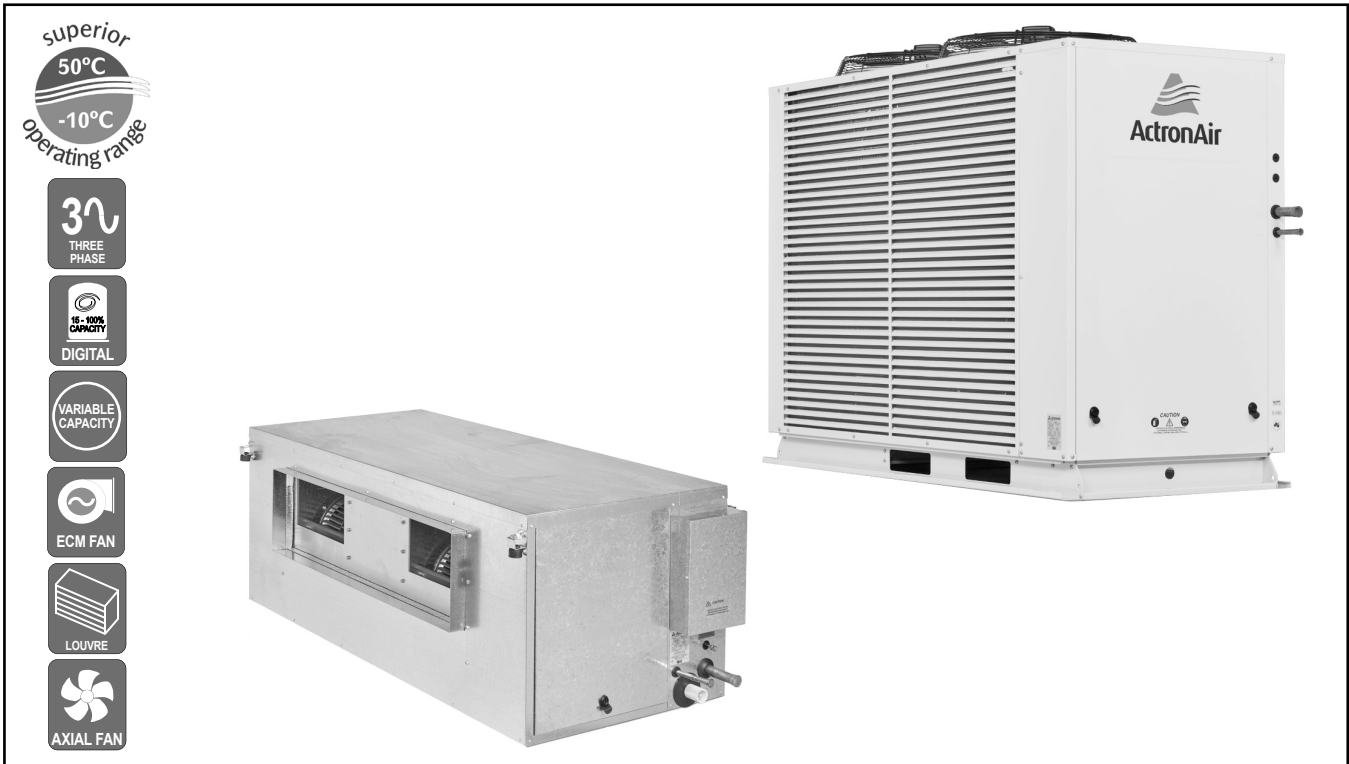


# SPLIT DUCTED UNIT



## UNIT FEATURES

- Compliant Digital Scroll Compressor
- Pre-charged with R-410A Refrigerant
- Multiple Speed Outdoor Fans
- 40-100% variable refrigeration capacity
- Electronic expansion valves
- Low ambient cooling operation to +5 deg
- Phase Protection
- Hydrophilic Blue Fin Coil Coat Protection - Indoor and Outdoor Coils
- Removable Louvred Outdoor Coil Guard
- Adaptive Demand Defrost
- EC Variable Speed Indoor Fan + Reduce Fan Airflow Feature
- Adjustable Indoor Airflow
- Foil Face Polyethylene Insulation - Indoor unit

## UNIT OPTIONS

- Compressor Soft Starters
- Additional Full Coil Coat Protection

## CONTROL OPTIONS AND FEATURES

### ActronAir LC7-2 (BCA Compliant)

- Available in White or Grey
- 7-day Programmable Controller with 2 Events per Day
- 24-hour ON/OFF Timer
- Temperature Setback
- After Hours Time
- Auto / Cool / Heat / Fan Only / Night Modes Functions
- Auto / Continuous Indoor Fan Operation
- Optional 2nd and 3rd Controllers with Mimic Logic
- On-Board Temperature Sensor

### ActronAir Neo

- 7" Colour Touch Screen Master Controller
- In-built Wi-Fi and Blue-Tooth
- Neo Connect App
- On-Board Temperature, Humidity and Proximity Sensor
- Optional wireless Zone Sensor
- Available in White or Black

### ActronAir Group Control

## 3rd PARTY CONTROL

- Manual Control Inputs
- BMS Compatibility (Modbus 485)

## SPECIFICATION SUMMARY

OUTDOOR UNIT MODEL		CRV330T	
INDOOR UNIT MODEL		EVA330T	
		(1) TOTAL	(2) NETT
(3) COOLING CAPACITY (kW)	MINIMUM	13.56	13.20
	RATED	33.90	33.00
(4) HEATING CAPACITY (kW)	MINIMUM	13.27	13.65
	RATED	31.60	32.50
(5) SENSIBLE CAPACITY (kW)		28.29	27.39
(6) COOLING INPUT POWER (kW)		10.05	
(6) HEATING INPUT POWER (kW)		9.48	
EER		3.37	3.28
COP		3.33	3.43
(6) INDOOR AIRFLOW (l/s) - MIN. / NOMINAL / MAX.		1400 / 1750 / 2100	
OUTDOOR SOUND PRESS. LEVEL @ 3M dB(A) - LOW / HIGH		57.8 / 61.8	
OUTDOOR SOUND POWER LEVEL dB(A) -- LOW / HIGH		74.8 / 78.8	
POWER SUPPLY - OUTDOOR		400V / 3Ph+N / 50Hz	
POWER SUPPLY - INDOOR		400V / 3Ph+N / 50Hz	
(2) RATED LOAD AMPS - OUTDOOR / INDOOR / MAX		19.7 / 3.3 / 19.7	
(7) FULL LOAD AMPS - OUTDOOR / INDOOR / MAX(8)		25.5 / 5.0 / 28.0(8)	
(9) CIRCUIT BREAKER AND CABLE AMPS		32.0	
APPROXIMATE STARTING AMPS		139.0	
WEIGHT (kg) -- INDOOR / OUTDOOR		126 / 292	

3 Phase  
1 Stage

33.90 kW

(1) Based on unit rating excluding indoor fan kW.  
 (2) Measured and tested in accordance with AS/NZS 3823.1.2.  
 (3) At 27°C DB / 19°C WB entering air temperatures and 35°C ambient.  
 (4) At 20°C DB entering air temperature and 7°C DB / 6°C WB ambient.  
 (5) Input power includes indoor fan kW.  
 (6) Max. - Min. airflow application range.  
 (7) Full Load Amps are based on compressor and fan motors' maximum expected current.  
 (8) See Specifications sheet for detailed FLA.  
 (9) See Specifications sheet for cable size and circuit breaker size details.

Note: Use input power to estimate running cost.



# CAPACITY SELECTION DATA

# CRV330T / EVA330T

## COOLING PERFORMANCE

AIR ENTERING		TOTAL CAPACITY kW	TOTAL SENSIBLE CAPACITY - kW										
OUTDOOR DB - °C	INDOOR WB - °C		AT DB TEMPERATURE ONTO INDOOR COIL - °C										
			20	21	22	23	24	25	26	27	28	29	30
25	16	35.48	21.60	23.67	25.71	27.74	29.71	31.35					
	17	35.48	19.56	21.55	23.63	25.69	27.72	29.70	31.48				
	18	36.20	17.39	19.50	21.51	23.60	25.65	27.66	29.72	31.58	33.27		
	19	37.11	15.18	17.34	19.49	21.46	23.53	25.59	27.64	29.67	31.57	33.35	34.92
	20	37.96	12.90	15.10	17.27	19.43	21.40	23.46	25.52	27.58	29.61	31.56	33.40
	21	39.05		12.85	15.01	17.21	19.33	21.30	23.42	25.45	27.48	29.54	31.51
	22	40.05			12.80	14.94	17.14	19.27	21.39	23.32	25.37	27.42	29.46
30	16	34.23	20.99	23.04	25.09	27.09	28.98	30.44					
	17	34.17	18.96	20.95	23.04	25.08	27.08	29.02	30.78				
	18	34.81	16.81	18.94	20.89	22.98	25.02	27.04	29.04	30.91	32.35		
	19	35.54	14.60	16.77	18.89	20.87	22.94	25.00	27.01	29.00	30.92	32.64	
	20	36.42	12.37	14.56	16.73	18.85	20.82	22.90	24.95	26.97	28.97	30.94	32.73
	21	37.48		12.29	14.46	16.64	18.79	20.77	22.81	24.88	26.94	28.92	30.87
	22	38.42			12.22	14.39	16.56	18.70	20.67	22.73	24.80	26.85	28.84
35	16	32.90	20.32	22.39	24.43	26.39	28.17						
	17	32.90	18.31	20.31	22.36	24.39	26.38	28.27	29.91				
	18	33.32	16.18	18.28	20.26	22.33	24.36	26.35	28.32	30.14			
	19	33.90	13.97	16.13	18.28	20.22	22.30	24.35	26.36	28.29	30.19	31.73	
	20	34.81	11.75	13.92	16.08	18.22	20.17	22.23	24.28	26.29	28.27	30.22	31.97
	21	35.69		11.71	13.88	16.04	18.14	20.14	22.15	24.23	26.22	28.23	30.18
	22	36.57			11.64	13.80	15.94	18.10	20.04	22.09	24.13	26.17	28.20
40	16	31.26	19.55	21.63	23.61	25.53	27.12						
	17	31.29	17.47	19.54	21.61	23.60	25.59	27.35					
	18	31.51	15.45	17.57	19.50	21.59	23.61	25.55	27.44	29.01			
	19	32.02	13.25	15.41	17.69	19.46	21.53	23.59	25.54	27.49	29.24		
	20	32.78	11.05	13.24	15.39	17.48	19.43	21.48	23.52	25.52	27.46	29.31	30.85
	21	33.60		11.01	13.17	15.33	17.43	19.39	21.41	23.46	25.48	27.40	29.34
	22	34.45			10.95	13.11	15.25	17.37	19.33	21.33	23.39	25.40	27.40
45	16	29.51	18.71	20.80	22.75	24.58							
	17	29.54	16.67	18.72	20.75	22.76	24.65	26.20					
	18	29.54	14.67	16.66	18.69	20.73	22.76	24.66	26.45				
	19	29.99	12.52	14.62	16.61	18.68	20.72	22.73	24.68	26.54	27.98		
	20	30.66	10.31	12.46	14.61	16.69	18.64	20.64	22.68	24.66	26.56	28.29	
	21	31.42		10.26	12.43	14.55	16.66	18.59	20.61	22.61	24.66	26.57	28.36
	22	32.29			10.21	12.35	14.51	16.59	18.54	20.57	22.57	24.57	26.50
50	16	27.57	17.83	19.90	21.77	23.33							
	17	27.60	15.79	17.81	19.88	21.80	23.57						
	18	27.60	13.83	15.79	17.80	19.84	21.82	23.68					
	19	27.81	11.68	13.79	15.77	17.80	19.81	21.82	23.70	25.39			
	20	28.35	9.51	11.63	13.76	15.75	17.76	19.76	21.76	23.71	25.51		
	21	29.05		9.45	11.61	13.73	15.79	17.72	19.71	21.75	23.73	25.55	27.18
	22	29.81			9.39	11.54	13.68	15.75	17.68	19.69	21.70	23.65	25.55

## HEATING PERFORMANCE

WB TEMP ON OD COIL - °C	TOTAL HEATING CAPACITY - kW									
	AT DB ENTERING INDOOR - °C									
	16		18		20		22		24	
	TH	IH	TH	IH	TH	IH	TH	IH	TH	IH
-10	19.92	19.12	19.83	19.04	19.75	18.96	19.63	18.85	19.55	18.77
-8	21.25	20.19	21.14	20.08	21.02	19.97	20.91	19.86	20.80	19.76
-6	22.61	21.25	22.47	21.12	22.35	21.01	22.30	20.96	22.18	20.85
-4	24.06	22.13	23.89	21.98	23.83	21.92	23.69	21.79	23.55	21.66
-2	25.64	22.82	25.47	22.67	25.30	22.52	25.13	22.37	24.99	22.24
0	27.18	23.91	26.98	23.74	26.86	23.64	26.67	23.47	26.50	23.32
2	28.71	26.12	28.48	25.92	28.25	25.71	28.06	25.53	27.86	25.35
4	30.38	30.38	30.07	30.07	29.90	29.90	29.70	29.70	29.47	29.47
6	32.14	32.14	31.86	31.86	31.60	31.60	31.34	31.34	31.15	31.15
8	33.95	33.95	33.64	33.64	33.36	33.36	33.10	33.10	32.85	32.85
10	35.83	35.83	35.51	35.51	35.20	35.20	34.92	34.92	34.63	34.63
12	37.78	37.78	37.44	37.44	37.10	37.10	36.76	36.76	36.45	36.45
14	39.80	39.80	39.43	39.43	39.06	39.06	38.69	38.69	38.35	38.35
16	41.89	41.89	41.47	41.47	41.07	41.07	40.68	40.68	40.28	40.28
18	44.05	44.05	43.60	43.60	43.14	43.14	42.69	42.69	42.26	42.26

TH - Total Heating Capacity (kW).  
IH - Integrated Heating Capacity (kW)  
Includes defrost losses.

## AIRFLOW CORRECTION MULTIPLIER

% VARIATION	-20%	-15%	-10%	-5%	NOMINAL	+5%	+10%	+15%	+20%
INDOOR AIRFLOW (l/s)	1400	1488	1575	1663	1750	1838	1925	2013	2100
TOTAL COOLING	0.964	0.975	0.984	0.994	1.000	1.010	1.017	1.024	1.030
SENSIBLE COOLING	0.892	0.923	0.949	0.978	1.000	1.033	1.059	1.086	1.112
HEATING FACTOR	0.987	0.991	0.995	0.997	1.000	1.002	1.005	1.007	1.009

### NOTES:

- No allowance has been made for the effect of indoor fan motor.
- Selection tables are based on nominal airflows. Correction factors must be applied for selection away from these conditions.

## PIPE LENGTH CORRECTION MULTIPLIER

	5m	10m	20m	30m	40m	50m	60m
COOLING	1.000	0.996	0.989	0.982	0.975	0.969	0.962
HEATING	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Correction multipliers are based on horizontal pipe runs.



## APPLICATION RANGE (COMPRESSOR ON)

AIRFLOW (l/s)	EXTERNAL STATIC PRESSURE (Pa)											
	50		100		150		200		250		300	
	% PWM	W	% PWM	W	% PWM	W	% PWM	W	% PWM	W	% PWM	W
1400	42	463	47	589	51	707	54	835	59	961	71	1118
1450	45	509	49	630	53	755	58	896	62	1011	74	1172
1500	48	559	52	677	55	800	60	935	65	1075	78	1225
1550	50	601	54	725	59	853	63	992	68	1112	82	1288
1600	53	649	57	776	62	908	66	1045	70	1184	85	1354
1650	55	695	61	831	65	965	69	1104	74	1243	90	1419
1700	58	733	64	888	68	1026	72	1167	78	1316	95	1506
1750	62	803	67	947	71	1087	75	1235	83	1401	99	1564
1800	65	862	70	1006	74	1154	78	1308	88	1474	MOTOR / BLOWER LIMIT	
1850	69	926	73	1076	78	1228	82	1376	93	1557		
1900	72	988	77	1148	81	1305	86	1457	98	1639		
1950	75	1058	80	1223	85	1389	89	1533				
2000	79	1134	84	1305	89	1468	94	1624				
2050	83	1206	88	1387	92	1556	99	1721				
2100	87	1304	92	1474	96	1638						

## REDUCED AIRFLOW \*(COMPRESSOR OFF)

AIRFLOW (l/s)	EXTERNAL STATIC PRESSURE (Pa)											
	50		100		150		200		250		300	
	% PWM	W	% PWM	W	% PWM	W	% PWM	W	% PWM	W	% PWM	W
350	MOTOR / BLOWER LIMIT										12	174
400											23	347
450											25	393
500											26	403
550											28	431
600											30	476
650	32	499										
700	34	532										
750	35	561										
800	37	580										
850	20	176	24	257	27	323	31	418	35	524	39	615
900	21	183	25	263	29	352	33	453	37	561	42	665
950	23	209	27	291	31	383	35	486	38	568	44	714
1000	25	232	29	318	33	415	36	492	40	600	47	763
1050	27	259	31	345	34	420	38	524	43	669	50	804
1100	29	282	33	375	36	449	41	585	46	727	52	845
1150	31	308	35	402	39	503	43	618	48	764	55	887
1200	33	335	37	431	41	536	46	678	50	794	57	929
1250	35	361	39	457	44	594	48	708	52	832	60	969
1300	37	387	42	513	46	623	50	737	54	888	64	1024
1350	40	426	44	541	48	659	52	780	56	918	67	1065

3 Phase  
1 Stage  
33.90 kW

### NOTES:

\*Reduced fan airflow is the airflow during compressor OFF operation (optional feature)

W = Indoor Fan Power, Watts

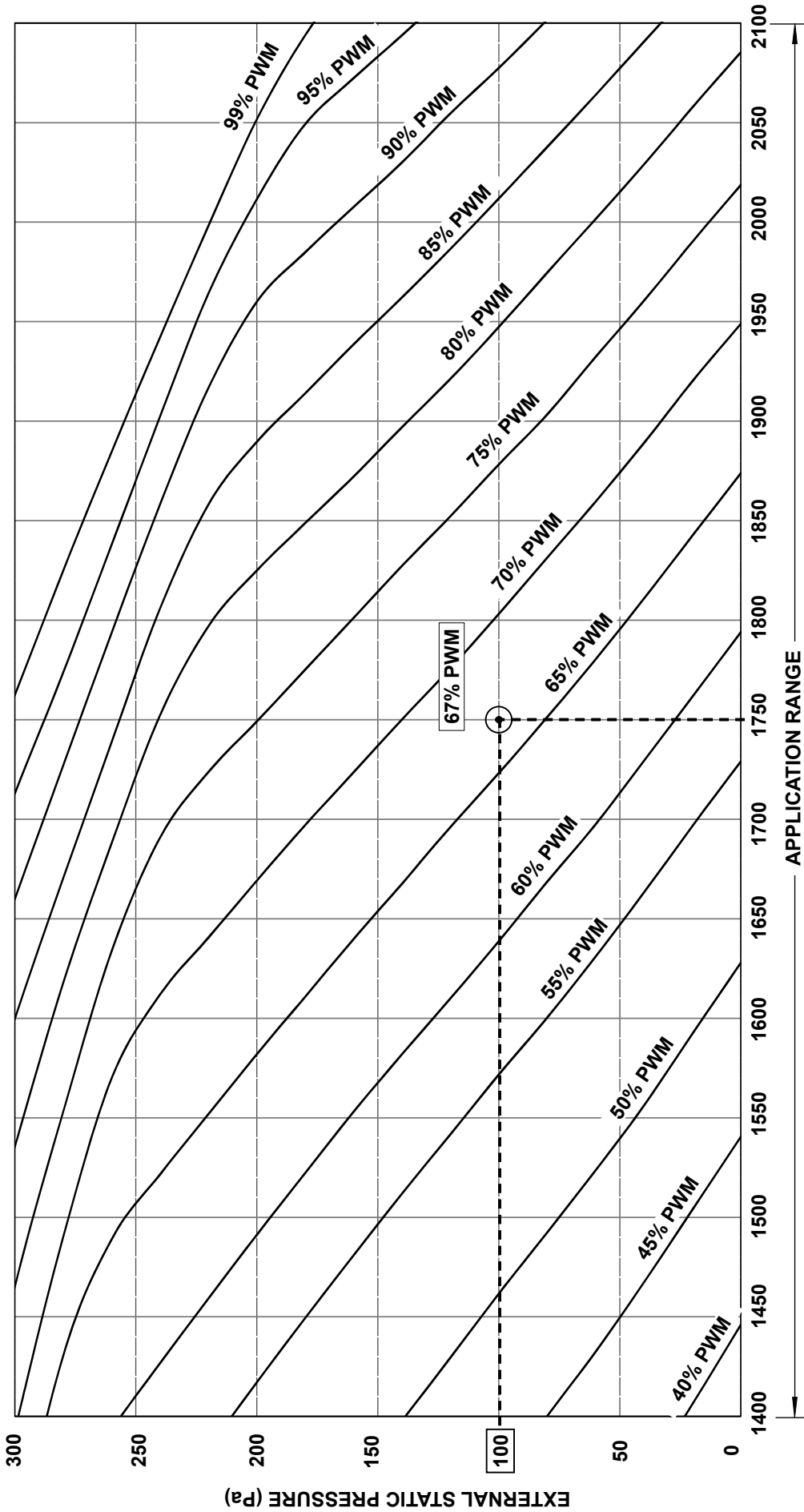
PWM = Pulse Width Modulation Setting, % PWM (Adjustable through NEO / LC7-2 Control Interface or Outdoor Board)

Default Fan Speed Value at 100 Pa	
Speed	Default PWM
High PWM (%)	92 (adjustable)
Medium PWM (%)	67 (adjustable)
Low PWM (%)	47 (adjustable)

Indoor Fan PWM Limits	
High PWM (%)	99
Low PWM (%)	42



33.90 kW  
3 Phase 1 Stage



APPLICATION RANGE

Nominal Airflow = 1750 l/s

AIRFLOW (l/s)

Notes:

1. Performance Fan Curve shown is at Dry Coil Condition.
2. Airflow should be reduce with respect to the moisture content in the air.
3. All data provided does not include filters. Please review filter manufacturer for application.
4. 2.5 m/s face velocity point will occur at 2150 l/s.

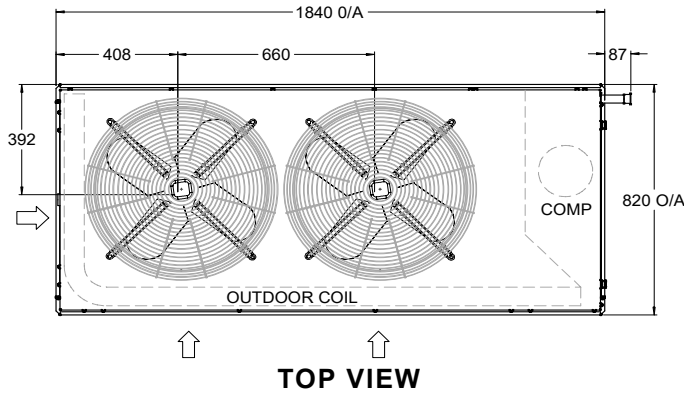


# UNIT DIMENSIONS

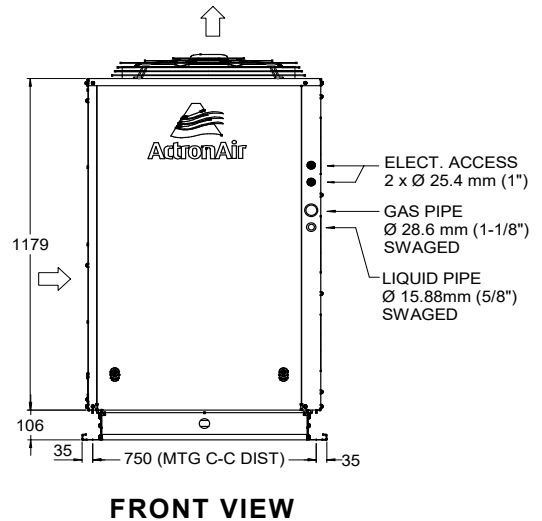
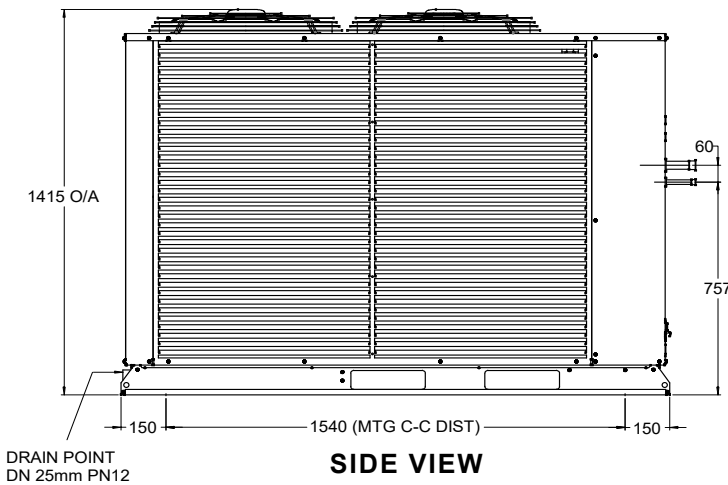
# CRV330T / EVA330T

## C OUTDOOR UNIT - STANDARD MODEL

UNIT MODEL NUMBER	UNIT WEIGHT (kg)	CORNER WEIGHTS (kg)			
		A	B	C	D
CRV330T	292	52	87	66	87

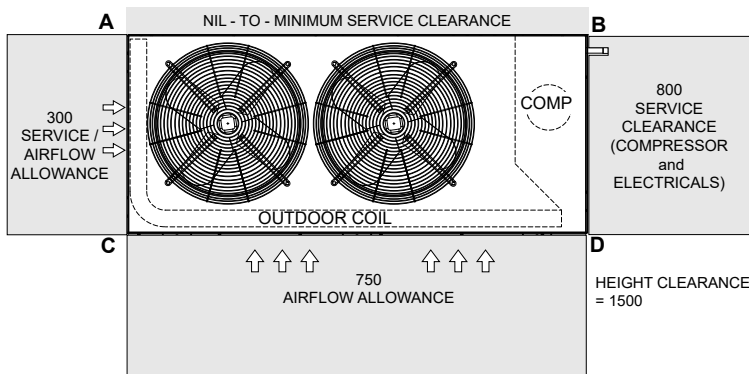


OVERALL NOMINAL DIMENSION (H x W x L)  
= 1415 x 1840 x 820

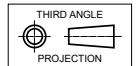


3 Phase  
1 Stage  
33.90 kW

## MINIMUM SERVICE ACCESS CLEARANCES AND AIRFLOW SPACE ALLOWANCES



### NOTES:



- Do not scale drawing.
- All dimensions are in mm unless specified. Refer to corresponding unit dimensional drawing for mounting hole details
- Suggested Service Clearance and Airflow Allowances are based on conditions that the spaces are free from obstructions and walkway passage of 1m is available to allow coil replacement without lifting coil over the top of the unit.
- Minimum service access areas and space for airflow clearances are responsibilities of the installer.
- Under circumstances, condenser air must not recirculate back onto condenser coil. Keep all clearances free of any obstructions.
- STACKING OF UNITS: Ensure that minimum airflow and service clearances are met.
- MTG C-C DIST = Mounting Centre to Centre Distance.
- Use M12 bolt for feet mounting.

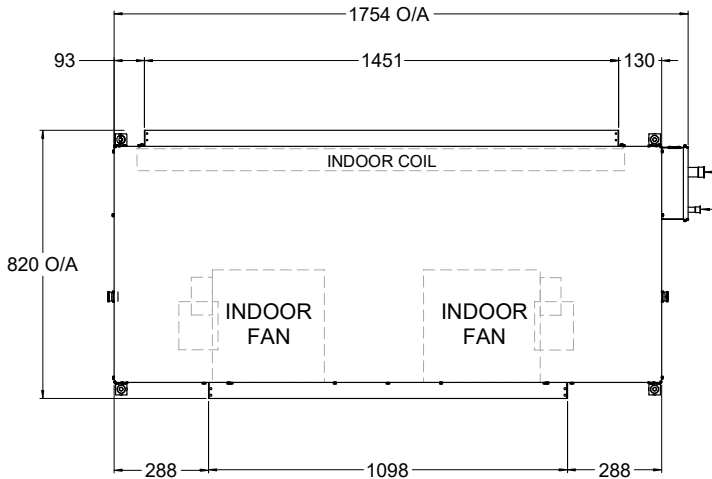


# UNIT CLEARANCE

# CRV330T / EVA330T

## E INDOOR UNIT - STANDARD MODEL

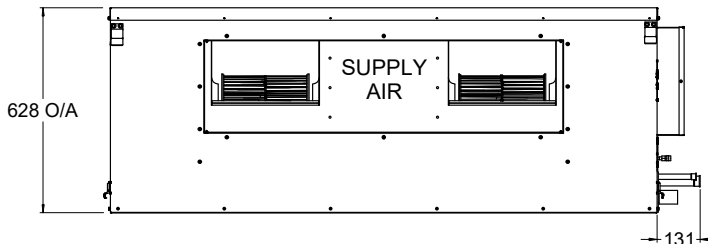
UNIT MODEL NUMBER	UNIT WEIGHT (kg)
EVA330T	126



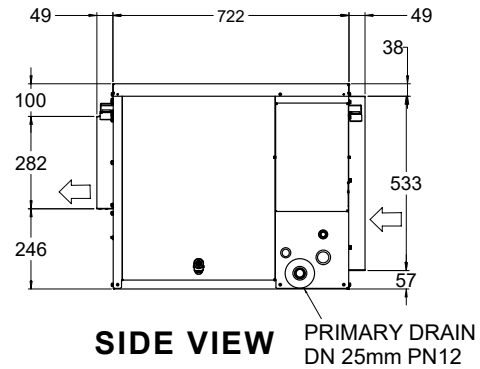
**TOP VIEW**

OVERALL NOMINAL DIMENSION (H x W x L)  
 = 628 x 1754 x 820  
 SUPPLY DUCT (H x W) = 282 x 1098  
 RETURN DUCT = 533 x 1451  
 DRAIN CONNECTION = DN 25mm PN12

GAS PIPES  
 Ø 28.58 mm (1-1/8")  
 SWAGED  
 LIQUID PIPE  
 Ø 15.88 mm (5/8")  
 SWAGED



**FRONT VIEW**

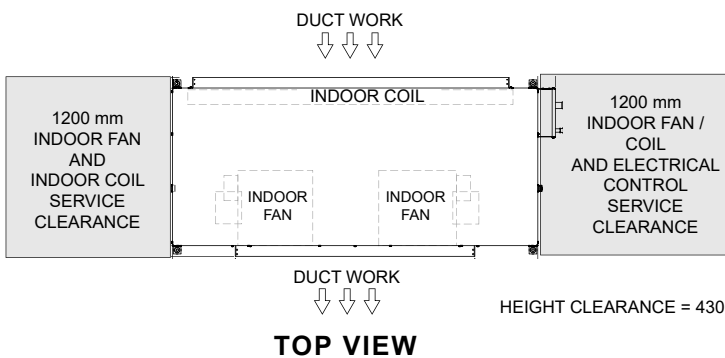


**SIDE VIEW**

PRIMARY DRAIN  
 DN 25mm PN12

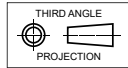
33.90 kW  
3 Phase 1 Stage

## MINIMUM SERVICE ACCESS CLEARANCES and AIRFLOW SPACE ALLOWANCES



**TOP VIEW**

**NOTES:**



- Do not scale drawing. All dimensions are in mm unless specified. Refer to corresponding unit dimensional drawing for mounting hole details.
- Service Access Areas and Spaces for Airflow Clearances given are suggested minimum based on the condition that the spaces around the units are free from any obstructions and a walkway passage of 1000mm between the units or between the unit and the outside perimeter is available.
- Minimum service access areas and spaces for airflow clearances are responsibilities of the installer, ActronAir will not be held liable for any extra charges incurred due to lack of access and space for airflow.



**Outdoor Radiated**

**Sound Power Level (SWL)**

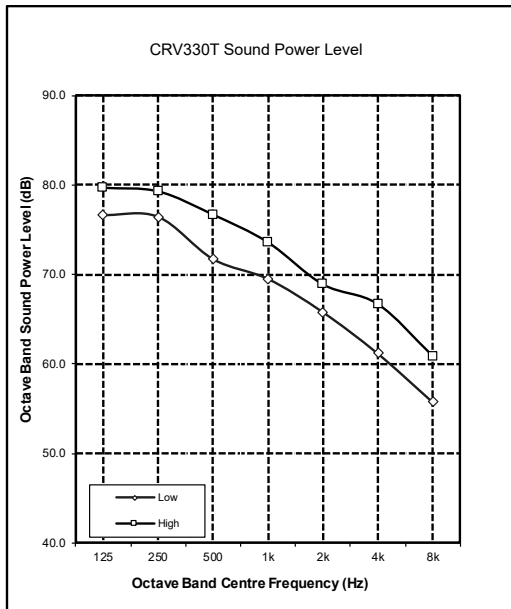
Fan Speed	Sound Power Level dB(A)	Octave Band Centre Frequency (Hz), dB						
		125	250	500	1k	2k	4k	8k
Low	74.8	76.6	76.4	71.7	69.5	65.8	61.2	55.8
High	78.8	79.7	79.3	76.7	73.6	68.9	66.7	60.9

**Indoor Outlet**

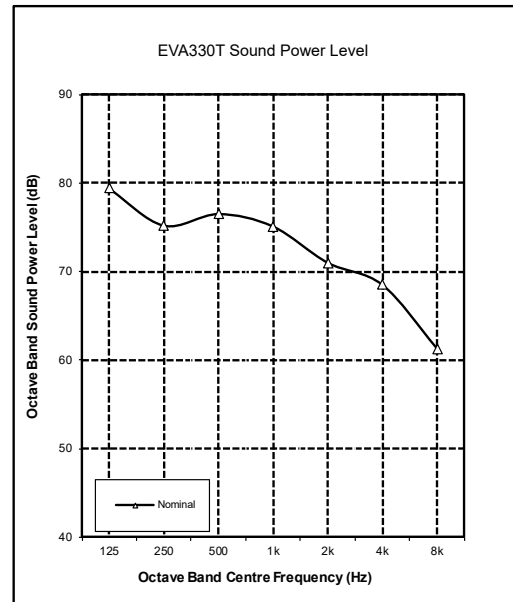
**Sound Power Level (SWL)**

Airflow Setting	Airflow Li/s	Sound Power Level dB(A)	Octave Band Centre Frequency (Hz), dB						
			125	250	500	1k	2k	4k	8k
Nominal	1750	79.4	79.4	75.2	76.5	75.1	71.0	68.5	61.3

**OUTDOOR RADIATED**



**INDOOR OUTLET**



**33.90 kW**  
3 Phase  
1 Stage

**NOTE:**

Radiated sound power levels are based on ISO 3743-1.

# SPECIFICATIONS

# CRV330T / EVA330T

CONSTRUCTION	
CABINET (Indoor Unit)	0.5 - 1.2 mm Galvanized Steel
CABINET (Outdoor Unit)	0.9 - 1.6 mm Galvanized Steel
SURFACE FINISH (Outdoor Unit)	65 µ Baked Polyester Powder Coat

INSULATION (Indoor Unit)	
TYPE	Foil Faced Polyethylene

ELECTRICAL	
OUTDOOR UNIT	
Power Supply - 50 Hz	400 Volts x 3 Phase + N
Voltage Range (min - max)	380 V - 440 V
Full Load Amps* (L1 / L2 / L3)	25.5 / 23.0 / 22.0
Rated Load Amps**	19.7
Approximate Starting Amps	139.0
IP Rating	IP44

INDOOR UNIT	
Power Supply - 50 Hz	400 Volts x 3 Phase + Neutral
Voltage Range (min - max)	380 V - 440 V
Full Load Amps* (L1 / L2 / L3)	0.8 / 5.0 / 5.0
IP Rating	IP20

OUTDOOR AND INDOOR UNIT (TOTAL)	
Full Load Amps* - (L1 / L2 / L3)	26.3 / 28.0 / 27.0
Rated Load Amps**	19.7

IMPORTANT - The local electricity authority may require limits on starting current and voltage drop, please check prior to purchase.

\* Full Load Amps are based on Compressor and Fan Motor's maximum expected current.

\*\* Rated Load Amps are measured and tested in accordance with AS/NZS3823.1.2.

CABLE SIZE AND CIRCUIT BREAKER SIZE	
Suggested minimum cable size should be used as a guide only, refer to the accordance with the latest edition of the AS/NZS 3000 "Australian/New Zealand Wiring Rules" for more details.	
Cable Size (main line)	6.0 mm <sup>2</sup>
Cable Size (indoor to outdoor wire)	1.0 mm <sup>2</sup>
Circuit Breaker Size	32.0 Amps

OUTDOOR COIL	
TUBE TYPE	Copper - Rifle Bore
FIN TYPE	Aluminium - Wave
FACE AREA (m sq)	2.46
FIN SPACING (per m)	472
COIL COATING	Hydrophilic Blue Coat Coil Fin Protection

OUTDOOR FAN	
NUMBER OF FANS x TYPE	2 x Axial
NUMBER OF BLADES PER FAN	4
DIAMETER (mm)	560
OUTPUT kW	0.37
MOTOR TYPE / DRIVE TYPE	6 Pole External Rotor / Direct Drive
FAN SPEED CONTROL	3 Speed via Capacitor

The standard type outdoor fans fitted to this unit will accept up to 5Pa of external static resistance.

INDOOR COIL	
TUBE TYPE	Copper - Rifle Bore
FIN TYPE	Aluminium - Wave
FIN SPACING (per m)	472
COIL COATING	Hydrophilic Blue Coat Coil Fin Protection

INDOOR FAN	
NUMBER OF FANS x TYPE	1 x Twin Deck Centrifugal Fan
DIAMETER / WIDTH (mm)	240 x 240
INPUT kW TOTAL	0.90
MOTOR TYPE / DRIVE TYPE	Variable Speed EC Motor / Direct

COMPRESSOR	
NUMBER PER UNIT x TYPE	1 x Digital Scroll (Hermetic)
FULL LOAD AMPS	23.0
LOCKED ROTOR AMPS	139.0
STARTING METHOD	D.O.L. (optional soft starter)

REFRIGERATION SYSTEM	
REFRIGERANT TYPE	R-410A
EXPANSION CONTROL	Direct Expansion Orifice
FACTORY CHARGE (grams)	11,300
PRE-CHARGE LENGTH (metres)	5
ADDITIONAL REF. CHARGE (gm/m)	165

INTERCONNECTING PIPE RUN	
MAX PIPE LENGTH (metres)	60
MAX. VERTICAL LENGTH (metres)	20 (Included in Max. Pipe Length)
RECOMMENDED FIELD PIPE SIZES (SOLDER)	
Liquid Pipe	15.88 mm (5/8")
Gas Pipe	28.6 mm (1-1/8")

PIPE CONNECTIONS		
Indoor	Liquid Pipe	15.88 mm (5/8") Swaged to fit 15.88 mm (5/8") field pipe
	Gas Pipe	28.6 mm (1-1/8") Swaged to fit 28.6 mm (1-1/8") field pipe
Outdoor	Liquid Pipe	15.88 mm (5/8") Swaged to fit 15.88 mm (5/8") field pipe
	Gas Pipe	28.6 mm (1-1/8") Swaged to fit 28.6 mm (1-1/8") field pipe
CONNECTION TYPE		Solder
Insulate both gas and liquid pipes separately.		

PROTECTION DEVICES	
HIGH PRESSURE CUTOFF SWITCH	Nonadjustable (Automatic Reset)
LOW PRESSURE CUTOFF SWITCH	Nonadjustable (Automatic Reset)
COMPRESSOR MOTOR TEMP.	Internal Thermal Cut-Out
INDOOR FAN OVERLOAD	Internal Thermal Cut-Out
OUTDOOR FAN OVERLOAD	Internal Thermal Cut-Out
SUMP HEATER WATTS	50.0 W during Comp. Off Cycle

ELECTRIC CONTROLS	
DEFROST METHOD	Reverse Cycle
DEFROST TYPE	Adaptive Demand Defrost
CONTROL CIRCUIT BREAKER	10.0 Amps
LC7 FIELD CONTROL WIRING	Cat5e UTP (AWG24) Data Cable
INDOOR TO OUTDOOR DATA CABLE	RS485 / 2 Core (1 Pair) Twisted Pair 7/0.30 (0.5mm <sup>2</sup> ) Shielded Data Cable

**OPERATING RANGE**  
It is essential that the unit is correctly sized for the application and operates within its recommended range of operating conditions as shown below.

MODE	RANGE	INDOOR AIR INTAKE TEMPERATURE	OUTDOOR AIR INTAKE TEMPERATURE
		30°C DB / 22°C WB	50°C DB
Cooling	Max.	30°C DB / 22°C WB	50°C DB
	Min.	20°C DB / 16°C WB	5°C DB
Heating	Max.	24°C DB	19.5°C DB / 18°C WB
	Min.	16°C DB	-10°C WB

**AIR FILTERS**  
All return air including fresh air must have adequate filters supplied and fitted by the installing contractor. Filters must be located in accessible location between the return air grille and the unit.  
ActronAir does not supply or make any provisions for return air filter.

**UNIT COMPLIANCE**

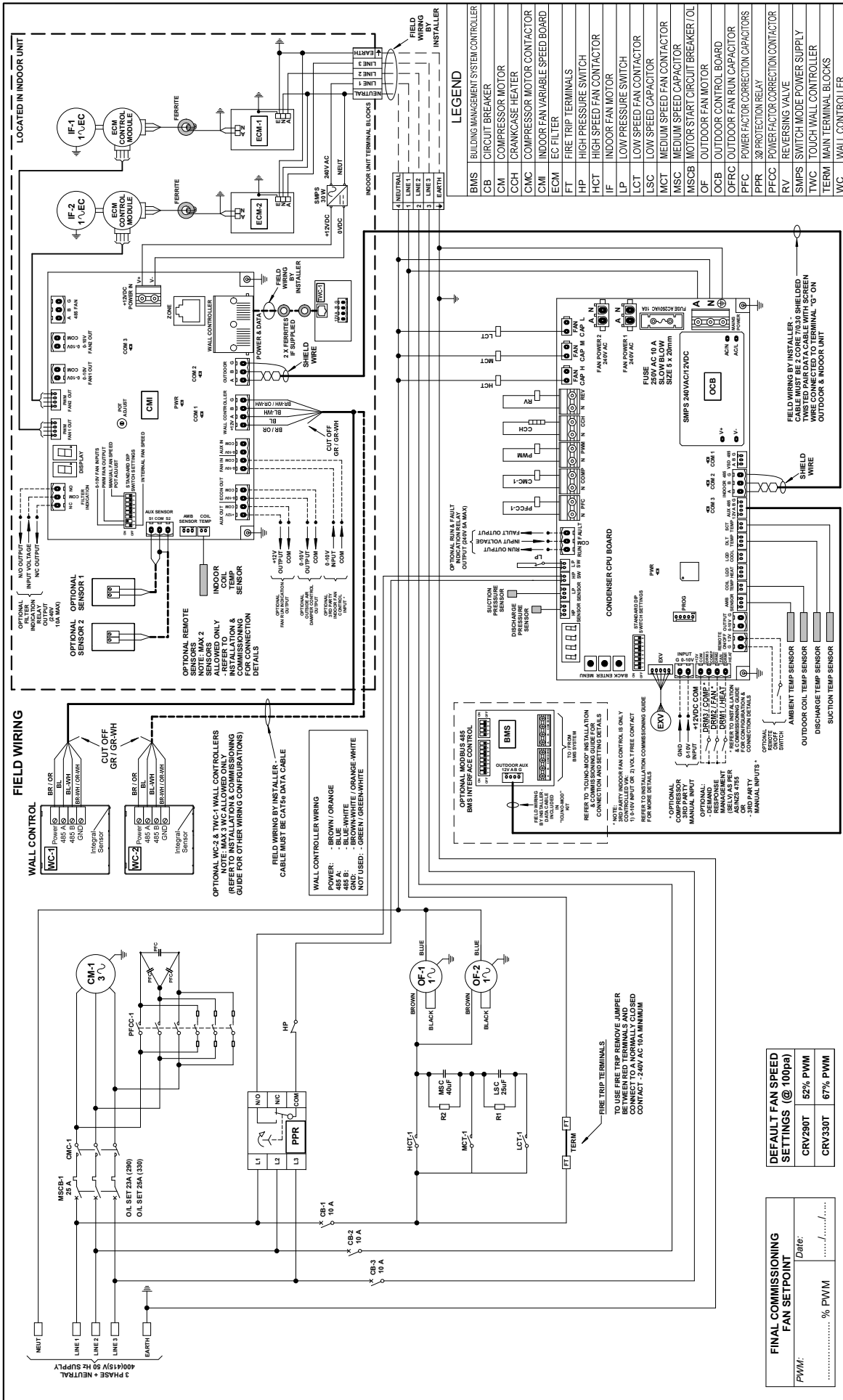
- AS/NZS 3823.2 (MEPS)
- AS/NZS 4755.3.1 (DRM1, 2 and 3)
- AS/NZS CISPR 11, Group 1 Class A (EMC)

33.90 kW  
3 Phase 1 Stage



# WIRING DIAGRAM

# CRV330T / EVA330T



<b>LEGEND</b> BMS   BUILDING MANAGEMENT SYSTEM CONTROLLER CB   CIRCUIT BREAKER CM   COMPRESSOR MOTOR CCH   CRANKCASE HEATER CMC   COMPRESSOR MOTOR CONTACTOR CMI   INDOOR FAN VARIABLE SPEED BOARD ECM   EC FILTER FT   FIRE TRIP TERMINALS HP   HIGH PRESSURE SWITCH HPT   HIGH SPEED FAN CONTACTOR IF   INDOOR FAN MOTOR LP   LOW PRESSURE SWITCH LCT   LOW SPEED FAN CONTACTOR LSC   LOW SPEED CAPACITOR MCT   MEDIUM SPEED FAN CONTACTOR MSCB   MOTOR START CIRCUIT BREAKER / OL OF   OUTDOOR FAN MOTOR OCB   OUTDOOR CONTROL BOARD OFRC   OUTDOOR FAN RUN CAPACITOR PFC   POWER FACTOR CORRECTION CAPACITORS PPR   30 PROTECTION RELAY PFCO   POWER FACTOR CORRECTION CONTACTOR RV   REVERSING VALVE SMPS   SWITCH MODE POWER SUPPLY TWC   TOUCH WALL CONTROLLER TERM   MAIN TERMINAL BLOCKS WC   WALL CONTROLLER		Variation Code: <b>STANDARD</b> Base Model No.: <b>CRV250/330T</b> Description: UNO SERIES CONTROL SYSTEM WIRING DIAGRAM WITH C SERIES WALL CONTROL, CMI VARIABLE SPEED INDOOR FAN CONTROL BOARD & PFC
Drawn: <b>RL</b> Approved: <b>JL</b>	Date: <b>18-01-2019</b> Date: <b>20-09-2022</b>	
Drawing No.: <b>WD2100</b>	Revision: <b>E A3</b>	
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Rev. <b>E</b>	Description: <b>ADDED FERRITE TO TWC-1</b>	
Rev. <b>D</b>	Description: <b>ORIGINAL</b>	



<b>FINAL COMMISSIONING FAN SETPOINT</b> PWM: ..... % PWM Date: ...../...../.....	<b>DEFAULT FAN SPEED SETTINGS (@ 100pa)</b> CRV290T 52% PWM CRV330T 67% PWM
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3 Phase 1 Stage 33.90 kW