# GENESIS Package 72-96kW

Redefining the Future of Commercial Comfort

## Practical Innovation for Commercial Comfort.

GENESIS isn't just another system—it's a smarter, more efficient way to keep Australian commercial spaces comfortable. Built for today's demands and tomorrow's challenges, GENESIS delivers reliable performance, energy savings, and sustainability—all in one powerful **package**.

## Smarter Airflow, Bigger Energy Savings.

The new 72 ~ 96kW GENESIS Packaged Units feature high-static EC Plug Fans that deliver powerful airflow for demanding applications—up to **500Pa** of external static pressure. Not only do they handle tough jobs with ease, they're also built for efficiency—using up to 20% less energy than AC Plug Fans and up to 50% less than traditional belt-driven fans.

### Built for Aussie Conditions

Built to handle our country's toughest weather extremes, GENESIS Package units delivers reliable comfort from **-15°C up to 57°C**.

### Inverter Scroll Compressors

Delivering precise capacity control, greater energy efficiency, improved part-load performance, and consistent comfort across changing demands.

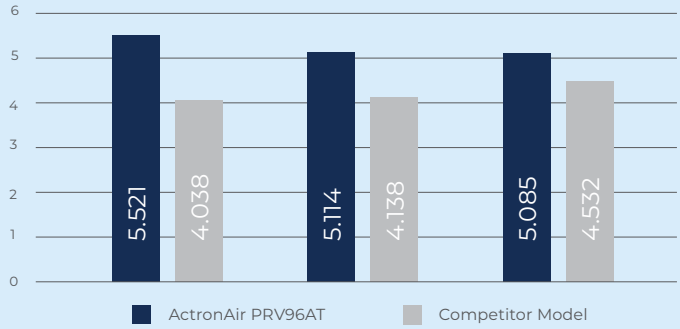
### Humidity Control with Dry Mode

Enhances indoor comfort with **Dry Mode**, by lowering absolute humidity.

## Redefining Efficiency, Outperforming the rest.

The GENESIS 72 ~ 96kW Packaged Units set a new benchmark with significantly higher Seasonal Energy Efficiency Ratios (SEER) compared to competitors. By using less energy to deliver more performance, GENESIS helps reduce operating costs while improving overall efficiency.

COMMERCIAL TOTAL COOLING SEASONAL PERFORMANCE FACTOR [TCSPF]

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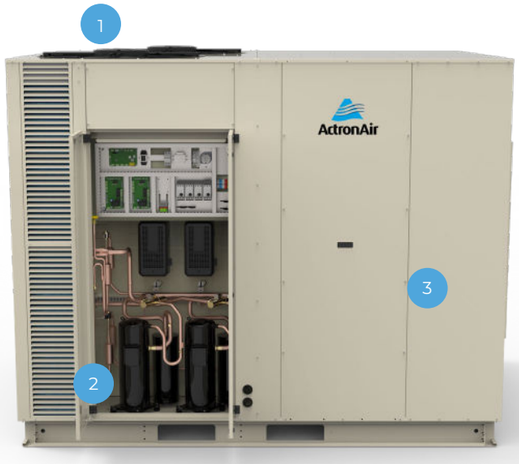


**1 High Static Condenser EC Fans**

Not only do these high static EC fans offer exceptional efficiency, but they also deliver a quieter performance. They are specifically designed to provide the rated outdoor airflow up to 90Pa.

**2 Dual Inverter Compressors**

Offering precise temperature control to maintain consistently comfortable indoor conditions. By dynamically adjusting to demand, they minimise energy consumption while maximising efficiency, reducing running costs without compromising on comfort.

**3 R32 Leak Detection Sensor**

The built-in R32 Leak Detection Sensor enhances safety by quickly and accurately detecting refrigerant leaks. Designed for long-term reliability, it self-monitors for up to 15 years, providing continuous protection and peace of mind.

**4 Double-Sloped Main Drain Tray**

The main drain tray features a clever double-slope design, which greatly improves drainage efficiency and helps prevent water buildup within the unit.

**5 Pull Out Filter Tray***

Pull-out Filter Tray, maintenance made effortless with its hassle-free removal. Simply pull out the tray, and maintenance becomes a breeze.

* Filters not included

**6 Louvered Grille Guard**

Featuring a unique powder-coated louvered grille guard, this product ensures protection against Australia's toughest conditions. From hailstorms to the relentless heat of the sun, this design is specifically engineered to provide a strong defense against the elements.

**7 Condensate Drain**

The outdoor unit's integrated condensate drain ensures efficient removal of excess moisture, helping to prevent water buildup, protect components, and maintain reliable performance in all conditions.

**8 High Static EC Plug Fans**

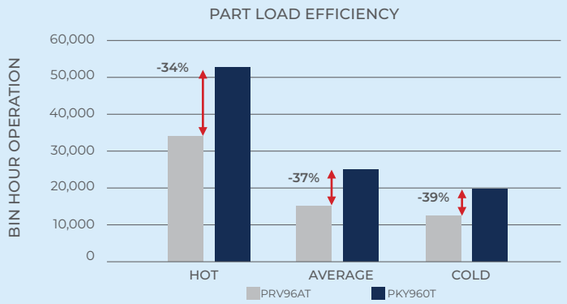
Designed for demanding applications, High Static EC Plug Fans deliver precise airflow control up to 500Pa, offering quieter operation, improved energy efficiency, and greater flexibility for commercial installations.

**9 Insulated Performance**

Comes with 25mm foil-faced insulation as a standard feature, enhancing efficiency by minimising heat transfer.

## Adaptive Efficiency for Real-World Performance.

The GENESIS 72 ~ 96kW series is built to perform efficiently under real conditions, delivering up to **39%** energy savings at **partial load**. Since commercial systems often operate below peak capacity, GENESIS is optimised to run smarter during off-peak times—cutting energy use without compromising comfort.




* 3 Climate Zones referenced - Hot, Average & Cold along with bin hour operations in each of these climate zones, providing us data on two variables - different climates and part load vs full load



# GENESIS 72 ~ 96kW PACKAGE

Engineered to Perform, Built to Last.

## Specification Tables

| Features | |
|---|---|
| Tru-Inverter Variable Speed Compressor & Drive Technology | On-Site Interchangeable Panels (front & side) |
| Pre-charged with R32 Refrigerant | Hydrophilic Blue Fin Coat Coil Protection - Indoor & Outdoor |
| Variable Speed ECM Axial Fan | Powder Coated Outdoor Unit with removable Louvred Coil Guard |
| ECM High Efficiency Indoor & Outdoor Fan Motor | Adjustable Indoor Airflow |
| Bi-Flow Electronic Expansion Valves | Built-In Leak Detection Sensor |
| Low Ambient Cooling Operation to +5°C | Bluetooth Commissioning Tool (BCT) |
| Adaptive Demand Defrost | Manual Inputs Capable for Third Party Control |
| 25mm Foil Faced Polyethylene Insulation | Dry Mode via NEO Controller |

| Options | |
|---|---|
| Additional Outdoor Coil Coat Protection | Variable Fan Technology |
| Additional Indoor Coil Coat Protection | Weather Hood |
| Economiser with Spill Air | Compressor Jacket |
| Economiser without Spill Air | CO2 Sensor (CC02-MOD) |
| 3rd Party Economiser Control | Duct Sensor (AERSS) |
| Condensate Indoor Overflow Sensor | Wall Mount Remote Sensor (LM-RS) |
| Supply Air Temperature Sensor | Humidity Sensor Surface/Duct Mount |
| Up to 32 Handing Options | BMS Compatibility |
| Desuperheater (Hot Water Heat Reclaim) | Controls - LC7 / NEO / Group Controller |

| Installation Information | | | | |
|---|---|---|---|---|
| Model | | PRV72AT | PRV85AT | PRV96AT |
| Refrigerant Factory Charge (grams) | Circuit 1 | 8750 | 10300 | 14250 |
| | Circuit 2 | 8750 | 11120 | 14500 |
| Condensate Drain Connection Size | | 25.4mm ID BSP | | |
| Air Duct Connection (H X W) | Supply Duct | 379 x 1500 | 464 x 1576 | |
| | Return Duct | 379 x 1500 | 464 x 1576 | |

## Controls

| Features | Group Controller | NEO | LC7 |
|---|---|---|---|
| Colour Options | Black | White or Black | White or Grey |
| Touch Screen | ✓ | ✓ | × |
| Commercial Dashboards | ✓ | ✓ | × |
| Multiple System Connectivity / Group Control | ✓ | × | × |
| Onboard Temperature Sensor | × | ✓ | ✓ |
| Optional Remote Sensor | × | ✓ | ✓ |
| Set Point Displayed | ✓ | ✓ | ✓ |
| One Touch Temporary Room Temperature Display | × | ✓ | ✓ |
| Optional Temperature Set Point and Time Display | ✓ | ✓ | ✓ |
| Auto Heat / Cool Change Over | ✓ | ✓ | ✓ |
| Self Diagnostic Fault Code Display | Fault Indicator Only | ✓ | ✓ |
| 24 Hour Timer | ✓ | ✓ | ✓ |
| 7 Day Time Clock | ✓ | ✓ | ✓ |
| Set Back / Away Temperature | × | ✓ | ✓ |
| Adjustable Dead Band | ✓ | ✓ | ✓ |
| Adjustable Set Point in 0.5C Increments | ✓ | ✓ | ✓ |
| Dual Control Capability - Optional (Using Mimic Logic) | × | ✓ | ✓ |
| Return Air Filter Indicator | ✓ | ✓ | ✓ |
| After Hours Timer Function (NCC Compliant) | ✓ | ✓ | ✓ |
| Damper Settings | ✓ | ✓ | × |
| NFC Technology | × | ✓ | ✓ |
| Set Temperature Lock | ✓ | ✓ | ✓ |
| Controller Lock | ✓ | ✓ | ✓ |
| Diagnostic Dashboard | ✓ | ✓ | × |
| Built-In Wi-Fi | × | ✓ | × |
| Over The Air Updates | × | ✓ | × |
| NCC Compliant | ✓ | ✓ | ✓ |

Legend: ✓ = Available × = Not Available

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# GENESIS 72 ~ 96kW PACKAGE

Tailored Comfort, Built for Businesses

## Specification Table

| Technical Specifications | | | | |
|---|---|---|---|---|
| | | PRV72AT | PRV85AT | PRV96AT |
| Nett (Rated) Capacity (kW) (AS/NZS3823.1.2) | Cooling (Min/Rated/ Tru-Max) | 13.10 / 72.00 / 78.65 | 13.58 / 85.00 / 93.00 | 17.48 / 96.00 / 106.2 |
| | Heating (Min/Rated/Tru-Max) | 12.20 / 73.00 / 80.30 | 13.29 / 86.00 / 94.00 | 16.57 / 97.00 / 109.0 |
| Input Power (kW) (AS/NZS3823.1.2) | Cooling | 20.16 | 20.81 | 25.90 |
| | Heating | 19.07 | 23.915 | 25.05 |
| [1] EER | Rated | 3.57 | 3.29 | 3.71 |
| | Tru-Max | 3.46 | 2.91 | 3.33 |
| [2] COP | Rated | 3.83 | 3.59 | 3.87 |
| | Tru-Max | 3.81 | 3.73 | 3.34 |
| Power Supply | | 400V / 3Ph + N / 50Hz | | |
| Seasonal Performance - Commercial | TCSPF - Cold / Avg. / Hot | 6.089 / 5.415 / 5.292 | 6.909 / 5.728 / 5.426 | 5.521 / 5.114 / 5.085 |
| | HSPF - Cold / Avg. / Hot | 3.181 / 3.825 / 4.343 | 3.330 / 3.871 / 4.184 | 4.331 / 3.809 / 3.172 |
| Rated Amps (AS/NZS3823.1.2) | | 31.7 | 39.6 | 40 |
| Full Load Amps (AS/NZS3823.1.2) Outdoor / Indoor / Total | | 48.90 / 5.00 / 48.90 | 61.6 / 8.33 / 61.6 | 52.69 / 8.71 / 61.4 |
| [3] Circuit Breaker Amps (Suggested) | | 63.0 | 63.0 | 63.0 |
| IP Rating | | IP44 | | |
| Compressor | Type / No. per Unit | Inverter Variable Speed Scroll / 2 | | |
| | Starting Method | Inbuilt Soft Starting | | |
| No. of refrigeration Circuits / No. Capacity Stages (Capacity range) | | 2 / Variable Capacity | | |
| Refrigerant | | R32 | | |
| Fans (Type x Number per unit) | Outdoor | Variable Speed ECM Axial Fan x 2 | | |
| | Indoor | Variable Speed EC Plug Fan x 1 | Variable Speed EC Plug Fan x 2 | |
| Airflow Range Indoor (l/s) | Maximum | 4500 | 5350 | 6000 |
| | Nominal | 3800 | 4450 | 5000 |
| | Minimum | 1700 | 2000 | 2250 |
| Unit Dimensions (mm) | Depth | 2375 | 2960 | 2960 |
| | Height | 1910 | 2400 | 2400 |
| | Width | 2260 | 2260 | 2260 |
| [4] Nominal Weight (kgs) | | 1026 | 1283 | 1473 |
| [5] Sound Pressure Level (dBA) | Outdoor ( Quiet / Rated / Tru-Max ) | 63.6 / 70.2 / 70.2 | 63.7 / 69 / 69 | 61.0 / 68.0 / 69.0 |
| [6] Sound Power Level (dBA) | Outdoor ( Quiet / Rated / Tru-Max ) | 80.6 / 87.2 / 87.2 | 80.7 / 86 / 86 | 77.5 / 84.5 / 85.6 |
| Operating Range | Cooling °C | 5°C ~ 57°C | | |
| | Heating °C | -15°C ~ 20°C | | |
| MEPS Certified | | Yes | | |
| [7] Demand Response Capability (AS4755.3) | | Capable | | |

### Foot Notes

1. EER Rated = Energy Efficiency Ratio (Rated Capacity Cooling / Rated Input Cooling). Measured and tested in accordance with AS/NZS3823.1.2.
2. COP Rated = Coefficient of Performance (Rated Capacity Heating / Rated Input Heating). Measured and tested in accordance with AS/NZS3823.1.2.
3. 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.
4. Refer to Catalogue Unit Weight Distribution Guide section for details of weight points.
5. Sound Pressure Level at 3m distance is determined based on sound power level.
6. Measured based on ISO 3743-1, Determination of Sound Power Levels and Sound Energy Levels of Noise Sources Using Sound Pressure.
7. When Demand Response capability is chosen, the air conditioner will fully comply.

### 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

### 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 net values.
- Specifications subject to change without notice.

### Warranty:

For full terms and conditions of ActronAir warranty, please refer to warranty terms document - www.actronair.com.au

### Disclaimer:

Specifications and product details are subject to change without notice. The manufacturer reserves the right to update or modify features, dimensions, or performance at any time due to ongoing improvements or technological advancements.