

The trusted commercial solution engineered to exceed Australian Standards

Our Commercial Ducted air conditioning system is the perfect solution for retail and light commercial installations. That could be anything from doctor's surgeries to restaurants to classrooms to offices.

Offering robust performance, energy efficiency, installation flexibility and the levels of service ActronAir is renowned for, the Commercial Ducted range provides an overall value package that can't be beaten in the marketplace.



Guaranteed to perform up to 50°C

Flexibility for installation and commissioning

Above and beyond Australian Standards

Nett (Rated) Capacity - Cooling - Three Phase - Under/Over Configuration

19.06 kW	22.35 kW	24.71 kW	28.30 kW
PCG203U	PCG233U	PCG260U	PCG290U

32.00 kW	32.50 kW	39.20 kW
PCG330U	PCG340U	PCG400U

Nett (Rated) Capacity - Cooling - Three Phase - Side by Side Configuration

28.30 kW	32.50 kW
PCG290L/R	PCG330L/R

33.00 kW	39.20 kW
PCG340L/R	PCG400L/R



Features

- » Vertical Discharge
- » Blue fin epoxy coated indoor + outdoor coil protection
- » R410A refrigerant
- » Two-speed outdoor condenser fans minimise outdoor noise
- » Options come in; left/right, under/over, side-by-side, or vertical configurations.

Compressor

- » Compliant Scroll

Power

- » Three phase – Under/Over Configuration – 400V / 3Ph + N / 50Hz
- » Three phase – Side by Side Configuration – 400V / 3Ph + N / 50Hz

Controller Options

- » C7-4
- » Group Control

Connectivity & Sensor Options

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

Additional Options

- » Economy Cycle*
- » Vertical Evaporator†
- » +5°C low ambient cooling operation
- » 3 Phase Soft Starter
- » Phase Sequence Protection Relay
- » Coil Coat Indoor & Outdoor
- » Fault Detection Board

*Requires Group Control

†Under/Over series only.

Technical Specifications - Commercial Package Unit 20-40kW – Under/Over Configuration

Technical Information								
		PCG203U	PCG233U	PCG260U	PCG290U	PCG330U	PCG340U	PCG400U
¹ Total (Gross) Capacity (kW) (AS/NZS3823.1.2)	Cooling	19.56	22.95	25.56	29.50	32.90	33.40	40.80
	Heating	19.40	22.30	24.50	27.40	32.10	34.10	37.85
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling	19.06	22.35	24.71	28.30	32.00	32.50	39.20
	Heating	19.90	23.00	25.25	28.60	33.00	35.00	39.50
Input Power (kW) (AS/NZS3823.1.2)	Cooling	5.86	6.59	7.25	8.45	9.55	9.85	12.76
	Heating	5.63	6.15	7.04	7.97	9.25	9.94	11.97
² EER Rated (AS/NZS3823.1.2)	Cooling	3.25	3.39	3.41	3.35	3.35	3.30	3.07
³ COP Rated (AS/NZS3823.1.2)	Heating	3.53	3.74	3.59	3.59	3.57	3.52	3.30
Power Supply (V / Ph / Hz)		400 / 3Ph + N / 50Hz						
Rated Load Amps (AS/NZS3823.1.2)		13.5	16.8	19.8	24.5	20.7	23.4	36.2
Full Load Amps (AS/NZS3823.1.2)		19.8	22.3	25.0	30.9	34.2	35.9	46.4
⁴ Circuit Breaker Amps		20.0	25.0	32.0	32.0	40.0	40.0	50.0
IP Rating		IP44						
Compressor	Type / No. per Unit	Compliant Scroll / 1					Compliant Scroll / 2	
	Starting Method	D.O.L						
No. Refrigeration Circuits/No. Capacity Stages (Capacity range)		1 / 1 (100% capacity)					2 / 2 (50%, 100% capacity)	
Refrigerant		R410A						
Fans (Type x Number per unit)	Outdoor	Axial / 6 Pole External Rotor / Direct Drive x 2						
	Indoor	Twin Deck Centrifugal / ECM Direct Drive x 1						
Airflow Range Indoor (l/s)	Maximum	1150	1380	1450	1650	1900	1900	2250
	Nominal	1000	1200	1320	1500	1770	1770	2050
	Minimum	900	1020	1120	1275	1450	1450	1750
External Static Pressure (Pa) at:	Maximum Airflow	140	163	145	266	255	255	175
	Nominal Airflow	186	245	208	285	295	295	236
Unit Dimensions (mm)	Depth	1185	1265		1590			1575
	Height	1050	1115		1330			1315
	Width	1460	1685		1875			
⁵ Nominal Weight (kgs)		283	310	355	450	470	500	510
⁶ Sound Pressure Level (dBA)	Outdoor (low/high fan)	52.0 / 54.0	55.0 / 59.0	55.0 / 59.0	56.9 / 60.9	58.8 / 62.8	58.8 / 62.8	62.0 / 65.0
⁷ Sound Power Level (dBA)	Outdoor (low/high fan)	69.0 / 71.0	72.0 / 76.0	72.0 / 76.0	73.9 / 77.9	75.8 / 79.8	75.8 / 79.8	79.0 / 82.0
MEPS Compliant		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Foot Notes 1-7

- 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).
- 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.
- Determination of Sound Power Levels of Noise Sources, AS12172 - Precision Methods for Broad-Band Sources in Reverberation Rooms.

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

Control Features							
	PCG203U	PCG233U	PCG260U	PCG290U	PCG330U	PCG340U	PCG400U
C7-4 Wall Controller (BCA Compliant)	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Home Automation / Remote ON / OFF Capability	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Manual Inputs Capable for Third Party Control	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Remote Temperature Sensor	Optional	Optional	Optional	Optional	Optional	Optional	Optional

Variations							
D - Fault Detection	Optional	Optional	Optional	Optional	Optional	Optional	Optional
H - Horizontal Discharge Fan	Optional	Optional	Optional	Optional	Optional	Optional	Optional
K- Coil Protection (Fan Coil & Outdoor Unit)	Optional	Optional	Optional	Optional	Optional	Optional	Optional
P- Coil Protection (Indoor Coil)	Optional	Optional	Optional	Optional	Optional	Optional	Optional
S - Low Ambient +5°C	Optional	Optional	Optional	Optional	Optional	Optional	Optional
W - Phase Sequence Protection Relay	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Z - Compressor Soft Starter	Optional	Optional	Optional	Optional	Optional	Optional	Optional

Installation Information							
Refrigerant Factory Charge - (g)	7,000	6,800	10,350	10,430	12,320	2 x 6,910	2 x 7,625
Condensate Drain Connection - Size	25mm ID						25.4mm ID BSP Female Thread and 25.4mm ID BSP Socket
Air Duct	Supply Duct H x W - (mm)	300 x 715	300 x 740	300 x 1065			
	Return Duct H x W - (mm)	350 x 1150	400 x 1200	450 x 1250	525 x 1450	525 x 1450	575 x 1595

Technical Specifications - Commercial Package Unit 29-40kW – Side by Side Configuration

Technical Information					
		Three Phase			
		PCG290L/R	PCG330L/R	PCG340L/R	PCG400L/R
¹ Total (Gross) Capacity (kW) (AS/NZS3823.1.2)	Cooling	29.50	33.94	34.16	40.80
	Heating	27.40	31.53	31.82	37.85
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling	28.30	32.50	33.00	39.20
	Heating	28.60	32.90	32.90	39.50
Input Power (kW) (AS/NZS3823.1.2)	Cooling	8.45	9.94	9.96	12.76
	Heating	7.97	10.13	9.82	11.97
² EER Rated (AS/NZS3823.1.2) ³ COP Rated (AS/NZS3823.1.2)	Cooling	3.35	3.27	3.31	3.07
	Heating	3.59	3.25	3.36	3.30
Power Supply (V / Ph / Hz)		400V / 3Ph + N / 50Hz			
Rated Amps (AS/NZS3823.1.2)		24.5	27.6	25.5	36.2
Full Load Amps (AS/NZS3823.1.2)		30.9	34.4	36.1	46.4
⁴ Circuit Breaker Amps		32.0	40.0	40.0	50.0
IP Rating		IP44			
Compressor	Type / No. per Unit	Compliant Scroll / 1		Compliant Scroll / 2	
	Starting Method	D.O.L.			
No. Refrigeration Circuits/No. Capacity Stages (Capacity range)		1 / 1 (100% capacity)		2 / 2 (50%, 100% capacity)	
Refrigerant		R410A			
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	1650	1900	1900	2250
	Nominal	1500	1720	1720	2050
	Minimum	1275	1450	1450	1750
External Static Pressure (Pa) at:	Maximum Airflow	266	233	233	170
	Nominal Airflow	285	296	296	236
Unit Dimensions (mm)	Depth	1590			
	Height	1330			1315
	Width	1875			
⁵ Nominal Weight (kgs)		450	480	500	510
⁶ Sound Pressure Level (dBA) ⁷ Sound Power Level (dBA)	Outdoor (low/high fan)	56.9 / 60.9	58.8 / 62.8	58.8 / 62.8	62.0 / 65.0
	Outdoor (low/high fan)	73.9 / 77.9	75.8 / 79.8	75.8 / 79.8	79.0 / 82.0
MEPS Compliant		Yes	Yes	Yes	Yes

Foot Notes 1-7

- Based on unit rating excluding indoor fan kW.
- EER Rated = Energy Efficiency Ratio (Rated Capacity Cooling / Rated Input Cooling).
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- 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.
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Technical Specifications

Control Features				
	PCG290L/R	PCG330L/R	PCG340L/R	PCG400L/R
C7-4 Wall Controller (BCA Compliant)	Optional	Optional	Optional	Optional
Home Automation / Remote ON / OFF Capability	Standard	Standard	Standard	Standard
Manual Inputs Capable for Third Party Control	Standard	Standard	Standard	Standard
Remote Temperature Sensor	Optional	Optional	Optional	Optional

Variations				
D - Fault Detection	Optional	Optional	Optional	Optional
K- Coil Protection (Outdoor Coil)	Optional	Optional	Optional	Optional
P- Coil Protection (Indoor Coil)	Optional	Optional	Optional	Optional
S - Low Ambient +5°C	Optional	Optional	Optional	Optional
W - Phase Sequence Protection Relay	Optional	Optional	Optional	Optional
Z - Compressor Soft Starter	Optional	Optional	Optional	Optional

Field Information				
Refrigerant Factory Charge - (g)	10,475	12,600	2 x 6000	2 x 7625
Condensate Drain Connection - Size	25mm ID (2 Drain per unit)			25.4mm ID BSP Female Thread and 25.4mm ID BSP Socket
Air Duct	Supply Duct H x W - (mm)	830 x 400		850 x 400
	Return Duct H x W - (mm)	850 x 670	850 x 900	850 x 900