

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

24.71 kW
SCA260C/SCG260E

28.30 kW
SCA290C/SCG290E

32.00 kW
SCA330C/SCG330E

32.50 kW
SCA340C/SCG340E

39.20 kW
SCA400C/SCG400E



That's better. That's Actron.

Features

- » Vertical Discharge
- » Blue fin epoxy coated indoor + outdoor coil protection
- » R410A refrigerant
- » Two-speed outdoor condenser fans minimise outdoor noise

Compressor

- » Compliant Scroll and Scroll

Power

- » Three phase – 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
- » Horizontal Condenser Fan
- » 3 Phase Soft Starter
- » Phase Sequence Protection Relay
- » Coil Coat Indoor & Outdoor
- » Fault Detection Board

*Requires Group Control.

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Technical Specifications - Commercial Split Ducted 24-40kW

Technical Information						
		Three Phase				
OUTDOOR MODEL		SCA260C	SCA290C	SCA330C	SCA340C	SCA400C
INDOOR MODEL		SCG260E	SCG290E	SCG330E	SCG340E	SCG400E
¹ Total (Gross) Capacity (kW) (AS/NZS3823.1.2)	Cooling (Rated)	25.56	29.50	32.90	33.40	40.80
	Heating (Rated)	24.50	27.40	32.10	34.10	37.85
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling	24.71	28.30	32.00	32.50	39.20
	Heating	25.25	28.60	33.00	35.00	39.50
Input Power (kW) (AS/NZS3823.1.2)	Cooling	7.25	8.45	9.55	9.85	12.76
	Heating	7.04	7.97	9.25	9.94	11.97
² EER Rated (AS/NZS3823.1.2)	Cooling	3.41	3.35	3.35	3.30	3.07
³ COP Rated (AS/NZS3823.1.2)	Heating	3.59	3.59	3.57	3.52	3.30
Power Supply (V / Ph / Hz)	Outdoor	400 / 3Ph + N / 50Hz				
	Indoor	230 / 1Ph + N / 50Hz				
Rated Load Amps (AS/NZS3823.1.2)	Total	19.8	24.5	20.7	23.4	36.2
Full Load Amps (AS/NZS3823.1.2)	Outdoor / Indoor / Total	18.2 / 6.8 / 25.0	19.5 / 11.4 / 30.9	22.6 / 11.6 / 34.2	24.3 / 11.6 / 35.9	31.9 /14.5 / 46.4
⁴ Circuit Breaker Amps		32.0	32.0	40.0	40.0	50.0
IP Rating	Outdoor	IP44				
	Indoor	IP20				
Compressor	Type / No. per Unit	Scroll / 1			Scroll / 2	
	Starting Method	D.O.L.				
No. Refrigeration Circuits/No. Capacity Stages (Capacity range)		1 / 1 (100%)			2 / 2 (50, 100%)	
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	1450	1650	1900	1900	2250
	Nominal	1320	1500	1770	1770	2050
	Minimum	1120	1275	1450	1450	1750
External Static Pressure (Pa) at:	Maximum Airflow	145	266	255	255	170
	Nominal Airflow	208	285	295	295	236
Outdoor Dimensions (mm)	Depth	685	875			
	Height	1105	1330			1315
	Width	1685	1875			
Indoor Dimensions (mm)	Depth	695	770			795
	Height	485	535	620	620	680
	Width	1470	1530	1735	1735	1910
⁵ Nominal Weight (kgs)	Outdoor	245	290	305	335	332
	Indoor	90	110	125	130	125
⁶ Sound Pressure Level (dBA)	Outdoor (low/high fan)	54 / 58	55.9 / 59.9	57.8 / 61.8	57.8 / 61.8	61.0 / 64.0
⁷ Sound Power Level (dBA)	Outdoor (low/high fan)	71 / 75	72.9 / 76.9	74.8 / 78.8	74.8 / 78.8	78.0 / 81.0
MEPS Compliant		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

Variations						
OUTDOOR MODEL		SCA260C	SCA290C	SCA330C	SCA340C	SCA400C
INDOOR MODEL		SCG260E	SCG290E	SCG330E	SCG340E	SCG400E
OUTDOOR MODEL	D - Fault Detection (Outdoor Unit)	Optional	Optional	Optional	Optional	Optional
	H - Horizontal Discharge Fan (Outdoor Unit)	Optional	Optional	Optional	Optional	Optional
	K - Coil Protection (Outdoor Unit)	Optional	Optional	Optional	Optional	Optional
	S - Low Ambient +5°C	Optional	Optional	Optional	Optional	Optional
	W - Phase Sequence Protection	Optional	Optional	Optional	Optional	Optional
	Z - Compressor 3-Phase Soft Starter (Outdoor Unit)	Optional	Optional	Optional	Optional	Optional
INDOOR MODEL	P - Coil Protection (Indoor Unit)	Optional	Optional	Optional	Optional	Optional
	V - Upright Fan Coil Vertical Discharge (Indoor Unit)	Optional	Optional	Optional	Optional	Optional

Features & Accessories						
C7-4 Wall Controller (BCA Compliant)		Optional	Optional	Optional	Optional	Optional
Secondary Master Controller		No	No	No	No	No
Blue Epoxy Coat Coil Fin Protection - Indoor & Outdoor Coils		Standard	Standard	Standard	Standard	Standard
Remote Temperature Sensor		Optional	Optional	Optional	Optional	Optional
Home/Building Automation / Remote ON / OFF Capability		Standard	Standard	Standard	Standard	Standard
Manual Inputs Capable for Third Party Control		Standard	Standard	Standard	Standard	Standard
Optional Outdoor Drain Tray - Model		CDT3S	–	–	–	–
Hanging Kits		Standard	Standard	Standard	Standard	Standard
Third Party CZ Zone kit (4 zones)		Optional	Optional	Optional	Optional	Optional
Indoor Unit Integral Fan Coil Safety Tray - Included		Standard	Standard	Standard	Standard	Standard
Return Air Plenum*		PL25R - 2/45S	–	–	–	–
Supply Air Plenum*	2 - Way	PL34S - 2/45S	–	–	–	–
	3 - Way	PL22S - 3/35S PL30S - 3/40S PL34S - 3/45S	–	–	–	–

Field Piping and Connections						
Refrigerant Charge	Factory Charge - (g)	10,700	11,050	12,800	2 x 7,050	2 x 7,850
	Pre-Charge Length - (m)	5	5	5	5	5
	Additional Refrigerant Charge - (g/m)	100	165	165	50 per stage	100 per stage
Maximum Field Pipe Length Range - (m)		0 - 60	0 - 60	0 - 60	0 - 60	0 - 60
Maximum Vertical Height Differential - (m) included in max length		20	20	20	20	20
Field Pipe Size	Liquid Pipe - mm (inch)	15.9 (5/8)	15.9 (5/8)	15.9 (5/8)	9.52 (3/8)	12.70 (1/2)
	Gas Pipe - mm (inch)	25.4 (1)	28.6 (1-1/8)	28.6 (1-1/8)	19.05 (3/4)	22.22 (7/8)
Outdoor Unit	Liquid Pipe - mm (inch)	15.9 (5/8) swaged	15.9 (5/8) swaged	15.9 (5/8) swaged	9.52 (3/8) swaged	12.70 (1/2) swaged
	Gas Pipe - mm (inch)	28.6 (1-1/8) swaged	28.6 (1-1/8) swaged	28.6 (1-1/8) swaged	19.05 (3/4) swaged	22.22 (7/8) swaged
Indoor Unit	Liquid Pipe - mm (inch)	15.9 (5/8) swaged	15.9 (5/8) swaged	15.9 (5/8) swaged	9.52 (3/8) swaged	12.70 (1/2) swaged
	Gas Pipe - mm (inch)	25.40 (1) swaged	28.6 (1-1/8) swaged	28.6 (1-1/8) swaged	22.22 (7/8) cut-off swaged	22.22 (7/8) swaged
Condensate Drain Connection - Size		25mm ID				25.4mm ID BSP Female Thread
Safety Tray Connection - Size		25mm ID				25.4mm ID BSP Socket
Air Duct (Flange Connection)	Supply Duct H x W - (mm)	380 x 825	370 x 1065			
	Return Duct H x W - (mm)	410 x 1190	435 x 1200	520 x 1440	520 x 1440	575 x 1595

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