

CASSETTE SERIES 2 SPLIT SYSTEM



Technical Selection Data

UNIT FEATURES

- Reverse Cycle 4-Way Cassette Split System
- Inverter Twin-Rotary Compressor
- Superior Operating Range:
 - Cooling: up to 50°C DB
 - Heating: down to -20°C DB
- Adjustable Airflow
- 360° Airflow Direction
- Independent Louvre Control
- Louvre Position Memory
- Powder Coated Panels - Outdoor Unit
- Hydrophilic Gold Coating Indoor & Outdoor coils
- Self-Diagnosis and Auto Protection
- Fire Proof Electrical Box - Indoor and Outdoor
- Drain Pump
- Hanging Brackets

UNIT OPTIONS

- Supply Duct Outlet
- Outside Air Intake
- RC-03 Remote Controller

CONTROL FEATURES

- WC-02 Wired Controller
- 7-Day Scheduler / Weekly Timer
- Digital Display
- Auto Restart After Power Failure
- Timer Operation
- Remote ON / OFF Input
- Manual ON / OFF Operation
- 5-Speed Indoor Fan
- 5-Speed Outdoor Fan
- Sleep Mode
- Turbo Mode
- Dry Mode Operation
- Demand Response Ready
- Auto Defrost Function
- Follow Me Function
- Fault Alarm Output Port

UNIT COMPLIANCE

- AS/NZS 3823.1.1 (MEPS)
- AS/NZS 4755.3.1:2014
- AS/NZS 60335.2.40
- AS/NZS 60335.1

SPECIFICATION SUMMARY

UNIT MODEL	CRC-100CS / CRE-100CS	URC-125CS / CRE-125CS	URC-140CS / CRE-140CS
	NETT		
⁽¹⁾⁽²⁾ COOLING CAPACITY (kW) NOMINAL	10.95	12.30	13.95
⁽¹⁾⁽³⁾ HEATING CAPACITY (kW) NOMINAL	11.95	13.50	14.50
⁽¹⁾⁽⁴⁾ COOLING INPUT POWER (kW)	2.58	3.25	4.08
⁽¹⁾⁽⁴⁾ HEATING INPUT POWER (kW)	2.84	3.46	3.79
⁽¹⁾⁽²⁾ EER	4.24	3.78	3.42
⁽¹⁾⁽³⁾ COP	4.21	3.90	3.83
⁽⁵⁾ OUTDOOR SOUND PRESS. LEVEL @ 1M dB(A)	59.9		
⁽⁶⁾ OUTDOOR SOUND POWER LEVEL dB(A)	71		
POWER SUPPLY	220 - 240V / 1Ph+N / 50 Hz		
INDOOR UNIT WIRING METHOD	Hard wire to Outdoor		
⁽⁷⁾ FULL LOAD AMPS	TOTAL	31.0	
⁽⁸⁾ RATED LOAD AMPS	Cooling	11.7	14.8
	Heating	12.2	15.0
IP RATING	Outdoor	IPX4	
	Indoor	IPX0	
⁽⁹⁾ CIRCUIT BREAKER (Amps)	32		
OD OPERATING RANGE (°C) (Ambient Temperature)	COOLING	0 to 50	
	HEATING	-20 to 24	
	DRY	0 to 50	
WEIGHT (kg) (Indoor / Outdoor)	35.3 /95.1		

⁽¹⁾ Measured and tested in accordance with AS/NZS 3823.1.4. Rated Load Amps shown above is based on MEPS representative outdoor and indoor unit combinations

⁽²⁾ At 27°C DB / 19°C WB entering air temperatures and 35°C ambient.

⁽³⁾ At 20°C DB entering air temperature and 7°C DB / 6°C WB ambient.

⁽⁴⁾ Input power includes indoor fan kW.

⁽⁵⁾ Outdoor sound pressure level is determined in an anechoic chamber and may differ once the unit is installed due to environment conditions.

⁽⁶⁾ Determination of Sound Power Levels of Noise Sources per AS1217.2.

⁽⁷⁾ Full Load Amps (FLA) shown above is based on maximum possible outdoor and indoor unit combinations. FLA are based on compressor and fan motors' maximum expected current. Final FLA will be based on installed combination. See wiring section of installation guide for more details.

⁽⁸⁾ Rated Load Amps shown above is based on MEPS representative outdoor and indoor unit combinations. Rated Load Amps are measured and tested in accordance with AS/NZS3823.1.1.

⁽⁹⁾ See Specifications sheet for cable size details.

Note: Use input power to estimate running cost.

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

CAPACITY SELECTION DATA

CRC-100CS/CRE-100CS

COOLING PERFORMANCE																	
OUTDOOR TEMPERATURE (DB)	WB°C	INDOOR CONDITIONS (°C - DB)															
		16.0				18.0				19.0				22.0			
		DB°C	24	25	27	29	24	25	27	29	24	25	27	29	24	25	27
0°C	Nett Capacity, kW	12.25	12.25	12.37	12.49	12.58	12.58	12.70	12.82	12.92	12.92	12.92	13.04	13.80	13.80	13.80	13.80
	Sensible Capacity, kW	8.82	9.56	11.38	12.49	7.92	8.68	10.29	12.18	7.24	7.75	9.17	10.95	5.38	5.79	6.76	8.00
	Power Input, kW	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72
5°C	Nett Capacity, kW	12.17	12.17	12.30	12.42	12.51	12.51	12.64	12.76	12.86	12.86	12.86	12.98	13.77	13.77	13.77	13.77
	Sensible Capacity, kW	9.01	9.74	11.56	12.42	8.13	8.89	10.49	12.51	7.33	7.97	9.39	11.17	5.51	5.92	7.02	8.26
	Power Input, kW	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74
10°C	Nett Capacity, kW	12.08	12.08	12.20	12.32	12.43	12.43	12.56	12.67	12.79	12.79	12.79	12.91	13.70	13.70	13.70	13.70
	Sensible Capacity, kW	9.18	10.02	11.84	12.32	8.33	9.07	10.80	12.67	7.54	8.18	9.72	11.49	5.62	6.17	7.26	8.50
	Power Input, kW	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78
18°C	Nett Capacity, kW	11.94	11.94	12.06	12.18	12.30	12.30	12.42	12.54	12.66	12.66	12.66	12.78	13.59	13.59	13.59	13.59
	Sensible Capacity, kW	9.43	10.15	12.06	12.18	8.48	9.22	10.93	12.54	7.72	8.36	9.88	11.75	5.71	6.25	7.34	8.70
	Power Input, kW	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.85	1.85	1.85	1.85	1.84	1.84	1.84	1.84
25°C	Nett Capacity, kW	11.19	11.32	11.43	11.55	11.52	11.52	11.64	11.76	11.88	11.88	11.88	12.00	12.78	12.78	12.78	12.78
	Sensible Capacity, kW	9.18	10.07	11.43	11.55	8.30	8.99	10.71	11.76	7.48	8.20	9.62	11.52	5.62	6.13	7.15	8.43
	Power Input, kW	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14
30°C	Nett Capacity, kW	10.68	10.80	10.92	11.04	11.01	11.01	11.13	11.25	11.34	11.34	11.34	11.46	12.21	12.21	12.21	12.21
	Sensible Capacity, kW	8.97	9.94	10.92	11.04	8.15	8.92	10.57	11.25	7.37	8.05	9.52	11.23	5.50	5.98	7.08	8.30
	Power Input, kW	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.36	2.36	2.36	2.36
35°C	Nett Capacity, kW	10.14	10.23	10.32	10.41	10.47	10.47	10.56	10.68	10.77	10.77	10.95	11.08	11.64	11.64	11.64	11.64
	Sensible Capacity, kW	8.82	9.62	10.32	10.41	8.06	8.69	10.35	10.68	7.22	7.86	9.42	11.08	5.47	5.94	6.98	8.15
	Power Input, kW	2.56	2.56	2.56	2.56	2.57	2.57	2.57	2.57	2.58	2.58	2.58	2.58	2.60	2.60	2.60	2.60
40°C	Nett Capacity, kW	10.76	10.87	10.97	11.06	11.12	11.12	11.22	11.35	11.46	11.46	11.62	11.73	12.39	12.39	12.39	12.39
	Sensible Capacity, kW	8.29	9.13	10.86	11.06	7.56	8.23	9.76	11.35	6.88	7.45	8.95	10.56	5.20	5.58	6.57	7.81
	Power Input, kW	3.92	3.92	3.92	3.92	3.94	3.94	3.94	3.94	3.95	3.95	3.95	3.95	3.97	3.97	3.97	3.97
46°C	Nett Capacity, kW	9.97	10.07	10.18	10.27	10.31	10.31	10.41	10.51	10.65	10.65	10.75	10.85	11.52	11.52	11.52	11.52
	Sensible Capacity, kW	8.87	9.67	10.18	10.27	8.04	8.77	10.41	10.51	7.35	7.99	9.46	10.85	5.53	5.99	7.03	8.30
	Power Input, kW	4.36	4.36	4.36	4.36	4.37	4.37	4.37	4.37	4.38	4.38	4.38	4.38	4.42	4.42	4.42	4.42

HEATING PERFORMANCE										
INDOOR CONDITIONS		OUTDOOR TEMPERATURE								
		24°CDB	12°CDB	7°CDB	4°CDB	0°CDB	-5°CDB	-7°CDB	-15°CDB	
		18°CWB	11°CWB	6°CWB	3°CWB	-1°CWB	-6°CWB	-8°CWB	-16°CWB	
15°C - DB	Nett Capacity, kW	11.54	13.80	12.55	12.30	12.17	12.05	11.92	10.42	
	Power Input, kW	2.88	3.44	3.13	3.44	4.37	5.31	5.62	5.50	
18°C - DB	Nett Capacity, kW	11.76	14.06	12.79	12.53	12.40	12.28	12.15	10.62	
	Power Input, kW	2.77	3.31	3.01	3.31	4.22	5.12	5.42	5.29	
20°C - DB	Nett Capacity, kW	10.99	13.15	11.95	11.71	11.59	11.47	11.35	9.92	
	Power Input, kW	2.61	3.13	2.84	3.13	3.98	4.83	5.11	5.00	
22°C - DB	Nett Capacity, kW	10.67	12.75	11.59	11.36	11.24	11.12	11.01	9.62	
	Power Input, kW	2.67	3.19	2.90	3.19	4.05	4.93	5.22	5.10	
27°C - DB	Nett Capacity, kW	9.56	11.43	10.40	10.19	10.09	9.98	9.88	8.63	
	Power Input, kW	2.67	3.19	2.90	3.19	4.05	4.93	5.22	5.10	

NOTES:

- No allowance has been made for the effect of indoor fan motor.
- Selection tables are based on nominal airflows.



CAPACITY SELECTION DATA

URC-125CS/CRE-125CS

COOLING PERFORMANCE		INDOOR CONDITIONS (°C - DB)															
OUTDOOR TEMPERATURE (DB)	WB°C	16.0				18.0				19.0				22.0			
	DB°C	24	25	27	29	24	25	27	29	24	25	27	29	24	25	27	29
	0°C	Nett Capacity, kW	13.75	13.89	14.04	14.19	14.11	14.11	14.25	14.40	14.48	14.48	14.62	14.77	15.48	15.48	15.48
	Sensible Capacity, kW	9.21	10.14	12.08	14.19	8.33	9.03	10.83	12.81	7.53	8.26	9.80	11.52	5.57	6.04	7.12	8.36
	Power Input, kW	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.16	2.16	2.16	2.16
5°C	Nett Capacity, kW	13.67	13.82	13.95	14.10	14.04	14.04	14.18	14.33	14.43	14.43	14.56	14.71	15.44	15.44	15.44	15.44
	Sensible Capacity, kW	9.43	10.36	12.28	14.10	8.57	9.27	11.06	13.18	7.79	8.37	10.05	11.92	5.71	6.18	7.41	8.65
	Power Input, kW	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.20	2.20	2.20	2.20	2.19	2.19	2.19	2.19
10°C	Nett Capacity, kW	13.56	13.70	13.84	13.98	13.94	13.94	14.09	14.23	14.34	14.34	14.47	14.62	15.37	15.37	15.37	15.37
	Sensible Capacity, kW	9.63	10.55	12.60	13.98	8.78	9.48	11.27	13.37	7.89	8.60	10.28	12.14	5.84	6.46	7.53	8.91
	Power Input, kW	2.27	2.27	2.27	2.27	2.26	2.26	2.26	2.26	2.25	2.25	2.25	2.25	2.24	2.24	2.24	2.24
18°C	Nett Capacity, kW	13.40	13.54	13.69	13.83	13.80	13.80	13.94	14.08	14.20	14.20	14.34	14.47	15.24	15.24	15.24	15.24
	Sensible Capacity, kW	9.78	10.83	12.87	13.83	8.97	9.66	11.57	13.66	8.09	8.80	10.47	12.45	6.10	6.55	7.77	9.15
	Power Input, kW	2.34	2.34	2.34	2.34	2.33	2.33	2.33	2.33	2.32	2.32	2.32	2.32	2.30	2.30	2.30	2.30
25°C	Nett Capacity, kW	12.56	12.66	12.78	12.92	12.95	13.09	13.23	13.37	13.34	13.34	13.49	13.63	14.34	14.34	14.34	14.34
	Sensible Capacity, kW	9.54	10.51	12.53	12.92	8.68	9.55	11.38	13.37	7.87	8.67	10.25	12.13	5.88	6.45	7.60	8.89
	Power Input, kW	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70
30°C	Nett Capacity, kW	11.99	12.10	12.21	12.33	12.36	12.47	12.59	12.69	12.72	12.72	12.86	13.01	13.72	13.72	13.72	13.72
	Sensible Capacity, kW	9.47	10.41	12.21	12.33	8.53	9.48	11.20	12.69	7.76	8.52	10.03	11.97	5.90	6.31	7.41	8.78
	Power Input, kW	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.96	2.96	2.96	2.96	2.97	2.97	2.97	2.97
35°C	Nett Capacity, kW	11.39	11.51	11.62	11.74	11.74	11.85	11.97	12.07	12.10	12.10	12.30	12.41	13.07	13.07	13.07	13.07
	Sensible Capacity, kW	9.23	10.13	11.62	11.74	8.45	9.24	11.01	12.07	7.63	8.35	9.96	11.79	5.75	6.27	7.32	8.62
	Power Input, kW	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.96	2.96	3.25	2.95	2.95	2.95	2.95	2.95
40°C	Nett Capacity, kW	13.66	13.81	13.95	14.09	14.08	14.22	14.37	14.50	14.52	14.52	14.73	14.88	15.70	15.70	15.70	15.76
	Sensible Capacity, kW	10.52	11.60	13.81	14.09	9.58	10.52	12.50	14.50	8.71	9.44	11.34	13.39	6.60	7.07	8.32	9.93
	Power Input, kW	3.59	3.59	3.59	3.59	3.60	3.60	3.60	3.60	3.60	3.60	3.61	3.60	3.63	3.63	3.63	3.63
46°C	Nett Capacity, kW	12.66	12.80	12.95	13.10	13.06	13.21	13.34	13.49	13.49	13.49	13.63	13.78	14.60	14.60	14.60	14.75
	Sensible Capacity, kW	11.27	12.29	12.95	13.10	10.18	11.22	13.34	13.49	9.31	10.12	11.99	13.78	7.01	7.59	8.91	10.62
	Power Input, kW	4.00	4.00	4.00	4.00	4.01	4.01	4.01	4.01	4.01	4.01	4.01	4.01	4.05	4.05	4.05	4.05

HEATING PERFORMANCE		OUTDOOR TEMPERATURE									
INDOOR CONDITIONS		24°C D	12°C D	7°C D	4°C D	0°C D	-5°C D	-7°C D	-15°C D		
		18°C W	11°C W	6°C W	3°C W	-1°C W	-6°C W	-8°C W	-16°C W		
15°C - DB	Nett Capacity, kW	13.04	15.59	14.18	13.89	13.47	12.76	12.47	11.34		
	Power Input, kW	3.50	4.19	3.81	3.96	4.19	4.61	5.10	6.28		
18°C - DB	Nett Capacity, kW	13.29	15.89	14.45	14.16	13.72	13.00	12.71	11.56		
	Power Input, kW	3.37	4.04	3.66	3.81	4.04	4.43	4.91	6.05		
20°C - DB	Nett Capacity, kW	12.42	14.85	13.50	13.23	12.83	12.15	11.88	10.80		
	Power Input, kW	3.19	3.81	3.46	3.60	3.81	4.19	4.64	5.71		
22°C - DB	Nett Capacity, kW	12.05	14.40	13.10	12.83	12.44	11.79	11.52	10.48		
	Power Input, kW	3.25	3.88	3.53	3.67	3.88	4.27	4.73	5.82		
27°C - DB	Nett Capacity, kW	10.81	12.92	11.75	11.51	11.16	10.57	10.34	9.40		
	Power Input, kW	3.25	3.88	3.53	3.67	3.88	4.27	4.73	5.82		

NOTES:
 1. No allowance has been made for the effect of indoor fan motor.
 2. Selection tables are based on nominal airflows.



CAPACITY SELECTION DATA

URC-140CS/CRE-140CS

COOLING PERFORMANCE		INDOOR CONDITIONS (°C - DB)																																																	
OUTDOOR TEMPERATURE (DB)	WB°C	16.0				18.0				19.0				22.0																																					
	DB°C	24	25	27	29	24	25	27	29	24	25	27	29	24	25	27	29																																		
	0°C	Nett Capacity, kW	15.60	15.75	15.90	16.04	16.02	16.02	16.16	16.34	16.42	16.42	16.42	16.60	17.57	17.57	17.57	17.57	Sensible Capacity, kW	9.99	10.87	13.04	15.40	8.97	9.77	11.64	13.89	8.21	8.87	10.35	12.45	5.97	6.50	7.73	9.13	Power Input, kW	2.72	2.72	2.72	2.72	2.72	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.72	2.72	2.72
5°C	Nett Capacity, kW	15.51	15.65	15.80	15.95	15.94	15.94	16.09	16.26	16.36	16.36	16.36	16.53	17.53	17.53	17.53	17.53	Sensible Capacity, kW	10.24	11.27	13.27	15.79	9.25	10.04	11.91	14.15	8.34	9.16	10.63	12.73	6.31	6.84	7.89	9.29	Power Input, kW	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.75	2.75	2.75	2.75
10°C	Nett Capacity, kW	15.38	15.52	15.67	15.82	15.83	15.83	15.98	16.15	16.26	16.26	16.26	16.43	17.45	17.45	17.45	17.45	Sensible Capacity, kW	10.46	11.49	13.64	15.82	9.50	10.29	12.15	14.54	8.62	9.27	10.90	12.98	6.46	6.98	8.20	9.60	Power Input, kW	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.83	2.83	2.83	2.83	2.81	2.81	2.81	2.81
18°C	Nett Capacity, kW	15.21	15.35	15.49	15.64	15.66	15.66	15.81	15.98	16.10	16.10	16.10	16.27	17.30	17.30	17.30	17.30	Sensible Capacity, kW	10.64	11.67	13.95	15.64	9.71	10.49	12.49	14.86	8.70	9.50	11.11	13.34	6.57	7.09	8.30	9.86	Power Input, kW	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.92	2.92	2.92	2.92	2.89	2.89	2.89	2.89
25°C	Nett Capacity, kW	14.27	14.41	14.55	14.70	14.70	14.70	14.84	14.98	15.13	15.13	15.27	15.41	16.27	16.27	16.27	16.27	Sensible Capacity, kW	10.42	11.38	13.53	14.70	9.41	10.29	12.17	14.53	8.62	9.38	10.99	13.10	6.35	7.00	8.14	9.60	Power Input, kW	3.39	3.39	3.39	3.39	3.39	3.39	3.39	3.39	3.39	3.39	3.39	3.39	3.39	3.39	3.39	3.39
30°C	Nett Capacity, kW	13.58	13.72	13.86	14.01	14.01	14.01	14.15	14.29	14.44	14.44	14.58	14.73	15.55	15.55	15.55	15.55	Sensible Capacity, kW	10.19	11.25	13.31	14.01	9.25	10.09	12.03	14.29	8.37	9.10	10.93	12.96	6.38	6.84	8.09	9.49	Power Input, kW	3.70	3.70	3.70	3.70	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.73	3.73	3.73	3.73
35°C	Nett Capacity, kW	12.92	13.06	13.20	13.35	13.32	13.46	13.61	13.75	13.75	13.75	13.95	14.09	14.81	14.81	14.81	14.81	Sensible Capacity, kW	9.95	10.97	13.07	13.35	9.06	9.96	11.84	13.75	8.25	8.94	10.74	12.68	6.22	6.66	7.85	9.33	Power Input, kW	4.06	4.06	4.06	4.06	4.07	4.07	4.07	4.07	4.07	4.07	4.08	4.07	4.10	4.10	4.10	4.10
40°C	Nett Capacity, kW	14.35	14.51	14.66	14.81	14.81	14.96	15.12	15.27	15.29	15.29	15.47	15.62	16.50	16.50	16.50	16.50	Sensible Capacity, kW	11.05	12.19	14.51	14.81	10.07	11.07	13.15	15.27	9.17	9.94	11.92	14.06	6.93	7.43	8.75	10.40	Power Input, kW	3.38	3.38	3.38	3.38	3.39	3.39	3.39	3.39	3.39	3.39	3.40	3.39	3.42	3.42	3.42	3.42
46°C	Nett Capacity, kW	13.30	13.43	13.57	13.70	13.74	13.87	14.01	14.15	14.18	14.18	14.31	14.45	15.35	15.35	15.35	15.35	Sensible Capacity, kW	11.84	12.89	13.57	13.70	10.72	11.79	14.01	14.15	9.78	10.63	12.59	14.45	7.37	7.98	9.37	11.06	Power Input, kW	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.78	3.78	3.78	3.78	3.81	3.81	3.81	3.81



HEATING PERFORMANCE		OUTDOOR TEMPERATURE																
INDOOR CONDITIONS		24°CDB	12°CDB	7°CDB	4°CDB	0°CDB	-5°CDB	-7°CDB	-15°CDB									
		18°CWB	11°CWB	6°CWB	3°CWB	-1°CWB	-6°CWB	-8°CWB	-16°CWB									
15°C - DB	Nett Capacity, kW	14.01	16.75	15.23	14.77	14.01	13.70	12.18	10.51	Power Input, kW	3.84	4.59	4.17	4.21	4.37	4.59	5.00	5.71
18°C - DB	Nett Capacity, kW	14.27	17.07	15.52	15.05	14.27	13.96	12.41	10.71	Power Input, kW	3.69	4.42	4.01	4.05	4.22	4.42	4.82	5.50
20°C - DB	Nett Capacity, kW	13.34	15.95	14.50	14.07	13.34	13.05	11.60	10.01	Power Input, kW	3.49	4.17	3.79	3.83	3.98	4.17	4.55	5.19
22°C - DB	Nett Capacity, kW	12.94	15.47	14.07	13.64	12.94	12.66	11.25	9.70	Power Input, kW	3.56	4.25	3.87	3.91	4.06	4.25	4.64	5.30
27°C - DB	Nett Capacity, kW	11.61	13.88	12.62	12.24	11.61	11.35	10.09	8.70	Power Input, kW	3.56	4.25	3.87	3.91	4.06	4.25	4.64	5.30



NOTES:
 1. No allowance has been made for the effect of indoor fan motor.
 2. Selection tables are based on nominal airflows.



PIPE LENGTH CORRECTION MULTIPLIER

CASSETTE



CRC-100CS/CRE-100CS										
			COOLING	PIPE LENGTH (m)						
				5	15	25	35	50	65	75
	H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.885	0.845	0.805	0.778
			20	---	---	0.921	0.894	0.854	0.813	0.786
			10	---	0.958	0.931	0.903	0.862	0.822	0.794
			5	0.995	0.967	0.94	0.912	0.871	0.83	0.802
		0	1	0.972	0.945	0.917	0.876	0.834	0.806	
	Indoor Unit Lower Than Outdoor Unit	-5	1	0.972	0.945	0.917	0.876	0.834	0.806	
		-10	---	0.972	0.945	0.917	0.876	0.834	0.806	
		-20	---	---	0.945	0.917	0.876	0.834	0.806	
		-30	---	---	---	0.917	0.876	0.834	0.806	
		0	1	0.972	0.945	0.917	0.876	0.834	0.806	
	H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.962	0.943	0.924	0.911
			20	---	---	0.975	0.962	0.943	0.924	0.911
			10	---	0.987	0.975	0.962	0.943	0.924	0.911
			5	1	0.987	0.975	0.962	0.943	0.924	0.911
		0	1	0.987	0.975	0.962	0.943	0.924	0.911	
	Indoor Unit Lower Than Outdoor Unit	-5	0.992	0.979	0.967	0.954	0.935	0.917	0.904	
		-10	---	0.972	0.959	0.947	0.928	0.909	0.896	
		-20	---	---	0.951	0.939	0.921	0.902	0.889	
		-30	---	---	---	0.932	0.913	0.895	0.882	
		0	1	0.987	0.975	0.962	0.943	0.924	0.911	

URC-125CS/CRE-125CS										
			COOLING	PIPE LENGTH (m)						
				5	15	25	35	50	65	75
	H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.881	0.839	0.797	0.769
			20	---	---	0.919	0.89	0.848	0.806	0.777
			10	---	0.956	0.928	0.899	0.857	0.814	0.785
			5	0.995	0.966	0.937	0.908	0.865	0.822	0.793
		0	1	0.971	0.942	0.913	0.87	0.826	0.797	
	Indoor Unit Lower Than Outdoor Unit	-5	1	0.971	0.942	0.913	0.87	0.826	0.797	
		-10	---	0.971	0.942	0.913	0.87	0.826	0.797	
		-20	---	---	0.942	0.913	0.87	0.826	0.797	
		-30	---	---	---	0.913	0.87	0.826	0.797	
		0	1	0.971	0.942	0.913	0.87	0.826	0.797	
	H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.96	0.94	0.92	0.907
			20	---	---	0.973	0.96	0.94	0.92	0.907
			10	---	0.987	0.973	0.96	0.94	0.92	0.907
			5	1	0.987	0.973	0.96	0.94	0.92	0.907
		0	1	0.987	0.973	0.96	0.94	0.92	0.907	
	Indoor Unit Lower Than Outdoor Unit	-5	0.992	0.979	0.966	0.952	0.932	0.913	0.9	
		-10	---	0.971	0.958	0.945	0.925	0.905	0.893	
		-20	---	---	0.95	0.937	0.918	0.898	0.885	
		-30	---	---	---	0.93	0.91	0.891	0.878	
		0	1	0.987	0.973	0.96	0.94	0.92	0.907	



PIPE LENGTH CORRECTION MULTIPLIER

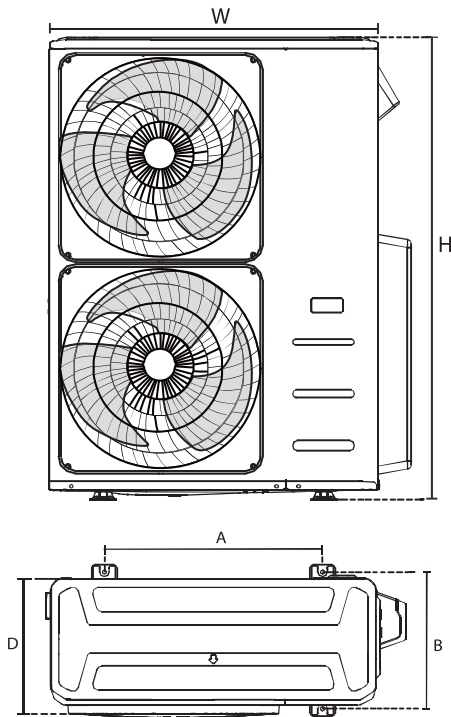
CASSETTE

URC-140CS/CRE-140CS			PIPE LENGTH (m)							
COOLING			5	15	25	35	50	65	75	
 H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.88	0.838	0.796	0.768	
		20	---	---	0.918	0.889	0.846	0.804	0.775	
		10	---	0.956	0.927	0.898	0.855	0.812	0.783	
		5	0.995	0.966	0.937	0.907	0.864	0.82	0.791	
	0		1	0.971	0.941	0.912	0.868	0.824	0.795	
	Indoor Unit Lower Than Outdoor Unit	-5	1	0.971	0.941	0.912	0.868	0.824	0.795	
		-10	---	0.971	0.941	0.912	0.868	0.824	0.795	
		-20	---	---	0.941	0.912	0.868	0.824	0.795	
-30		---	---	---	0.912	0.868	0.824	0.795		
HEATING			5	15	25	35	50	65	75	
 H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.956	0.933	0.911	0.896	
		20	---	---	0.97	0.956	0.933	0.911	0.896	
		10	---	0.985	0.97	0.956	0.933	0.911	0.896	
		5	1	0.985	0.97	0.956	0.933	0.911	0.896	
	0		1	0.985	0.97	0.956	0.933	0.911	0.896	
	Indoor Unit Lower Than Outdoor Unit	-5	0.992	0.977	0.963	0.948	0.926	0.904	0.889	
		-10	---	0.969	0.955	0.94	0.918	0.896	0.882	
		-20	---	---	0.947	0.933	0.911	0.889	0.875	
-30		---	---	---	0.925	0.904	0.882	0.868		



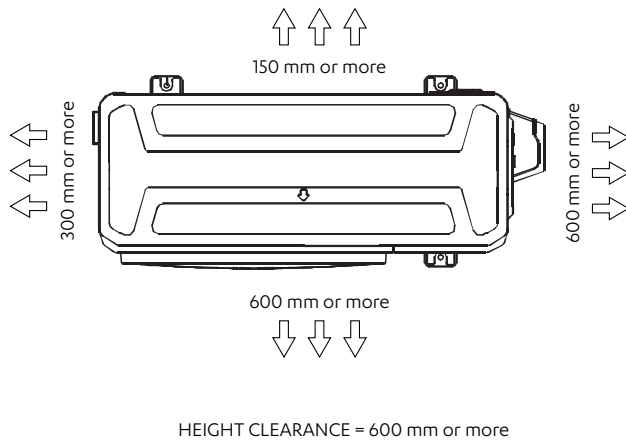
OUTDOOR UNITS : CRC-100CS URC-125CS URC-140CS

Split Type Outdoor Unit

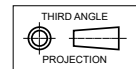


Model Number	Outdoor Unit Dimensions			Mounting Dimensions (Centre to Centre)	
	H	W	D	A	B
CRC-100CS	1333	952	415	634	404
URC-125CS					
URC-140CS					

SERVICE ACCESS AREAS / AIRFLOW ALLOWANCES



NOTES:

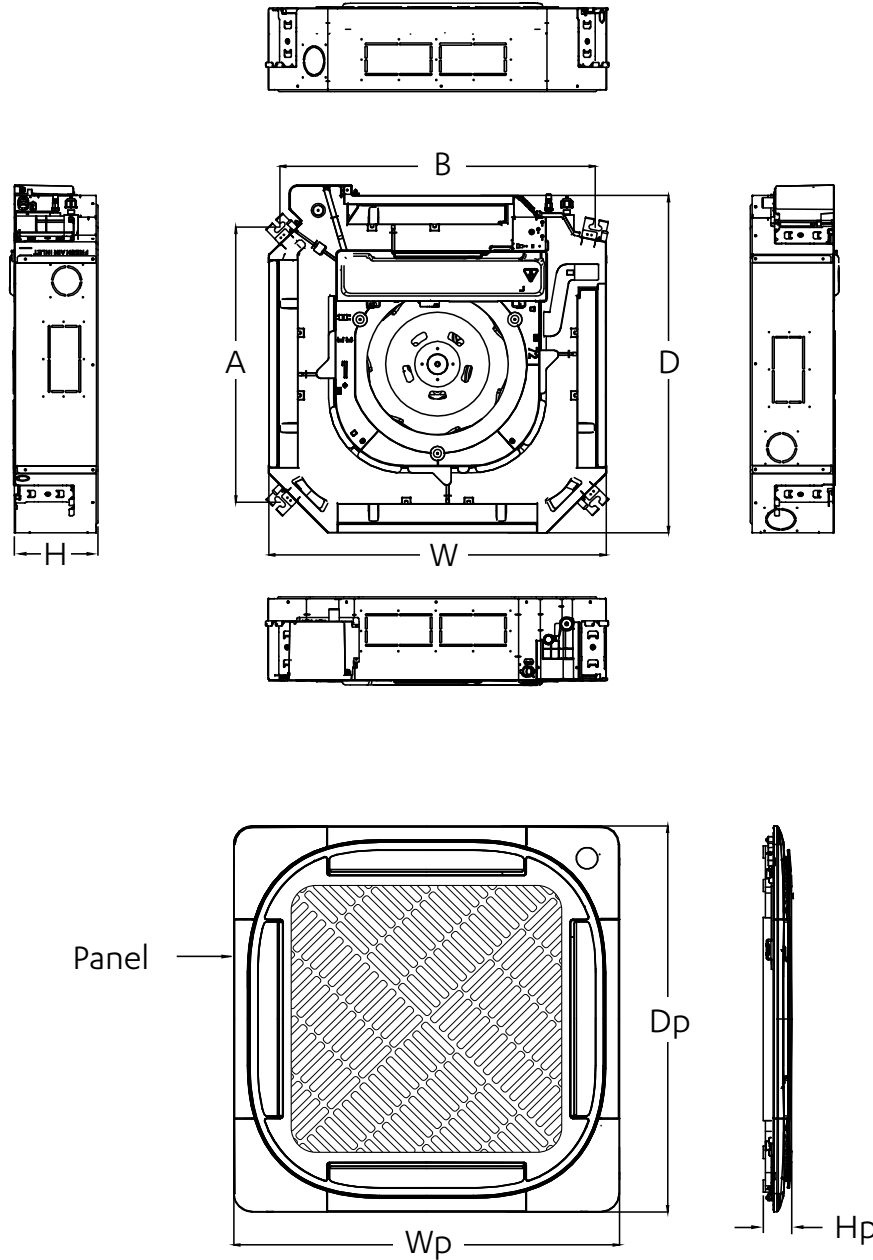


1. Do not scale drawing. All dimensions are in **mm** unless otherwise specified. Refer to corresponding unit dimensional drawing for mounting hole details.
2. Service Access Areas and Spaces for Airflow Clearances are suggested minimum based on the condition that the spaces around the units are free from any obstructions and a walkway passage of 1000 mm 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 obstruction.
5. Refer Pipe Connection Details on Specifications Sheet.
6. MTG C-C DIST = Mounting Centre to Centre Distance.
7. Use M12 bolt for feet mounting.
8. Installation of this unit should be in accordance with Electrical Safety Standard, AS/NZS 60335.2.40.
9. Additional safety provision maybe needed such as leak detector sensor and/or ventilation to meet the minimum area requirement. For more details refer to Annex GG and Annex HH of the above standard.
10. Refer to R-32 Safety Manual for minimum required area of installation.

UNIT AND MOUNTING DIMENSIONS

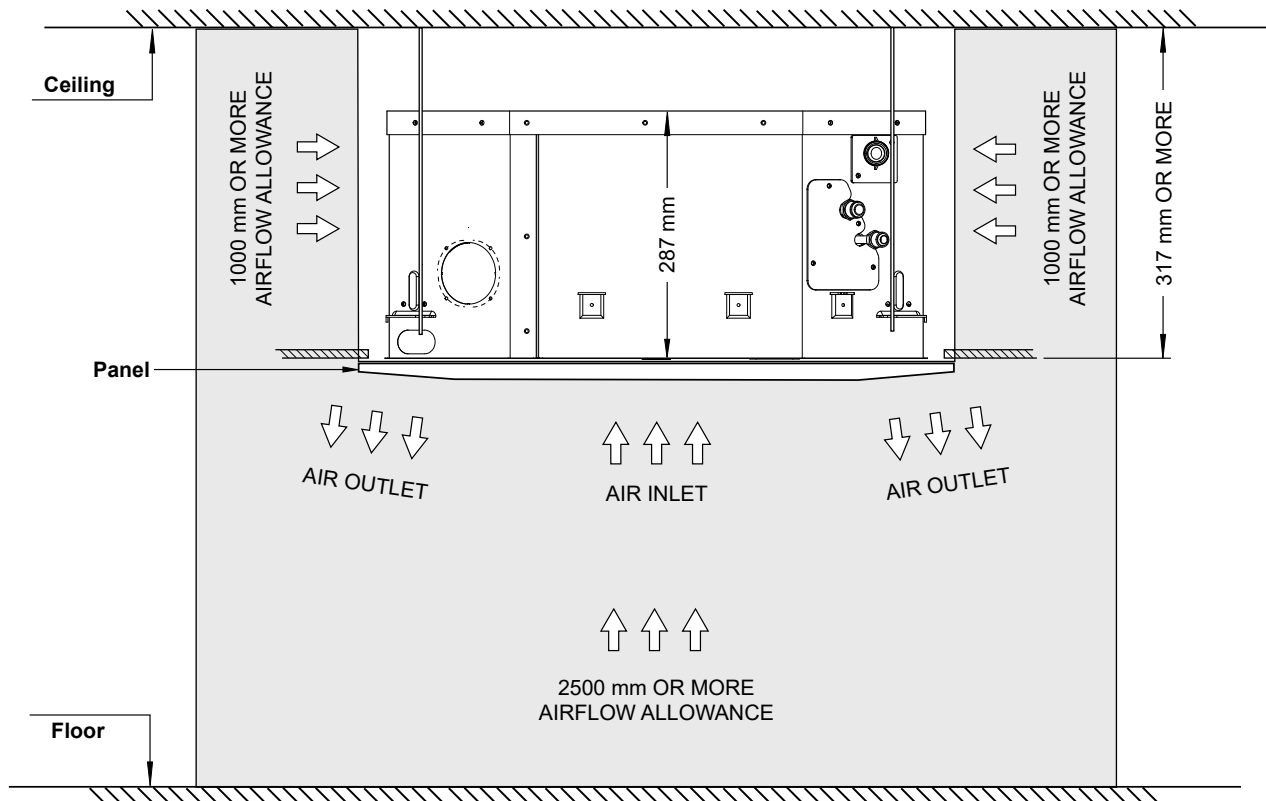
CASSETTE

INDOOR UNITS : CRE-100CS CRE-125CS CRE-140CS



Model Number	Unit Dimensions			Panel Dimensions			Mounting Dimensions (Centre to Centre)	
	H	W	D	Hp	Wp	Dp	A	B
CRE-100CS	287	830	830	55	950	950	670	770
CRE-125CS								
CRE-140CS								

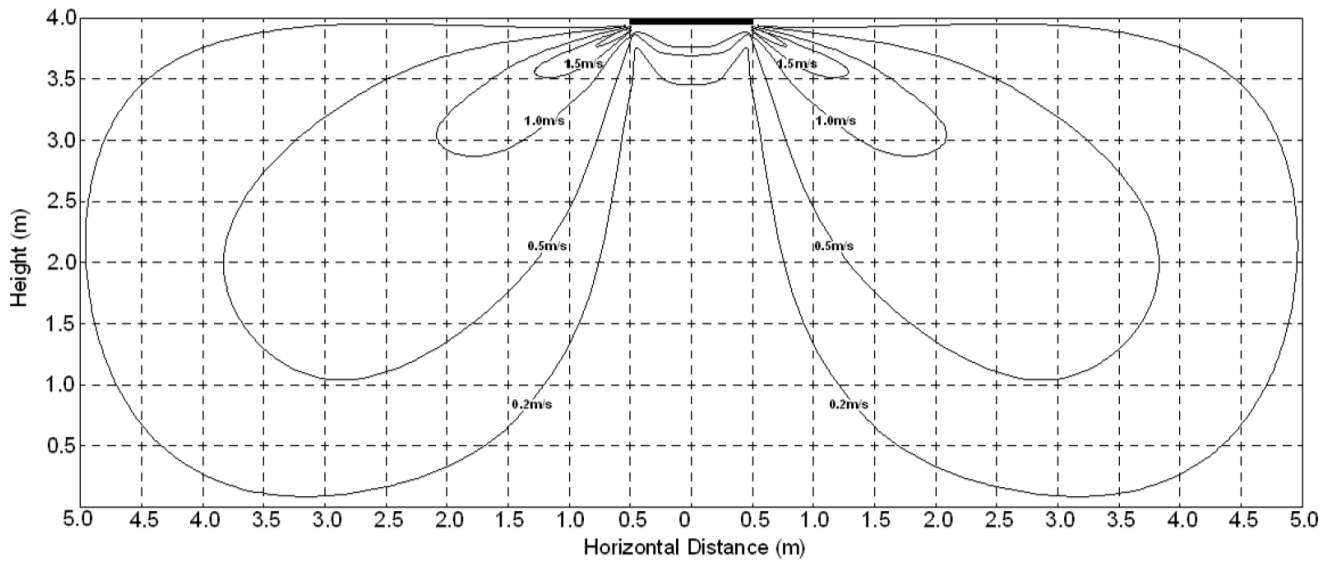
SERVICE ACCESS AREAS / AIRFLOW ALLOWANCES



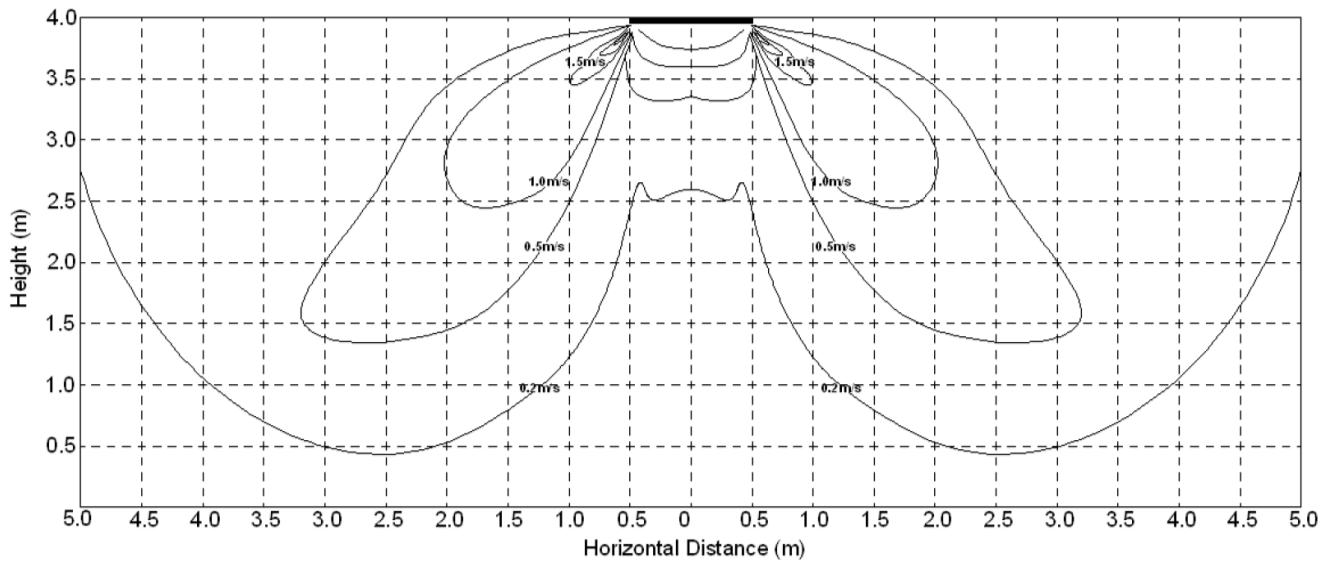
The service areas and airflow allowances mentioned are the minimum requirements to complete minor repairs. Additional space may be required should a major repair need to be undertaken.

OUTDOOR UNITS : CRC-100CS URC-125CS URC-140CS

AIR VELOCITY DISTRIBUTIONS



TEMPERATURE DISTRIBUTIONS



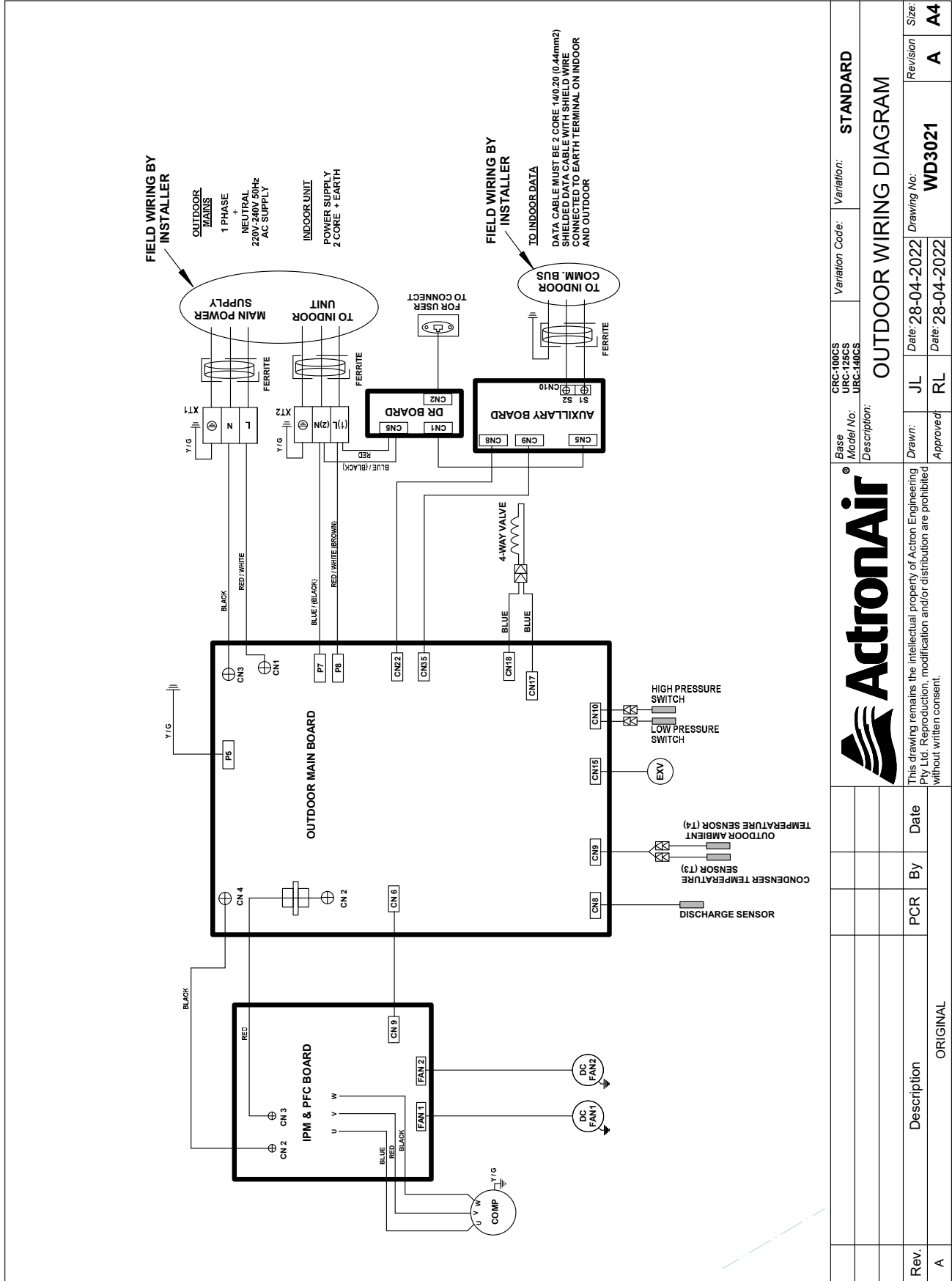
SPECIFICATIONS

MODEL NUMBERS	CRC-100CS	URC-125CS	URC-140CS
REFRIGERATION SYSTEM			
REFRIGERANT TYPE		R-32	
FACTORY CHARGE (grams)		3600	
PRE-CHARGE LENGTH (m)		5	
ADDITIONAL REFRIGERANT CHARGE (g/m)		24	
DESIGN PRESSURE - High / Low (Mpa)		4.3 / 1.7	
INTERCONNECTING PIPE			
MAX. LENGTH FOR ALL ROOMS (m)		75	
MAX. VERTICAL LENGTH (m) (Included in Max. Pipe Length)		30	
FIELD PIPE SIZES			
LIQUID PIPE - mm (inch)		Ø9.52 (3/8")	
GAS PIPE - mm (inch)		Ø15.88 (5/8")	
CONNECTION TYPE		Flare Nut	
CABLE SIZE AND CIRCUIT BREAKER SIZE			
Suggested minimum cable size should be used as a guide only, refer to the latest edition of the AS/NZS 3000 "Australian Wiring Rules" for more details. Cable size recommendation selected in accordance to maximum conductor temperature of 75°C with wiring enclosed in air. Wires, circuit breaker and fuses are NOT supplied with the units, installer has to provide.			
CABLE SIZE - Supply Mains (mm ²) (SUGGESTED MINIMUM)		6	
CABLE SIZE - Indoor to Outdoor Wire (mm ²)		1	
CIRCUIT BREAKER (Amps)		32	

SPECIFICATIONS

INDOOR MODEL NUMBERS		CRE-100CS	CRE-125CS	CRE-140CS
NOMINAL DIMENSIONS	Depth (mm)	830		
	Height (mm)	287		
	Width (mm)	830		
PANEL DIMENSIONS	Depth (mm)	950		
	Height (mm)	55		
	Width (mm)	950		
NOMINAL WEIGHT with Panel (kg)		35.3		
PIPE CONNECTIONS	Liquid Pipe -mm (inch)	Ø9.52 (3/8")		
	Gas Pipe - mm (inch)	Ø15.88 (5/8")		
INDOOR COIL				
TUBE TYPE		Copper Ø7mm, inner groove tube		
FIN TYPE		Hydrophilic Aluminum		
FACE AREA (m ²)		0.24		
FIN SPACING		1.3 mm		
INDOOR FAN				
NUMBER OF FANS x TYPE		1 x Centrifugal fan		
INPUT (W)		157		
FULL LOAD AMPS		2.0		
AIRFLOW (l/s) - Hi / Med / Lo		505 /459 / 350		
ELECTRICAL CONTROLS				
DEFROST METHOD		Reverse Cycle		
CONTROL FIELD WIRING - OUTDOOR TO INDOOR (Field Supply)		2 Core 14 / 0.20 (0.44mm ²) Shielded Data Cable		
WALL CONTROLLER CABLE (Included with Wall Controller)		4 Core (0.75mm ²) Shielded Data Cable		

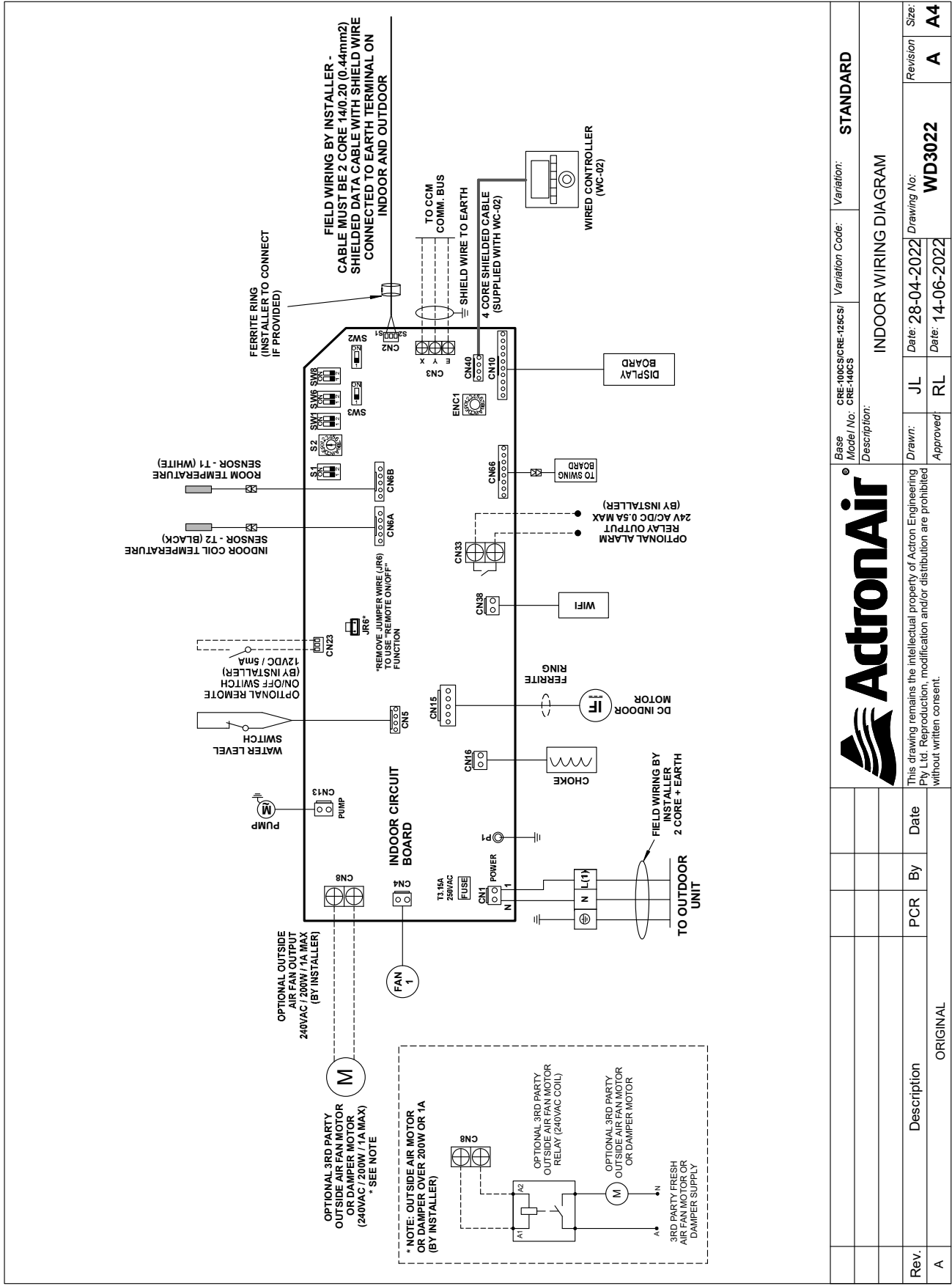
OPERATING RANGE			
It is essential that the unit is correctly sized for the application and operates within its recommended range of operating conditions as shown below.			
MODE	RANGE	INDOOR OPERATING TEMPERATURE	OUTDOOR AIR INTAKE TEMPERATURE
COOLING	Maximum	32°C DB	50°C DB
	Minimum	16°C DB	0°C DB
HEATING	Maximum	30°C DB	24°C DB
	Minimum	0°C DB	-20°C DB
DRY	Maximum	32°C DB	50°C DB
	Minimum	10°C DB	0°C DB



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Base Model No:	CRC-100CS	Variation Code:	STANDARD
Description:	URC-125CS URC-140CS		
Drawn:	JL	Date:	28-04-2022
Approved:	RL	Date:	28-04-2022
OUTDOOR WIRING DIAGRAM			
Rev. A	Description	PCR	By
	ORIGINAL		
Size:	A4	Revision:	A
	WD3021	Drawing No:	WD3021





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Base Model No:	CRE-100CS/CRE-125CS/CRE-140CS	Variation Code:	STANDARD
Description:	INDOOR WIRING DIAGRAM		
Drawn:	JL	Date:	28-04-2022
Approved:	RL	Date:	14-06-2022
Drawing No:	WD3022	Revision:	A
Size:	A4		

Rev.	Description	PCR	By	Date
A	ORIGINAL			



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