

Performance and efficiencies through smart engineering.

ActronAir's unique Tri-Capacity technology is designed and engineered in-house in our Sydney headquarters specifically for Australian conditions. Ideal for medium to large sized applications such as restaurants, banks, conference spaces, two-storey offices and cinemas, our Tri-Capacity delivers demonstrable benefits in energy efficiency, performance and ease of installation.



Guaranteed to perform up to 50°C

Three stages of cooling/heating for more savings

Up to 32 combinations of supply and return air connections

AWARDS

2012 AIRAH Award Finalist for Excellence in Innovation

2013 AIRAH Award Finalist for Excellence in Sustainability

Nett (Rated) Capacity - Cooling - Three Phase

45.77 kW
CAY470T/EVY470T
Std Profile

46.00 kW
CAY470T/ELY470T
Low Profile

51.85 kW
CAY540T/EVY540T
Std Profile

52.20 kW
CAY540T/ELY540T
Low Profile

60.80 kW
CAY620T/EVY620T
Std Profile

61.00 kW
CAY620T/ELY620T
Low Profile

70.30 kW
CAY700T/EVY700T
Std Profile

70.70 kW
CAY700T/ELY700T
Low Profile



That's better. That's Actron.

Features

- » Vertical Discharge
- » High efficiency EC fan technology
- » Axial outdoor fan
- » BMS Option
- » In-built controls solution
- » Dual control capability for enhanced user access
- » R410A refrigerant
- » Filter notification output
- » Separate run outputs
- » Fault notification output
- » Multiple Handling Options
- » Individual motor protection
- » Circuit breaker and thermal overload
- » DRED enabled (AS4755)
- » Large indoor heat exchangers
- » Large outdoor heat exchangers
- » Low ambient cooling option to below 15°C
- » TX valves for improved efficiency
- » Foil face polyethylene insulation
- » Two speed condenser fans
- » Inbuilt economy control logic
- » In-built evaporator safety tray for EVY and ELY indoor units

Compressor

- » Compliant Scroll

Power

- » Three phase – 415V / 3Ph + N / 50Hz

Controller Options

- » CP05
- » CL01
- » CP10
- » Group Control

Connectivity & Sensor Options

- » BMS Compatible – BACNET and MODBUS
- » Humidity Sensor – Duct Mount or Surface Mount
- » Temperature Sensor – Bead or Surface Mount
- » CO2 Sensor

Additional Options

- » Economy Cycle
- » Air discharge*
- » Horizontal Condenser Fan
- » 3 Phase Soft Starter
- » Phase Sequence Protection Relay
- » Coil Coat Indoor & Outdoor
- » High static condenser fan

*Requires Group Control

*Only available on EVY series.

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Technical Specifications - Split Ducted Tri-Capacity 47-73kW

Technical Information									
		Three Phase							
OUTDOOR MODEL		CAY470T	CAY470T	CAY540T	CAY540T	CAY620T	CAY620T	CAY700T	CAY700T
INDOOR MODEL		EVY470T	ELY470T	EVY540T	ELY540T	EVY620T	ELY620T	EVY700T	ELY700T
		Std Profile	Low Profile	Std Profile	Low Profile	Std Profile	Low Profile	Std Profile	Low Profile
¹ Total (Gross) Capacity (kW) (AS/NZS3823.1.2)	Cooling	47.00	47.00	53.50	53.50	63.00	63.00	73.13	73.40
	Heating	46.00	46.00	51.50	51.50	60.00	60.00	68.80	68.30
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling	45.77	46.00	51.85	52.20	60.80	61.00	70.30	70.70
	Heating	47.37	47.20	53.20	52.96	62.47	62.30	72.00	71.50
Input Power (kW) (AS/NZS3823.1.2)	Cooling	15.40	15.42	17.57	17.57	20.50	20.35	24.16	23.89
	Heating	14.16	14.02	16.20	16.03	20.15	19.98	22.40	22.20
² EER Rated (AS/NZS3823.1.2)	Cooling	2.97	2.98	2.95	2.97	2.97	3.00	2.91	2.96
³ COP Rated (AS/NZS3823.1.2)	Heating	3.35	3.37	3.28	3.30	3.10	3.12	3.21	3.22
Power Supply (V / Ph / Hz)	Outdoor	415V / 3Ph + N / 50Hz							
	Indoor								
Rated Load Amps (AS/NZS3823.1.2)	Outdoor / Indoor / Total	25.9 / 2.2 / 28.1	25.9 / 2.2 / 28.1	28.3 / 2.5 / 30.8	28.3 / 2.5 / 30.8	35.7 / 3.5 / 39.2	35.7 / 3.2 / 38.9	40.6 / 4.5 / 45.1	40.6 / 3.9 / 44.5
Full Load Amps (AS/NZS3823.1.2)	Outdoor / Indoor / Total	36.4 / 4.4 / 40.8	36.4 / 5.5 / 41.9	39.9 / 6.7 / 46.6	39.9 / 6.7 / 46.6	47.9 / 4.2 / 52.1	47.9 / 6.7 / 54.6	54.5 / 4.5 / 59.0	54.5 / 6.7 / 61.2
⁴ Circuit Breaker Amps		50.0				63.0		80.0	
IP Rating	Outdoor	IP44							
	Indoor								
Compressor	Type / No. per Unit	Compliant Scroll / 2							
	Starting Method								
No. Refrigeration Circuits/No. Capacity Stages (Capacity range)		2 / 3 (~33% 66% 100%)							
Refrigerant		R410A							
Fans (Type x Number per unit)	Outdoor	Axial Low Noise / 6 Pole External Rotor / Direct Drive x 3							
	Indoor								
Airflow Range Indoor (l/s)	Maximum	2900		3300		3900		4100	
	Nominal	2400		2700		3200		3600	
	Minimum	1900		2100		2500		2800	
External Static Pressure (Pa) at:	Maximum Airflow	305	325	125	75	155	175	75	
	Nominal Airflow	500		390	450	410	500	270	340
Nominal Outdoor Dimensions (mm)	Depth	1195				1195			
	Height	1465				1695			
	Width	2305				2305			
Nominal Indoor Dimensions (mm)	Depth	1450	1160	1450	1160	1450	1160	1450	1160
	Height	1280	770	1280	770	1510	895	1510	895
	Width	1590	2410	1590	2410	1590	2410	1590	2410
⁵ Nominal Weight (kgs)	Outdoor	532		542		577		604	
	Indoor	292	268	298	277	340	318	340	318
⁶ Sound Pressure Level (dBA)	Outdoor (low/high fan)	58 / 63				59 / 64			
⁷ Sound Power Level (dBA)	Outdoor (low/high fan)	75 / 80				76 / 81			
MEPS Compliant		Yes	Yes	Yes	Yes	Yes	Yes	BCA Compliant	
⁸ Demand Response Capability (AS4755.3)		Capable							

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

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Technical Specifications

Unit Features and Options								
OUTDOOR MODEL	CAY470T	CAY470T	CAY540T	CAY540T	CAY620T	CAY620T	CAY700T	CAY700T
INDOOR MODEL	EVY470T	ELY470T	EVY540T	ELY540T	EVY620T	ELY620T	EVY700T	ELY700T
	Std Profile	Low Profile	Std Profile	Low Profile	Std Profile	Low Profile	Std Profile	Low Profile
Tri-Capacity 33% 66% 100% Capacity Stages	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Pre-Charged with R10A Refrigerant	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Louvered Outdoor Coil Guard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
External Stainless Steel Screws (Outdoor Unit Only)	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Blue Epoxy Coated Coil Fin Protection (Indoor & Outdoor Coils)	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Foil Faced Polyethylene insulation (Indoor Unit)	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Indoor Unit Integral Fan Coil Safety Tray (Included)	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Low Ambient / High Static Outdoor Fans	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional

Air Handling								
F - Front Discharge (EVY & ELY Models Only)	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
T - Top Discharge (CAY Models Only)	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
T - Top Discharge (EVY Models Only)	Optional	-	Optional	-	Optional	-	Optional	-

Control Options and Features								
CP05 Control Interface with LCD Display for System Operation	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Automatic / Manual Operation	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
7 Day Programmable Time-Clock	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
365 Day Time-Clock With 12 Special Days	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Compressor Discharge Temperature Control	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Adjustable Indoor Fan Airflow Setpoint	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Indoor Coil Anti-Freeze Protection	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Return Air Offset	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
High and Low Pressure Protection	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Alarm Fault Data Logger	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
BMS 485/TCP-IP Compatibility (accessory)	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
CP05 / CP10 Control Interface (Available as Dual Option)	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
CL01 7-Day Programmable Control Interface (BCA Compliant)	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
CO ₂ Sensor for economy cycle (accessory)	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Humidity Sensor for economy cycle (accessory)	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Group Control Interface and Controller (accessory)	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional

Technical Specifications

Variations									
OUTDOOR MODEL		CAY470T	CAY470T	CAY540T	CAY540T	CAY620T	CAY620T	CAY700T	CAY700T
INDOOR MODEL		EVY470T	ELY470T	EVY540T	ELY540T	EVY620T	ELY620T	EVY700T	ELY700T
		Std Profile	Low Profile	Std Profile	Low Profile	Std Profile	Low Profile	Std Profile	Low Profile
OUTDOOR MODEL	F - Economy Control Access 3rd Party Controls	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	K - Additional Full Coil Coat Protection	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	U - Low Ambient +5°C	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	W - Three-Phase Sequence Protection Relay	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	TV/SV - EC Motor Low Ambient / High Static Condenser Fan (Up to 150Pa)	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Z - Compressor 3-Phase Soft Starter	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Compressor Sound Jacket (as requested)	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
INDOOR MODEL	L - Additional Full Coil Coat Protection	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	T - Vertical Discharge (EVY Models Only)	Optional	-	Optional	-	Optional	-	Optional	-
	Y - Powder Coating	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional

Field Piping and Connections									
Refrigerant Charge (Crt #1 & Crt #2)	Factory Charge - (g)	5200 & 10,900		7100 & 13,600		7900 & 15,400		9200 & 15,500	
	Pre-Charge Length - (m)	5		5		5		5	
	Additional Refrigerant Charge - (g/m)	50 & 165		50 & 165		100 & 165		100 & 165	
Maximum Field Pipe Length Range - (m)		75							
Maximum Vertical Height Differential - (m) included in max length		20							
Field Pipe Size (Crt #1 & Crt #2)	Liquid Pipe - mm (inch)	9.52 (3/8) & 15.90 (5/8)		9.52 (3/8) & 15.90 (5/8)		12.70 (1/2) & 15.90 (5/8)		12.70 (1/2) & 15.90 (5/8)	
	Gas Pipe - mm (inch)	19.05 (3/4) & 28.6 (1-1/8)		22.22 (7/8) & 28.6 (1-1/8)		25.40 (1) & 28.6 (1-1/8)		25.40 (1) & 28.6 (1-1/8)	
Outdoor Unit Connection (Crt #1 & Crt #2)	Liquid Pipe - mm (inch)	9.52 (3/8) & 15.90 (5/8)		9.52 (3/8) & 15.90 (5/8)		12.70 (1/2) & 15.90 (5/8)		12.70 (1/2) & 15.90 (5/8)	
	Gas Pipe - mm (inch)	19.05 (3/4) & 28.6 (1-1/8)		22.22 (7/8) & 28.6 (1-1/8)		25.40 (1) & 28.6 (1-1/8)		25.40 (1) & 28.6 (1-1/8)	
Indoor Unit Connection (Crt #1 & Crt #2)	Liquid Pipe - mm (inch)	9.52 (3/8) & 15.90 (5/8)		9.52 (3/8) & 15.90 (5/8)		12.70 (1/2) & 15.90 (5/8)		12.70 (1/2) & 15.90 (5/8)	
	Gas Pipe - mm (inch)	19.05 (3/4) & 28.6 (1-1/8)		22.22 (7/8) & 28.6 (1-1/8)		25.40 (1) & 28.6 (1-1/8)		25.40 (1) & 28.6 (1-1/8)	
Condensate Drain Connection - (Size /Type)		25.4 mm (1") Ø/BSP Female Thread							
Safety Tray Connection - Size/Type		25.4 mm (1") Ø/BSP Socket							
Air Duct	Supply Duct H x W - (mm)	580 x 650	380 x 1000	580 x 650	380 x 1000	580 x 650	380 x 1000	580 x 650	380 x 1000
	Return Duct H x W - (mm)	1130 x 1135	620 x 2000	1130 x 1135	620 x 2000	1360 x 1135	745 x 2000	1360 x 1135	745 x 2000

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