Mini VRF Series

Discover living in comfort

FULL DC INVERTER



Healthy and comfortable | Energy saving and environmental protection | Stable and reliable



Mini VRF

Compact body with unrestricted space matching

The single fan outdoor unit is enough to match the reserved space for air conditioning unit and reduce your installation troubles.
Single-phase integrated plate electronic control with refrigerant cooling technology，165V-265V wide voltage operation，small body with strong output.



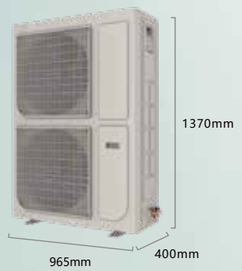
10-12KW model



14-18KW model

More capability and wider operating range

The double fan outdoor unit, designed for large apartments, villas and commercial places.Large size heat exchanger, multiple protection controls，three-phase integrated plate electronic control with refrigerant cooling technology, -15℃ ~ 55℃ wide temperature zone operation range，high efficiency and energy saving，more reliable quality.



22.4-26KW model



28.5-33.5KW model

Small size shows the hidden beauty

Most users will prefer to install the outdoor unit in the reserved outdoor space, while the developer reserves only limited space, our Mini VRF outdoor unit is compact in size and can be placed in small spaces such as bay windows, avoiding the installation of external units on the wall or placing in the balconies, showing the hidden beauty.


√


√


X


X

Stable and reliable, more assured to use

Compared with multiple air conditioning units, a VRF air conditioner not only save the purchase cost，installation costs and accessory costs, but also free up more space for garden terraces.
Mitsubishi DC inverter compressor and other high-quality parts, liquid injection cooling, hot gas bypass, fast oil return，intelligent defrosting, etc.
Multiple protection control, stable and reliable, more assuredto use.

Well-known Brand Technical Characteristics Introduction

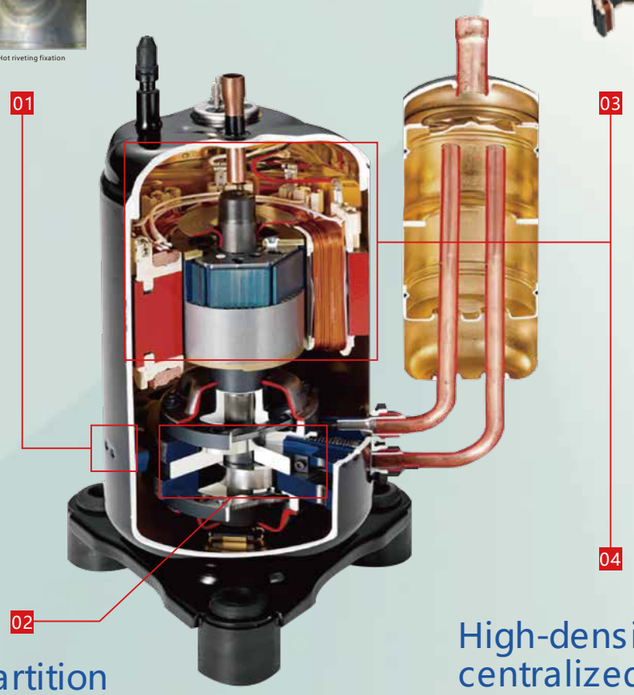
Miniaturization technology

Hot riveting

The fixing of the movement parts has been changed from the previous three-point welding to the hot riveting method, which reduces the tilt of the movement part, thus further improving efficiency.

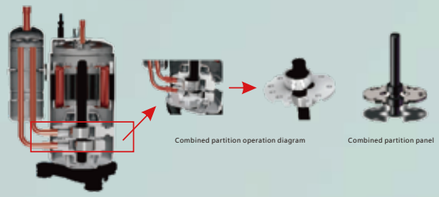


Three-point welding fixation　　Hot riveting fixation



Combined partition

This technology divides and rejoins the cylinder diaphragm, eliminating the gap between the piston and the diaphragm, and at the same time achieving the expansion of eccentricity, so as to achieve the purpose of small size and high output power.



Combined partition operation diagram　　Combined partition panel

High-performance motor technology

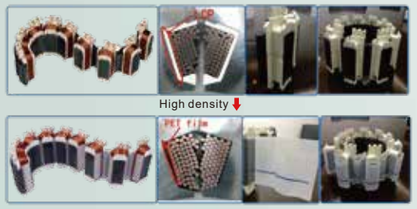
Keel motor

Well-known brand Electric has developed its own motors with higher efficiency using unfolded concentrated coilsand rare earth magnets.The new technology significantly improvesthe reliability of the compressor.



High-density centralized volumes

A new type of insulation material - polyester film (PET FILM), this application has improved the slot occupancy rate of electromagnetic wires and motor efficiency.



Eight silent designs Pursue a peaceful life

Multiple silent modes

Multiple silent mode design allows you to enjoy a quiet life.

Equipped with Well-known brand compressor as standard

The whole range of products is equipped with Well-known brand compressors as standard, and the technology and craftsmanship are carefully crafted to escort the quiet and reliable operation of our VRF systems.



Brushless DC motor

It adopts high-efficiency permanent magnet DC brushless motor to reduce rotation noise, and cooperates with the motor installation shock-absorbing design to make the operation smoother and quieter.

Bionic axial flow fan

The bionic axial flow fan designed to simulate the tail of a bird provides surging air volume while reducing rotational vortex noise.

Silent electronic expansion valve

Adopt internationally renowned brands.Silent electronic expansion valve effectively suppresses refrigerant flow noise.

DC silent water pump

Compared with traditional AC water pumps, DC silent water pumps operate more smoothly, have smaller vibrations, and do not relax the pursuit of silence in every detail.（for indoor unit）

Aerodynamic silent grille

CFD fluid simulation technology is used to optimize the perfect match between the air outlet angle and the grille air guide angle, making the air flow smoother and the wind sound softer.

Shock-absorbing piping

The piping of the whole system adopts a flexible design to reduce the vibration caused by the high-speed flow of refrigerant and make the operation more stable.

Highly integrated design of electronic control system

Integrated electronic control

The highly integrated design of the electronic control board not only greatly reduces the space occupied by the electronic control, but also greatly reduces thenumber of internal wirings and ensures the stable quality.



Convenient repair plate

Parameter spot check and fault inquiry can be realized without disassembling the external unit sheet metal, which is convenient for installation, debugging and after-sales maintenance.



New refrigerant cooling technology

Multi-channel refrigerant cooling technology, the operating frequency of compressor high-temperature refrigeration is increased, which can achieve strong refrigeration at 55°C high temperature, and the output of high-temperature refrigeration capacity is increased by more than 20%.

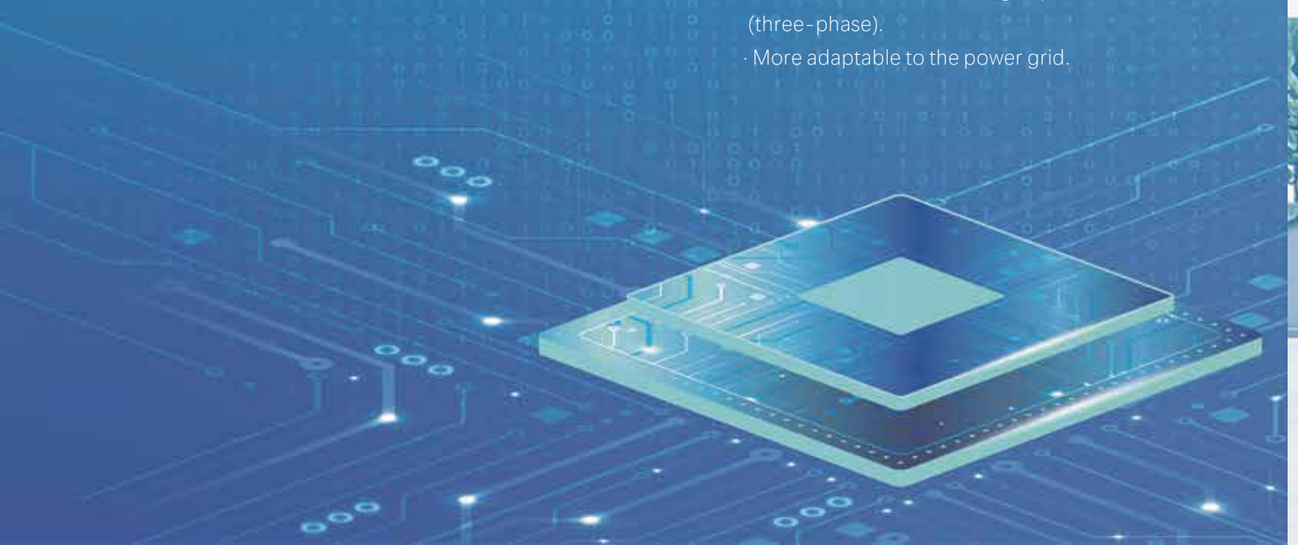


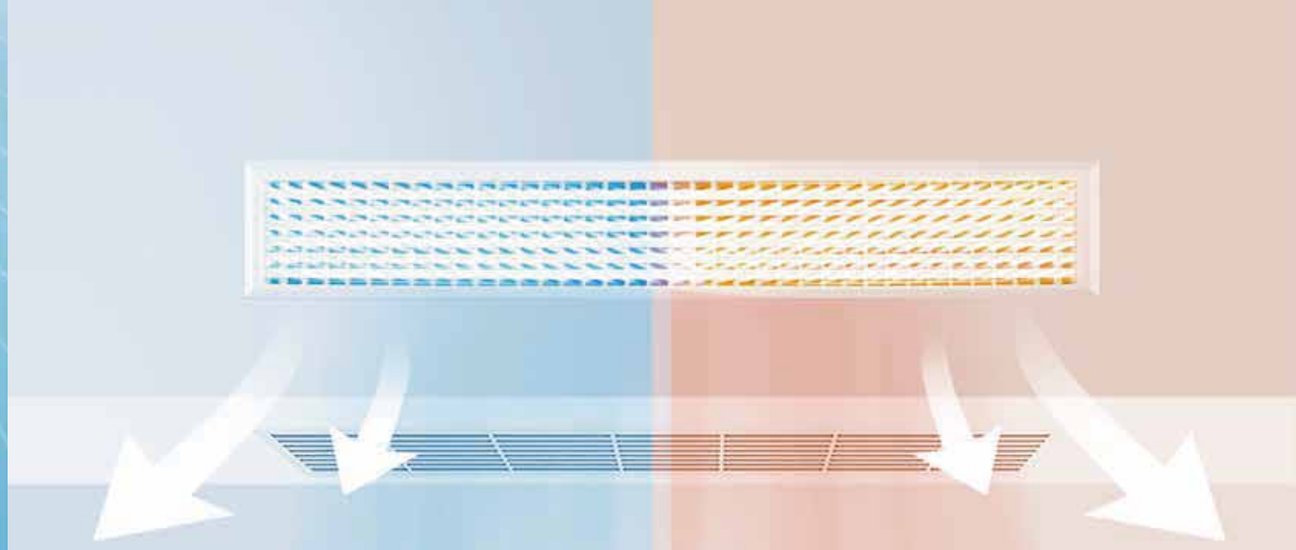
Ultra-wide operation range

Operating in a wide temperature range of -15℃ -55℃, fearless of severe cold and heat.

Ultra-wide voltage range

· 165-265V ultra-wide voltage operation (single phase).
· 285-459V ultra-wide voltage operation (three-phase).
· More adaptable to the power grid.



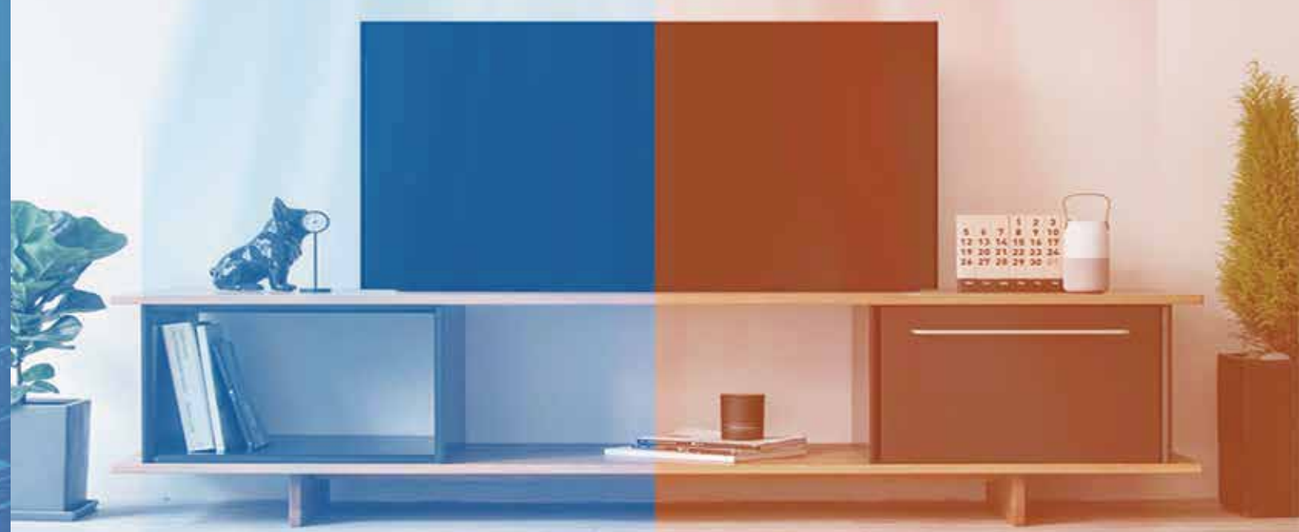


Quick cooling and instant enjoyment

In the hot summer, after the air conditioner is turned on, the cool breeze can be achieved while pouring a glass of water.

High-frequency rapid heat warms you all over

In the cold winter, when you change clothes and shoes at home , the warm breeze blows in, warm and intimate.



Specifications
Mini VRF Outdoor units

Model			YXLN-V100W/N1-D01	YXLN-V100W/N1-D02	YXLN-V120W/N1-D01	YXLN-V120W/N1-D02	YXLN-V140W/N1-D01	YXLN-V140W/N1-EA01	YXLN-V160W/N1-EA01	YXLN-V180W/N1-EA01	YXLN-V224W/SN1-F01	YXLN-V260W/SN1-F01	YXLN-V285W/SN1-G01	YXLN-V335W/SN1-G01
Appearance														
Power Supply		V~/Hz	220V-1PH-50Hz	220V-1PH-50Hz	220V-1PH-50Hz	220V-1PH-50Hz	220V-1PH-50Hz	220V-1PH-50Hz	220V-1PH-50Hz	220V-1PH-50Hz	380V-3PH-50Hz	380V-3PH-50Hz	380V-3PH-50Hz	380V-3PH-50Hz
Cooling	Capacity	W	10000	10000	12000	12000	14000	14000	16000	18000	22400	26000	28500	33500
	Power input	W	2400	2450	2700	2750	3500	3450	4450	4550	5800	6800	7500	10900
	Rated current	A	10.9	11.4	12.3	12.8	16.3	15.7	20.2	20.7	9.5	10.9	11.4	16.5
	EER	W/W	4.17	4.08	4.44	4.36	4.00	4.06	3.60	3.96	3.86	3.82	3.80	3.07
Heating	Capacity	W	12000	12000	14000	14000	16000	16000	17000	19500	24000	28200	31500	37000
	Power input	W	2550	2580	2600	2650	3300	3250	3910	4150	5400	6600	6600	8800
	Rated current	A	11.6	12.0	11.8	12.3	15.3	14.8	17.8	18.9	8.5	10.6	10	13.4
	COP	W/W	4.71	4.65	5.38	5.28	4.85	4.92	4.35	4.70	4.44	4.27	4.77	4.20
APF		Wh/Wh	5.25	5.25	5.25	5.25	5.25	5.25	4.95	4.85	4.85	4.54	4.8	4.45
Maximum operating current		A	22	22.0	27	25.3	27.6	29	31	38	18	19	22.5	24
Maximum power input		W	4840	4750	5940	5450	5950	6380	6820	8360	11200	11600	13000	13800
Compresso	Type		DC inverter rotary compressor											
	Brand		Mitsubishi	GMCC	Mitsubishi	GMCC	GMCC	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	GMCC	Mitsubishi	Mitsubishi
	Model		SYB220FFEMC-L2	KTM240D57UMT	SYB280FBAMC-L	KTM240D57UMT	KTM310D85UMT	MNB40FEQMC	MNB40FEQMC	MNB42FFDMC-L	LNB53FMKMC-L	KTQ580D66UNT	LNB65FAGMC	LNB65FAGMC
Outdoor fan	Fan motor type		Brushless DC motor											
	Brand		LT Motor											
PCB cooling type			Refrigerant cooling type											
Sound pressure level		dB(A)	≤56	≤59	≤56	≤59	≤60	≤59	≤60	≤60	≤59	≤60	≤60	≤60
Refrigerant	Type		R410A											
	Throttling type		Electronic Expansion Valve (EEV)											
	Factory charging	kg	2.7	2.3	3	2.5	3	3.8	3.8	4	4.3	5.4	8.5	8.5
Dimension (W*H*D)	Unit	mm	965×400×810	965×400×810	965×400×810	965×400×810	965×400×810	1030×375×995	1030×375×995	1030×375×995	965×400×1370	965×400×1370	1135×450×1565	1135×450×1565
	Package	mm	1070×525×880	1070×525×880	1070×525×880	1070×525×880	1070×525×880	1130×475×1115	1130×475×1115	1130×475×1115	1065×510×1500	1065×510×1500	1240×565×1730	1240×565×1730
Weight	Net/Gross	kg	66/70	60/64	67.5/71.5	62/66	67/71	83.5/94	83.5/94	86/96.5	105/118	112/125	160/180	160/180
Pipes connection (Gas/liquid side)		mm	15.88/9.52	15.88/9.52	15.88/9.52	15.88/9.52	15.88/9.52	15.88/9.52	15.88/9.52	19/9.52	19/9.52	19/9.52	22/12.7	22/12.7
Power Supply cables			3×4mm²	3×4mm²	3×4mm²	3×4mm²	3×4mm²	3×4mm²	3×4mm²	3×6mm²	5×4mm²	5×4mm²	5×4mm²	5×4mm²
Stuffing QTY(40HQ)			88	88	88	88	88	100	100	100	46	46	37	37

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 27℃ DB / 19℃WB; Outdoor temperature 35℃ DB / 24℃WB;
Heating: Indoor temperature 20℃ DB / 15℃WB; Outdoor temperature 7℃ DB / 6℃WB;
Piping length: Interconnecting piping length is 7.5m, level difference is 0m.
Connection piping diameter of single-unit is the stop valve diameter of the unit.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.