Product data sheet

Air Conditioning

Ducted Pro 16kW

Features

- Indoor unit separates for easy install.
- Advanced corrugated fin design boosts heating capacity by 10%.
- High-efficiency DC inverter fan motor.
- 3 fan speeds to suit various indoor conditions.
- High static pressure enhances airflow.
- Smart automatic temperature control for optimal comfort.

Designed by Emerald - proudly Australian-owned since 2006 - this Air Conditioning Ducted Pro 16kW system is engineered for durability and functionality. It excels in diverse conditions and includes Golden Fin technology to improve anti-corrosion properties, enhancing both performance and lifespan.

It operates efficiently across temperature ranges and voltages from 170V to 270V, using High Speed DC dual-rotor technology for high efficiency and low noise, ideal for residential and commercial settings.

Offering flexible installation with long refrigerant pipes it is suited to different layouts and features robust insect protection for system integrity.

Specifications

Outdoor unit			
Emerald model			**ACR160U**
Power supply			230V/1Ph/50Hz
Cooling Operation	Nominal capacity	kW	16.0
	Power consumption	kW	4.28
	Rated current	A	18.6
	EER	W/W	3.35
Heating Operation	Nominal capacity	kW	18.9
	Power consumption	kW	4.37
	Rated current	A	20.3
	COP	W/W	3.88
AEER			3.33
ACOP			3.85
HSPF res cold			3.428
TCSPF res cold			4.582
Sound Pressure Level		dB(A)	62
Outer Dimensions	Height	mm	1460
	Width	mm	975
	Depth	mm	330
Packing Dimensions	Height	mm	1590
	Width	mm	1040
	Depth	mm	435
Net Weight		kg	98
Piping Design	Total piping length	m	75
	Height difference between ODU and IDU	m	30
Operation Range	Cooling	DB(°C)	10~50
	Heating	DB(°C)	-15~24

Indoor unit			
Emerald model			**ACR160D**
Power supply			230V/1Ph/50Hz
Nominal cooling capacity		kW	16.0
Cooling power consumption		kW	0.94
Rated current		A	4.09
Nominal heating capacity		kW	18.9
Heating power consumption		kW	0.94
Rated current		A	4.09
Sound pressure level		dB	55
Outer Dimensions	Height	mm	360
	Width	mm	1520
	Depth	mm	820
Net weight		kg	66
Refrigerant		Type	R32
Indoor fan air flow rate (@150pa)		L/s	1120
External static pressure range		Pa	50~250
Piping connection		Type	Flare connection
Liquid line		mm	Ø9.52mm (3/8 Inch)
Gas line		mm	Ø15.9mm (5/8 Inch)
Packing dimensions	Height	mm	440
	Width	mm	1650
	Depth	mm	1055

1. 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: 7°C DB/6°C WB
   Piping Length: 7.5 Meters. Piping Lift: 0 Meter
2. The sound power level is tested based on the En 12102-1:2022 standard this value is tested under a static pressure of 60Pa.
3. The external static pressure setting of the machine at the factory is 150Pa.
4. The above air flow rate and noise level are tested with AC 230V power supply and without filter.