

# Air Conditioning

## Multi-Head Ultra 20kW

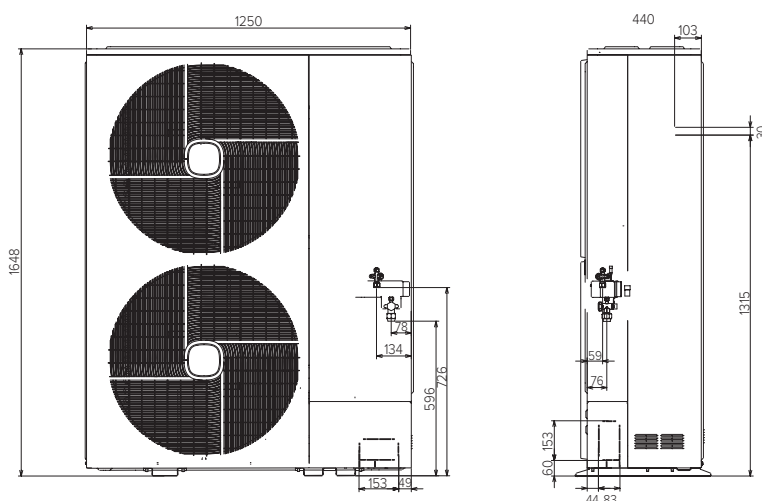


### Features

- VRF (Variable Refrigerant Flow) system for precise temperature control.
- Wide range of installation options: Connect 2 to 9 indoor units.
- High efficiency DC inverter technology.
- Golden Fins for twice the anti-corrosion capability.
- Smart automatic temperature control for comfort.
- Wide temperature range to suit Australia's extreme climate zones.
- Sleep mode and quiet modes for a quiet and comfortable evenings.
- No welding or brazing needed - refrigerant piping with flared connections.
- This product is Demand Response compliant (DRM1, DRM3 & DRM3).

Designed by Emerald - proudly Australian-owned since 2006 - this Air Conditioning Multi-Head Ultra 20kW system is engineered for optimal performance and incorporates high speed DC dual-rotor technology, enhancing efficiency while keeping operational noise to a minimum. Ideal for both residential and commercial environments, it operates effectively within a voltage range of 198V to 264V and adapts to a wide temperature range, making it exceptionally versatile.

The system features advanced Golden Fin technology for enhanced anti-corrosion, increasing durability and functionality. It offers extended refrigerant piping for various architectural needs and robust insect protection.



## Specifications

Outdoor unit			
Emerald model			ACV200U
Power supply			230V/1Ph/50Hz
Cooling operation	Nominal capacity	kW	20.0
	Power consumption	kW	3.90
	Rated current	A	16.96
	EER	W/W	4.76
Heating operation	Nominal capacity	kW	26.0
	Power consumption	kW	5.69
	Rated current	A	24.74
	COP	W/W	4.34
AEER			4.53
ACOP			4.09
HSPF res cold			4.22
TCSPF res cold			5.90
Sound pressure level	Normal mode	dB(A)	58
Outer dimensions	Height	mm	1650
	Width	mm	1250
	Depth	mm	440
Packing dimensions	Height	mm	1818
	Width	mm	1302
	Depth	mm	546
Net weight		kg	165
Piping design	Total piping length	m	120
	Height difference between ODU and IDU	m	30
Operation range	Cooling	DB(°C)	10~50
	Heating	DB(°C)	-20~26

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	mm	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.

The information contained within this brochure is accurate as of the time of publishing.