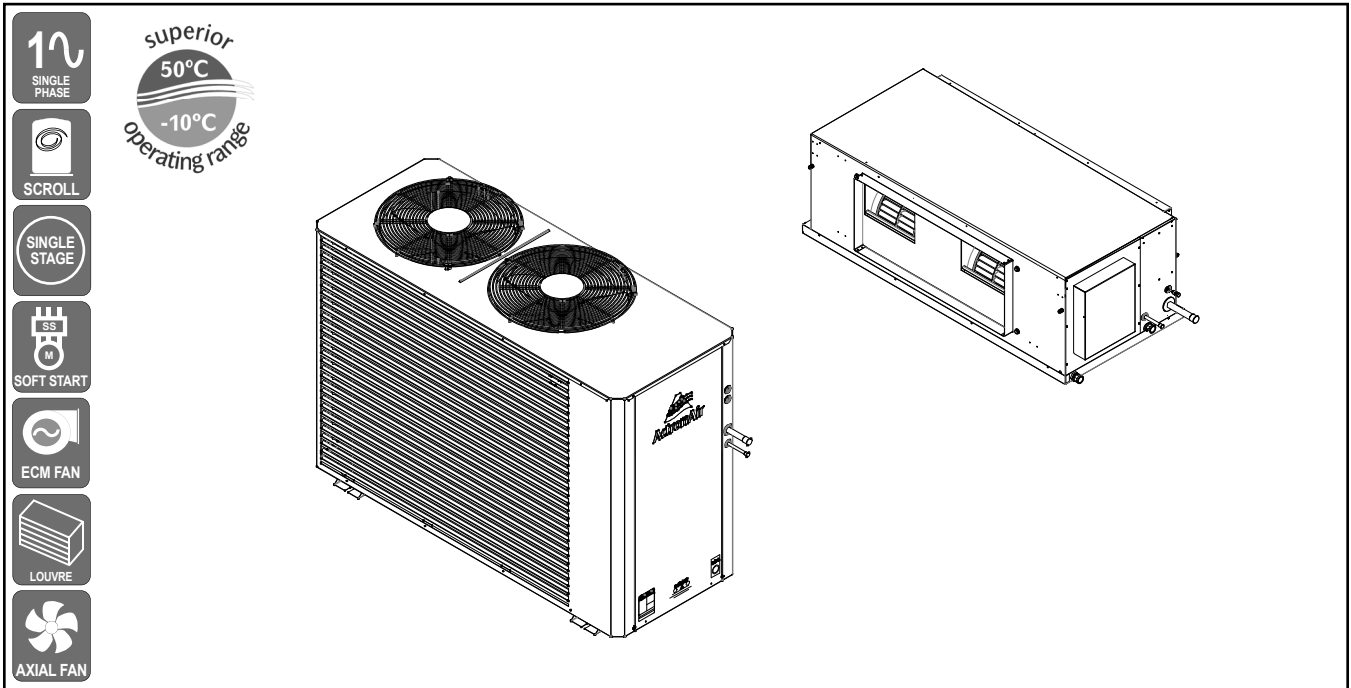


SPLIT DUCTED UNIT



UNIT FEATURES

- Compliant Scroll Compressor
- EMC High Efficiency Indoor Fan Motor
- Three Speed Outdoor Fan
- Adaptive Demand Defrost
- 20 m Cat5E Cable included
- Low Ambient Cooling Operation to +5 degree
- Fault and Run Indication - Relay Output
- Up to 3 Wall Controllers and 3 Remote Temperature Sensors
- Ready for up to 8 zones
- Single Phase Soft Starter
- Hydrophilic Blue Fin Coil Coat Protection - Indoor & Outdoor Coils
- Integral Fan Coil Safety Tray with Drain Kit
- Pre-charged with R-410A Refrigerant
- Powder Coated Outdoor Unit With Louvred Coil Guard

CONTROL OPTIONS AND FEATURES

ActronAir LR7-1/LC7-2

- Available in White or Grey
- 7-day Programmable Controller with 2 Events per Day
- 24-hour ON/OFF Timer
- Temperature Setback
- After Hours Time (LC7 Only)
- Auto, Heat & Cool Modes
- 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

ActronAir BMS ICUNO-MOD (Modbus 485)

3RD PARTY CONTROL OPTIONS

- Manual Inputs (Heat, Cool and Fan Operation)
- Analogue Input (Fan Only)

PLENUMS (Optional)

- Supply Air Plenums are Available

UNIT OPTIONS

- Additional Full Coil Coat Protection
- Outdoor Drain Tray
- Horizontal Discharge Condenser
- Vertical Evaporator

SPECIFICATION SUMMARY

OUTDOOR UNIT MODEL	CRA130S	
INDOOR UNIT MODEL	EVA130S	
	⁽¹⁾ TOTAL	⁽²⁾ NETT
⁽³⁾ COOLING CAPACITY (kW)	12.75	12.24
⁽³⁾ SENSIBLE CAPACITY (kW)	11.67	11.16
⁽⁴⁾ HEATING CAPACITY (kW)	11.69	12.17
⁽⁵⁾ COOLING INPUT POWER (kW)	3.75	
⁽⁵⁾ HEATING INPUT POWER (kW)	3.34	
EER	3.40	3.26
COP	3.50	3.64
⁽⁶⁾ INDOOR AIRFLOW (l/s) - MIN. / NOMINAL / MAX.	590 / 650 / 750	
⁽⁷⁾ OUTDOOR SOUND PRESS. LEVEL @ 3M dB(A) - LOW / MEDIUM / HIGH	45.3 / 48.5 / 52.0	
OUTDOOR SOUND POWER LEVEL dB(A) - LOW / MEDIUM / HIGH	66.3 / 68.4 / 71.5	
POWER SUPPLY - OUTDOOR	230V / 1Ph+N / 50 Hz	
POWER SUPPLY - INDOOR	230V / 1Ph+N / 50 Hz	
⁽²⁾ RATED LOAD AMPS - OUTDOOR / INDOOR / TOTAL	13.9 / 3.8 / 17.7	
⁽⁸⁾ FULL LOAD AMPS - OUTDOOR / INDOOR / TOTAL	23.1 / 4.3 / 27.4	
⁽⁹⁾ CIRCUIT BREAKER AND CABLE AMPS	32.0	
APPROXIMATE STARTING AMPS	< 45.0	
WEIGHT (kg) - INDOOR / OUTDOOR	49 / 132	

⁽¹⁾ Total Capacities are 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⁾ Sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions.

⁽⁸⁾ Full Load Amps are based on compressor and fan motors' maximum expected current.

⁽⁹⁾ See Specifications sheet for cable size and circuit breaker size details.

Note: Use input power to estimate running cost.

CAPACITY SELECTION DATA

CRA130S / EVA130S

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	13.33	8.95	9.79	10.62	11.45	12.25							
	17	13.33	8.11	8.93	9.77	10.61	11.44	12.25	12.97					
	18	13.60	7.23	8.09	8.91	9.76	10.60	11.42	12.25	13.02				
	19	13.94	6.33	7.21	8.09	8.89	9.73	10.57	11.41	12.24	13.01	13.74		
	20	14.26	5.40	6.30	7.18	8.06	8.86	9.71	10.54	11.38	12.21	13.01	13.76	
	21	14.66		5.38	6.26	7.16	8.02	8.82	9.69	10.52	11.34	12.18	12.99	
22	15.03			5.36	6.23	7.13	8.00	8.86	9.65	10.48	11.32	12.15		
30	16	12.87	8.70	9.53	10.37	11.18	11.95							
	17	12.85	7.87	8.68	9.53	10.37	11.18	11.97						
	18	13.09	6.99	7.86	8.66	9.51	10.34	11.17	11.98	12.74				
	19	13.36	6.10	6.98	7.84	8.65	9.49	10.33	11.15	11.96	12.75			
	20	13.68	5.18	6.08	6.96	7.82	8.63	9.48	10.31	11.13	11.95	12.75	13.48	
	21	14.08		5.15	6.04	6.93	7.80	8.61	9.44	10.28	11.12	11.93	12.72	
22	14.42			5.12	6.01	6.89	7.76	8.57	9.41	10.25	11.09	11.90		
35	16	12.38	8.43	9.27	10.10	10.90	11.63							
	17	12.38	7.61	8.42	9.26	10.08	10.90	11.66						
	18	12.54	6.74	7.59	8.40	9.24	10.07	10.88	11.68	12.43				
	19	12.75	5.84	6.72	7.59	8.38	9.23	10.07	10.89	11.67	12.45	11.24		
	20	13.09	4.93	5.82	6.70	7.57	8.37	9.20	10.04	10.86	11.67	12.46	13.17	
	21	13.41		4.92	5.80	6.68	7.53	8.35	9.17	10.02	10.83	11.65	12.44	
22	13.74			4.89	5.77	6.64	7.52	8.31	9.15	9.98	10.81	11.63		
40	16	11.77	8.11	8.96	9.77	10.55								
	17	11.78	7.26	8.11	8.95	9.76	10.57	11.29						
	18	11.86	6.44	7.30	8.09	8.94	9.77	10.56	11.33					
	19	12.05	5.54	6.43	7.35	8.08	8.92	9.76	10.55	11.35				
	20	12.33	4.65	5.54	6.41	7.27	8.06	8.90	9.73	10.54	11.33	12.09		
	21	12.64		4.63	5.51	6.39	7.25	8.04	8.87	9.71	10.53	11.31	12.10	
22	12.95			4.60	5.49	6.36	7.22	8.02	8.84	9.68	10.49	11.31		
45	16	11.12	7.77	8.62	9.42	10.16								
	17	11.13	6.94	7.77	8.60	9.42	10.19							
	18	11.13	6.12	6.94	7.76	8.59	9.42	10.19						
	19	11.30	5.24	6.10	6.91	7.75	8.59	9.41	10.20	10.96				
	20	11.55	4.34	5.22	6.10	6.95	7.74	8.56	9.39	10.19	10.97			
	21	11.83		4.33	5.21	6.07	6.93	7.72	8.54	9.36	10.19	10.97	11.70	
22	12.15			4.30	5.18	6.06	6.90	7.70	8.53	9.34	10.16	10.94		
50	16	10.40	7.41	8.26	9.02									
	17	10.41	6.58	7.40	8.24	9.03								
	18	10.41	5.78	6.58	7.40	8.23	9.04	9.79						
	19	10.49	4.90	5.76	6.57	7.40	8.22	9.04	9.80					
	20	10.69	4.02	4.89	5.75	6.56	7.38	8.20	9.01	9.81	10.54			
	21	10.95		3.99	4.88	5.74	6.58	7.36	8.17	9.01	9.81	10.56		
22	11.23			3.97	4.85	5.72	6.56	7.35	8.17	8.99	9.78	10.56		

HEATING PERFORMANCE

WB TEMP ON OD COIL - °C	HEATING CAPACITY - kW									
	AT DB ENTERING INDOOR - °C									
	16		18		20		22		24	
	TH	IH	TH	IH	TH	IH	TH	IH	TH	IH
-10	7.31	6.87	7.28	6.84	7.25	6.81	7.20	6.77	7.17	6.74
-8	7.81	7.26	7.77	7.22	7.72	7.18	7.68	7.14	7.64	7.11
-6	8.32	7.65	8.27	7.61	8.22	7.57	8.20	7.55	8.16	7.51
-4	8.86	7.93	8.80	7.87	8.78	7.85	8.72	7.81	8.67	7.76
-2	9.46	8.23	9.39	8.17	9.33	8.12	9.26	8.06	9.21	8.01
0	10.03	8.63	9.96	8.56	9.91	8.52	9.84	8.46	9.77	8.41
2	10.60	9.44	10.52	9.36	10.43	9.29	10.36	9.22	10.28	9.15
4	11.23	10.67	11.11	10.56	11.05	10.50	10.97	10.43	10.89	10.35
6	11.89	11.89	11.78	11.78	11.69	11.69	11.59	11.59	11.52	11.52
8	12.57	12.57	12.45	12.45	12.34	12.34	12.25	12.25	12.15	12.15
10	13.27	13.27	13.15	13.15	13.03	13.03	12.93	12.93	12.82	12.82
12	14.00	14.00	13.87	13.87	13.75	13.75	13.62	13.62	13.50	13.50
14	14.76	14.76	14.62	14.62	14.48	14.48	14.34	14.34	14.21	14.21
16	15.54	15.54	15.38	15.38	15.23	15.23	15.08	15.08	14.94	14.94
18	16.35	16.35	16.18	16.18	16.01	16.01	15.84	15.84	15.68	15.68

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

AIRFLOW CORRECTION MULTIPLIER

% VARIATION	-9.23%	-5%	NOMINAL	5%	10%	15.38%
INDOOR AIRFLOW (l/s)	590.0	617.5	650.0	682.5	715.0	750.0
TOTAL COOLING	0.984	0.992	1.000	1.008	1.015	1.022
SENSIBLE COOLING	0.944	0.969	1.000	1.029	1.058	1.089
HEATING FACTOR	0.996	0.998	1.000	1.001	1.002	1.004

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.

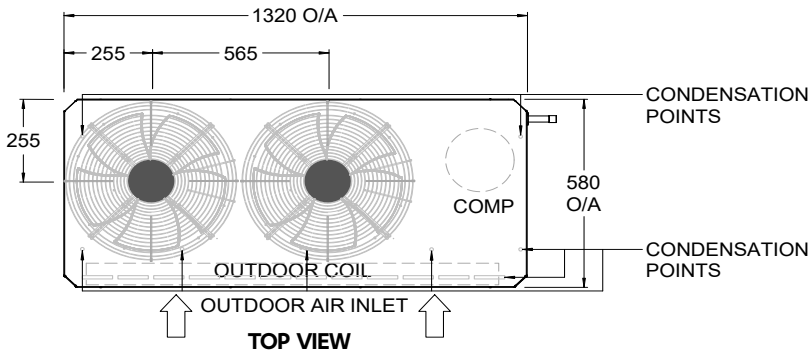
PIPE LENGTH CORRECTION MULTIPLIER

	5 m	10 m	20 m	30 m	40 m	50 m	60 m
COOLING	1.000	0.995	0.986	0.978	0.968	0.957	0.949
HEATING	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Correction multipliers are based on horizontal pipe runs.



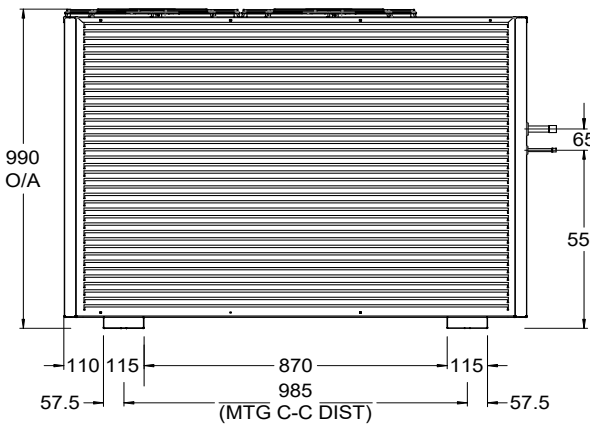
Outdoor Unit Dimensions and Clearances



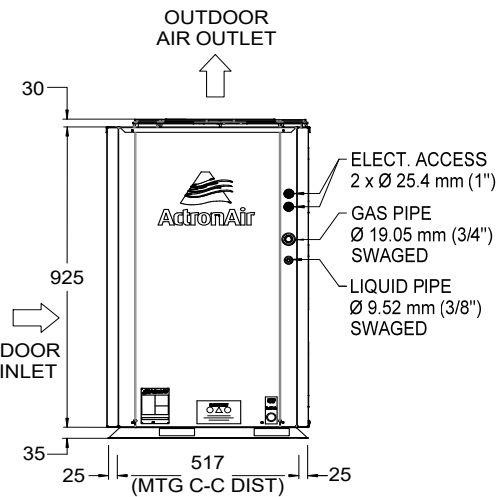
CONDENSATION POINTS ARE DESIGNED TO ENSURE ALL CONDENSATION IS REMOVED EFFICIENTLY TO AVOID WATER POOLING WITHIN THE CONDENSER. IF A SINGLE CONDENSATION DRAIN POINT IS REQUIRED, ACTRONAIR RECOMMENDS THE INSTALLATION OF A CONDENSER TRAY. THESE ARE AVAILABLE AS AN ADDITIONAL ACCESSORY.

** DRAWING IS SUBJECT TO CHANGE WITHOUT NOTICE**

1 Phase
1 Stage
12.75 kW



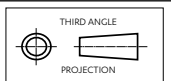
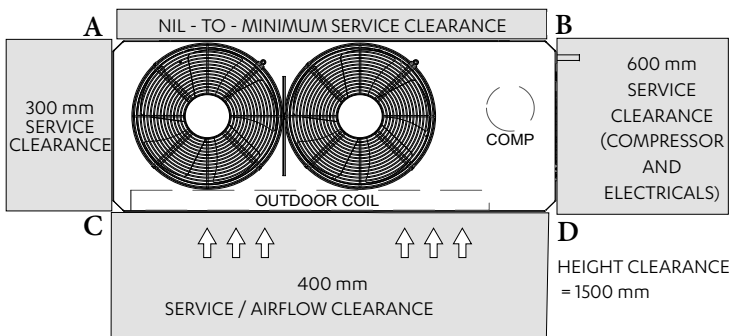
SIDE VIEW



FRONT VIEW

UNIT MODEL NUMBER	UNIT WEIGHT (kg)	CORNER WEIGHTS (kg)			
		A	B	C	D
CRA130S / CCA130S	132	21	42	19	50
CRA130T	130	21	40	19	50

Minimum Service Access Areas and Airflow Clearances



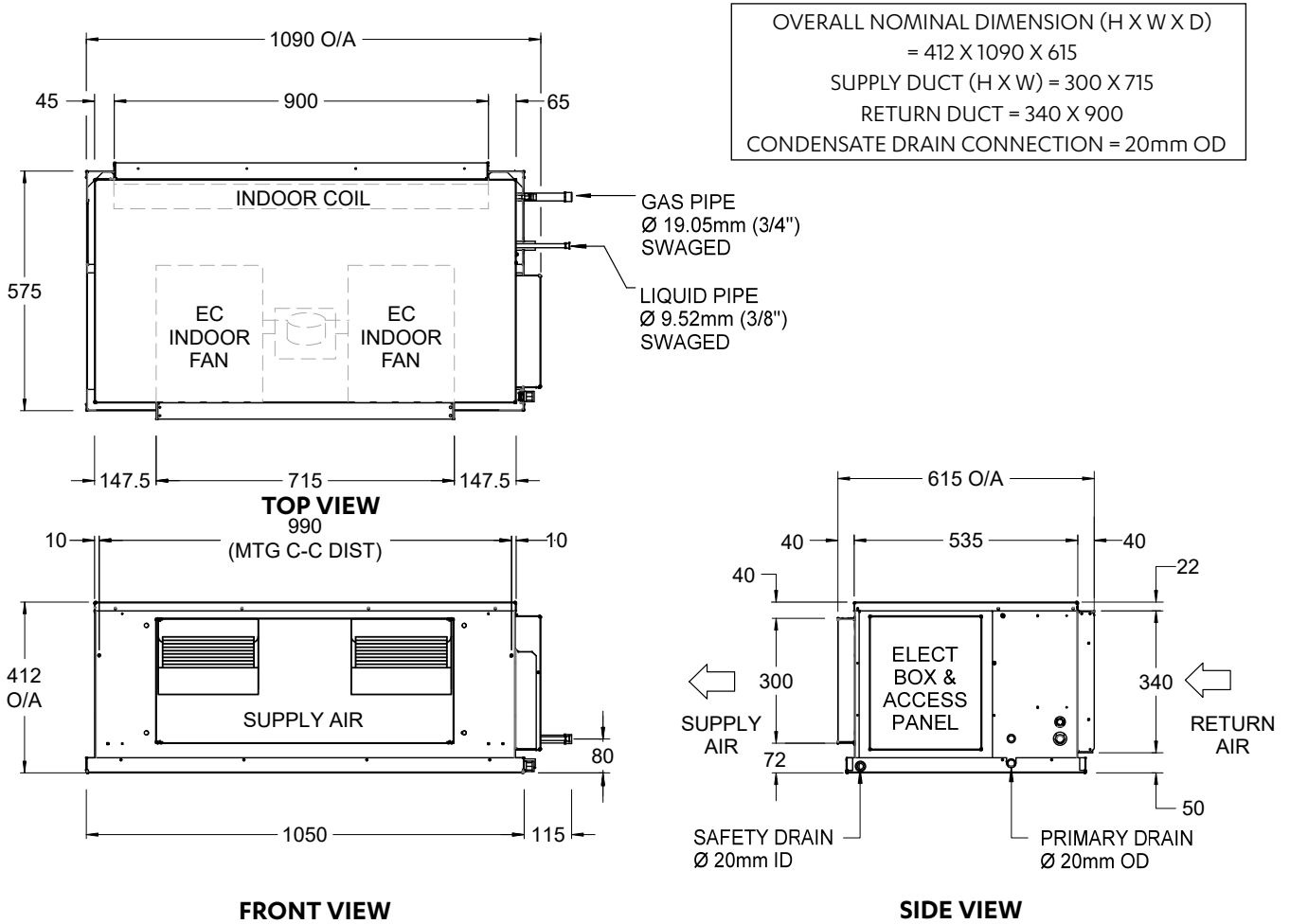
NOTES:

1. Do not scale drawing. All dimensions are in mm unless specified. Refer to corresponding unit dimensional drawing for mounting hole details.
2. Service Access Areas and Spaces for Airflow Clearances given above 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.
3. 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.
4. Under all circumstances, condenser air must not recirculate back onto condenser coil. Keep all clearance free of any obstructions.
5. STACKING OF UNITS: Ensure that minimum airflow and clearances are met.
6. Refer to pipe Connection Details on Specifications Sheet.
7. MTG C-C DIST = Mounting Centre to Centre Distance.
8. Use M12 bolt for feet mounting.



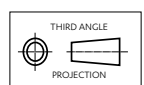
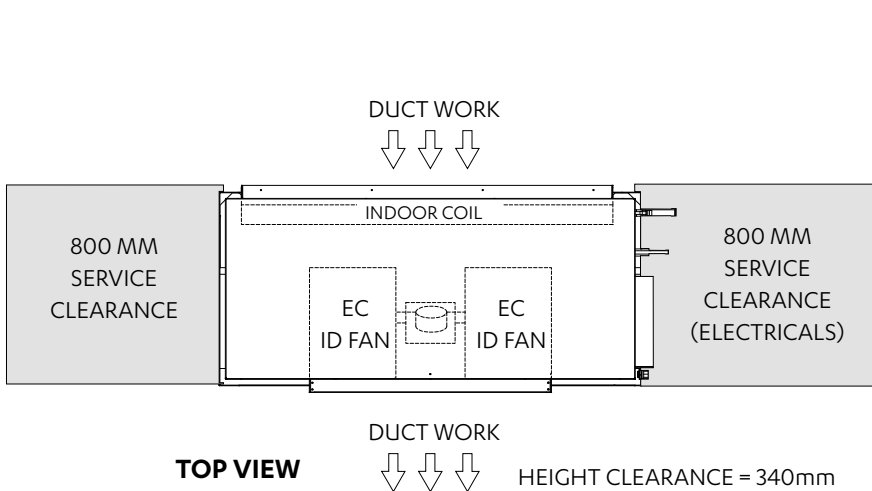
Indoor Unit Dimensions and Clearances

12.75 kW
1 Phase 1 Stage



UNIT MODEL NUMBER	UNIT WEIGHT (kg)
EVA130S	49

Minimum Service Access Areas and Airflow Clearances

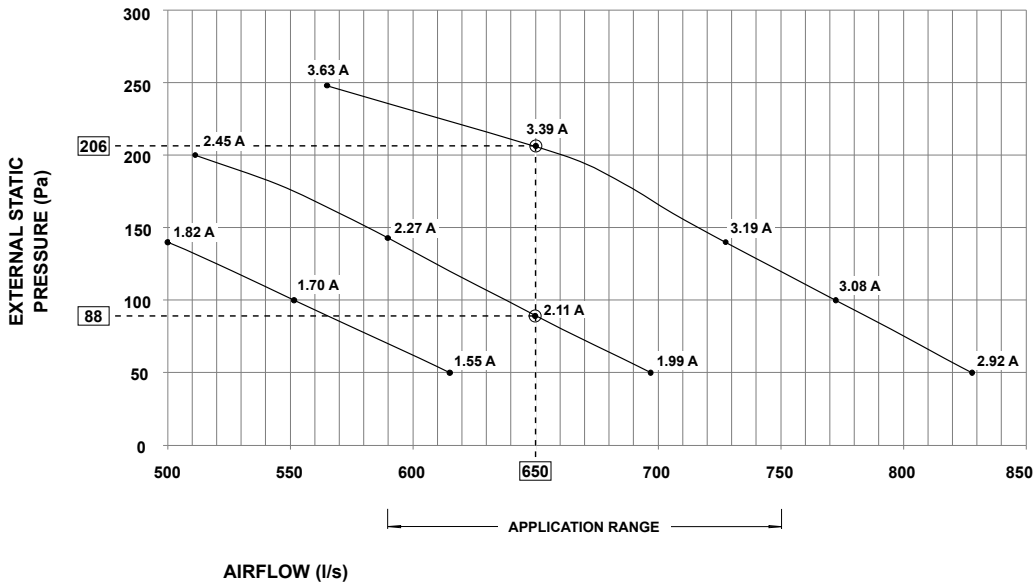


NOTES:

1. Do not scale drawing. All dimensions are in mm unless specified.
2. Service 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.
3. Minimum service access clearances are responsibilities of the installer, ActronAir will not be held liable for any extra charges incurred due to lack of access.



Indoor Unit Fan Curve*



* Performance Fan Curve shown is at Dry Coil Condition for FD 9x7AM - 1/2Hp EC Fan.

1 Phase
1 Stage
12.75 KW

Indoor Unit - With 3rd Party Control

AIRFLOW (l/s)	EXTERNAL STATIC PRESSURE (Pa)													
	50		75		100		125		150		175		200	
	% PWM	W	% PWM	W	% PWM	W	% PWM	W	% PWM	W	% PWM	W	% PWM	W
520	MOTOR / BLOWER LIMIT				50	233	53	265	56	299	61	337		
525	MOTOR / BLOWER LIMIT				51	231	54	267	57	302	62	344		
550	MOTOR / BLOWER LIMIT				50	222	53	254	57	288	61	324	64	358
575	MOTOR / BLOWER LIMIT				53	239	56	272	60	306	63	342	68	380
600			52	225	56	258	59	294	63	330	67	365	71	404
625	51	207	55	242	59	278	62	314	66	351	70	388	74	421
650	54	227	58	262	62	300	66	335	70	375	74	423	79	454
675	57	244	61	282	65	321	69	360	73	400	78	442	83	491
700	60	267	65	305	69	343	73	385	77	428	82	472	87	522
725	64	290	68	328	72	370	77	415	81	454	86	500	92	563
750	68	316	72	354	76	398	81	443	85	488	90	534	MOTOR / BLOWER LIMIT	
775	71	337	75	382	81	429	85	476	90	525	94	572		
780	72	346	77	390	82	438	86	483	91	532	95	576		

NOTES:

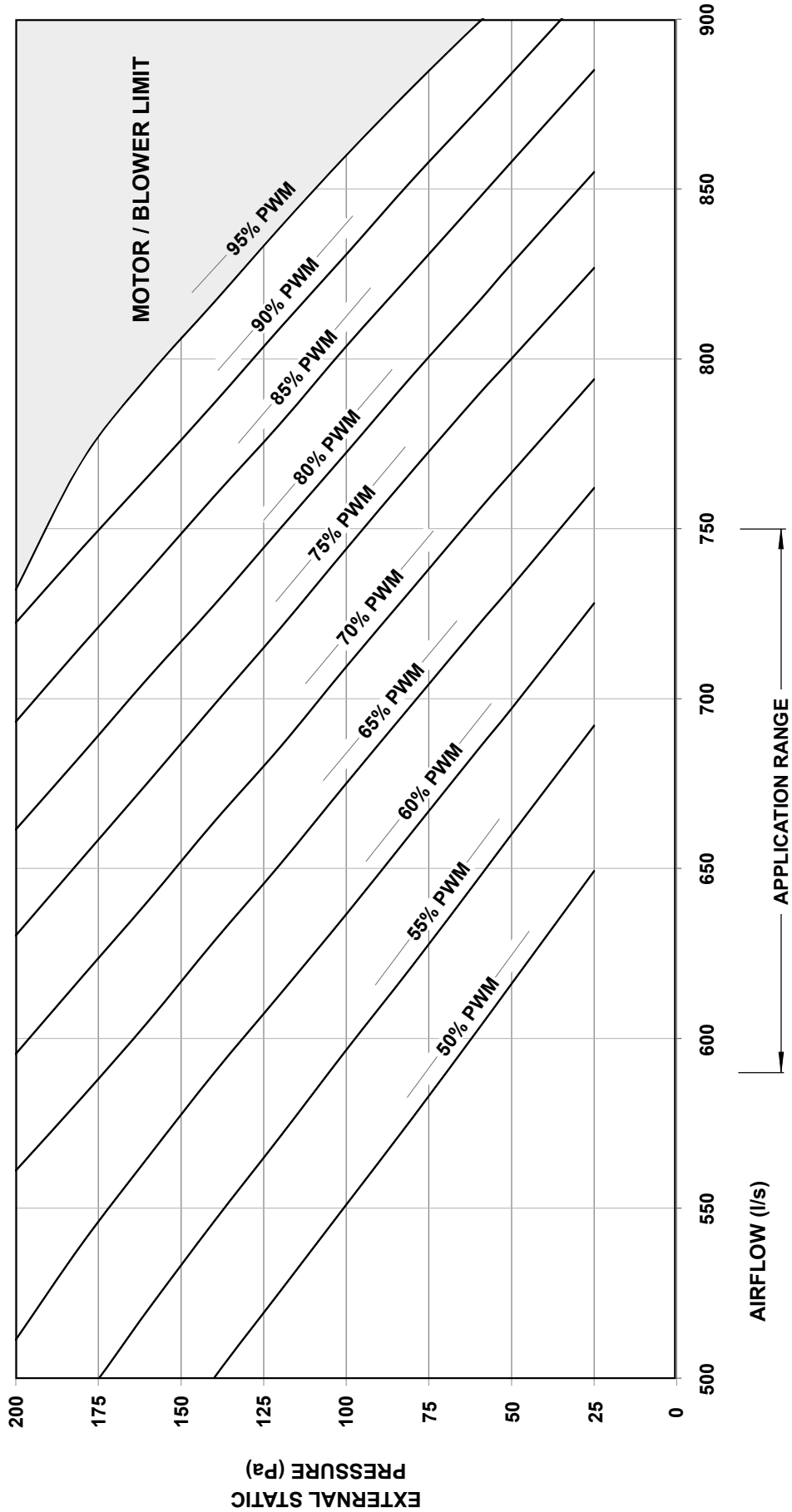
W = Indoor Fan Power, Watts

PWM = Pulse Width Modulation Setting, % PWM

Default PWM Setting = 60% PWM (Medium Speed) at 100 Pa



12.75 kW
1 Phase 1 Stage



Outdoor Radiated

Sound Power Level (SWL)

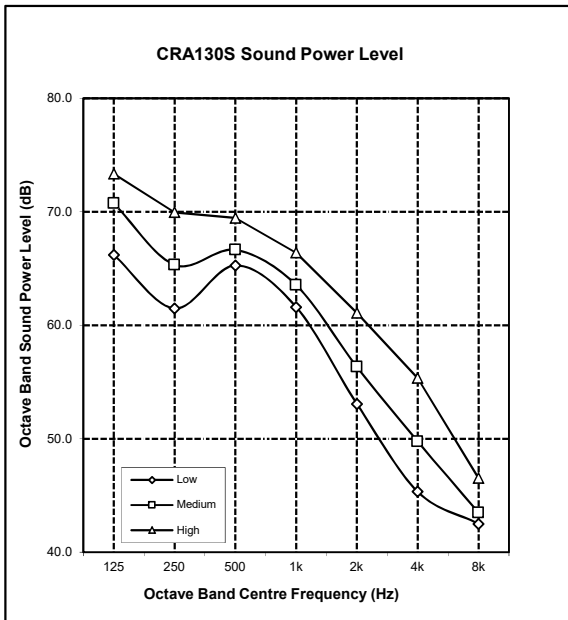
Fan Speed	Sound Power Level dB(A)	Octave Band Centre Frequency (Hz), dB						
		125	250	500	1k	2k	4k	8k
Low	66.3	66.2	61.5	65.3	61.6	53.1	45.3	42.5
Medium	68.4	70.7	65.3	66.6	63.5	56.3	49.8	43.5
High	71.5	73.3	69.9	69.5	66.4	61.1	55.3	46.5

Indoor Outlet

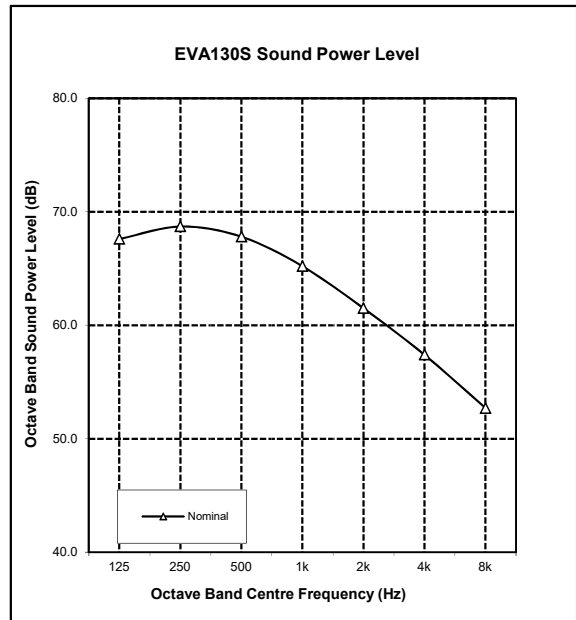
Sound Power Level (SWL)

Airflow Setting	Airflow l/s	Sound Power Level dB(A)	Octave Band Centre Frequency (Hz), dB						
			125	250	500	1k	2k	4k	8k
Nominal	650	70.0	67.6	68.7	67.8	65.2	61.5	57.4	52.7

OUTDOOR RADIATED



INDOOR OUTLET



NOTES:

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

SPECIFICATIONS

CRA130S / EVA130S

12.75 kW
1 Phase 1 Stage

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

INSULATION (Indoor Unit)	
TYPE	Foil Faced Polyethylene Expanded Polystyrene

ELECTRICAL	
OUTDOOR UNIT	
Power Supply - 50 Hz	230 Volts x 1 Phase + N
Voltage Range (min - max)	216 V - 253 V
Full Load Amps*	23.1
Rated Load Amps**	13.9
Approximate Starting Amps	< 45.0
IP Rating	IP44

INDOOR UNIT	
Power Supply - 50 Hz	230 Volts x 1 Phase + N
Voltage Range (min - max)	216 V - 253 V
Full Load Amps*	4.3
Rated Load Amps**	3.8
IP Rating	IP20

OUTDOOR & INDOOR UNIT (TOTAL)	
Full Load Amps* - Phase 1	27.4
Rated Load Amps**	17.7

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 & CIRCUIT BREAKER SIZE	
Suggested minimum cable size should be used as a guide only, refer to AS/NZS 3000 "Australian/New Zealand Wiring Rules" for more details.	
Cable Size (main line)	6.0 mm ² (SUGGESTED MINIMUM)
Cable Size (indoor to outdoor wire)	1.0 mm ² (SUGGESTED MINIMUM)
Circuit Breaker (RCBO if applicable)	32.0 Amps

OUTDOOR COIL	
TUBE TYPE	Copper - Rifle Bore
FIN TYPE	Aluminium - Wave
FACE AREA (m sq)	1.1
FIN SPACING (per m)	709
COIL COATING	Hydrophilic Blue Fin Coil Coat Protection
ROWS	---

OUTDOOR FAN	
NUMBER OF FANS x TYPE	2 x Axial
NUMBER OF BLADES PER FAN	5
DIAMETER (mm)	450
OUTPUT kW (each)	0.145
MOTOR TYPE / DRIVE TYPE	6 Pole External Rotor / Direct
FAN SPEED CONTROL	3 Speed via Capacitor
The standard type outdoor fans fitted to this unit will accept up to 5 Pa of external static resistance.	

INDOOR COIL	
TUBE TYPE	Copper - Rifle Bore
FIN TYPE	Aluminium - Louvre
FACE ARE (m sq)	0.34
FIN SPACING (per m)	472
COIL COATING	Hydrophilic Blue Fin Coil Coat Protection
ROWS	---

INDOOR FAN	
NUMBER OF FANS x TYPE	1 x Twin Deck Centrifugal EC Fan
DIAMETER / WIDTH (mm)	240 x 180
OUTPUT (kW)	0.373
MOTOR TYPE / DRIVE TYPE	Variable Speed EC Motor / Direct

COMPRESSOR	
NUMBER PER UNIT x TYPE	1 x Scroll (Hermetic)
FULL LOAD AMPS	21.7
LOCKED ROTOR AMPS	128.0
STARTING METHOD	Soft Starter

REFRIGERATION SYSTEM	
REFRIGERANT TYPE	R-410A
EXPANSION CONTROL	Direct Expansion Orifice
FACTORY CHARGE (grams)	5450
PRE-CHARGE LENGTH (metres)	15
ADDITIONAL REF. CHARGE (gm/m)	50

FILTER DRIER	
CONNECTION SIZE & TYPE	9.52 mm (3/8") ODF Soldered Bi-Flow
FACTORY SUPPLIED / FITTED	No

INTERCONNECTING PIPE RUN	
MAX. PIPE LENGTH (metres)	60
MAX. VERTICAL LENGTH (metres)	20 (Included in Max. Pipe Length)
FIELD PIPE SIZES	
Liquid Pipe	9.52 mm (3/8")
Gas Pipe	19.05 mm (3/4")

PIPE CONNECTIONS		
Indoor	Liquid Pipe	9.52 mm (3/8") Swaged to fit 9.52 mm (3/8") field pipe
	Gas Pipe	19.05 mm (3/4") Swaged to fit 19.05 mm (3/4") field pipe
Outdoor	Liquid Pipe	9.52 mm (3/8") Swaged to fit 9.52 mm (3/8") field pipe
	Gas Pipe	19.05 mm (3/4") Swaged to fit 19.05 mm (3/4") 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 *	30 W during Compressor Off Cycle
* Crankcase Heater is to be disconnected for pipe lengths 8 m or less.	

ELECTRIC CONTROLS	
DEFROST METHOD	Reverse Cycle
DEFROST TYPE	Adaptive Demand Defrost
CONTROL CIRCUIT BREAKER	10.0 Amps
CONTROL FIELD WIRING	2 Core 14 / 0.20 Screened Cable
WALL CONTROLLER / SENSOR	Cat5e UTP (AWG 24) Data Cable
FIELD WIRING	

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
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	21°C DB / 16°C WB
	Min.	16°C DB	-10°C DB

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 14.1 (EMC)
- AS/NZS 60335.2.40 (Safety)



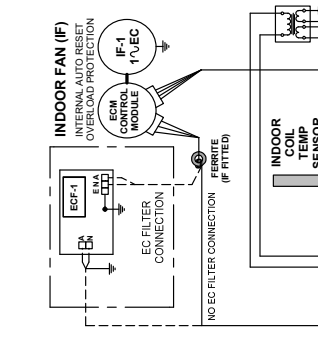
WIRING DIAGRAM

CRA130S / EVA130S

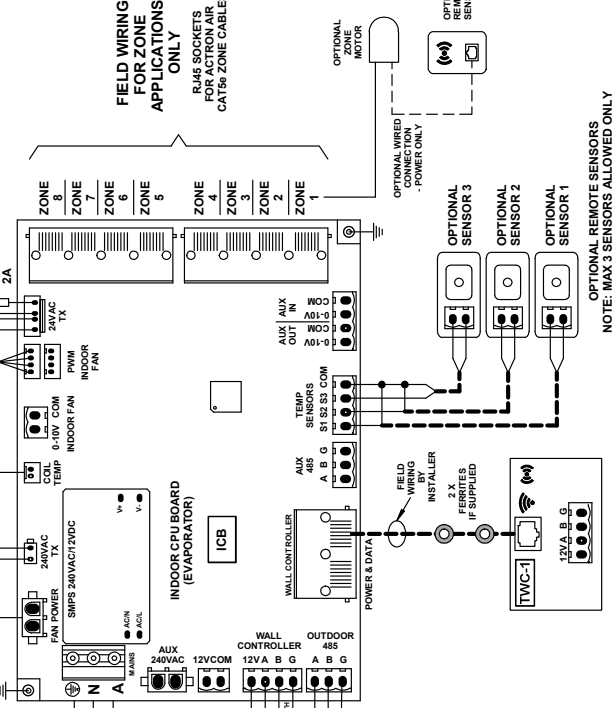
LEGEND

CB	CIRCUIT BREAKER
CM	COMPRESSOR MOTOR
CCH	CRANKCASE HEATER
CRC	COMPRESSOR RUN CAPACITOR
CSC	COMPRESSOR START CAPACITOR
ECF	EMI FILTER
HP	HIGH PRESSURE SWITCH
HSC	HIGH SPEED CAPACITOR
IF	INDOOR FAN MOTOR
ICB	INDOOR CONTROL BOARD
LP	LOW PRESSURE SWITCH
LSC	LOW SPEED CAPACITOR
MSC	MEDIUM SPEED CAPACITOR
OF	OUTDOOR FAN MOTOR
OCB	OUTDOOR CONTROL BOARD
OFRC	OUTDOOR FAN RUN CAPACITOR
RV	REVERSING VALVE
SS	1/2 SOFT STARTER
TX	ZONE TRANSFORMER 240/24V AC
TWC	TOUCH WALL CONTROLLER
WVC	WALL CONTROLLER

EVAPORATOR WIRING



FIELD WIRING FOR ZONE APPLICATIONS ONLY



OPTIONAL WIRELESS ZONE MOTOR - POWER ONLY

OPTIONAL REMOTE MOTOR

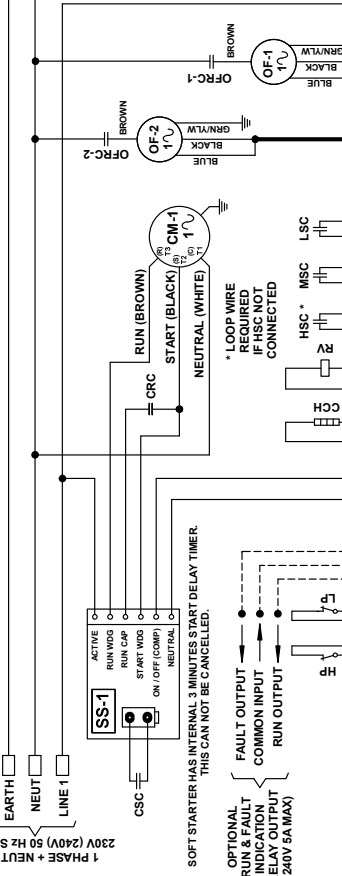
OPTIONAL WIRELESS ZONE SENSOR - POWER ONLY

OPTIONAL REMOTE SENSOR

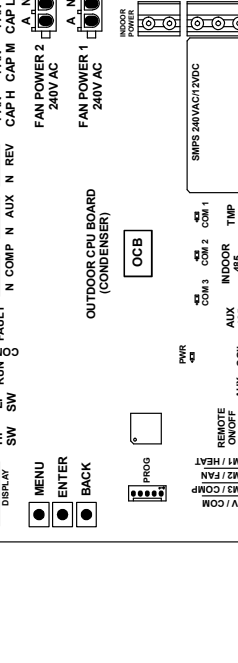
OPTIONAL SENSORS 1, 2, 3

NOTE: MAX 3 SENSORS ALLOWED FOR CONNECTION DETAILS

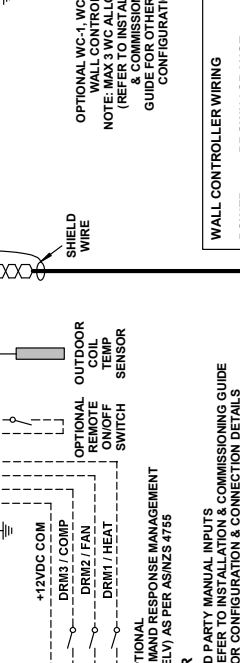
CONDENSER WIRING



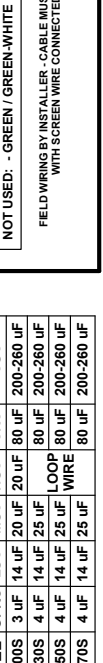
OUTDOOR CPU BOARD (CONDENSER)



WALL CONTROL



WALL CONTROLLER WIRING



FIELD WIRING BY INSTALLER - CABLE MUST BE 2 CORE/70.30 SHIELDED TWISTED PAIR DATA CABLE WITH SCREEN WIRE CONNECTED TO TERMINAL 'G' ON OUTDOOR & INDOOR UNIT



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Base Model No:	CRA100/130/150/170S	Variation Code:	STANDARD
Description:	UNO SERIES CONTROL SYSTEM WIRING DIAGRAM WITH INZONE SERIES INDOOR BOARD & WALL CONTROL		
Drawn:	RL	Date:	28-02-2019
Approved:	JL	Date:	30-01-2023
Drawing No:	WD2200	Revision:	E
Size:	A4		

1 Phase
1 Stage
12.75 kW

Rev.	E	Description	REMOVED ZONE CONTROLLER	By	RL	Date	30-01-2023
D							

ORIGINAL

CONDENSER CAPACITORS

MODEL	OFRC	LSC	MSC	HSC	CRC	CSC
CRA100S	3 uF	14 uF	20 uF	20 uF	80 uF	200-260 uF
CRA130S	4 uF	14 uF	25 uF	20 uF	80 uF	200-260 uF
CRA150S	4 uF	14 uF	25 uF	WIRE	80 uF	200-260 uF
CRA170S	4 uF	14 uF	25 uF	WIRE	80 uF	200-260 uF

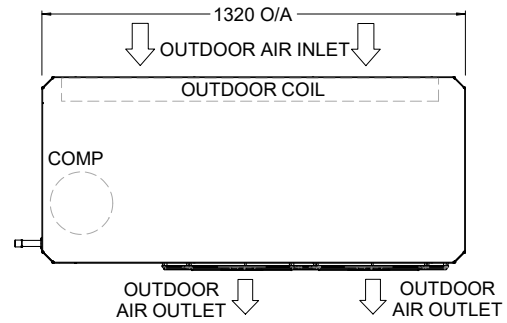
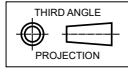
NOTE: CRA100S MSC & HSC ARE CONNECTED TO THE SAME CAPACITOR

H OUTDOOR UNIT - HORIZONTAL DISCHARGE FANS

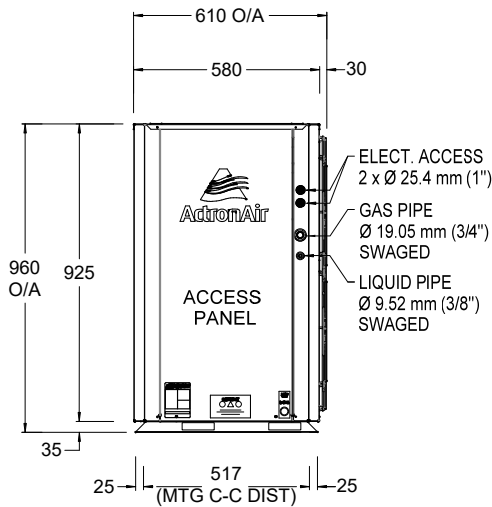
OVERALL NOMINAL DIMENSION (H x W x L)
= 960 x 1320 x 610
USE M12 BOLT FOR FEET MOUNTING

NOTES:

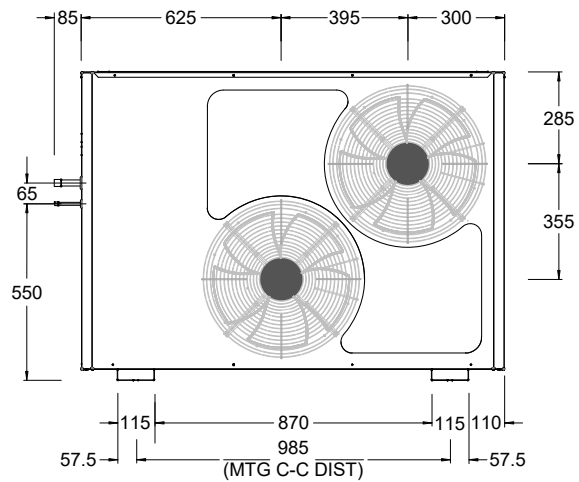
1. All dimensions are in mm unless specified.
2. Do not scale drawing.
3. Additional Full Coil Coat Protection option available on all units.
4. Suggested Service Clearance and Airflow Allowances are based on conditions that the spaces are free from obstructions and walkway passage of 1000 mm is available.
5. Minimum service access areas are responsibilities of the installer.
6. Maximum External Static of Outdoor Fans is 5 Pa.
7. Multiple drainage is as illustrated on the standard outdoor model.



TOP VIEW

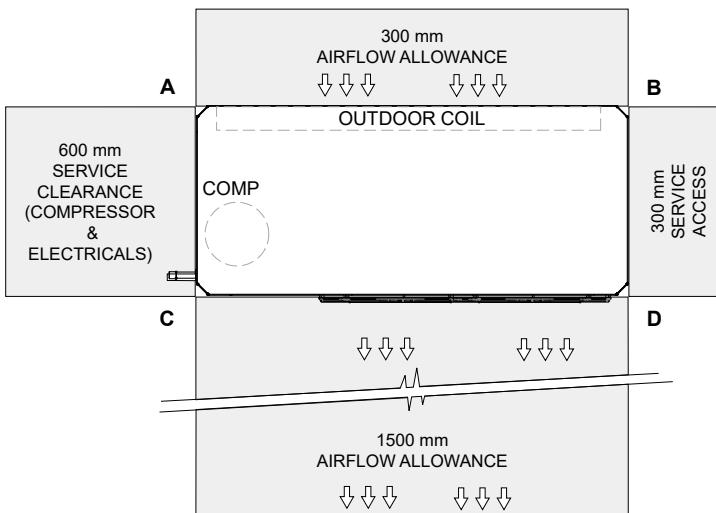


SIDE VIEW



FRONT VIEW

MINIMUM SERVICE ACCESS CLEARANCES & AIRFLOW SPACE ALLOWANCES



HEIGHT CLEARANCE = 600

TOP VIEW

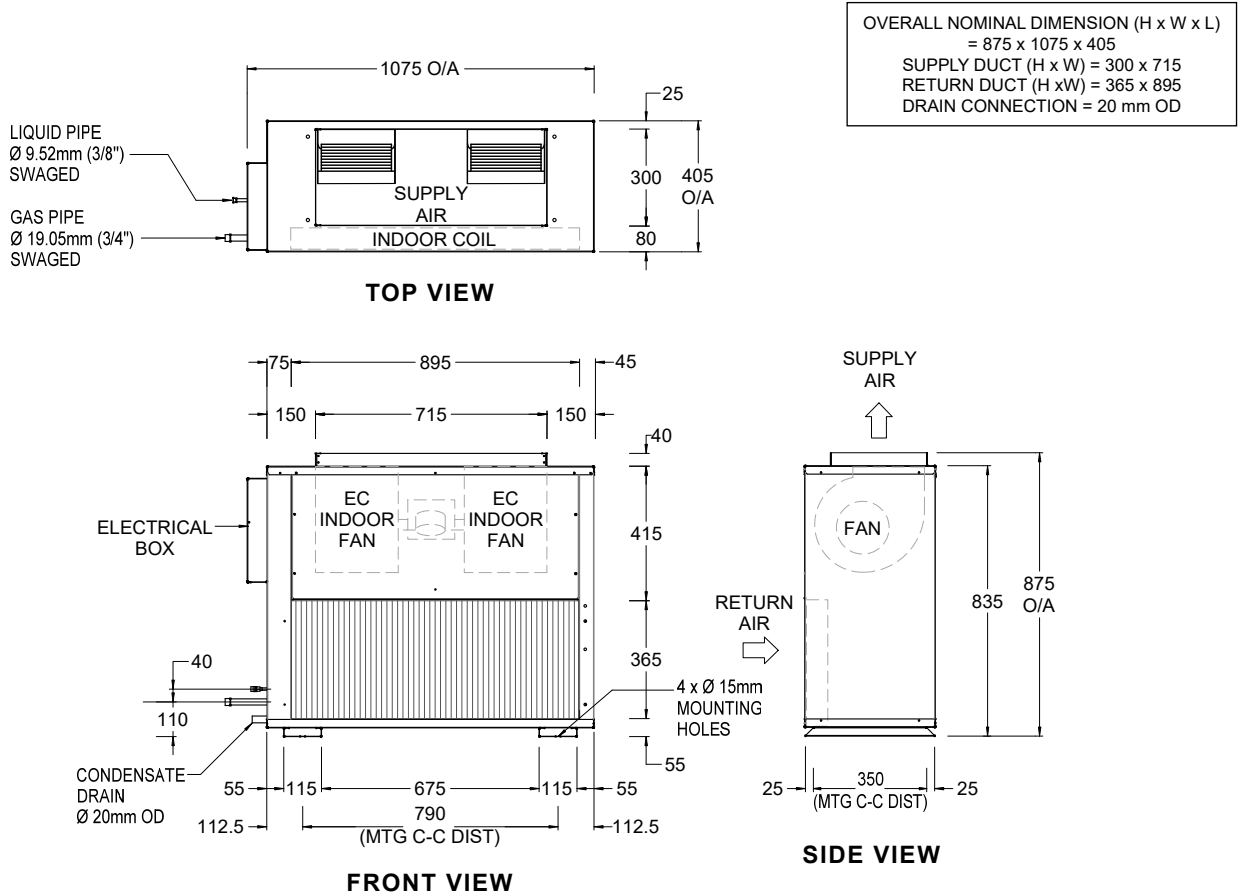
PLEASE NOTE THAT UNDER ALL CIRCUMSTANCES, CONDENSER AIR MUST NOT RECIRCULATE BACK ONTO CONDENSER COIL. KEEP ALL CLEARANCES FREE OF ANY OBSTRUCTIONS

STACKING OF UNITS	
ONE IN FRONT OF THE OTHER (DISTANCE BET. A & B)	SIDE BY SIDE (DISTANCE BET. A & C)
600 mm	1500 mm



12.75 kW
1 Phase 1 Stage

V INDOOR UNIT - UPRIGHT FAN COIL WITH VERTICAL DISCHARGE



1 Phase
1 Stage
12.75 KW

MINIMUM SERVICE ACCESS CLEARANCES & AIRFLOW SPACE ALLOWANCES

