

# Air Conditioning

## Multi-Head Ultra 18kW



### Features

- Wide range of installation options: Connect 2 to 11 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
- 5 year system warranty, 2 year labour and service.

This air conditioning 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. Its design allows flexible installation with long refrigerant piping and includes a strong insect guard for cleaner internals. Backed by a 5 year system warranty and 2 year labor warranty, it ensures quality and peace of mind.

# Specifications

Outdoor unit					
Emerald model				ACV180U	
Power supply				220-240V ~ 50Hz	
Cooling operation	Nominal capacity		kW	18.10	
	Power consumption		kW	5.14	
	AEER		W/W	3.30	
Heating operation	Nominal capacity		kW	20.40	
	Power consumption		kW	4.19	
	ACOP		W/W	4.51	
HSPF res cold				3.883	
TCSPF res cold				5.278	
Sound power level 1	Normal mode (cooling/heating)		dB(A)	75	
Cabinet color 2				Ivory white	
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	
Gross weight			kg	110	
Refrigerating installation	Compressor	Type	—	Rotary	
		Quantity	—	1	
	Refrigeration oil	Type	—	RmM68EA	
		Quantity	L	1.8	
	Pre-refrigerant charge	Type	—	R410A	
		Quantity	kg	3.8	
	Refrigerant flow control			—	Micro-computer control expansion valve
	Heat exchanger type			—	Multi-way cross-flow finned tube type
	Gas pipe			mm (in.)	Φ19.05(3/4")
Liquid pipe			mm (in.)	Φ9.53(3/8")	
Connectable indoor units	Quantity		pc	2-11	
	Connection ratio		%	50-150	
Piping design	Max. piping length		m	40	
	Total piping length		m	120	
	Height difference between ODU and IDU		m	30	
			m	30	
Height difference between IDUs		m	10		
Pressure (high/low pressure)			MPa	4.30/2.21	
Fan	Condenser fan	Quantity	—	1	
	Airflow rate		m <sup>3</sup> /min	93	
Operation Range		Cooling	DB(°C)	-5~55	
		Heating	DB(°C)	-20~23	

## Specifications

Indoor unit type		Wall Mounted Type		
Emerald model		ACV28W	ACV45W	ACV71W
Power supply		AC 1φ,220~240V/50Hz; AC 1φ,220V/60Hz		
Nominal cooling capacity	kW	2.8	4.5	7.1
Nominal heating capacity	kW	3.3	5.0	8.0
Cooling power consumption	kW	0.02	0.02	0.05
Heating power consumption	kW	0.02	0.03	0.07
Sound pressure level (overall scale)	dB(A)	36/35/33/32/30/28	38/37/36/32/31/29	45/42/41/38/35/31
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	m <sup>3</sup> /h	590/550/520/490/450/420	690/660/620/540/520/480	1200/1080/1020/900/800/700
Piping connection	Flare-nut connection (with flare nuts)			
Liquid line	mm	Ø6.35mm (1/4")	Ø6.35mm (1/4")	Ø9.52mm (3/8")
Gas line	mm	Ø9.52mm (3/8")	Ø12.7mm (1/2")	Ø15.9mm (5/8")
Condensate drain	mm	Ø16mm		
Packing dimension (H×W×D)	mm	375×943×310	430×1223×328	430×1223×328
Packing volume	m <sup>3</sup>	0.11	0.15	0.17
Standard accessories	Wall mounting bracket			