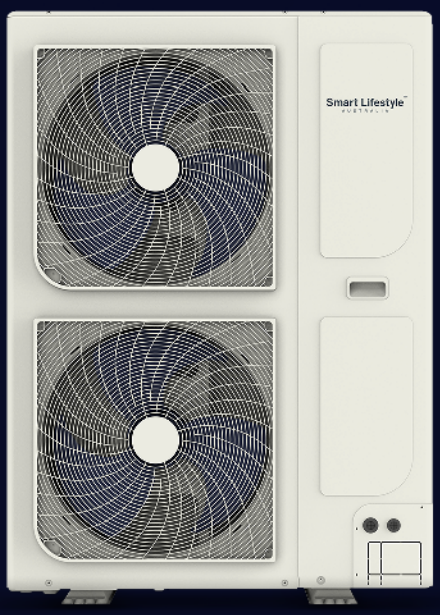
SLA
SMART LIFESTYLE
AUSTRALIA

SLA AIR+

With Wall Mount 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:

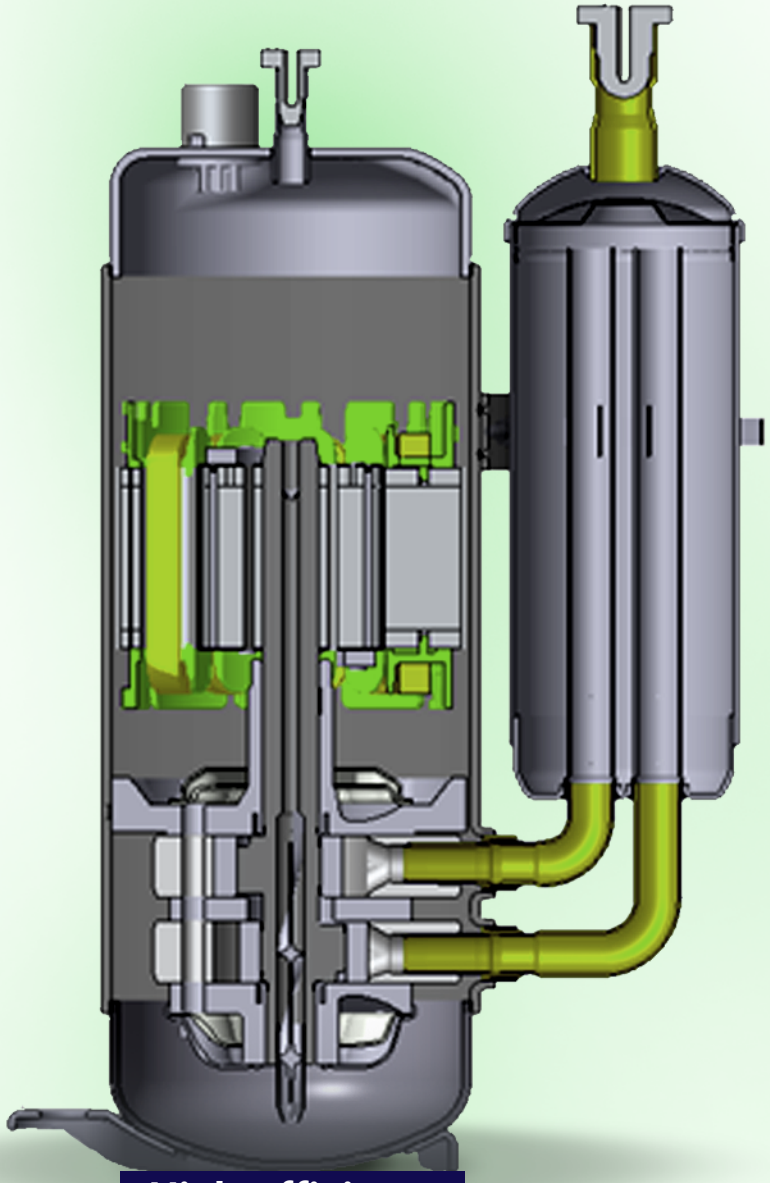
maintained below 1% under all working conditions, which is at the leading level in the industry and better than the average level of competing products (industry average 2%).

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

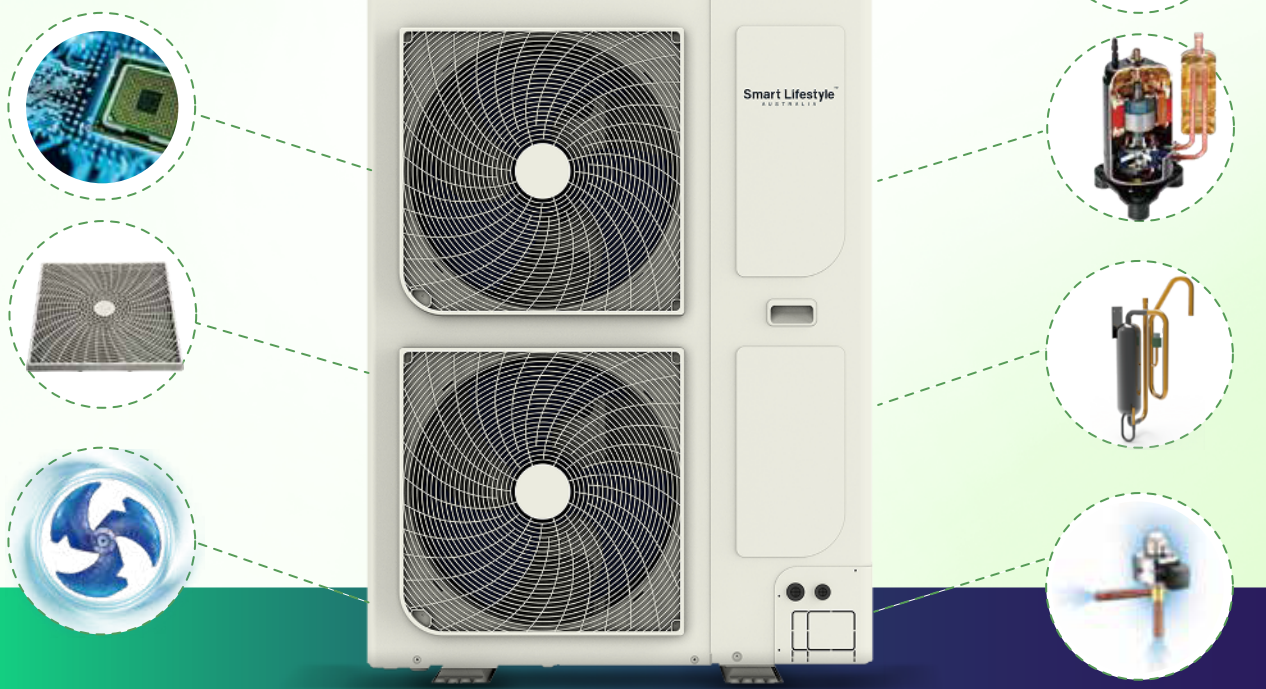
The whole range of products is equipped with Smart Life Australia brand compressors as standard, and the technology and craftsmanship are carefully crafted to escort the quiet and reliable operation of our VRF systems.

Brushless DC motor

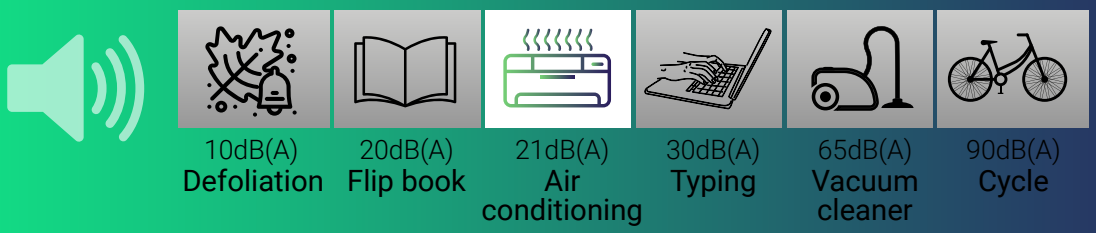
It adopts high-efficiency permanent magnet DC brushless motor to reduce rotation noise, and cooperates with the motor installation shock-absorbing design to make the operation smoother and quieter.

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

Wall mounted IDU dimension (W×H×D)

854mm × 2079mm × 213mm

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 efficiency DC motor

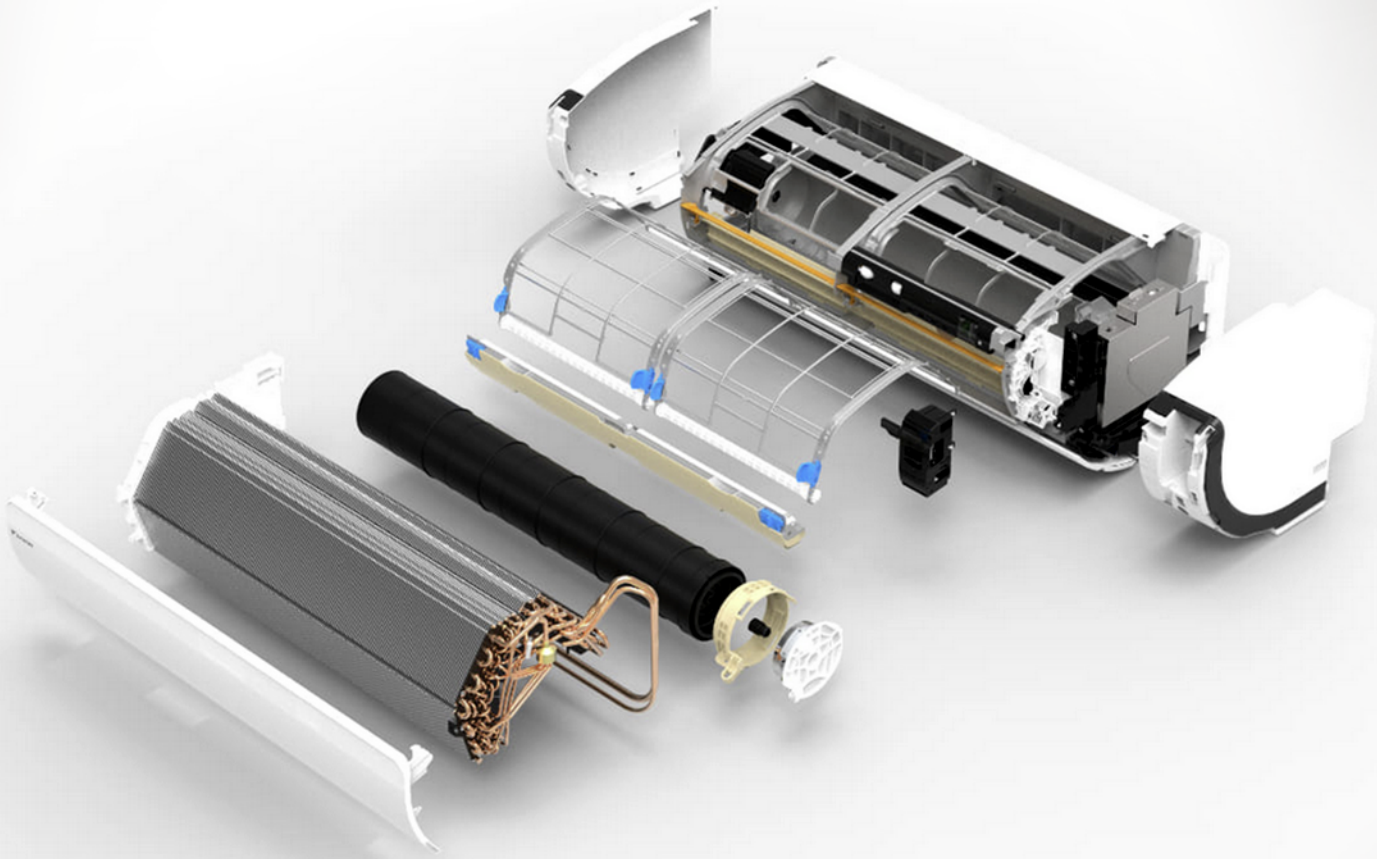
High efficient, smooth and silent.

High-grade moisture-proof flannel

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

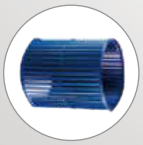
Thickened sheet metal

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.

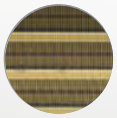


Large diameter centrifugal fan

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

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.



Evaporator

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

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"

Wall Mount Indoor Unit

Model	SLA-MS22IW -CHDVRFR	SLA-MS28W -CHDVRFR	SLA-MS36IW -CHDVRFR	SLA-MS45IW -CHDVRFR	SLA-MS56IW -CHDVRFR	SLA-MS71IW -CHDVRFR	SLA-MS80IW -CHDVRFR
Rated cooling /heating capacity (kW)	2.2kW/2.6kW	2.8kW/3.2kW	3.6kW/4kW	4.5kW/5kW	5.6kW/6.3kW	7.1kW/8kW	8kW/9kW
Rated voltage(V)	220-240V ～ 1PH	220-240V ～ 1PH	220-240V ～ 1PH	220-240V ～ 1PH	220-240V ～ 1PH	220-240V ～ 1PH	220-240V ～ 1PH
Rated frequency(Hz)	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz
Rated cooling capacity(W)	2200	2800	3600	4500	5600	7100	8000
Rated heating capacity(W)	2600	3200	4000	5000	6300	8000	9000
Net weight of indoor unit (kg)	9kg	9kg	9kg	13kg	13kg	14.5kg	14.5kg
Gross weight of indoor unit (kg)	11kg	11kg	11kg	16kg	16kg	17kg	17kg
Product size LxWxD (mm)	854×279×204	854×279×204	854×279×204	950×314×242	950×314×242	1153×314×242	1153×314×242
Packing size LxWxD (mm)	930×366×276	930×366×276	930×366×276	1045×403×327	1045×403×327	1248×400×328	1248×400×328
Indoor discharge air-flow(m3/h)	600m3/h	600m3/h	650m3/h	860m3/h	900m3/h	1220m3/h	1220m3/h
External static pressure(Pa)	0Pa	0Pa	0Pa	0Pa	0Pa	0Pa	0Pa
Indoor Sound pressure noise(dBA)	21-38dB(A)	21-38dB(A)	22-40dB(A)	24-42dB(A)	24-43dB(A)	25-46dB(A)	25-46dB(A)
Indoor Sound power noise (dBA)	37-54dB(A)	37-54dB(A)	38-56dB(A)	40-58dB(A)	40-59dB(A)	41-61dB(A)	41-61dB(A)
Rated indoor unit current(A)	0.16A	0.16A	0.17A	0.23A	0.24A	0.30A	0.30A
Rated indoor unit power(W)	34W	34W	36W	48W	50W	66W	66W
Max operating pressure of heat exchanger (MPa)	4.4MPa	4.4MPa	4.4MPa	4.4MPa	4.4MPa	4.4MPa	4.4MPa

Wall Mount 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
1 (4 heads)	4.0+4.0 +6.3+8.0	22.3	19.9	SLA-MS18-CHDVRF	18	22.5	107	98
2 (5 heads)	4.0+4.0+5.0 +5.0+8.0	26	23.3	SLA-MS21-CHDVRF	21.5	26	122	111
3 (5 heads)	4.0+4.0+5.0 +6.3+8.0	27.3	24.4	SLA-MS21 -CHDVRF	21.5	26	122	111

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