

Advanced performance with flexible options.

Our Variable Capacity Commercial series has been specifically developed to provide flexible, energy efficient performance with advanced control functionality. Perfect for retail and light commercial applications it comes packed with added value and a host of advanced features included as standard.

It's been developed with flexibility in mind, with a range of configuration choices, an array of advanced control options, and a design that is easy to install and service.



Guaranteed to perform up to 50°C

Commissioning and configuration made easy

Nett (Rated) Capacity - Cooling - Three Phase

29.90 kW	33.00 kW
CRV290T/EVA290T	CRV330T/EVA330T



That's better. That's Actron.

Features

- » Vertical Discharge
- » Phase Protection
- » Smart Fan Control technology
- » 25mm foil faced insulation on indoor unit to improve efficiency.
- » BMS Option
- » Sound Reduction System
- » Efficient EC Inverter Indoor Fan
- » R410A refrigerant
- » Filter notification output
- » Separate run outputs
- » Fault notification output
- » Tru-Inverter technology

Compressor

- » Digital Scroll

Power

- » Three phase – 400V / 3Ph + N / 50Hz

Controller Options

- » LC7-2
- » Group Control
- » NEO
- » LR7

Connectivity & Sensor Options

- » BMS Compatible – Modbus
- » Humidity Sensor – Duct Mount or Surface Mount*
- » Temperature Sensor – Bead or Surface Mount
- » CO2 Sensor*

Additional Options

- » Economy Cycle*
- » 3 Phase Soft Starter
- » Coil Coat Indoor & Outdoor

*Requires Group Control

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Technical Specifications - Split Light Commercial Variable Unit 29.90-33.00kW

Technical Information			
		Three Phase	
OUTDOOR MODEL		CRV290T-T	CRV330T-T
INDOOR MODEL		EVA290T	EVA330T
¹ Total (Gross) Capacity (kW) (AS/NZS3823.1.2)	Cooling	30.70	33.90
	Heating	28.20	31.60
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling (min-max)	29.90 (11.96 - 29.90)	33.00 (13.20 - 33.00)
	Heating (min-max)	29.00 (12.18 - 29.00)	32.50 (13.65- 32.50)
Input Power (kW) (AS/NZS3823.1.2)	Cooling	8.40	10.05
	Heating	7.60	9.48
² EER Rated (AS/NZS3823.1.2)	Cooling	3.56	3.28
³ COP Rated (AS/NZS3823.1.2)	Heating	3.82	3.43
Power Supply (V / Ph / Hz)	Outdoor	400V / 3Ph + N / 50Hz	
	Indoor	400V / 3Ph + N / 50Hz	
Rated Amps (AS/NZS3823.1.2)	Outdoor / Indoor / Max	15.2 / 2.8 / 15.2	19.7 / 3.3 / 19.7
Full Load Amps (AS/NZS3823.1.2)	Outdoor / Indoor / Max	22.6 / 5.0 / 25.0	25.5 / 5.0 / 28.0
⁴ Circuit Breaker Amps (Suggested)		32.0	32.0
IP Rating	Outdoor	IP44	
	Indoor	IP20	
Compressor	Type / No. per Unit	Digital Scroll / 1	
	Starting Method	D.O.L.	
No. of refrigeration Circuits / No. Capacity Stages (Capacity range)		1 / Variable Capacity (40-100%)	
Refrigerant		R-410A	
Fans (Type x Number per unit)	Outdoor	Axial / 6 Pole External Rotor / Direct Drive x2	
	Indoor	Twin Deck Centrifugal / ECM Direct Drive x1	
Airflow Indoor (l/s)	Maximum	1800	2100
	Nominal	1500	1750
	Minimum	1200	1400
External Static Pressure (Pa) @Hi	Maximum Airflow	290	178
	Nominal Airflow	300	300
Outdoor Dimensions (mm)	Depth	820	
	Height	1415	
	Width	1840	
Indoor Dimensions (mm)	Depth	820	
	Height	628	
	Width	1754	
⁵ Nominal Weight (kgs)	Outdoor	263	292
	Indoor	122	126
⁶ Sound Pressure Level (dBA)	Outdoor (low/high fan)	55.9 / 59.9	57.8 / 61.8
⁷ Sound Power Level (dBA)	Outdoor (low/high fan)	72.9 / 76.9	74.8 / 78.8
MEPS Compliant		Yes	Yes
⁸ Demand Response Capability (AS4755.3)		Capable	Capable

Foot Notes 1-8

- Based on unit rating excluding indoor fan kW.
- EER Rated = Energy Efficiency Ratio (Rated Capacity Cooling / Rated Input Cooling).
- COP Rated = Coefficient of Performance (Rated Capacity Heating / Rated Input Heating).
- Suggested minimum cable size. This should be used as a guide only. Refer to AS/NZS 3000 "Australian/New Zealand Wiring Rules" for more details.
- Refer to Catalogue Unit Weight Distribution Guide section for details of weight points.
- Sound Pressure Level at 3m distance is determined as the measured sound pressure at 3m perpendicular to the coil side of the condenser. Sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions.
- Measured based on ISO 3743-1, Determination of Sound Power Levels and Sound Energy Levels of Noise Sources Using Sound Pressure.
- When Demand Response capability is chosen, the air conditioner will fully comply.

Technical Specifications

Features		
OUTDOOR MODEL	CRV290T-T	CRV330T-T
INDOOR MODEL	EVA290T	EVA330T
LC7-2W (White) or LC7-2G (Grey) Wall Controller	Optional	Optional
2nd and 3rd Wall Controller	Optional	Optional
NEO Touch Wall Controller (Up to 2)	Optional	Optional
Blue Epoxy Coat Coil Fin Protection - Indoor & Outdoor Coils	Standard	Standard
Remote Temperature Sensor	Optional	Optional
Remote ON / OFF Capability	Standard	Standard
Manual Inputs Capable for Third Party Control	Standard	Standard
Phase Sequence Protection	Standard	Standard
25mm Foil Faced PE Insulation (Indoor Unit)	Standard	Standard
Removable louvre guard protection for easy cleaning	Standard	Standard
Fault Indication	Standard	Standard
Low Ambient Cooling (+5°C)	Standard	Standard
BMS Compatibility	Optional	Optional
Compressor Sound Jacket	Optional	Optional

Variations		
K - Coil Protection (Indoor / Outdoor Unit)	Optional	Optional
Z - Compressor 3-Phase Soft Starter (Outdoor Unit)	Optional	Optional

Field Piping and Connections			
Refrigerant Charge	Factory Charge - (g)	9000	11300
	Pre-Charge Length - (m)	5	5
	Additional Refrigerant Charge - (g/m)	165	165
Maximum Field Pipe Length Range - (m)		0 - 60	0 - 60
Maximum Vertical Height Differential - (m) included in max length		20	20
Field Pipe Size	Liquid Pipe - mm (inch)	15.9 (5/8)	15.9 (5/8)
	Gas Pipe - mm (inch)	28.6 (1-1/8)	28.6 (1-1/8)
Outdoor Unit	Liquid Pipe - mm (inch)	15.9 (5/8) swaged	15.9 (5/8) swaged
	Gas Pipe - mm (inch)	28.6 (1-1/8) swaged	28.6 (1-1/8) swaged
Indoor Unit Connection	Liquid Pipe - mm (inch)	15.9 (5/8) swaged	15.9 (5/8) swaged
	Gas Pipe - mm (inch)	28.6 (1-1/8) swaged	28.6 (1-1/8) swaged
Condensate Drain Connection - Size		25mm ID	
Air Duct Connection	Supply Duct H x W - (mm)	282 x 1098	
	Return Duct H x W - (mm)	533 x 1451	

Important Notes:

- The Local Electricity Supply Authority may require limits on - starting current, running current and voltage drop, please check prior to purchase.
- When the outdoor temperature exceeds the rated conditions, the cooling/heating capacities may decrease the rated nett values.
- Specifications subject to change without notice.

Rated Conditions:

Cooling: 35°C DB Outdoor / Air Entering Indoor 27°C DB, 19°C WB
Heating: 7°C DB, 6°C WB Outdoor / Air Entering Indoor 20°C DB

Warranty:

For full terms and conditions of ActronAir warranty, please refer to warranty terms document - www.actronair.com.au

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