

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

Heats & cools 5x faster than conventional inverter systems*

Commissioning and configuration made easy

Nett (Rated) Capacity - Cooling - Three Phase - Tru-Inverter

14.00 kW 16.00 kW 19.00 kW
PKV160T-T PKV180T-T PKV210T-T

21.00 kW
PKV240T-T

Nett (Rated) Capacity - Cooling - Three Phase - Digital

29.90 kW 29.20 kW 33.00 kW
PKV290T-T PKV290T-L/R PKV330T-T

32.40 kW
PKV330T-L/R



*Excludes PKV290 & PKV330.

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.
- » Pitched roof
- » BMS Option
- » Sound Reduction System
- » Low ambient cooling option down to +5°C
- » Efficient EC Inverter Indoor Fan
- » R410A refrigerant
- » Filter notification output
- » Run notification outputs
- » Fault notification output
- » Handling Options
- » Drain connections to the condenser and evaporation compartment
- » Power factor correction

Compressor

- » Tru-Inverter Variable Speed Scroll or Digital Scroll

Power

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

Controller Options

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

Connectivity & Sensor Options

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

Additional Options

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

*Requires Group Control.

†Only available on 29kW - 33kW models.

Technical Specifications - Package Light Commercial Variable Unit 14.00-21.00kW

		Three Phase			
		PKV160T-T	PKV180T-T	PKV210T-T	PKV240T-T
¹ Total (Gross) Capacity (kW) (AS/NZS3823.1.2)	Cooling	14.25	16.40	19.40	21.55
	Heating	14.75	16.60	19.60	22.50
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling (min-max)	14.00 (5.60 - 16.00)	16.00 (6.40 - 18.00)	19.00 (7.60 - 21.00)	21.00 (8.40 - 24.00)
	Heating (min-max)	15.00 (6.30 - 17.00)	17.00 (7.14 - 19.00)	20.00 (8.40 - 23.00)	23.00 (9.66 - 25.00)
Input Power (kW) (AS/NZS3823.1.2)	Cooling	4.24	4.96	5.70	6.10
	Heating	4.39	4.85	5.50	6.57
² EER Rated (AS/NZS3823.1.2)	Cooling	3.30	3.23	3.33	3.44
³ COP Rated (AS/NZS3823.1.2)	Heating	3.42	3.51	3.64	3.50
Power Supply - (V / Ph / Hz)		400V / 3Ph + N / 50Hz			
Rated Amps (AS/NZS3823.1.2)		8.2	9.8	11.4	12.2
Full Load Amps (AS/NZS3823.1.2)		14.4	14.5	20.0	21.3
⁴ Circuit Breaker Amps (Suggested)		20.0		25.0	
IP Rating		IP44			
Compressor	Type / No. per Unit	Tru-Inverter Variable Speed Scroll / 1			
	Starting Method	Inbuilt Soft Starting			
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 x 2			
	Indoor	Twin Deck Centrifugal EC Fan / ECM Direct Drive x 1			
Airflow Range Indoor (l/s)	Maximum	900	1020	1200	1320
	Nominal	750	850	1000	1100
	Minimum	600	680	800	880
External Static Pressure (Pa)@Hi	Maximum Airflow	190	69	213	159
	Nominal Airflow	261	216	295	269
Unit Dimensions (mm)	Depth	1250		1310	
	Height	1120		1170	
	Width	1490		1710	
⁵ Nominal Weight (kgs)		259	267	316	331
⁶ Sound Pressure Level (dBA)	Outdoor (low/high fan)	48.0 / 53.0	50.0 / 53.0	49.0 / 59.0	52.0 / 60.0
⁷ Sound Power Level (dBA)	Outdoor (low/high fan)	68.0 / 72.1	69.3 / 72.1	68.2 / 77.0	72.0 / 78.4
MEPS Compliant		Yes	Yes	Yes	Yes
⁸ Demand Response Capability (AS4755.3)		Capable	Capable	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.

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

Technical Specifications

Features				
	PKV160T-T	PKV180T-T	PKV210T-T	PKV240T-T
LC7-2W (White) or LC7-2G (Grey) Wall Controller	Optional	Optional	Optional	Optional
2nd and 3rd Wall Controller	Optional	Optional	Optional	Optional
NEO Touch Wall Controller (Up to 2)	Optional	Optional	Optional	Optional
Blue Epoxy Coat Coil Fin Protection - Indoor & Outdoor Coils	Standard	Standard	Standard	Standard
Remote Temperature Sensor	Optional	Optional	Optional	Optional
Remote ON / OFF Capability	Standard	Standard	Standard	Standard
Manual Inputs Capable for Third Party Control	Standard	Standard	Standard	Standard
Phase Sequence Protection	Standard	Standard	Standard	Standard
Close Cell Foil Faced Insulation	Standard	Standard	Standard	Standard
Removable louvre guard protection for easy cleaning	Standard	Standard	Standard	Standard
Fault Indication	Standard	Standard	Standard	Standard
Low Ambient Cooling (+5°C)	Standard	Standard	Standard	Standard
BMS Compatibility	Optional	Optional	Optional	Optional
Compressor Sound Jacket	Optional	Optional	Optional	Optional
Compressor Soft Start via VSD Controller	Standard	Standard	Standard	Standard

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

Installation Information				
Refrigerant Factory Charge - (g)	5600	6680	6800	8050
Condensate Drain Connection - Size	25.4 mm ID BSP			
Air Duct Connection	Supply Duct H x W - (mm)	200 x 740 mm		240 x 740 mm
	Return Duct H x W - (mm)	348 x 1101 mm		422 x 1203 mm

Technical Specifications - Package Light Commercial Variable Unit 29.90-32.40kW

		Technical Information			
		Three Phase			
		PKV290T-T	PKV290T-L/R	PKV330T-T	PKV330T-L/R
¹ Total (Gross) Capacity (kW) (AS/NZS3823.1.2)	Cooling	30.70	30.05	33.90	33.20
	Heating	28.20	28.85	31.60	32.70
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling	29.90 (11.96 - 29.90)	29.20 (11.68 - 29.20)	33.00 (13.20 - 33.00)	32.40 (12.96 - 32.40)
	Heating	29.00 (12.18 - 29.00)	29.70 (12.47 - 29.70)	32.50 (13.65 - 32.50)	33.50 (14.07 - 33.50)
Input Power (kW) (AS/NZS3823.1.2)	Cooling	8.40	8.74	10.05	9.99
	Heating	7.60	8.50	9.48	10.00
² EER Rated (AS/NZS3823.1.2)	Cooling	3.56	3.34	3.28	3.24
³ COP Rated (AS/NZS3823.1.2)	Heating	3.82	3.49	3.43	3.35
Power Supply - (V / Ph / Hz)		400V / 3Ph + N / 50Hz			
Rated Amps (AS/NZS3823.1.2)		15.2		19.7	
Full Load Amps (AS/NZS3823.1.2)		25.0		28.0	
⁴ Circuit Breaker Amps (Suggested)		32.0			
IP Rating		IP44			
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 x 2			
	Indoor	Single Deck Centrifugal / ECM Direct Drive x 2			
Airflow Range Indoor (l/s)	Maximum	1800		2100	
	Nominal	1500		1750	
	Minimum	1200		1400	
External Static Pressure (Pa)@Hi	Maximum Airflow	290	300	180	100
	Nominal Airflow	300	300	300	300
Unit Dimensions (mm)	Depth	1440			
	Height	1420			
	Width	1840			
⁵ Nominal Weight (kgs)		400	399	433	432
⁶ Sound Pressure Level (dBA)	Outdoor (low/high fan)	56.9 / 60.9		58.8 / 62.8	
⁷ Sound Power Level (dBA)	Outdoor (low/high fan)	73.9 / 77.9		75.8 / 79.8	
MEPS Compliant		Yes	Yes	Yes	Yes
⁸ Demand Response Capability (AS4755.3)		Capable	Capable	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.

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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:

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Technical Specifications

Features				
	PKV290T-T	PKV290T-L/R	PKV330T-T	PKV330T-L/R
LC7-2W (White) or LC7-2G (Grey) Wall Controller	Optional	Optional	Optional	Optional
2nd and 3rd Wall Controller	Optional	Optional	Optional	Optional
NEO Touch Wall Controller (Up to 2)	Optional	Optional	Optional	Optional
Blue Epoxy Coat Coil Fin Protection - Indoor & Outdoor Coils	Standard	Standard	Standard	Standard
Remote Temperature Sensor	Optional	Optional	Optional	Optional
Remote ON / OFF Capability	Standard	Standard	Standard	Standard
Manual Inputs Capable for Third Party Control	Standard	Standard	Standard	Standard
Phase Sequence Protection	Standard	Standard	Standard	Standard
Close Cell Foil Faced Insulation	Standard	Standard	Standard	Standard
Removable louvre guard protection for easy cleaning	Standard	Standard	Standard	Standard
Fault Indication	Standard	Standard	Standard	Standard
Low Ambient Cooling (+5°C)	Standard	Standard	Standard	Standard
BMS Compatibility	Optional	Optional	Optional	Optional
Compressor Sound Jacket	Optional	Optional	Optional	Optional
Compressor Soft Start via VSD Controller	N/A	N/A	N/A	N/A

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

Installation Information					
Refrigerant Factory Charge - (g)	8500	9000	10800	12600	
Condensate Drain Connection - Size	25 mm ID				
Air Duct Connection	Supply Duct H x W - (mm)	283 x 1098 mm	788 x 368 mm	283 x 1098 mm	788 x 368 mm
	Return Duct H x W - (mm)	547 x 1453 mm	753 x 1072 mm	547 x 1453 mm	753 x 1072 mm