

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 |
| INDOOR MODEL | Z - Compressor 3-Phase Soft Starter (Outdoor Unit) | Optional | Optional | Optional | Optional | Optional |
| | P - Coil Protection (Indoor Unit) | Optional | Optional | Optional | Optional | Optional |
| INDOOR MODEL | 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 | | CDT35 | - | - | - | - |
| 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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