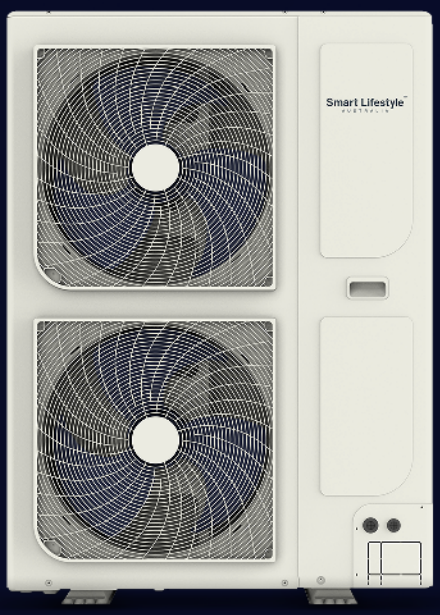
SLA
SMART LIFESTYLE
AUSTRALIA

SLA AIR+

With Ducted Indoor Unit

Stay comfortable and breathe clean with our intelligent split system air conditioner for heating and cooling.

- Energy Efficiency
- 5 Speed Fan
- Super Quiet Operation
- Filter Cleaning Reminder



Mini VRF

Stable and reliable, more assured to use

VRF air conditioning systems provide precise control, energy efficiency, and zoning capabilities. They save space, operate quietly, and offer advanced control options for versatile installations. These systems are ideal for commercial and residential spaces seeking optimal comfort and energy savings.

Compressors Technical Characteristics Introduction

Superior design (1)

Chamfering of the suction holes of the upper and lower cylinders, optimization of the flow holes, reducing suction resistance and improving energy efficiency.

Superior design (2):

Eccentric shaft segment difference technology, reduce the contact area between the eccentric part and the piston, reduce friction loss, shear force and power consumption.

Superior design (3):

The oil circulation circuit under low-frequency working conditions of the oil supply lubrication circulation circuit is optimized to improve the reliability of low-frequency operation.

High-efficiency motor platform design:

9-slot 6-pole mature platform, using low iron loss steel plate and high grade magnets, and superimposing high thickness models to effectively improve motor efficiency

Low circulating oil discharge:

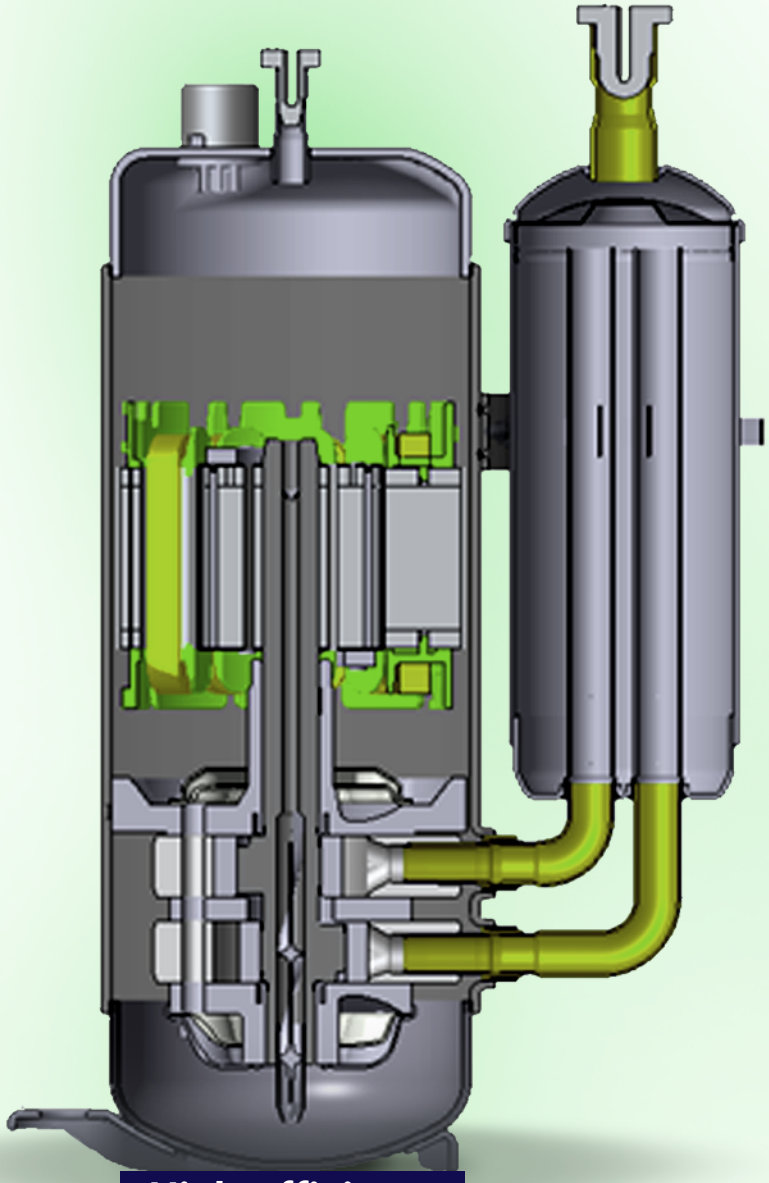
maintained below 1% under all working conditions, which is at the leading level in the industry and better than the average level of competing products (industry average 2%).

Ultra-low temperature operation:

high-quality lubricating oil with anti-wear agent, high lubrication and low viscosity, minimum operating temperature: below -30°C.

Ultra-high temperature operation:

more reliable design, maximum pressure 4.5MPa, operating temperature up to more than 65°C.



High-efficiency high-reliability pump body

Features of SLA Air+

Features	Availability	Features	Availability
Self-Cleaning	Yes	Economy Mode	Yes
Auto-Restart	Yes	Sleep Mode	Yes
Child Lock	Yes	Inner-grooved Copper Tubes	Yes
24 hours Timer Switch	Yes	Golden Fin	Yes
Intelligent Defrosting system	Yes	1W standby	Yes
LCD Wireless Remote Controller	Yes	Multi-folding Evaporator	Yes
Louver position Memory	Yes	Mold Proof Operation	Yes
Self-Diagnosis	Yes	Vertical Auto Swing Louver	Yes
Refrigerant Leak Detection	Yes	Turbo Function	Yes
Anti-rust outdoor Cabinet	Yes	Quiet Mode	Yes
Easy to clean panel	Yes	Wi-Fi Control	Optional
Washable Filter	Yes	Two-Way Draining Option	Optional
Indoor unit operation display lamp	Yes	Cold Catalyst Filter	Optional
Hidden Digital Display	Yes	Ionizer Filter	Optional
Cold Air Protection	Yes	High Density Filter	Optional

Seven silent designs
Pursue a peaceful life

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.

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.

Multiple silent modes

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

Equipped with internationally renowned brand Smart Life Australia compressor as standard

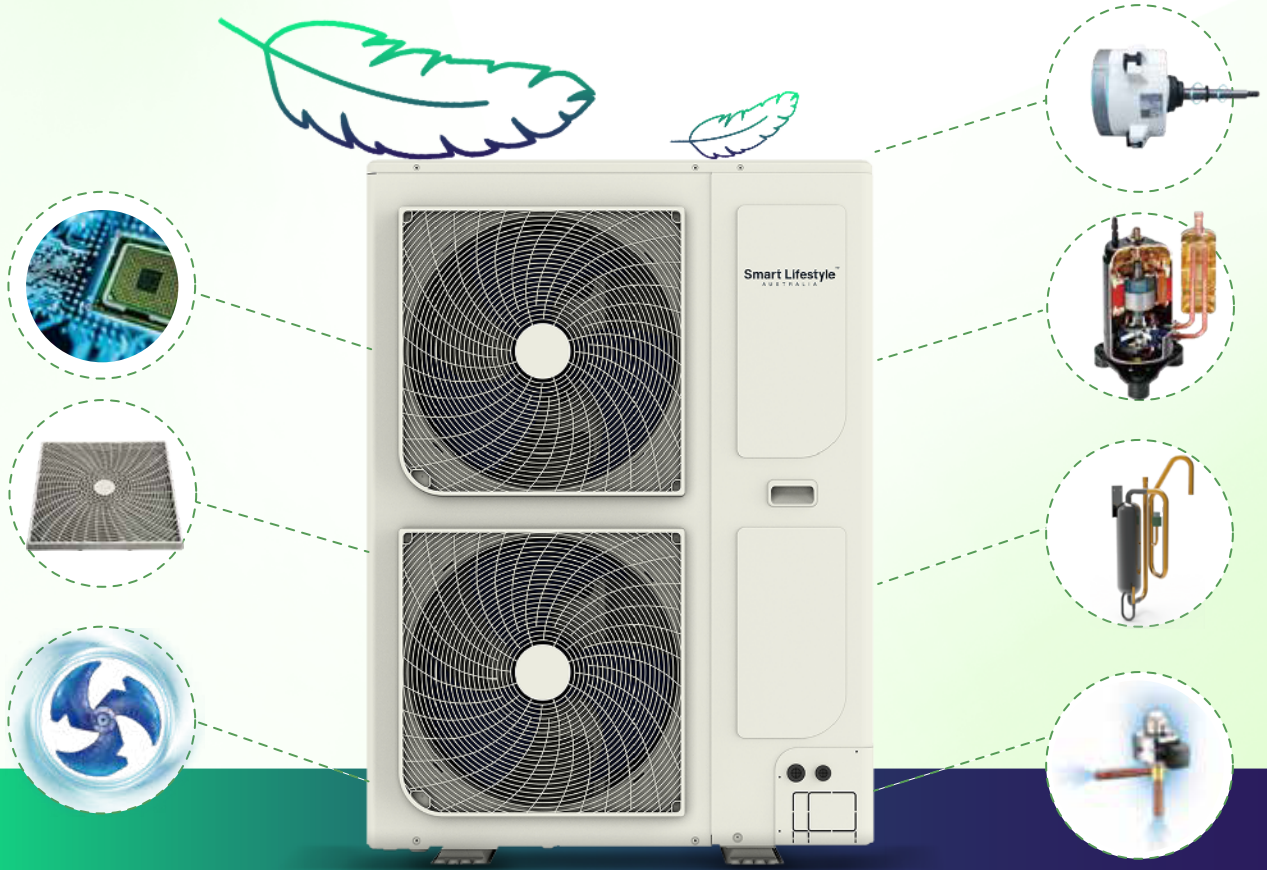
The whole range of products is equipped with Smart Life Australia brand compressors as standard, and the technology and craftsmanship are carefully crafted to escort the quiet and reliable operation of our VRF systems.

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.

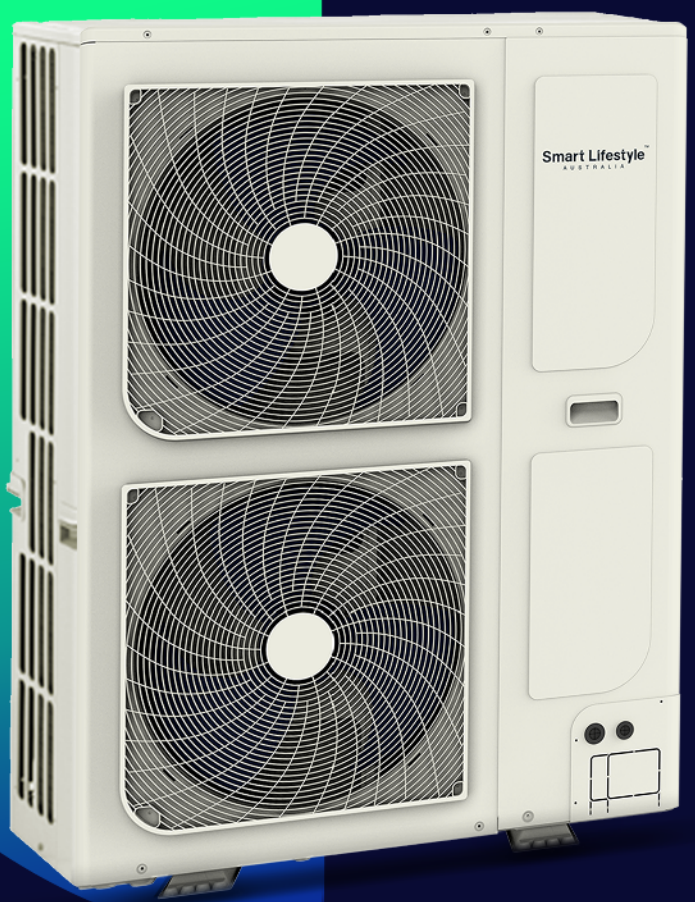
Shock-absorbing piping

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.



Silent and comfortable bass noise cancellation doesn't disturb sleep

Highly integrated design of electronic control



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.

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%.

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.

Ultra-wide temperature zone operation

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

Ultra-wide voltage operation

> 165-265V ultra-wide voltage operation (single phase).

> More adaptable to the power grid.

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.

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.

Standard Optional

Sleep Mode	Turbo Cooling/ heating	Soft LED Setting	Timer Switch	Self diagnosis	Intelligent Defrost	Child Lock	I Feel	Auto restart
●	●	●	●	●	●	●	○	○

The dimensions are as follows:

Room dimension(L×W×H)
4.7m × 4m × 2.6m

Ducted IDU dimension (W×H×D)
900mm × 200mm × 450mm

Both inside and outside showing high quality

Silent electronic expansion valve

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

High-grade moisture-proof flannel

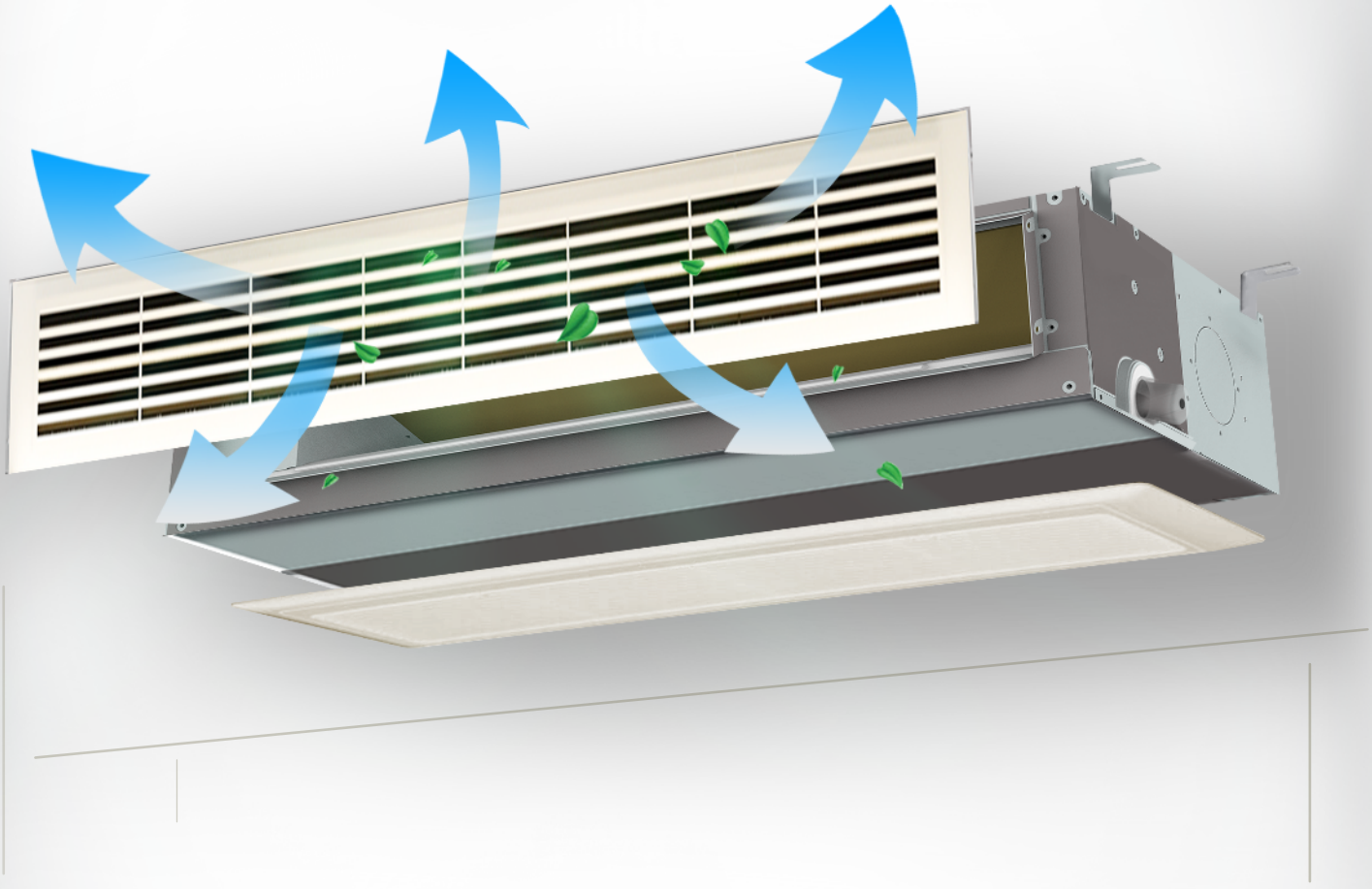
The outer surface is covered with flannel cloth, which has excellent thermal insulation effect and more beautiful appearance.

High efficiency DC motor

High efficient, smooth and silent.

Thickened sheet metal

Sheet metal thickened design, solid and reliable.

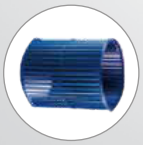


Large spiral angle internally threaded copper pipe

The large helix angle internal threaded copper pipe with enhanced heat exchange design makes heat exchange more efficient.

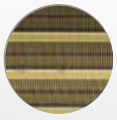
Shock-absorbing piping

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.



Large diameter centrifugal fan

The diameter of the fan blade is large, and the speed is lower and quieter under the same air volume.



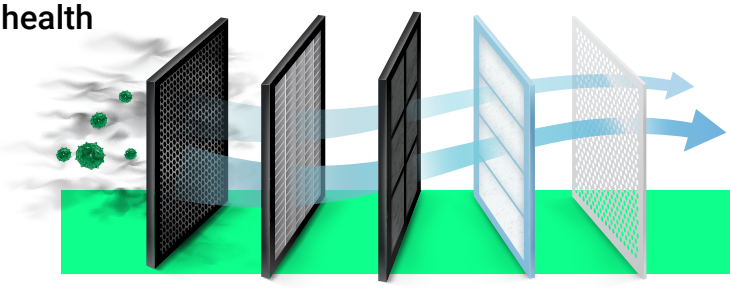
Evaporator

New golden fins enhance heat exchange performance, provide corrosion and stain resistance, and are more durable.

Quality air takes care of the health of your family

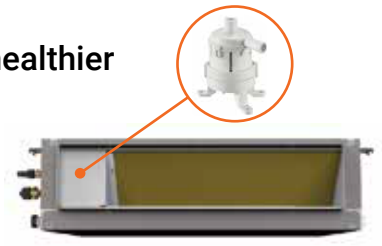
Effectively reduce PM2.5 and protect respiratory health

Our duct product can be optionally equipped with electrostatic precipitator filter, which is efficient to reduce efficiency dust in the air, 30m^2 space, 3 hours, can be reduced more than 90% of PM2.5 content, providing continuous cleanliness for indoor cleansing new air, protect respiratory health.



Prevent overflow and inhibit the growth of bacteria safe to use is healthier

Our duct with optional silent DC water pump and water level switch,improve condensate drainage capacity, ensure smooth drainage, real-time detection the water level height, when the water level height in the water tray reaches the alert position shutdown protection to prevent condensate from spilling into the ceiling and joints of the room problems such as the growth of bacteria in the water pan.



Fresh air connection is standard Every breath is fresh air

When using air conditioning, it is usually customary to close doors and windows, there is no freshness in the room air is introduced, causing a decrease in oxygen content and odor in the indoor air. Our duct is equipped with fresh air interface as standard, which can introduce 12%~20% of new wind, making the indoor air fresher.

Technical Specifications (Outdoor Unit)

Technical Parameters			SLA-MS18-CHDVRF	SLA-MS21-CHDVRF
Cooling	Capacity	kW	18	21.5
	Power Input	kW	2.72	3.83
	AEER	W/W	5.59	4.9633
	TCSPF	Hot/Avg/Cold	6.779/5.967/5.945	6.675/5.968/6.07
Heating	Capacity	kW	22.5	26
	Power Input	kW	3.81	4.83
	ACOP	W/W	5.22	4.9045
	HSPF	Hot/Avg/Cold	6.144/5.564/5.024	6.203/5.407/4.668
Connected Indoor Unit	Total Capacity	kW	50% - 130% of ODU rated capacity	50% - 130% of ODU rated capacity
	Maximum Quantity		11	11
Energy Star for Cooling	Hot & Humid		5	5
	Mixed		4	4
	Cold		4	4.5
Energy Star for Heating	Hot & Humid		4.5	4.5
	Mixed		4	3.5
	Cold		3.5	3
Outdoor ambient temperature operation range	Cooling	°C	-5 to 52	-5 to 52
	Heating	°C	-20 to 24	-20 to 24
Sound power	Outdoor	dB(A)	73	73
Electrical Data				
Power supply	Outdoor		220-240V, 1Ph, 50Hz	220-240V, 1Ph, 50Hz
Rated Input Power	Cooling	W	2720	3830
	Heating	W	3810	4830
Rated current	Cooling	A	12.5	17.6
	Heating	A	17.5	22.1
Max current Cooling/Heating		A	32	32
Max input Cooling/Heating		W	7000	7000
Standby power		W	24	24
Refrigerant and Compressor				
Refrigerant	Type		R32	R32
	Factory Charge	g	6200	6200
Compressor	Type		DC inverter	DC inverter
	Oil Type		POE VG75	POE VG75
	Start-up Method		Soft Start	Soft Start
	Brand		GMCC	GMCC
Outdoor Fan				
Fan Type			Propeller	Propeller
Motor Type			DC	DC
Driver Type			Direct	Direct
Input Power		W	360	360
Quantity			2	2
Speed		rpm	820	820
Air Flow Rate		m3/hr	12500	12500
Pipe Connections				
Liquid Pipe		mm	Φ9.5	Φ9.5
Gas Pipe		mm	Φ19.1	Φ19.1
Type			Flare Nut	Flare Nut
Total piping length		m	≤100	≤100
Farthest piping length	Actual length	m	≤60	≤60
	Equivalent length	m	≤70	≤70
Equivalent length to the farthest piping of the first branch		m	≤20	≤20
Equivalent length to the nearest branch		m	≤15	≤15
Height difference between indoor and outdoor units	Outdoor upper	m	≤30	≤30
	Outdoor lower	m	≤20	≤20
Height difference between indoor units		m	≤8	≤8
Electrical Connection				
Connecting wiring	Size x Core	mm²	3x6.0	3x6.0
Breaker		A	40	40
Signal wire	IDU/ODU		3 cores shield wire 3x1.0 2 cores shield wire 2x1.0	3 cores shield wire 3x1.0 2 cores shield wire 2x1.0
Others				
"Net dimensions (W x Dx H)"	Outdoor	mm	1135×1565×460	1135×1565×460
Net weight	Outdoor	kg	150	150
"Packing dimensions (W x Dx H)"	Outdoor	mm	1240×1730×565	1240×1730×565
Gross weight	Outdoor	kg	170	170

"**Notes:**

1. Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor air temperature 20°C DB; outdoor air temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valve.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber"

Specification Of Low Static Ducted Indoor Unit

Model			SLA-MS22I-CHDVRF	SLA-MS28I-CHDVRF	SLA-MS36I-CHDVRF	SLA-MS45I-CHDVRF	SLA-MS56I-CHDVRF	SLA-MS71I-CHDVRF
Power supply			1-phase, 220-240V, 50/60Hz					
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Power input	W	20	22	34	31	42	56
Heating[2]	Capacity	kW	2.6	3.2	4.0	5.0	6.3	8.0
	Power input	W	20	22	34	31	42	56
Fan motor type			DC					
Air flow rate[3]		m^3/h	450	500	600	720	800	1000
External static pressure[4]		Pa	0-30	0-30	0-30	0-30		0-30
Sound pressure level[5]		dB(A)	21-33	21-34	23-37	29-35	29-36	30-38
Sound power level		dB(A)	37-49	37-50	39-53	45-51	45-52	46-54
Unit	Net dimensions[6] (W×D×H)	mm	700×450×200			900×450×200		1100×450×200
	Packed dimensions (W×D×H)	mm	945×270×555			1145×270×555		1345×270×555
	Net/gross weight	kg	16/19			19/22		24/27.5
Refrigerant type			R32					
Throttle type			Electronic expansion valve					
Design pressure (H/L)		MPa	4.4/2.6					
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7					Φ9.52/Φ15.88
	Drain pipe	mm	Φ25					

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB.
3. Fan motor speed and air flow rate are the highest speed to the lowest speed, for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level. Sound pressure level is measured 1.5m below the unit in an anechoic chamber.
6. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual
7. All specifications are measured at standard external static pressure

Specification Of High Static Ducted Indoor Unit

Indoor Model			SLA-MS18H-CHDVRF
Power supply			1-phase, 220-240V, 50/60Hz
Cooling[1]	Capacity	kW	18.0
	Power input	W	800
Heating[2]	Capacity	kW	22.5
	Power input	W	800
Air flow rate[3]		m3/h	4500/3800/3000
External static pressure[4]		Pa	50/100/150/200
Sound pressure level[5]		dB(A)	51
Sound power level		dB(A)	74
Unit	Net dimensions[6] (W×D×H)	mm	1350×740×455
	Packed dimensions (W×D×H)	mm	1555×625×885
	Net/gross weight	kg	100/122
Refrigerant type			R32
Design pressure (H/L)		MPa	4.4/2.6
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ19.1
	Drain pipe	mm	Φ25/32

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 3 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level. Sound pressure level is measured 1.5m below the unit in an anechoic chamber.
6. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual
7. All specifications are measured at standard external static pressure.

Ducted Set-Up Example

Combination	IDU Heating Capacity, kW	Total IDU Heating Capacity, kW	Total IDU Cooling Capacity, kW	Recommended VRF Model	ODU Cooling Capacity, kW	ODU Heating Capacity, kW	VEECs 6(vii) Cold	VEECs 6(vii) Mild
4 IDU	4.0+4.0 +6.3+8.0	22.3	19.9	SLA-MS18-CHDVRF	18	22.5	100	91
5 IDU	4.0+4.0+5.0 +5.0+8.0	26	23.3	SLA-MS21-CHDVRF	21.5	26	114	103
5 IDU	4.0+4.0+5.0 +6.3+8.0	27.3	24.4	SLA-MS21 -CHDVRF	21.5	26	114	103

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