

## GENESIS 72-96kW Commercial Split Ducted

Redefining the Future of Commercial Comfort

### Designed for Today, Ready for Tomorrow.

GENESIS has been developed with a clear understanding of how commercial systems are used in real-world applications. Built on practical innovation, it is designed to deliver efficient and reliable air conditioning for businesses today, while remaining adaptable to meet the needs of tomorrow.



### Designed to Adapt, Built to Endure.

Engineered for consistent, everyday performance, ActronAir's Commercial Split Ducted units are designed with a practical balance of efficiency, control and durability. With features that support intelligent load matching, protection against harsh Australian conditions and flexible control options, they are well suited to delivering reliable operation across a wide range of commercial applications.



#### Built for Aussie Conditions

Built to handle our country's toughest weather, GENESIS Commercial Split Ducted units delivers reliable comfort from -15°C up to 57°C.



#### Inverter Scroll Compressor

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



#### Variable Fan Technology (VFT)\*

Maintains constant supply static pressure for stable, predictable airflow. By adjusting fan speed to hold the setpoint, each space consistently receives its intended airflow.

\* available as an option

### Seamless Control for Smarter Spaces.

NEO integrates seamlessly with GENESIS commercial systems, offering a simple and intuitive way to manage comfort. As part of ActronAir's broader controls range, it sits alongside the Group Controller and LC7, providing flexibility to choose a solution that suits business needs, including features like after-hours operation and 7-day scheduling.



# GENESIS 72 ~ 96kW SPLIT DUCTED

Engineered to Perform, Built to Last.

## Specification Tables

Features	
Tru-Inverter Variable Speed Compressor & Drive Technology	Fault and Run Indication - Relay Output
17-100% Variable Refrigeration Capacity	Hydrophilic Blue Fin Coat Coil Protection - Indoor & Outdoor
Pre-charged with R32 Refrigerant	Powder Coated Outdoor Unit with removable Louvred Coil Guard
Variable Speed ECM Axial Fan	Adjustable Indoor Airflow
ECM High Efficiency Indoor & Outdoor Fan Motors	Built-In R32 Leak Detection Sensor
High Static Outdoor Fans - Selectable up to 90Pa	Bluetooth Commissioning Tool (BCT)
Low Ambient Cooling Operation to +5°C	Manual & Analogue Inputs, Capable for Third Party Control
Adaptive Demand Defrost	Bi-Flow Electronic Expansion Valves
25mm Foil Faced Polyethylene Insulation	Gemcote Coated Screws

Options & Accessories	
Additional Outdoor Coil Protection (K)	Top (Vertical) Discharge Indoor
Additional Indoor Coil Protection (L)	Compressor Sound Jacket
3rd Party Economiser Control Logic (F)	LC7 Wall Controller
Condensate Indoor Overflow Sensor (O)	NEO Touch Controller
Supply Air Temperature Sensor (S)	Remote Temperature Sensor
Variable Fan Technology (T)	CO2 Sensor
BMS Gateway	BMS Modbus 485

Installation Information						
Model	CRV72AT	CRV85AT	CRV96AT			
	EVA72AT	EVA85AT	EVA96AT			
Refrigerant Factory Charge per Circuit (grams)	C-1	C-2	C-1	C-2	C-1	C-2
	9350	9000	11380	12510	14800	15000
Primary Condensate Drain Connection	25.4mm					
Air Duct Connection (H X W) mm	Supply Duct	659 x 999	800 x 1150	1150 x 800		
	Return Duct	743 x 1982	1366 x 1982	1982 x 1366		

## 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

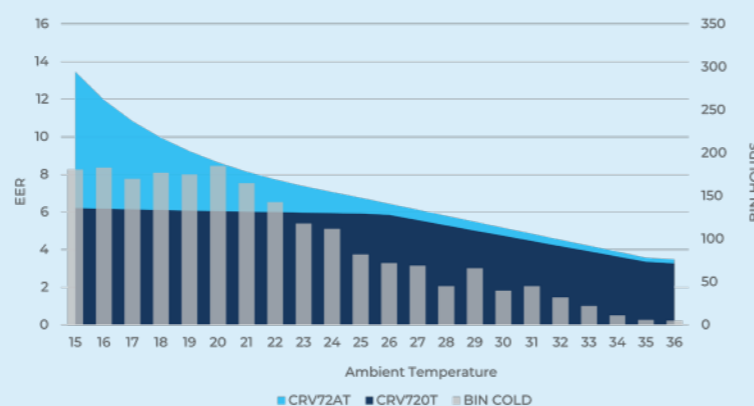
- R32 Leak Detection Sensor**  
The built-in R32 Leak Detection Sensor enhances safety by quickly and accurately detecting refrigerant leaks. Designed for long-term reliability, it self-monitors for up to 15 years, providing continuous protection and peace of mind.
- Double-Sloped Main Drain Tray**  
The main drain tray features a clever double-slope design, which greatly improves drainage efficiency and helps prevent water buildup within the unit.
- Indoor 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.
- Outdoor High Static 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.
- R32 Inverter Scroll Compressors**  
R32 inverter scroll compressors deliver precise capacity control to closely match real-time load demands. This results in higher efficiency at part load, more stable temperature control, and reduced energy consumption across a wide range of operating conditions.
- 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.
- 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.
- Hydrophilic Blue Fin Coil Coat**  
Hydrophilic Blue Fin coating enhances water run-off across the coil, minimising moisture retention and supporting efficient heat exchange. The coating also provides an additional layer of corrosion resistance, helping maintain performance in demanding outdoor environments.



## Performance beyond Peak Demand.

The GENESIS series is designed to improve energy efficiency, delivering up to 10% lower power consumption compared to its R410A predecessor. With a focus on part-load performance, it maintains efficient operation even when running below full capacity. This is particularly beneficial in commercial applications, where systems are often sized for peak demand but operate at reduced loads for much of the time.

EER COMPARISON AT VARYING AMBIENT TEMPERATURE (COLD REGION)



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## Specification Table

Technical Specifications				
		CRV72AT / EVA72AT	CRV85AT / EVA85AT	CRV96AT / EVA96AT
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling (Min/Rated/ Tru-Max)	13.10 / 72.00 / 79.20	13.58 / 85.00 / 93.00	17.48 / 96.00 / 107.00
	Heating (Min/Rated/Tru-Max)	12.20 / 73.00 / 80.30	13.29 / 86.00 / 94.00	16.57 / 97.00 / 108.00
Input Power (kW) (AS/NZS3823.1.2)	Cooling	21.01	24.45	27.25
	Heating	18.85	22.30	24.23
<sup>1</sup> EER	Rated	3.42	3.47	3.52
	Tru-Max	3.17	3.30	3.19
<sup>2</sup> COP	Rated	3.87	3.85	4.00
	Tru-Max	3.65	4.08	3.78
Power Supply		400V / 3Ph+N / 50Hz		
Seasonal Performance - Commercial	TCSPF - Cold / Avg. / Hot	6.855 / 5.756 / 5.511	5.840 / 5.335 / 5.237	5.645 / 5.114 / 5.014
	HSPF - Cold / Avg. / Hot	3.142 / 3.762 / 4.245	3.301 / 3.984 / 4.535	3.045 / 3.655 / 4.570
Rated Amps (AS/NZS3823.1.2)		32.5	37.9	42.3
Full Load Amps (AS/NZS3823.1.2) Outdoor / Indoor / Total		45.1 / 5.8 / 51.0	52.6 / 8.7 / 61.3	52.17 / 8.71 / 60.88
<sup>3</sup> Circuit Breaker Amps (Suggested)		63.0	63.0	63.0
IP Rating (Outdoor / Indoor)		IP44 / IP20		
Compressor	Type / No. per Unit	Inverter Variable Speed Scroll / 2		
No. of refrigeration Circuits / No. Capacity Stages (Capacity range)		2 / Variable Capacity		
Refrigerant		R32		
Fans (Type x Number per unit)	Outdoor	Variable Speed EC Axial Fan		
		2	2	2
	Indoor	EC Backward Curved Plug Fan		
		1	2	2
Airflow Range Indoor (l/s)	Maximum	4250	5350	6000
	Nominal	3800	4450	5000
	Minimum	1700	2000	2250
Indoor Unit O/A Dimensions (mm)	Depth	1190	1190	1190
	Height	895	1520	1520
	Width	2440	2425	2425
Outdoor Unit O/A Dimensions (mm)	Depth	1205	1505	1505
	Height	1905	2345	2345
	Width	2280	2290	2290
<sup>4</sup> Nominal Weight (kgs) Indoor / Outdoor		296 / 700	370 / 826	387 / 900
<sup>5</sup> Sound Pressure Level (dBA)	Outdoor ( Quiet / Rated / Tru-Max )	63.6 / 70.2 / 70.2	63.7 / 69.0 / 69.0	61.0 / 68.0 / 69.0
<sup>6</sup> Sound Power Level (dBA)	Outdoor ( Quiet / Rated / Tru-Max )	80.6 / 87.2 / 87.2	80.7 / 86.0 / 86.0	77.5 / 84.5 / 85.6
Operating Range	Cooling °C	5°C ~ 57°C		
	Heating °C	-15°C ~ 20°C		
MEPS Certified		Yes		
<sup>7</sup> Demand Response Capability (AS4755.3)		Capable		

### Foot Notes

- EER Rated = Energy Efficiency Ratio (Rated Capacity Cooling / Rated Input Cooling). Measured and tested in accordance with AS/NZS3823.1.2.
- COP Rated = Coefficient of Performance (Rated Capacity Heating / Rated Input Heating). Measured and tested in accordance with AS/NZS3823.1.2.
- 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.
- Refer to Catalogue Unit Weight Distribution Guide section for details of weight points.
- Sound Pressure Level at 3m distance is determined based on sound power level.
- Measured based on ISO 3743-1, Determination of Sound Power Levels and Sound Energy Levels of Noise Sources Using Sound Pressure.
- 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](http://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.

