/h	13000	13000	14500	15600	15600	18000	19000	19000

Model HJHV-(*)WD/SAM-A			685	735	785	850	900	955	1010	1060	1120
HP (Horsepower)			24	26	28	30	32	34	36	38	40
Rated Power Supply			3N~380V 50Hz								
Rated Cooling Capacity		kW	68.5	73.5	78.5	85	90	95.5	101	106	112
Rated Heating Capacity		kW	75	81.5	88	95	100	106	112	119	123.5
Cooling	Rated Operating Current of Outdoor Unit	A	30.10	31.90	34.56	38.26	41.29	43.32	46.79	51.28	53.80
	Rated Input Power of Outdoor Unit	W	17900	18970	20550	22750	24550	25760	27820	30490	31990
Heating	Rated Operating Current of Outdoor Unit	A	29.58	32.42	35.15	38.70	40.27	43.39	45.95	49.97	53.55
	Rated Input Power of Outdoor Unit	W	17500	19180	20790	22890	23820	25670	27180	29560	31680
Maximum Operating Current of Outdoor Unit		A	42.93	43.78	49.67	59.78	61.50	67.36	69.04	70.70	71.55
Maximum Input Power of Outdoor Unit		W	25500	26000	29500	35500	36500	40000	41000	42000	42500
Maximum Working Pressure on Discharge/Suction Side		MPa	4.5/1.6								
Maximum Permissible Pressure on High/Low Pressure Side		MPa	4.5/4.5								
Maximum Working Pressure of Heat Exchanger		MPa	4.5								
Noise		dB(A)	≤62	≤62	≤63	≤64	≤64	≤65	≤65	≤66	≤66
APF		Wh/Wh	4.8	4.7	4.7	4.65	4.6	4.6	4.5	4.35	4.3
IPLV(C)		W/W	8.8	8.6	8.5	8.4	8.3	8.25	8.2	8.15	8.1
Compressor Type		/	Enhanced Vapor Injection (EVI) DC Inverter Scroll Compressor								
Net Weight		kg	355	355	404	419	419	458	458	470	470
Dimensions (L×W×H)		mm	1990*1772*846								
Refrigerant	Type	/	R410A								
	Throttling Method	/	Throttling by Electronic Expansion Valve								
	Refrigerant Charge	kg	10	10	11	12	12	14	14	16	16
Operating Range	Cooling	℃	-15℃-55℃								
	Heating	℃	-30℃-30℃								
Connecting Pipe	Liquid Pipe	mm	ϕ16	ϕ16	ϕ16	ϕ19	ϕ19	ϕ22	ϕ22	ϕ22	ϕ22
	Gas Pipe	mm	ϕ28	ϕ28	ϕ28	ϕ32	ϕ32	ϕ35	ϕ35	ϕ35	ϕ35
	Connection Method	/	Welding								
Airflow		m^3/h	25000	28000	30000	30000	30000	32000	32000	33000	33000

Note:
1. This unit involves the implementation of the standard GB/T18837-2015;
2. The above indoor unit cooling capacity test conditions: for cooling, 35℃ DB (Dry Bulb)/24℃ WB (Wet Bulb) outdoors, and 27℃ DB/19℃ WB indoors; for heating, 7℃ DB/6℃ WB outdoors, and 20℃ DB/15℃ WB indoors; the equivalent length of the refrigerant piping is 10 meters, with a drop of 0 meters;
3. The operating noise values listed in this brochure are tested in a semi-anechoic chamber. In actual installation conditions, due to the influence of surrounding background noise, there may be slight differences from the values recorded in this brochure;
4. If the product is continuously optimized, some parameters may change without prior notice. Please refer to the actual unit nameplate parameters.

Parallel Combination of Outdoor Units

Combination Method Outdoor Unit Capacity (HP)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
42HP							1	1									
44HP								2									
46HP								1	1								
48HP									2								
50HP									1	1							
52HP										2							
54HP										1	1						
56HP											2						
58HP											1	1					
60HP												2					
62HP												1					
64HP													2				
66HP													1	1			
68HP														2			
70HP														1	1		
72HP															2		
74HP															1	1	
76HP																2	
78HP																1	1
80HP																	2
82HP	1														1	1	
84HP	1															2	
86HP	1															1	1
88HP	1																2
90HP		1															2
92HP			1														2
94HP				1													2
96HP					1												2
98HP						1											2
100HP							1										2
102HP								1									2
104HP									1								2
106HP										1							2
108HP											1						2
110HP												1					2
112HP													1				2
114HP														1			2
116HP															1		2
118HP																1	2
120HP																	3
122HP							1	1									2
124HP								2									2
126HP						1					1						2
128HP								1		1							2
130HP								1			1						2
132HP			1														3
134HP				1													3
136HP					1												3
138HP						1											3
140HP							1										3
142HP								1									3
144HP									1								3
146HP										1							3
148HP											1						3
150HP												1					3
152HP													1				3
154HP														1			3
156HP															1		3
158HP																1	3
160HP																	4

Capacity		HP	42	44	46	48	50
Combination Method		Recommended Combination	20+22	22+22	18+28	22+26	22+28
Rated Power Supply			3N~380V 50Hz				
Rated Cooling Capacity		kW	117.5	123	129	135	140
Rated Heatling Capacity		kW	132	138	144	150.5	157
Cooling	Rated Operating Current	A	55.70	59.20	57.21	61.50	64.16
	Rated Input Power	W	33100	35200	33950	36570	38150
Heating	Rated Operating Current	A	54.10	56.80	57.8	60.82	63.55
	Rated Input Power	W	32000	33600	34190	35980	37590
Maximum Operating Current		A	83.20	84.20	86.87	85.88	91.77
Maximum Input Power		W	49400	50000	51500	51000	54500
Noise		dB(A)	40~64	40~64	40~64	40~64	40~64
Airflow		m^3/h	44000	44000	48000	46000	49000
Net Weight		kg	561	561	678.5	635.5	684.5
Refrigerant Charging Amount		kg	19	19	19.5	19.5	20.5
Operating Range	Cooling	℃	-15~55				
	Heating		-30~30				
Dimensions (L×W×H)		mm	(1356*1772*8 46)*2		(1356*1772*846)+(1990*1772*846)		

Capacity		HP	52	54	56	58	60
Combination Method		Recommended Combination	26+26	26+28	28+28	18+40	20+40
Rated Power Supply			3N~380V 50Hz				
Rated Cooling Capacity		kW	147	152	157	162.5	168
Rated Heating Capacity		kW	163	169.5	176	179.5	186.5
Cooling	Rated Operating Current	A	63.81	66.47	69.12	76.45	79.90
	Rated Input Power	W	37940	39520	41100	45390	47490
Heating	Rated Operating Current	A	64.85	67.57	70.29	76.20	79.25
	Rated Input Power	W	38360	39970	41580	45080	46880
Maximum Operating Current		A	87.57	93.45	99.34	108.75	112.65
Maximum Input Power		W	52000	55500	59000	64500	66900
Noise		dB(A)	40~64	40~64	40~64	40~67	40~67
Airflow		m^3/h	48000	51000	54000	47500	52000
Net Weight		kg	710	759	808	744.5	750.5
Refrigerant Charging Amount		kg	20	21	22	24.5	25.5
Operating Range	Cooling	℃	-15~55				
	Heating		-30~30				
Dimensions (L×W×H)		mm	(1990*1772*846)*2			(1356*1772*846)+(1990*1772*846)	

Note: If the product is continuously optimized, some parameters may change without prior notice. Please refer to the actual unit nameplate parameters.

Capacity		HP	62	64	66	68	70
Combination Method		Recommended Combination	22+40	28+36	26+40	28+40	30+40
Rated Power Supply			3N~380V 50Hz				
Rated Cooling Capacity		kW	173.5	179.5	185.5	190.5	197
Rated Heatling Capacity		kW	192.5	200	205	211.5	218.5
Cooling	Rated Operating Current	A	83.40	81.35	85.71	88.36	92.06
	Rated Input Power	W	49590	48370	50960	52540	54740
Heating	Rated Operating Current	A	81.95	81.09	85.98	88.70	92.25
	Rated Input Power	W	48480	47970	50860	52470	54570
Maximum Operating Current		A	113.65	118.71	115.33	121.22	131.33
Maximum Input Power		W	67500	70500	68500	72000	78000
Noise		dB(A)	40~67	40~67	40~67	40~67	40~67
Airflow		m^3/h	52000	56000	54000	57000	59000
Net Weight		kg	750.5	862	825	874	889
Refrigerant Charging Amount		kg	25.5	25	26	27	28
Operating Range	Cooling	℃	-15~55				
	Heating		-30~30				
Dimensions (L×W×H)		mm	1356*1772*846+ 1990*1772*846	(1990*1772*846)*2			

Capacity		HP	72	74	76	78	80
Combination Method		Recommended Combination	32+40	34+40	36+40	38+40	40+40
Rated Power Supply			3N~380V 50Hz				
Rated Cooling Capacity		kW	202	207.5	213	218	224
Rated Heatling Capacity		kW	223.5	229.5	235.5	242.5	247
Cooling	Rated Operating Current	A	95.09	97.13	100.59	105.08	107.60
	Rated Input Power	W	56540	57750	59810	62480	63980
Heating	Rated Operating Current	A	93.82	96.95	99.50	103.52	107.11
	Rated Input Power	W	55500	57350	58860	61240	63360
Maximum Operating Current		A	133.05	138.91	140.59	142.25	143.10
Maximum Input Power		W	79000	82500	83500	84500	85000
Noise		dB(A)	40~67	40~67	40~67	40~67	40~67
Airflow		m^3/h	59000	59000	59000	60000	60000
Net Weight		kg	889	928	928	940	940
Refrigerant Charging Amount		kg	28	30	30	32	32
Operating Range	Cooling	℃	-15~55				
	Heating		-30~30				
Dimensions (L×W×H)		mm	(1990*1772*846)*2				

Note: If the product is continuously optimized, some parameters may change without prior notice. Please refer to the actual unit nameplate parameters.

Capacity		HP	82	84	86	88	90
Combination Method		Recommended Combination	20+22+40	22+22+40	18+28+40	22+26+40	22+28+40
Rated Power Supply			3N~380V 50Hz				
Rated Cooling Capacity		kW	229.5	235	241	247	252
Rated Heatling Capacity		kW	255.5	261.5	267.5	274	280.5
Cooling	Rated Operating Current	A	109.50	113.00	111.01	115.31	117.96
	Rated Input Power	W	65090	67190	65940	68560	70140
Heating	Rated Operating Current	A	107.65	110.35	111.35	114.38	117.10
	Rated Input Power	W	63680	65280	65870	67660	69270
Maximum Operating Current		A	154.75	155.75	158.42	157.43	163.32
Maximum Input Power		W	91900	92500	94000	93500	97000
Noise		dB(A)	40~67	40~67	40~67	40~67	40~67
Airflow		m^3/h	74000	74000	74500	76000	79000
Net Weight		kg	1031	1031	1148.5	1105.5	1154.5
Refrigerant Charging Amount		kg	35	35	35.5	35.5	36.5
Operating Range	Cooling	℃	-15~55				
	Heating		-30~30				
Dimensions (L×W×H)		mm	(1356*1772*846)*2+(1990*1772*846)			(1356*1772*846)+ (1990*1772*846)*2	

Capacity		HP	92	94	96	98	100
Combination Method		Recommended Combination	26+26+40	26+28+40	16+40+40	18+40+40	20+40+40
Rated Power Supply			3N~380V 50Hz				
Rated Cooling Capacity		kW	259	264	269	274.5	280
Rated Heatling Capacity		kW	286.5	293	297	303	310
Cooling	Rated Operating Current	A	117.61	120.27	127.90	130.25	133.70
	Rated Input Power	W	69930	71510	76080	77380	79480
Heating	Rated Operating Current	A	118.40	121.12	127.36	129.76	132.81
	Rated Input Power	W	70040	71650	75360	76760	78560
Maximum Operating Current		A	159.12	165.00	174.80	180.30	184.20
Maximum Input Power		W	94500	98000	103800	107000	109400
Noise		dB(A)	40~67	40~67	40~67	40~67	40~67
Airflow		m^3/h	78000	81000	75600	77500	82000
Net Weight		kg	1180	1229	1156.5	1214.5	1220.5
Refrigerant Charging Amount		kg	36	37	40	40.5	41.5
Operating Range	Cooling	℃	-15~55				
	Heating		-30~30				
Dimensions (L×W×H)		mm	(1990*1772*846)*3		(990*1772*846)+ (1990*1772*846)*2	(1356*1772*845)+(1990*1772*846)*2	

Note: If the product is continuously optimized, some parameters may change without prior notice. Please refer to the actual unit nameplate parameters.

Capacity		HP	102	104	106	108	110
Combination Method		Recommended Combination	22+40+40	24+40+40	26+40+40	28+40+40	30+40+40
Rated Power Supply			3N~380V 50Hz				
Rated Cooling Capacity		kW	285.5	292.5	297.5	302.5	309
Rated Heatling Capacity		kW	316	322	328.5	335	342
Cooling	Rated Operating Current	A	137.20	137.70	139.51	142.16	145.86
	Rated Input Power	W	81580	81880	82950	84530	86730
Heating	Rated Operating Current	A	135.51	136.69	139.53	142.25	145.80
	Rated Input Power	W	80160	80860	82540	84150	86250
Maximum Operating Current		A	185.20	186.03	186.88	192.77	202.88
Maximum Input Power		W	110000	110500	111000	114500	120500
Noise		dB(A)	40~67	40~67	40~67	40~67	40~67
Airflow		m^3/h	82000	84000	84000	87000	89000
Net Weight		kg	1220.5	1295	1295	1344	1359
Refrigerant Charging Amount		kg	41.5	42	42	43	44
Operating Range	Cooling	℃	-15~55				
	Heating		-30~30				
Dimensions (L×W×H)		mm	(1356*1772*845)+(1990*1772*846)*2	(1990*1772*846)*3			

Capacity		HP	112	114	116	118	120
Combination Method		Recommended Combination	32+40+40	34+40+40	36+40+40	38+40+40	40+40+40
Rated Power Supply			3N~380V 50Hz				
Rated Cooling Capacity		kW	314	319.5	325	330	336
Rated Heatling Capacity		kW	347	353	359	366	370.5
Cooling	Rated Operating Current	A	148.89	150.93	154.39	158.88	161.40
	Rated Input Power	W	88530	89740	91800	94470	95970
Heating	Rated Operating Current	A	147.38	150.50	153.06	157.08	160.66
	Rated Input Power	W	87180	89030	90540	92920	95040
Maximum Operating Current		A	204.60	210.46	212.14	213.80	214.65
Maximum Input Power		W	121500	125000	126000	127000	127500
Noise		dB(A)	40~67	40~67	40~67	40~67	40~67
Airflow		m^3/h	89000	89000	89000	90000	90000
Net Weight		kg	1359	1398	1398	1410	1410
Refrigerant Charging Amount		kg	44	46	46	48	48
Operating Range	Cooling	℃	-15~55				
	Heating		-30~30				
Dimensions (L×W×H)		mm	(1990*1772*846)*3				

Note: If the product is continuously optimized, some parameters may change without prior notice. Please refer to the actual unit nameplate parameters.

Capacity		HP	122	124	126	128	130
Combination Method		Recommended Combination	20+22+40+40	22+22+40+40	18+28+40+40	22+26+40+40	22+28+40+40
Rated Power Supply			3N~380V 50Hz				
Rated Cooling Capacity		kW	341.5	347	353	359	364
Rated Heatling Capacity		kW	379	385	391	397.5	404
Cooling	Rated Operating Current	A	163.30	166.80	164.81	169.11	171.76
	Rated Input Power	W	97080	99180	97930	100550	102130
Heating	Rated Operating Current	A	161.21	163.91	164.90	167.93	170.65
	Rated Input Power	W	95360	96960	97550	99340	100950
Maximum Operating Current		A	226.30	227.30	229.97	228.98	234.87
Maximum Input Power		W	134400	135000	136500	136000	139500
Noise		dB(A)	40~67	40~67	40~67	40~67	40~67
Airflow		m^3/h	104000	104000	104500	106000	109000
Net Weight		kg	1501	1501	1618.5	1575.5	1624.5
Refrigerant Charging Amount		kg	51	51	51.5	51.5	52.5
Operating Range	Cooling	℃	-15~55				
	Heating		-30~30				
Dimensions (L×W×H)		mm	(1356*1772*846)*2+(1990*1772*846)*2			1356*1772*846+(1990*1772*846)*3	

Capacity		HP	132	134	136	138	140
Combination Method		Recommended Combination	12+40+40+40	14+40+40+40	16+40+40+40	18+40+40+40	20+40+40+40
Rated Power Supply			3N~380V 50Hz				
Rated Cooling Capacity		kW	369.5	376	381	386.5	392
Rated Heatling Capacity		kW	408	415.5	420.5	426.5	433.5
Cooling	Rated Operating Current	A	174.51	178.86	181.70	184.05	187.50
	Rated Input Power	W	104070	106320	108070	109370	111470
Heating	Rated Operating Current	A	173.93	178.54	180.91	183.31	186.36
	Rated Input Power	W	103240	105640	107040	108440	110240
Maximum Operating Current		A	240.15	245.45	246.35	251.85	255.75
Maximum Input Power		W	142300	145800	146300	149500	151900
Noise		dB(A)	40~67	40~67	40~67	40~67	40~67
Airflow		m^3/h	103500	105600	105600	107500	112000
Net Weight		kg	1617.5	1626.5	1626.5	1684.5	1690.5
Refrigerant Charging Amount		kg	54	56	56	56.5	57.5
Operating Range	Cooling	℃	-15~55				
	Heating		-30~30				
Dimensions (L×W×H)		mm	(990*1772*846)+(1990*1772*846)*3			1356*1772*846+(1990*1772*846)*3	

Note: If the product is continuously optimized, some parameters may change without prior notice. Please refer to the actual unit nameplate parameters.

Capacity		HP	142	144	146	148	150
Combination Method		Recommended Combination	22+40+40+40	24+40+40+40	26+40+40+40	28+40+40+40	30+40+40+40
Rated Power Supply			3N~380V 50Hz				
Rated Cooling Capacity		kW	397.5	404.5	409.5	414.5	421
Rated Heatling Capacity		kW	439.5	445.5	452	458.5	465.5
Cooling	Rated Operating Current	A	191.00	191.50	193.31	195.97	199.67
	Rated Input Power	W	113570	113870	114940	116520	118720
Heating	Rated Operating Current	A	189.06	190.25	193.09	195.81	199.36
	Rated Input Power	W	111840	112540	114220	115830	117930
Maximum Operating Current		A	256.75	257.58	258.43	264.32	274.43
Maximum Input Power		W	152500	153000	153500	157000	163000
Noise		dB(A)	40~67	40~67	40~67	40~67	40~67
Airflow		m^3/h	112000	114000	114000	117000	119000
Net Weight		kg	1690.5	1765	1765	1814	1829
Refrigerant Charging Amount		kg	57.5	58	58	59	60
Operating Range	Cooling	℃	-15~55				
	Heating		-30~30				
Dimensions (L×W×H)		mm	1356*1772*846+ (1990*1772*846)*3	(1990*1772*846)*4			

Capacity		HP	152	154	156	158	160
Combination Method		Recommended Combination	32+40+40+40	34+40+40+40	36+40+40+40	38+40+40+40	40+40+40+40
Rated Power Supply			3N~380V 50Hz				
Rated Cooling Capacity		kW	426	431.5	437	442	448
Rated Heatling Capacity		kW	470.5	476.5	482.5	489.5	494
Cooling	Rated Operating Current	A	202.69	204.73	208.19	212.68	215.21
	Rated Input Power	W	120520	121730	123790	126460	127960
Heating	Rated Operating Current	A	200.93	204.06	206.61	210.63	214.22
	Rated Input Power	W	118860	120710	122220	124600	126720
Maximum Operating Current		A	276.15	282.01	283.69	285.35	286.20
Maximum Input Power		W	164000	167500	168500	169500	170000
Noise		dB(A)	40~67	40~67	40~67	40~67	40~67
Airflow		m^3/h	119000	119000	119000	120000	120000
Net Weight		kg	1829	1868	1868	1880	1880
Refrigerant Charging Amount		kg	60	62	62	64	64
Operating Range	Cooling	℃	-15~55				
	Heating		-30~30				
Dimensions (L×W×H)		mm	(1990*1772*846)*4				

Note: If the product is continuously optimized, some parameters may change without prior notice. Please refer to the actual unit nameplate parameters.

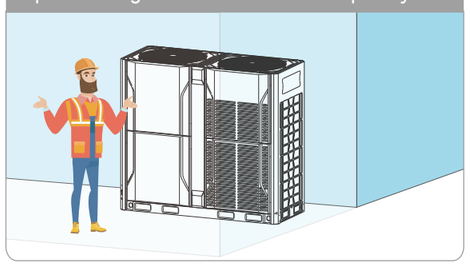
Side-discharge Commercial Multi-split System , Smaller in Size and Higher in Adaptability

With urban architectural design increasingly moving towards centralization and space saving, it has become more common for buildings to feature equipment spaces designed on the same level as commercial spaces. In response to this trend, the side-discharge commercial multi-split system was introduced. This unit can address many scenarios where equipment spaces are small, save the footprint of equipment, and offer high cost - effectiveness for models with normal temperature.

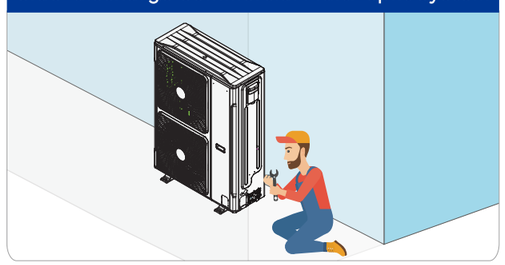
❯ Compact unit with a minimum depth of just 375mm

The side-discharge unit has a minimum depth of only 375mm, making it more adaptable to spaces with limited available area and confined places. It says goodbye to the troubles of traditional top-discharge multi-split units and allows for flexible selection of host units with different exhaust methods, releasing more space for maintenance and installation.

Top-discharge Commercial Multi-split System

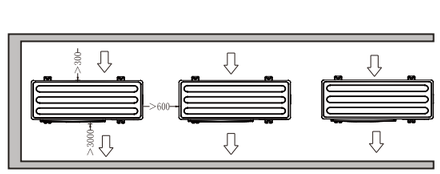


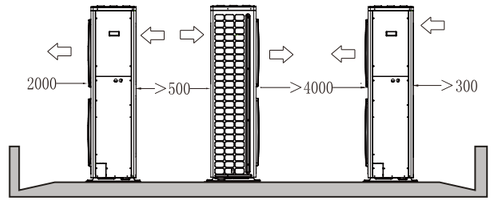
Side-discharge Commercial Multi-split System



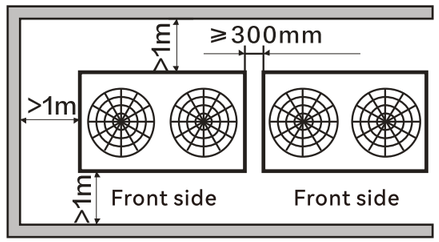
❯ Save Land Area

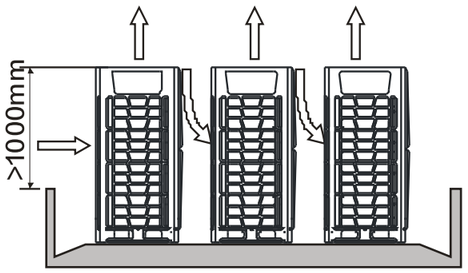
Side-discharge Commercial Multi-split System





Top-discharge Commercial Multi-split System





Host Parameters

Model		HJHV-080WH/A-B	HJHV-100WH/A-B	HJHV-125WH/A-B	HJHV-145WH/A-B	HJHV-160WH/A-B	HJHV-180WH/A-A
HP (Horsepower)		3	4	4.5	5	5.5	6.5
Rated Power Supply	/	220V ~ 50Hz					
Rated Cooling Capacity	kW	8	10	12.5	14.5	16	18
Rated Heating Capacity	kW	10	12	14	16	18	20
Rated Cooling Current	A	10.1	11.3	14.7	19.3	20.7	22.5
Rated Cooling Power	W	2200	2450	3200	4200	4500	4900
Rated Heating Current	A	9.5	13.1	15.6	18.4	20.2	22.5
Rated Heating Power	W	2100	2850	3400	4000	4400	4900
Maximum Operating Current	A	22	22	28	32	35	35
Maximum Input Power	W	4800	4800	5800	6500	7200	7200
Airflow	m^3/h	4000	4000	6500	6500	7000	7000
Noise	dB(A)	55	56	57	57	57	58
APF	Wh/Wh	5.3	5.3	5.3	5.3	5	4.95
Net Weight	kg	65	65	72	80	90	94
Refrigerant Type	/	R410a	R410a	R410a	R410a	R410a	R410a
Refrigerant Charging Amount	kg	2.3	2.3	2.6	2.9	3.5	4.2
Liquid Pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52
Gas Pipe	mm	15.88	15.88	15.88	15.88	15.88	19.05
Dimensions (L×W×H)	mm	945×375×840				1015×390×995	1020×375×1330
Compressor Type	/	Rotor Compressor					
Cooling Operating Range	℃	-15 ~ 55					
Heating Operating Range	℃	-15 ~ 30					
Maximum Working Pressure on Discharge/Suction Side	MPa	4.5/1.6					
Maximum Permissible Pressure on High/Low Pressure Side	MPa	4.5/4.5					
Maximum Working Pressure of Heat Exchanger	MPa	4.5					

Note:
1. This unit is in compliance with the standard GB/T18837-2015.
2. The above - mentioned indoor unit cooling capacity test conditions are as follows: for cooling, 35℃ DB (Dry Bulb)/24℃ WB (Wet Bulb) outdoors, and 27℃ DB/19℃ WB indoors; for heating, 7℃ DB/6℃ WB outdoors, and 20℃ DB/15℃ WB indoors; the equivalent length of the refrigerant piping is 10 meters, with a drop of 0 meters.
3. The operating noise values listed in this brochure were tested in a semi - anechoic chamber. In actual installation conditions, due to the influence of surrounding background noise, there may be slight differences from the values recorded in this brochure.
4. If the product is continuously optimized, some parameters may change without prior notice. Please refer to the actual unit nameplate parameters.

Host Parameters

Model HJHV- (*)WH/SA-A		125	145	160	180	200	224	260	285	335
HP (Horsepower)		4.5	5	5.5	6.5	7	8	9	10	12
Rated Power Supply	/	3N ~ 380V 50Hz								
Rated Cooling Capacity	kW	12.5	14.5	16	18	20	22.4	26	28.5	33.5
Rated Heating Capacity	kW	14	16	18	20	22.4	25	28.5	31.5	37.5
Rated Cooling Current	A	4.6	6.23	7.24	8.7	10.9	12.8	14.5	15.5	19
Rated Cooling Power	W	2700	3700	4300	5100	6400	7400	8400	9000	11000
Rated Heating Current	A	5.1	6.23	7.24	8.5	9	10.4	13.5	14.7	17.3
Rated Heating Power	W	3000	3700	4300	5000	5200	6000	7800	8500	10000
Maximum Operating Current	A	13.5	13.5	17.5	17.5	18	19	23	25	25
Maximum Input Power	W	6600	6600	8000	8000	10000	11000	12000	14000	14000
Airflow	m^3/h	7000	7000	7500	7500	8000	8000	10000	11000	11000
Noise	dB(A)	56	56	58	58	59	59	60	60	60
APF	Wh/Wh	5.35	4.95	5	4.95	5	4.95	4.4	4.4	4.2
Net Weight	kg	95	95	98	98	113	113	134	145	145
Refrigerant Type	/	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a
Refrigerant Charging Amount	kg	3.4	3.4	4.2	4.2	5.3	5.3	6	7.8	7.8
Liquid Pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	12.7	12.7
Gas Pipe	mm	15.88	15.88	19.05	19.05	19.05	19.05	22.2	25.4	25.4
Dimensions (L×W×H)	mm	1020×375×1330						1036×406×1570		
Compressor Type	/	Rotor Compressor								
Cooling Operating Range	℃	-15 ~ 55								
Heating Operating Range	℃	-15 ~ 30								
Maximum Working Pressure on Discharge/Suction Side	MPa	4.5/1.6								
Maximum Permissible Pressure on High/Low Pressure Side	MPa	4.5/4.5								
Maximum Working Pressure of Heat Exchanger	MPa	4.5								

OBAIR Central Air Conditioning Intelligent Service System

Quick Service, Customer First

For specific operations regarding the installation, use, and maintenance of the unit, please refer to the **Installation and Operation Manual** and **Electrical Operation Instructions** provided with the unit.

Note: Since OBAIR products are subject to continuous improvement and innovation, any changes to the product models, specifications, and parameters shown in this material will not be notified separately.
Your understanding is appreciated.