

Air Conditioning

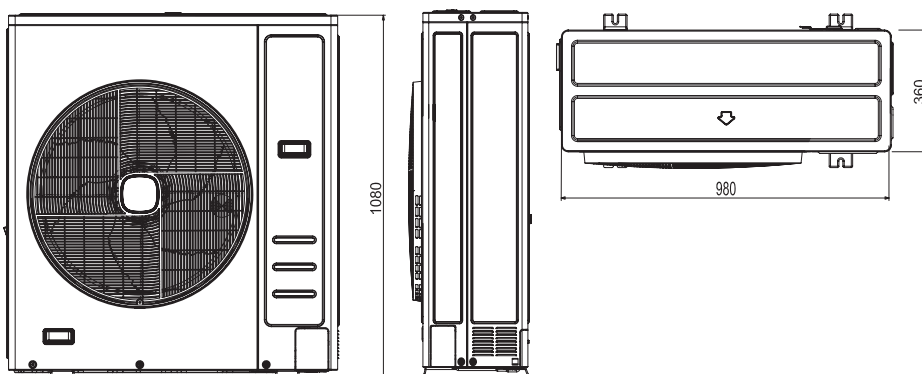
Multi-Head Ultra 18.1kW



Features

- VRF (Variable Refrigerant Flow) system for precise temperature control.
- Wide range of installation options: Connect 2 to 9 indoor units.
- Easy to install compact outdoor unit.
- Smart automatic temperature control.
- Wide temperature range to suit Australia's extreme climate zones.
- Sleep mode and quiet modes for a quiet and comfortable evenings.
- Eco mode - saves up to 30% of power consumption.
- Built-in drip tray.
- No welding or brazing needed - refrigerant piping with flared connections.

Designed by Emerald - proudly Australian-owned since 2006 - this Air Conditioning Multi-Head Ultra 18.1kW system features high speed DC dual-rotor technology for efficient and quiet operation, suitable for commercial and residential use. It operates effectively across a voltage range of 198V to 264V and diverse temperatures. Golden Fin technology enhances anti-corrosion properties, extending its lifespan and maintaining performance. It's design allows flexible installation with long refrigerant piping and includes a strong insect guard for cleaner internals.



Specifications

Outdoor unit			
Emerald model			ACV180U
Power supply			220-240V ~ 50Hz
Cooling operation	Nominal capacity	kW	18.10
	Power consumption	kW	5.14
	Rated current	A	22.3
	EER	W/W	3.52
Heating operation	Nominal capacity	kW	20.40
	Power consumption	kW	4.19
	Rated current	A	18.2
	COP	W/W	4.87
AEER			3.30
ACOP			4.51
HSPF res cold			3.883
TCSPF res cold			5.278
Sound pressure level	Normal mode	dB(A)	75
Outer dimensions	Height	mm	1080
	Width	mm	980
	Depth	mm	360
Packing dimensions	Height	mm	1230
	Width	mm	1100
	Depth	mm	505
Net weight		kg	97
Piping design	Total piping length	m	120
	Height difference between ODU and IDU	m	30
Operation range	Cooling	DB(°C)	-5~55
	Heating	DB(°C)	-20~23

Indoor unit type		Wall Mounted Type					
Emerald model		ACV28W	ACV36W	ACV45W	ACV56W	ACV71W	ACV84W
Power supply		AC 1φ,220~240V/50Hz; AC 1φ,220V/60Hz					
Nominal cooling capacity	kW	2.8	3.6	4.5	5.6	7.1	8.4
Nominal heating capacity	kW	3.6	4.0	5.4	6.7	8.2	8.4
Rated cooling power consumption	W	30	40	30	40	60	80
Rated heating power consumption	W	30	40	40	40	90	80
Sound pressure level (overall scale)	dB(A)	36/35/33/32/30/28	38/35/33/32/30/28	38/37/36/32/31/29	40/38/36/35/33/31	45/42/41/38/35/31	50/48/45/41/36/33
Refrigerant		R410A (Nitrogen charged in case of corrosion)					
Dimension (H×W×D)	mm	270×845×203		315×960×230	315×1120×230		
Net weight	kg	9.5		13	14.5		
Gross weight	kg	13		17.5	19		
Indoor fan air flow rate	m³/h	590/550/520/490/ 450/420	620/550/520/490/ 450/420	690/660/620/540/ 520/480	970/900/850/800/ 730/690	1200/1080/1020/ 900/800/700	1400/1320/1200/ 1020/852/732
Piping connection		Flare-nut connection (with flare nuts)					
Liquid line	mm	Ø6.35mm		Ø6.35m	Ø9.53mm		
Gas line	mm	Ø9.53mm		Ø12.7mm	Ø15.88mm		
Condensate drain		VP16					
Packing dimension (H×W×D)	mm	375×943×310		430×1058×328	430×1223×328		
Packing volume	m³	0.11		0.15	0.17		
Standard accessories		Wall mounting bracket and adaptors (compatible with Emerald 6-head branch header)					

- Cooling operation conditions: Indoor air inlet temperature: 27°C DB/19.0°C WB, outdoor air inlet temperature: 35°C DB
Heating operation conditions: Indoor air inlet temperature: 20°C DB, outdoor air inlet temperature: 27°C DB/19.0°C WB
Piping length: 7.5 meters. Piping lift: 0 meter
- The above air flow rate and noise level are tested with AC 220V power supply and without filter.