

Air Conditioning

Ducted Ultra 20kW



Designed by Emerald - proudly Australian-owned since 2006 - this Air Conditioning Ducted 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.

Features

- VRF (Variable Refrigerant Flow) system for precise temperature control.
- High static pressure for stronger airflow.
- Smart automatic temperature control for comfort.
- 6 indoor fan speeds to meet the needs.
- Indoor unit designed to split for easy installation.
- High efficiency DC inverter technology.
- Golden Fins for twice the anti-corrosion capability.
- Built-in drip tray with float switch. Secondary drip tray not a requirement.
- This product is Demand Response compliant (DRM1, DRM3 & DRM3).

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			
Emerald model			ACV200D
Power supply			230V/1Ph/50Hz
Nominal cooling capacity		kW	20.0
Cooling power consumption		kW	1.21
Rated current		A	5.24
Nominal heating capacity		kW	26.0
Heating power consumption		kW	1.21
Rated current		A	5.24
Sound pressure level (overall A scale)		dB	55
Outer dimensions	Height	mm	470
	Width	mm	1300
	Depth	mm	890
Net weight		kg	84.5
Refrigerant		Type	R410A
Indoor fan air flow rate (@200 Pa)		L/S	1306
External static pressure range		Pa	50~250
Piping connection		—	Flare connection
Liquid line		mm	Ø9.53mm (3/8 Inch)
Gas line		mm	Ø19.05mm (3/4 Inch)
Packing dimensions	Height	mm	546
	Width	mm	1440
	Depth	mm	1038

- 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 sound power level is tested based on the En 12102-1:2022 standard this value is tested under a static pressure of 200Pa.
- The external static pressure setting of the machine at the factory is 200Pa.
- 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.