

Superb comfort and energy savings through digital technology.

ESP stands for Energy Smart Performance and it's how our ESP Plus ducted system keeps you superbly comfortable all year round without wasting energy. Our ESP Plus delivers comfort with such precision you'll forget you even have air conditioning, and because of that precise control you'll also save some serious cash when the electricity bill arrives.



Guaranteed to perform up to 50°C

Save up to \$700 per year on your energy bills

Up to 60% more efficient than conventional fixed speed air conditioners

AWARDS

2007 AIRAH Achievement Award Winner

2008 CoolWorld Award Winner

Nett (Rated) Capacity - Cooling - Single Phase

12.27 kW SRD131C/SRV131E	14.37 kW SRD151C/SRV151E	18.64 kW SRD191C/SRV191E
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Nett (Rated) Capacity - Cooling - Three Phase

16.88 kW SRD173C/SRV171E	19.32 kW SRD203C/SRV201E	23.00 kW SRD233C/SRV231E
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That's better. That's Actron.

Features

- » Vertical Discharge
- » Energy Smart Zoning
- » Variable Fan Technology
- » Blue fin epoxy coated indoor + outdoor coil protection
- » Sound Reduction System
- » Efficient EC Inverter Indoor Fan
- » R410A refrigerant
- » BMS Option
- » Multiple Handling Options

Compressor

- » Digital Scroll

Power

- » Single phase – 230V / 1Ph + N / 50Hz
- » Three phase – 400V / 3Ph + N / 50Hz

Controller Options

- » Group Control
- » ActronConnect – Wi-fi app

Connectivity & Sensor Options

- » BMS Compatible – Modbus
- » Humidity Sensor – Duct Mount or Surface Mount*
- » Temperature Sensor – Bead or Surface Mount*
- » CO2 Sensor*

Additional Options

- » Economy Cycle*
- » Vertical Evaporator
- » Horizontal Condenser Fan
- » 3 Phase Soft Starter†
- » Coil Coat Indoor & Outdoor

*Requires Group Control.

† All models except "Single Phase" models.

Technical Specifications - ESP Plus Split Ducted Variable Capacity 12.27-23.00kW

Technical Information							
		Single Phase			Three Phase		
OUTDOOR MODEL		SRD131C	SRD151C	SRD191C	SRD173C	SRD203C	SRD233C
INDOOR MODEL		SRV131E	SRV151E	SRV191E	SRV171E	SRV201E	SRV231E
¹ Total (Gross) Capacity (kW) (AS/NZS3823.1.2)	Cooling (Rated)	12.75	14.67	19.33	17.45	20.10	23.59
	Heating (Rated)	11.71	14.64	17.90	17.39	19.38	22.97
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling (min - max)	12.27 (1.23-12.27)	14.37 (1.44-14.37)	18.64 (1.86-18.64)	16.88 (1.69-16.88)	19.32 (1.93-19.32)	23.00 (2.30-23.00)
	Heating (min - max)	12.16 (2.31-12.16)	15.00 (2.85-15.00)	18.52 (3.52-18.52)	17.93 (3.41-17.93)	20.09 (3.82-20.9)	23.50 (4.47-23.50)
Input Power (kW) (AS/NZS3823.1.2)	Cooling	3.68	4.29	5.73	5.02	5.78	6.76
	Heating	3.30	4.49	5.33	4.81	5.24	6.91
² EER Rated (AS/NZS3823.1.2)	Cooling	3.33	3.35	3.25	3.36	3.34	3.40
³ COP Rated (AS/NZS3823.1.2)	Heating	3.68	3.34	3.47	3.73	3.83	3.40
Power Supply (V / Ph / Hz)	Outdoor	230V / 1Ph + N / 50Hz			400V / 3Ph + N / 50Hz		
	Indoor	230V / 1Ph + N / 50Hz					
Rated Load Amps (AS/NZS3823.1.2)	Outdoor / Indoor / Total	13.5 / 3.6 / 17.1	17.5 / 2.3 / 19.8	20.8 / 5.1 / 25.9	8.7 / 4.1 / 12.8	9.2 / 5.4 / 14.6	14.0 / 4.0 / 18.0
Full Load Amps (AS/NZS3823.1.2)	Outdoor / Indoor / Total	23.6 / 4.3 / 27.9	27.1 / 4.3 / 31.4	32.5 / 5.4 / 37.9	12.3 / 4.3 / 16.6	13.5 / 5.9 / 19.4	16.2 / 4.9 / 21.1
⁴ Circuit Breaker Amps		32.0	32.0	40.0	20.0	20.0	25.0
IP Rating	Outdoor	IP44					
	Indoor	IP20					
Compressor	Type / No. per Unit	Digital Scroll / 1					
	Starting Method	Soft Starter					
No. of refrigeration Circuits/No of capacity stages (Capacity range)		1/ Variable (10-100% capacity)					
Refrigerant		R410A					
Fans (Type x Number per unit)	Outdoor	Axial / 6 Pole External Rotor / Direct Drive x2					
	Indoor	Twin Deck Centrifugal / ECM Direct Drive x1					
Airflow Range Indoor (l/s)	Maximum	780	880	1180	900	1200	1440
	Nominal	650	770	980	850	1000	1200
	Minimum	130	155	195	170	200	240
External Static Pressure (Pa) at:	Maximum Airflow	120	120	128	116	120	70
	Nominal Airflow	225	218	192	164	188	170
Outdoor Dimensions (mm)	Depth	580	580	580	580	580	685
	Height	990	990	1045	1045	1045	1105
	Width	1320	1320	1460	1460	1460	1685
Indoor Dimensions (mm)	Depth	615	615	680	615	680	695
	Height	412	412	435	412	435	485
	Width	1090	1290	1420	1290	1420	1470
⁵ Nominal Weight (kgs)	Outdoor	146	155	200	186	196	225
	Indoor	58	61	76	62	76	90
Field Pipe Size	Liquid Pipe - mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	⁸ 12.70 (1/2)	12.70 (1/2)
	Gas Pipe - mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	⁸ 22.22 (7/8)	25.40 (1)
⁶ Sound Pressure Level (dBA)	Outdoor (low/high fan)	47 / 50	50 / 52	52 / 54	52 / 54	52 / 54	54 / 59
⁷ Sound Power Level (dBA)	Outdoor (low/high fan)	64 / 67	67 / 69	69 / 71	69 / 71	69 / 71	70 / 75
MEPS Compliant		Yes	Yes	Yes	Yes	Yes	Yes
⁹ Demand Response Capability (AS4755.3)		Potentially capable if alternate outdoor board is purchased					
8 Zone Capability		Standard	Standard	Standard	Standard	Standard	Standard

Technical Specifications

Features						
OUTDOOR MODEL	SRD131C	SRD151C	SRD191C	SRD173C	SRD203C	SRD233C
INDOOR MODEL	SRV131E	SRV151E	SRV191E	SRV171E	SRV201E	SRV231E
LM7-2W (White) or LM7-2G (Grey) Wall Controller	Optional	Optional	Optional	Optional	Optional	Optional
LM24-2W (White) or LM24-2G (Grey) Secondary Wall Controller	Optional	Optional	Optional	Optional	Optional	Optional
Remote Temperature Sensor	Optional	Optional	Optional	Optional	Optional	Optional
Hydrophilic Blue Fin Coil Coat Protection - Indoor & Outdoor Coils	Standard	Standard	Standard	Standard	Standard	Standard
Home Automation / Remote ON / OFF Capability	Yes	Yes	Yes	Yes	Yes	Yes
Maximum Number of Zones	8	8	8	8	8	8
ActronConnect module for wireless control	Optional	Optional	Optional	Optional	Optional	Optional
Phase Protection	N/A	N/A	N/A	Standard	Standard	Standard
Soft Starter	Standard	Standard	Standard	Standard	Standard	Standard
BMS Compatibility	Optional	Optional	Optional	Optional	Optional	Optional

Foot Notes 1-8

1. Based on unit rating excluding indoor fan kW.
2. EER Rated = Energy Efficiency Ratio (Rated Capacity Cooling / Rated Input Cooling).
3. COP Rated = Coefficient of Performance (Rated Capacity Heating / Rated Input Heating).
4. Refer to AS/NZS 3000 "Australian/New Zealand Wiring Rules" for more details.
5. Refer to Catalogue Unit Weight Distribution Guide section for details of weight points.
6. Sound Pressure Level at 3m distance is determined as the measured sound pressure at 3m perpendicular to the coil side of the condenser. Sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions.
7. Measured based on ISO 3743-1, Determination of Sound Power Levels and Sound Energy Levels of Noise Sources Using Sound Pressure.
8. For short pipe run of 0-20m or average 1-storey residential dwellings, 19.05mm (3/4") Gas Field Pipe and 9.52mm (3/8") Liquid Line may be used in place of the recommended 22.22mm (7/8") gas pipe and 12.7 (1/2") liquid line. Please refer to Capacity Selection Data & see Pipe Length Correction Multiplier for the drop in refrigeration capacity as a consequence of change in Gas Field Pipe diameter. Swaged end of Indoor and Outdoor Units' gas pipe to be cut in the field to fit ID into 19.05mm (3/4") replacement Field Pipe. Swaged end to be cut-off in the field to fit into field pipe.
9. Third party inputs and Remote ON/OFF functions will be lost if Demand Response outdoor board is installed.

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