



Commercial

# COMMERCIAL DUCTED

The trusted commercial solution  
engineered to exceed Australian Standards.



*That's better. That's Actron.*



**ActronAir**



# ActronAir. Because Australia needs Australian air conditioning.

COMMERCIAL  
DUCTED

The year 1984 saw Advanced Australia Fair become our National Anthem, the 1 dollar coin come into circulation and a small family air conditioning business open its doors. Today, ActronAir is a proud Australian company recognised for making world-class air conditioners. Well, it stands to reason. The team at ActronAir experience our harsh Australian conditions first hand, and our climate places demands on air conditioning not found in other parts of the world.

And that's why ActronAir's engineers have developed the most advanced air conditioning systems specifically for the unique and harsh Australian environment.

Made with a superior operating range of -10°C to 50°C, and a host of innovative features, ActronAir's Commercial Ducted system is engineered to withstand the hottest and coldest conditions Australia can throw at it.

Business in Australia expects quality, reliability and service as standard.

## ActronAir's Commercial Ducted. It's the whole package.

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.



### A superior operating range made for Australia

Most overseas air conditioners are only designed with a maximum temperature range of 43°C to 46°C. The made-for-Australia Commercial Ducted range operates up to 50°C. Big deal? Yes.

Given that commercial units are typically found on the roof in the direct sun, this is important. In the Australian sun, where other air conditioners can struggle and even shut down, it's better for business to have a system you can rely on.

Commercial Ducted not only operates at higher temperatures, it also performs at a higher capacity leading up to that peak temperature.

“ Nothing beats performing under extremes. Engineered for Australia, you can trust ActronAir to be there when you need it most. ”

Mark 'Frosty' Winterbottom  
2015 V8 Supercars Champion





### Smarter outside



#### Vertical discharge

The Commercial Ducted unit features a vertical, rather than horizontal, discharge of air. Unlike other brands, we're well aware the location of outdoor units are in confined, tight areas, often nestled up to a wall or obstacle. And we know if you don't let hot air escape it will surround the unit, reducing its performance and in turn lead to higher energy consumption. That's why we've engineered the Commercial Ducted unit to release hot air upwards, so it doesn't have to work harder than it needs to.

### Aussie tough



#### Louvered grille

The powder coated louvered grille guard allows for better airflow and protection in Australia's extreme weather conditions. It's mighty tough – engineered to withstand over 1,000 hours of salt spray exposure under stringent Australian testing standards.

### Here for the long haul



#### Coated coil protection

ActronAir uses blue fin epoxy coated protection on the indoor and outdoor coils of their Commercial Ducted units. It reduces corrosion from the harsh Australian conditions, as well as assisting the defrosting process, thus improving heating efficiency.

### Better choice



Split Ducted



Packaged

### It all adds up



#### Filled with features

Sometimes it's the features you don't see that can save a lot of pain later, such as the Commercial Ducted unit's in-built secondary drain that carries water away if the primary drain blocks. Or the fact that with ActronAir the refrigerants come topped up and ready for use, as opposed to some other manufacturers who only put a small amount in and leave the rest for you.

### Unheard of technology



#### Quieter operation

Performance is enhanced and outdoor noise minimised through our engineers' choice of high quality two speed outdoor condenser fans.

### Blackout proof



#### Auto-restart

Blackout? No problem. Our Commercial Ducted unit restarts automatically in its last programmed setting once the power is restored, which means you don't have to take the time to reprogram your system.



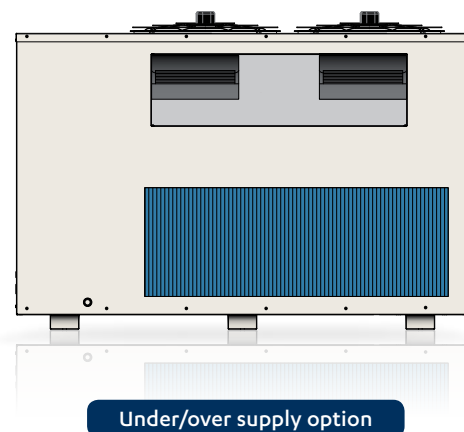


## Outstanding flexibility for installation and commissioning

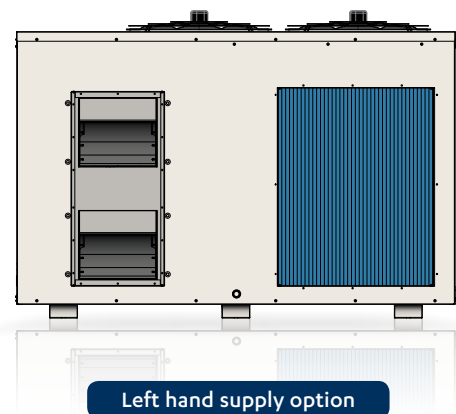
Providing an all-encompassing air conditioning solution means being extraordinarily flexible when it comes to installation and commissioning. Because we are locally based and have our own testing laboratories, our engineers are able to redesign, retest and restructure products, and customise them for particular needs. For example, when it comes to handing you have lots of options, such as left and right, under/over, side by side and vertical configurations.

Matching the system's airflow to existing ductwork has also never been easier. It's as simple as dialling up the airflow with a screwdriver or changing a wire, as opposed to spending hours manually adjusting belts and pulleys.

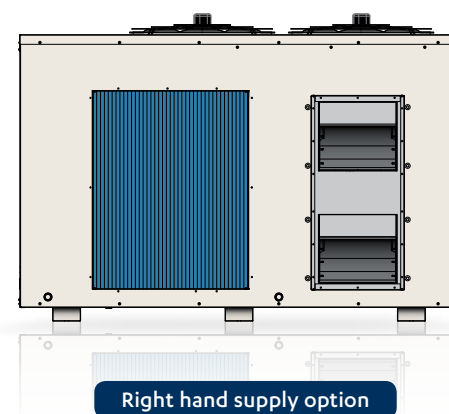
The Commercial Ducted system can also be easily wired up to 3rd party controls, so if you are replacing your system you won't have to replace all your controls as well.



Under/over supply option



Left hand supply option



Right hand supply option

## Engineered for Better Performance

### Value that goes a long way

Value means a lot more than a bottom line price. It's about service, flexibility, running efficiency and especially performance under demanding Australian conditions. Built-in durability and protection are value adds that pay off over the long term, making for lower lifecycle costs.

### Above and beyond Australian Standards

Our Commercial Ducted solution is engineered to not just comply with, but exceed Australian MEPS (Minimum Energy Performance Standards). This approach is a source of company pride from the smallest single-room split systems to commercial systems the size of shipping containers.

## Better Service

Our Commercial Ducted System is designed and manufactured in Australia. So you'll never have to call overseas or wait long for service and support.

ActronAir's call centre is on-site, not in some far flung part of the world. When you call, you'll speak to someone who's responsive and knowledgeable, and based near you.

We also excel at fast response times and having stock on hand, carrying spare parts for products up to five years old and even helping to source spare parts or their equivalent replacements for products up to 12 years old. Our flexibility allows us to get orders built fast, tailored to your specifications, with most variation requirements taken into account. We know how important short lead times are for business, and that waiting for weeks for a part to come from overseas is simply not good enough, and neither is having to talk to someone overseas to order it.

In an industry where some businesses have had to wait 12 weeks for a part to come in from overseas, service counts for a lot. Being locally based and proudly service oriented, we've always gone that extra mile to provide prompt and friendly service to our customers all over Australia.





# Technical Specifications

## Commercial Split Ducted 29-41kW (Three Phase)

| Technical Information   |                          |   |   |                   |                   |  |
|---|--------------------------|---|---|-------------------|-------------------|--|
| OUTDOOR MODEL   |                          | SCA290C   | SCA330C   | SCA300C           | SCA340C           | SCA400C  |
| INDOOR MODEL  |                          | SCG290E   | SCA330E   | SCA300E           | SCA340E           | SCG400E  |
| <sup>1</sup> Total (Gross) Capacity (kW)<br>(AS/NZS3823.1.2)    | Cooling                  | 29.50   | 34.66   | 28.90             | 35.22             | 40.80  |
|   | Heating                  | 27.40   | 32.73   | 27.30             | 33.78             | 37.85  |
| Nett (Rated) Capacity (kW)<br>(AS/NZS3823.1.2)                  | Cooling                  | 28.30   | 33.00   | 27.70             | 33.50             | 39.20  |
|   | Heating                  | 28.60   | 34.50   | 28.50             | 35.50             | 39.50  |
| Input Power (kW)<br>(AS/NZS3823.1.2)                            | Cooling                  | 8.45  | 10.48   | 8.50              | 10.55             | 12.76  |
|   | Heating                  | 7.97  | 10.30   | 8.72              | 10.37             | 11.97  |
| <sup>2</sup> EER Rated (AS/NZS3823.1.2)                         | Cooling                  | 3.35  | 3.15  | 3.26              | 3.18              | 3.07   |
| <sup>3</sup> COP Rated (AS/NZS3823.1.2)                         | Heating                  | 3.59  | 3.35  | 3.27              | 3.42              | 3.30   |
| Power Supply (V / Ph / Hz)                                      | Outdoor                  | 400 - 415V / 3Ph + N / 50Hz                     |   |                   |                   |  |
|   | Indoor                   | 230 - 240V / 1Ph + N / 50Hz                     |   |                   |                   |  |
| Rated Load Amps (AS/NZS3823.1.2)                                | Outdoor / Indoor / Total | 16.1 / 8.4 / 24.5                               | 16.7 / 6.6 / 23.3                                   | 14.6 / 5.5 / 20.1 | 16.5 / 6.9 / 23.4 | 25.7 / 10.5 / 36.2                             |
| Full Load Amps (AS/NZS3823.1.2)                                 | Outdoor / Indoor / Total | 19.5 / 11.4 / 30.9                              | 22.6 / 7.1 / 29.7                                   | 21.0 / 7.1 / 27.1 | 24.3 / 7.1 / 31.4 | 31.9 / 14.5 / 46.4                             |
| <sup>4</sup> Circuit Breaker Amps                               |                          | 32.0  | 32.0  | 32.0              | 32.0              | 50.0   |
| IP Rating   | Outdoor                  | IP44  |   |                   |                   |  |
|   | Indoor                   | IP20  |   |                   |                   |  |
| Compressor  | Type / No. per Unit      | Scroll / 1                                      |   | Scroll / 2        |                   |  |
|   | Starting Method          | D.O.L.  |   | 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 x2 |   |                   |                   |  |
|   | Indoor                   | Twin Deck Centrifugal<br>/ ECM Direct Drive x1  | Twin Deck Centrifugal<br>/ 4 Pole / Direct Drive x1 |                   |                   | Twin Deck Centrifugal<br>/ ECM Direct Drive x1 |
| Airflow Range Indoor (l/s)                                      | Maximum                  | 1650  | 1892  | 1650              | 1892              | 2250   |
|   | Nominal                  | 1500  | 1720  | 1500              | 1720              | 2050   |
|   | Minimum                  | 1275  | 1462  | 1275              | 1462              | 1750   |
| External Static Pressure (Pa) at:                               | Maximum Airflow          | 266   | 132   | 185               | 132               | 170  |
|   | Nominal Airflow          | 285   | 205   | 240               | 205               | 236  |
| Outdoor Dimensions (mm)   | Depth                    | 875   |   |                   |                   |  |
|   | Height                   | 1330  |   |                   |                   | 1315   |
|   | Width                    | 1875  |   |                   |                   |  |
| Indoor Dimensions (mm)  | Depth                    | 770   |   |                   |                   | 795  |
|   | Height                   | 535   | 620   | 535               | 620               | 680  |
|   | Width                    | 1530  | 1735  | 1530              | 1735              | 1910   |
| <sup>5</sup> Nominal Weight (kgs)                               | Outdoor                  | 290   | 305   | 300               | 335               | 332  |
|   | Indoor                   | 110   | 125   | 115               | 130               | 125  |
| <sup>6</sup> Sound Pressure Level (dBA)                         | Outdoor (low/high fan)   | 55.9 / 59.9                                     | 57.8 / 61.8   | 55.9 / 59.9       | 57.8 / 61.8       | 61.0 / 64.0                                    |
| <sup>7</sup> Sound Power Level (dBA)                            | Outdoor (low/high fan)   | 72.9 / 76.9                                     | 74.8 / 78.8   | 72.9 / 76.9       | 74.8 / 78.8       | 78.0 / 81.0                                    |
| MEPS Compliant  |                          | Yes   | Yes   | Yes               | Yes               | Yes  |

| Control Features                              |          |          |          |          |          |
|---|----------|----------|----------|----------|----------|
| C7-4 Wall Controller (BCA Compliant)          | Optional | Optional | Optional | Optional | Optional |
| Remote Temperature Sensor                     | Optional | Optional | Optional | Optional | Optional |
| Home Automation / Remote ON / OFF Capability  | Optional | Optional | Optional | Optional | Optional |
| Manual Inputs Capable for Third Party Control | Optional | Optional | Optional | Optional | Optional |

### 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).
- 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.
- When Demand Response capability is chosen, the air conditioner will fully comply with AS4755.3 in the following modes: DRM 1, 2, 3.

### 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](http://www.actronair.com.au)

| Variations    |  |          |          |          |          |
|---------------|--|----------|----------|----------|----------|
| OUTDOOR MODEL |  | SCA290C  | SCA330C  | SCA300C  | SCA340C  |
| INDOOR MODEL  |  | SCG290E  | SCA330E  | SCA300E  | SCA340E  |
| OUTDOOR MODEL | D - Fault Detection (Outdoor Unit)                     | Optional | Optional | Optional | Optional |
|               | H - Horizontal Discharge Fan (Outdoor Unit)            | Optional | Optional | Optional | Optional |
|               | K- Coil Protection (Outdoor Unit)                      | Optional | Optional | Optional | Optional |
|               | R - <sup>8</sup> Demand Response Capability (AS4755.3) | Optional | Optional | Optional | Optional |
|               | S - Low Ambient +5°C                                   | Optional | Optional | Optional | Optional |
|               | W - Phase Sequence Protection                          | Optional | Optional | Optional | Optional |
| INDOOR MODEL  | Z - Compressor 3-Phase Soft Starter (Outdoor Unit)     | Optional | Optional | Optional | Optional |
|               | P - Coil Protection (Indoor Unit)                      | Optional | Optional | Optional | Optional |
|               | V - Upright Fan Coil Vertical Discharge (Indoor Unit)  | Optional | Optional | Optional | Optional |
|               |  |          |          |          |          |

| Field Piping and Connections                                      |                                       |                     |                     |                           |                           |
|---|---------------------------------------|---------------------|---------------------|---------------------------|---------------------------|
| Refrigerant Charge  | Factory Charge - (g)                  | 11,050              | 12,800              | 2 x 4,725                 | 2 x 7,050                 |
|   | Pre-Charge Length - (m)               | 5                   | 5                   | 5                         | 5                         |
|   | Additional Refrigerant Charge - (g/m) | 165                 | 165                 | 50 per stage              | 100 per stage             |
| Maximum Field Pipe Length Range - (m)                             |                                       | 0 - 60              | 0 - 60              | 0 - 60                    | 0 - 60                    |
| Maximum Vertical Height Differential - (m) included in max length |                                       | 20                  | 20                  | 20                        | 20                        |
| Field Pipe Size   | Liquid Pipe - mm (inch)               | 15.9 (5/8)          | 15.9 (5/8)          | 9.52 (3/8)                | 12.70 (1/2)               |
|   | Gas Pipe - mm (inch)                  | 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   | 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 | 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   | 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 | 22.22 (7/8) cut-off swage | 22.22 (7/8) cut-off swage |
| Condensate Drain Connection - Size                                |                                       | 25mm ID             |                     |                           |                           |
| Safety Tray Connection - Size                                     |                                       | 25mm ID             |                     |                           |                           |
| Air Duct<br>(Flange Connection)                                   | Supply Duct H x W - (mm)              | 370 x 1065          |                     |                           |                           |
|   | Return Duct H x W - (mm)              | 435 x 1200          | 520 x 1440          | 435 x 1200                | 575 x 1595                |





# Technical Specifications

## Commercial Package Unit 15-40kW (Three Phase) – Under/Over Configuration

| Technical Information   |                        |  |             |             |             |   |  |  |             |  |             |
|---|------------------------|--|-------------|-------------|-------------|---|--|--|-------------|--|-------------|
|   |                        | PCG153U  | PCG173U     | PCG203U     | PCG233U     | PCA260U   | PCG290U  | PCA330U  | PCA300U     | PCA340U  | PCG400U     |
| <sup>1</sup> Total (Gross) Capacity (kW)<br>(AS/NZS3823.1.2)    | Cooling                | 15.27  | 17.56       | 19.69       | 22.95       | 25.15   | 29.50  | 34.66  | 28.90       | 35.22  | 40.80       |
|   | Heating                | 14.45  | 17.38       | 18.75       | 22.30       | 24.30   | 27.40  | 32.73  | 27.30       | 33.78  | 37.85       |
| Nett (Rated) Capacity (kW)<br>(AS/NZS3823.1.2)                  | Cooling                | 14.68  | 16.99       | 19.06       | 22.35       | 24.00   | 28.30  | 33.00  | 27.70       | 33.50  | 39.20       |
|   | Heating                | 15.00  | 17.92       | 19.34       | 23.00       | 25.50   | 28.60  | 34.50  | 28.50       | 35.50  | 39.50       |
| Input Power (kW) (AS/NZS3823.1.2)                               | Cooling                | 4.43   | 5.04        | 5.86        | 6.59        | 7.65  | 8.45   | 10.48  | 8.50        | 10.55  | 12.76       |
|   | Heating                | 3.95   | 4.58        | 5.23        | 6.15        | 7.55  | 7.97   | 10.30  | 8.72        | 10.37  | 11.97       |
| <sup>2</sup> EER Rated (AS/NZS3823.1.2)                         | Cooling                | 3.31   | 3.37        | 3.25        | 3.39        | 3.14  | 3.35   | 3.15   | 3.26        | 3.18   | 3.07        |
| <sup>3</sup> COP Rated (AS/NZS3823.1.2)                         | Heating                | 3.80   | 3.91        | 3.70        | 3.74        | 3.38  | 3.59   | 3.35   | 3.27        | 3.42   | 3.30        |
| Power Supply (V / Ph / Hz)                                      |                        | 400 - 415V / 3Ph + N / 50Hz                      |             |             |             |   |  |  |             |  |             |
| Rated Load Amps (AS/NZS3823.1.2)                                |                        | 11.3   | 12.8        | 13.5        | 16.8        | 18.3  | 24.5   | 23.3   | 20.1        | 23.4   | 36.2        |
| Full Load Amps (AS/NZS3823.1.2)                                 |                        | 16.0   | 16.6        | 19.8        | 22.3        | 23.5  | 30.9   | 29.7   | 27.1        | 31.4   | 46.4        |
| <sup>4</sup> Circuit Breaker Amps                               |                        | 20.0   | 20.0        | 20.0        | 25.0        | 25.0  | 32.0   | 32.0   | 32.0        | 32.0   | 50.0        |
| IP Rating   |                        | IP44   |             |             |             |   |  |  |             |  |             |
| Compressor  | Type / No. per Unit    | Compliant Scroll / 1                             |             |             |             |   |  | Compliant Scroll / 2                                 |             |  |             |
|   | Starting Method        | D.O.L.   |             |             |             |   |  | 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<br>/ ECM Direct Drive x 1  |             |             |             | Twin Deck<br>Centrifugal<br>/ 4 Pole<br>/ Direct<br>Drive x 1 | Twin Deck<br>Centrifugal<br>/ ECM<br>Direct<br>Drive x 1 | Twin Deck Centrifugal / 4 Pole<br>/ Direct Drive x 1 |             | Twin Deck<br>Centrifugal<br>/ ECM<br>Direct<br>Drive x 1 |             |
| Airflow Range Indoor (l/s)                                      | Maximum                | 880  | 900         | 1150        | 1380        | 1452  | 1650   | 1892   | 1650        | 1892   | 2250        |
|   | Nominal                | 770  | 850         | 1000        | 1200        | 1320  | 1500   | 1720   | 1500        | 1720   | 2050        |
|   | Minimum                | 690  | 770         | 900         | 1020        | 1122  | 1275   | 1462   | 1275        | 1462   | 1750        |
| External Static Pressure (Pa) at:                               | Maximum Airflow        | 81   | 116         | 140         | 178         | 135   | 266  | 132  | 185         | 132  | 170         |
|   | Nominal Airflow        | 178  | 164         | 186         | 110         | 200   | 285  | 205  | 240         | 205  | 236         |
| Unit Dimensions (mm)  | Depth                  | 1175   | 1185        |             | 1265        |   | 1590   |  |             |  |             |
|   | Height                 | 995  | 1050        |             | 1115        |   | 1330   |  |             |  | 1315        |
|   | Width                  | 1320   | 1460        |             | 1685        |   | 1875   |  |             |  |             |
| <sup>5</sup> Nominal Weight (kgs)                               |                        | 227  | 236         | 283         | 310         | 355   | 450  | 470  | 460         | 500  | 510         |
| <sup>6</sup> Sound Pressure Level (dBA)                         | Outdoor (low/high fan) | 51.0 / 53.0                                      | 52.0 / 54.0 | 52.0 / 54.0 | 55.0 / 59.0 | 55.0 / 59.0   | 56.9 / 60.9  | 58.8 / 62.8  | 56.9 / 60.9 | 58.8 / 62.8  | 62.0 / 65.0 |
| <sup>7</sup> Sound Power Level (dBA)                            | Outdoor (low/high fan) | 68.0 / 70.0                                      | 69.0 / 71.0 | 69.0 / 71.0 | 71.0 / 75.0 | 72.0 / 76.0   | 73.9 / 77.9  | 75.8 / 79.8  | 73.9 / 77.9 | 75.8 / 79.8  | 79.0 / 82.0 |
| MEPS Compliant  |                        | Yes  | Yes         | Yes         | Yes         | Yes   | Yes  | Yes  | Yes         | Yes  | Yes         |

| Control Features                              |          |          |          |          |          |          |          |          |          |          |          |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| C7-4 Wall Controller (BCA Compliant)          | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional |
| Home Automation / Remote ON / OFF Capability  | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional |
| Manual Inputs Capable for Third Party Control | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional |
| Remote Temperature Sensor                     | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional |
| Secondary Master Controller                   | No       | No       | No       | No       | No       | No       | No       | No       | No       | No       | No       |
| Maximum Number of Zones                       | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |

| Variations   |          |          |          |          |          |          |          |          |          |          |          |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| D - Fault Detection                                    | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional |
| K- Coil Protection (Fan Coil & Outdoor Unit)           | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional |
| P- Coil Protection (Indoor Coil)                       | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional |
| R - <sup>8</sup> Demand Response Capability (AS4755.3) | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional |
| S - Low Ambient +5°C                                   | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional |
| W - Phase Sequence Protection Relay                    | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional |
| Z - Compressor Soft Starter                            | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional | Optional |

| Installation Information           |                          |            |      |      |            |            |            |            |            |            |            |
|------------------------------------|--------------------------|------------|------|------|------------|------------|------------|------------|------------|------------|------------|
| Refrigerant Factory Charge - (g)   |                          | 4050       | 6750 | 6850 | 6800       | 9310       | 10,430     | 12,320     | 2 x 4525   | 2 x 6910   | 2 x 7625   |
| Condensate Drain Connection - Size |                          | 20mm OD    |      |      | 25mm ID    |            |            |            |            |            |            |
| Air Duct                           | Supply Duct H x W - (mm) | 300 x 715  |      |      | 300 x 740  | 300 x 850  | 300 x 1065 |            |            |            |            |
|                                    | Return Duct H x W - (mm) | 340 x 1100 |      |      | 350 x 1150 | 400 x 1200 | 400 x 1200 | 450 x 1250 | 525 x 1450 | 450 x 1250 | 525 x 1450 |

### 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).
- 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.
- When Demand Response capability is chosen, the air conditioner will fully comply with AS4755.3 in the following modes: DRM 1, 2, 3.

### 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](http://www.actronair.com.au)

## Commercial Package Unit 29-40kW (Three Phase) – Side by Side Configuration

| Technical Information   |                        |  |             |                            |             |             |
|---|------------------------|--|-------------|----------------------------|-------------|-------------|
|   |                        | PCG290L/R  | PCG330L/R   | PCG300L/R                  | PCG340L/R   | PCG400L/R   |
| <sup>1</sup> Total (Gross) Capacity (kW)<br>(AS/NZS3823.1.2)    | Cooling                | 29.50  | 33.94       | 29.40                      | 34.16       | 40.80       |
|   | Heating                | 27.40  | 31.53       | 27.20                      | 31.82       | 37.85       |
| Nett (Rated) Capacity (kW)<br>(AS/NZS3823.1.2)                  | Cooling                | 28.30  | 32.50       | 28.20                      | 33.00       | 39.20       |
|   | Heating                | 28.60  | 32.90       | 28.30                      | 32.90       | 39.50       |
| Input Power (kW)<br>(AS/NZS3823.1.2)                            | Cooling                | 8.45   | 9.94        | 8.55                       | 9.96        | 12.76       |
|   | Heating                | 7.97   | 10.13       | 8.15                       | 9.82        | 11.97       |
| <sup>2</sup> EER Rated (AS/NZS3823.1.2)                         | Cooling                | 3.35   | 3.27        | 3.30                       | 3.31        | 3.07        |
| <sup>3</sup> COP Rated (AS/NZS3823.1.2)                         | Heating                | 3.59   | 3.25        | 3.47                       | 3.36        | 3.30        |
| Power Supply (V / Ph / Hz)                                      |                        | 400V / 3Ph + N / 50Hz                            |             |                            |             |             |
| Rated Amps (AS/NZS3823.1.2)                                     |                        | 24.5   | 27.6        | 22.2                       | 25.5        | 36.2        |
| Full Load Amps (AS/NZS3823.1.2)                                 |                        | 30.9   | 34.4        | 31.4                       | 36.1        | 46.4        |
| <sup>4</sup> Circuit Breaker Amps                               |                        | 32.0   | 40.0        | 32.0                       | 40.0        | 50.0        |
| IP Rating   |                        | IP44   |             |                            |             |             |
| Compressor  | Type / No. per Unit    | Compliant Scroll / 1                             |             | Compliant Scroll / 2       |             |             |
|   | Starting Method        | D.O.L.   |             | 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        | 1650                       | 1900        | 2250        |
|   | Nominal                | 1500   | 1720        | 1500                       | 1720        | 2050        |
|   | Minimum                | 1275   | 1450        | 1275                       | 1450        | 1750        |
| External Static Pressure (Pa) at:                               | Maximum Airflow        | 266  | 233         | 266                        | 233         | 170         |
|   | Nominal Airflow        | 285  | 296         | 285                        | 296         | 236         |
| Unit Dimensions (mm)  | Depth                  | 1590   |             |                            |             |             |
|   | Height                 | 1330   |             |                            |             | 1315        |
|   | Width                  | 1875   |             |                            |             |             |
| <sup>5</sup> Nominal Weight (kgs)                               |                        | 450  | 480         | 470                        | 500         | 510         |
| <sup>6</sup> Sound Pressure Level (dBA)                         | Outdoor (low/high fan) | 56.9 / 60.9                                      | 58.8 / 62.8 | 56.9 / 60.9                | 58.8 / 62.8 | 62.0 / 65.0 |
| <sup>7</sup> Sound Power Level (dBA)                            | Outdoor (low/high fan) | 73.9 / 77.9                                      | 75.8 / 79.8 | 73.9 / 77.9                | 75.8 / 79.8 | 79.0 / 82.0 |
| MEPS Compliant  |                        | Yes  | Yes         | Yes                        | Yes         | Yes         |

| Control Features                              |          |          |          |          |          |
|---|----------|----------|----------|----------|----------|
| C7-4 Wall Controller (BCA Compliant)          | Optional | Optional | Optional | Optional | Optional |
| Home Automation / Remote ON / OFF Capability  | Optional | Optional | Optional | Optional | Optional |
| Manual Inputs Capable for Third Party Control | Optional | Optional | Optional | Optional | Optional |
| Remote Temperature Sensor                     | Optional | Optional | Optional | Optional | Optional |

| Variations   |          |          |          |          |          |
|--|----------|----------|----------|----------|----------|
| D - Fault Detection                                    | Optional | Optional | Optional | Optional | Optional |
| K- Coil Protection (Outdoor Coil)                      | Optional | Optional | Optional | Optional | Optional |
| P- Coil Protection (Indoor Coil)                       | Optional | Optional | Optional | Optional | Optional |
| R - <sup>8</sup> Demand Response Capability (AS4755.3) | Optional | Optional | Optional | Optional | Optional |
| S - Low Ambient +5°C                                   | Optional | Optional | Optional | Optional | Optional |
| W - Phase Sequence Protection Relay                    | Optional | Optional | Optional | Optional | Optional |
| Z - Compressor Soft Starter                            | Optional | Optional | Optional | Optional | Optional |

| Field Information                  |                          |                            |           |           |           |
|------------------------------------|--------------------------|----------------------------|-----------|-----------|-----------|
| Refrigerant Factory Charge - (g)   |                          | 10,475                     | 12,600    | 2 x 4525  | 2 x 6000  |
| Condensate Drain Connection - Size |                          | 25mm ID (2 Drain per unit) |           |           |           |
| Air Duct                           | Supply Duct H x W - (mm) | 830 x 400                  |           |           |           |
|                                    | Return Duct H x W - (mm) | 850 x 670                  | 850 x 900 | 850 x 670 | 850 x 900 |





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