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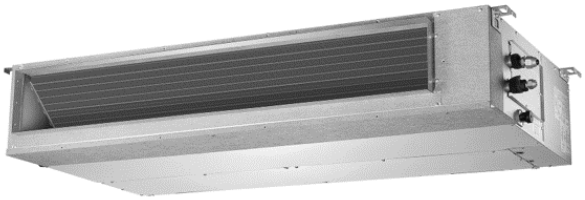
ULTRASLIM 2 SPLIT SYSTEM



Technical Selection Data

UNIT FEATURES

- Reverse Cycle Low Profile Split System
- Inverter Twin-Rotary Compressor
- Superior Operating Range:
  - Cooling: up to 50°C DB
  - Heating: down to -25°C DB
- Adjustable Airflow
- Fan Speed: Auto, Low, Medium and High
- External Static Pressure Settings
- Powder Coated Panels - Outdoor Unit
- Hydrophilic Gold Coating Indoor and Outdoor coils
- Self-Diagnosis and Auto Protection
- Fire Proof Electrical Box - Indoor and Outdoor
- Return Air Sensor Included in the Unit
- Drain Pump
- Hanging Brackets

UNIT OPTIONS

- "Splittable Indoor Unit" - applicable on 17kw system
- Left or Right Hand Drain Connection
- Bottom Return Air Connection
- Outside Air Intake

CONTROL FEATURES

- WC-02 Wired Controller
- 7-Day Scheduler / Weekly Timer
- Dehumidification
- Digital Display
- Auto Restart After Power Failure
- Timer ON/OFF Operation
- Remote ON / OFF Input
- Manual ON / OFF Operation
- 4-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 3823.2 (MEPS)
- AS/NZS 4755.3.1
- AS/NZS CISPR 14.1 (EMC)
- AS/NZS60335.2.40 in conjunction with AS/NZS60335.1 (Electrical Safety)

SPECIFICATION SUMMARY

UNIT MODEL		LRC-071CS / LRE-071CS	LRC-100CS / LRE-100CS	URC-125CS / LRE-125CS	URC-140CS / LRE-140CS	LRC-170CS / LRE-170CS
		NETT				
[1][2] COOLING CAPACITY (kW) NOMINAL		7.30	10.50	12.90	14.00	16.60
[1][3] HEATING CAPACITY (kW) NOMINAL		7.70	11.50	13.40	14.35	17.60
[1][4] COOLING INPUT POWER (kW)		2.06	3.09	3.63	4.11	4.93
[1][4] HEATING INPUT POWER (kW)		1.73	2.70	3.19	3.46	4.39
[1][2] EER		3.54	3.40	3.55	3.41	3.37
[1][3] COP		4.45	4.26	4.20	4.15	4.01
TOTAL COOLING SEASONAL PERFORMANCE FACTOR RESIDENTIAL - HOT / AVERAGE / COLD		6.25 / 5.36 / 5.49	7.30 / 5.96 / 6.29	5.57 / 5.25 / 5.37	5.93 / 5.38 / 5.66	6.22 / 5.29 / 5.60
HEATING SEASONAL PERFORMANCE FACTOR RESIDENTIAL - HOT / AVERAGE / COLD		5.12 / 4.63 / 4.16	5.20 / 4.52 / 3.91	5.06 / 4.50 / 4.14	4.93 / 4.36 / 3.89	5.08 / 4.29 / 3.63
[5] OUTDOOR SOUND PRESS. LEVEL @ 1M dB(A)		60	60	60	60	60.5
[6] OUTDOOR SOUND POWER LEVEL dB(A)		65	68	70	71	72
POWER SUPPLY		220 - 240V / 1Ph+N / 50 Hz				
INDOOR UNIT WIRING METHOD		Hard wire to Outdoor				
[7] FULL LOAD AMPS	TOTAL	16.0	21.0	31.0	31.0	31.0
[8] RATED LOAD AMPS	Cooling	9.1	13.9	16.2	18.1	22.5
	Heating	7.4	12.1	14.7	15.6	19.5
IP RATING	Outdoor	IP24		IP14		
	Indoor	IPX0				
[9] CIRCUIT BREAKER (Amps)		20.0	25.0	32.0		
OUTDOOR OPERATING RANGE (°C) (Ambient Temperature)	COOLING	-15 to 50				
	HEATING	-25 to 30				
	DRY	0 to 50				
WEIGHT (kg) (Indoor / Outdoor)		31.6 / 45.0	39.9 / 70.1	47.0 / 95.1	53.3 / 95.1	81.1 / 95.8

[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 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 — LRC-071CS/LRE-071CS

COOLING PERFORMANCE

OUTDOOR TEMPERATURE (DB)		INDOOR CONDITIONS (°C - 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	8.17	8.17	8.26	8.34	8.38	8.38	8.38	8.46	8.59	8.59	8.59	8.68	9.20	9.20	9.20	9.20
	Sensible Capacity, kW	6.37	6.86	8.26	8.34	5.70	6.20	7.29	8.46	5.07	5.58	6.61	7.73	3.50	4.05	5.06	6.07
	Power Input, kW	1.37	1.37	1.37	1.37	1.38	1.38	1.38	1.38	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
5°C	Nett Capacity, kW	8.12	8.12	8.21	8.29	8.34	8.34	8.34	8.42	8.56	8.56	8.56	8.64	9.17	9.17	9.17	9.17
	Sensible Capacity, kW	6.33	6.82	8.21	8.29	5.67	6.17	7.26	8.42	5.05	5.56	6.59	7.69	3.58	4.13	5.04	6.05
	Power Input, kW	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
10°C	Nett Capacity, kW	8.05	8.05	8.14	8.23	8.28	8.28	8.28	8.37	8.51	8.51	8.51	8.59	9.13	9.13	9.13	9.13
	Sensible Capacity, kW	6.36	6.84	7.90	8.23	5.71	6.21	7.29	8.29	5.11	5.62	6.64	7.73	3.56	4.11	5.11	6.12
	Power Input, kW	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
18°C	Nett Capacity, kW	7.96	7.96	8.05	8.13	8.19	8.19	8.19	8.28	8.42	8.42	8.42	8.51	9.05	9.05	9.05	9.05
	Sensible Capacity, kW	6.29	6.77	7.81	8.13	5.65	6.14	7.21	8.20	5.05	5.56	6.57	7.66	3.53	4.07	5.07	6.06
	Power Input, kW	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.47	1.47	1.47	1.47	1.46	1.46	1.46	1.46
25°C	Nett Capacity, kW	7.47	7.47	7.56	7.65	7.67	7.67	7.76	7.85	7.90	7.90	7.90	7.99	8.51	8.51	8.51	8.51
	Sensible Capacity, kW	6.05	6.57	7.56	7.65	5.45	5.98	6.98	7.85	4.82	5.37	6.32	7.43	3.32	3.83	4.85	5.87
	Power Input, kW	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71
30°C	Nett Capacity, kW	7.10	7.16	7.21	7.30	7.33	7.33	7.42	7.50	7.56	7.56	7.56	7.65	8.13	8.13	8.13	8.13
	Sensible Capacity, kW	5.89	6.44	7.21	7.30	5.28	5.79	6.83	7.50	4.69	5.22	6.20	7.27	3.17	3.66	4.72	5.69
	Power Input, kW	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.88	1.88	1.88	1.88
35°C	Nett Capacity, kW	6.75	6.81	6.87	6.93	6.98	6.98	7.04	7.10	7.19	7.19	**7.30**	7.39	7.76	7.76	7.76	7.76
	Sensible Capacity, kW	5.74	6.27	6.87	6.93	5.17	5.65	6.69	7.10	4.53	5.03	**6.06**	7.17	3.03	3.49	4.50	5.51
	Power Input, kW	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.06	2.06	**2.06**	2.06	2.07	2.07	2.07	2.07
40°C	Nett Capacity, kW	6.31	6.37	6.43	6.48	6.53	6.53	6.59	6.64	6.73	6.73	6.82	6.89	7.27	7.27	7.27	7.27
	Sensible Capacity, kW	5.62	6.12	6.43	6.48	5.03	5.55	6.59	6.64	4.37	4.91	6.00	6.89	2.84	3.34	4.36	6.54
	Power Input, kW	2.26	2.26	2.26	2.26	2.27	2.27	2.27	2.27	2.28	2.28	2.28	2.28	2.29	2.29	2.29	2.29
46°C	Nett Capacity, kW	5.85	5.90	5.96	6.02	6.05	6.05	6.10	6.16	6.25	6.25	6.30	6.36	6.76	6.76	6.76	6.76
	Sensible Capacity, kW	5.32	5.84	5.96	6.02	4.72	5.20	6.10	6.16	4.13	4.63	5.67	6.36	2.64	3.18	4.12	6.22
	Power Input, kW	2.51	2.51	2.51	2.51	2.52	2.52	2.52	2.52	2.53	2.53	2.53	2.53	2.55	2.55	2.55	2.55
52°C	Nett Capacity, kW	5.30	5.36	5.42	5.48	5.48	5.53	5.59	5.65	5.68	5.68	5.73	5.79	6.16	6.16	6.16	6.16
	Sensible Capacity, kW	5.04	5.36	5.42	5.48	4.49	4.98	5.59	5.65	3.92	4.37	5.44	5.79	2.40	2.90	3.94	5.98
	Power Input, kW	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.84	2.84	2.84	2.84	2.86	2.86	2.86	2.86

HEATING PERFORMANCE

INDOOR CONDITIONS		OUTDOOR TEMPERATURE							
		24°CD 18°CW	12°CD 11°CW	7°CD 6°CW	4°CD 3°CW	0°CD -1°CW	-5°CD -6°CW	-7°CD -8°CW	-15°CD -16°CW
15°C - DB	Nett Capacity, kW	7.96	9.49	8.62	7.11	6.68	6.04	5.47	3.02
	Power Input, kW	1.75	2.09	1.90	1.92	1.71	1.39	1.58	0.98
18°C - DB	Nett Capacity, kW	7.60	9.07	8.24	6.80	6.39	5.77	5.24	2.88
	Power Input, kW	1.69	2.01	1.83	1.85	1.65	1.34	1.53	0.94
20°C - DB	Nett Capacity, kW	7.10	8.47	**7.70**	6.36	5.96	5.39	4.89	2.70
	Power Input, kW	1.59	1.90	**1.73**	1.75	1.56	1.27	1.45	0.89
22°C - DB	Nett Capacity, kW	6.89	8.21	7.47	6.16	5.79	5.23	4.74	2.62
	Power Input, kW	1.63	1.94	1.77	1.78	1.59	1.29	1.48	0.91
27°C - DB	Nett Capacity, kW	6.18	7.37	6.70	5.52	5.19	4.69	4.25	2.34
	Power Input, kW	1.63	1.94	1.77	1.79	1.60	1.30	1.48	0.91

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

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CAPACITY SELECTION DATA — LRC-100CS/LRE-100CS

COOLING PERFORMANCE

OUTDOOR TEMPERATURE (DB)		INDOOR CONDITIONS (°C - 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	11.75	11.75	11.86	11.98	12.06	12.06	12.18	12.29	12.39	12.39	12.39	12.50	13.23	13.23	13.23	13.23
	Sensible Capacity, kW	9.28	9.99	11.86	11.98	8.32	9.05	10.60	12.29	7.43	8.18	9.66	11.25	5.03	5.82	7.28	8.86
	Power Input, kW	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.06	2.06	2.06	2.06	2.07	2.07	2.07	2.07
5°C	Nett Capacity, kW	11.67	11.67	11.79	11.91	12.00	12.00	12.12	12.24	12.33	12.33	12.33	12.45	13.20	13.20	13.20	13.20
	Sensible Capacity, kW	9.22	9.92	11.79	11.91	8.28	9.00	10.54	12.24	7.40	8.14	9.62	11.21	5.15	5.94	7.26	8.84
	Power Input, kW	2.11	2.11	2.11	2.11	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.09	2.09	2.09	2.09
10°C	Nett Capacity, kW	11.58	11.58	11.70	11.81	11.92	11.92	12.04	12.15	12.26	12.26	12.26	12.38	13.14	13.14	13.14	13.14
	Sensible Capacity, kW	9.26	9.96	11.58	11.81	8.34	9.06	10.60	12.15	7.48	8.21	9.69	11.27	5.12	5.91	7.36	8.94
	Power Input, kW	2.15	2.15	2.15	2.15	2.14	2.14	2.14	2.14	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
18°C	Nett Capacity, kW	11.45	11.45	11.56	11.68	11.79	11.79	11.91	12.02	12.14	12.14	12.14	12.25	13.03	13.03	13.03	13.03
	Sensible Capacity, kW	9.16	9.85	11.44	11.68	8.25	8.96	10.48	12.02	7.41	8.13	9.59	11.15	5.08	5.86	7.30	8.86
	Power Input, kW	2.23	2.23	2.23	2.23	2.22	2.22	2.22	2.22	2.21	2.21	2.21	2.21	2.20	2.20	2.20	2.20
25°C	Nett Capacity, kW	10.73	10.85	10.96	11.08	11.05	11.05	11.16	11.28	11.39	11.39	11.39	11.51	12.25	12.25	12.25	12.25
	Sensible Capacity, kW	8.80	9.66	10.96	11.08	7.96	8.62	10.16	11.28	7.06	7.75	9.23	10.82	4.78	5.51	6.98	8.45
	Power Input, kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
30°C	Nett Capacity, kW	10.24	10.36	10.47	10.59	10.56	10.56	10.67	10.79	10.87	10.87	10.87	10.99	11.71	11.71	11.71	11.71
	Sensible Capacity, kW	8.60	9.43	10.47	10.59	7.71	8.45	10.03	10.79	6.85	7.50	9.02	10.55	4.57	5.27	6.79	8.31
	Power Input, kW	2.81	2.81	2.81	2.81	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.83	2.83	2.83	2.83
35°C	Nett Capacity, kW	9.72	9.81	9.90	9.98	10.04	10.04	10.13	10.24	10.33	10.33	**10.50**	10.62	11.16	11.16	11.16	11.16
	Sensible Capacity, kW	8.36	9.12	9.90	9.98	7.43	8.23	9.72	10.24	6.61	7.33	**8.93**	10.41	4.35	5.13	6.58	8.04
	Power Input, kW	3.07	3.07	3.07	3.07	3.08	3.08	3.08	3.08	3.09	3.09	**3.09**	3.09	3.11	3.11	3.11	3.11
40°C	Nett Capacity, kW	9.07	9.16	9.24	9.33	9.37	9.37	9.46	9.56	9.66	9.66	9.79	9.89	10.44	10.44	10.44	10.44
	Sensible Capacity, kW	8.16	8.98	9.24	9.33	7.31	8.06	9.46	9.56	6.38	7.15	8.71	9.89	4.07	4.80	6.37	9.40
	Power Input, kW	3.39	3.39	3.39	3.39	3.40	3.40	3.40	3.40	3.41	3.41	3.41	3.41	3.44	3.44	3.44	3.44
46°C	Nett Capacity, kW	8.40	8.49	8.57	8.66	8.69	8.69	8.77	8.86	8.97	8.97	9.06	9.14	9.71	9.71	9.71	9.71
	Sensible Capacity, kW	7.73	8.49	8.57	8.66	6.87	7.56	8.77	8.86	6.01	6.73	8.24	9.14	3.79	4.56	6.02	8.93
	Power Input, kW	3.78	3.78	3.78	3.78	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.82	3.82	3.82	3.82
52°C	Nett Capacity, kW	7.61	7.69	7.78	7.86	7.89	7.98	8.06	8.15	8.15	8.15	8.23	8.32	8.83	8.83	8.83	8.83
	Sensible Capacity, kW	7.38	7.69	7.78	7.86	6.55	7.26	8.06	8.15	5.62	6.36	7.90	8.32	3.44	4.24	5.65	8.57
	Power Input, kW	4.26	4.26	4.26	4.26	4.27	4.27	4.27	4.27	4.28	4.28	4.28	4.28	4.32	4.32	4.32	4.32

HEATING PERFORMANCE

INDOOR CONDITIONS		OUTDOOR TEMPERATURE							
		24°CD 18°CW	12°CD 11°CW	7°CD 6°CW	4°CD 3°CW	0°CD -1°CW	-5°CD -6°CW	-7°CD -8°CW	-15°CD -16°CW
15°C - DB	Nett Capacity, kW	11.88	14.17	12.88	10.62	9.98	9.02	8.18	4.51
	Power Input, kW	2.73	3.26	2.96	2.99	2.67	2.17	2.47	1.52
18°C - DB	Nett Capacity, kW	11.35	13.54	12.31	10.15	9.54	8.61	7.81	4.31
	Power Input, kW	2.63	3.14	2.86	2.89	2.57	2.10	2.38	1.47
20°C - DB	Nett Capacity, kW	10.61	12.65	**11.50**	9.48	8.91	8.05	7.30	4.03
	Power Input, kW	2.48	2.97	**2.70**	2.73	2.43	1.98	2.25	1.38
22°C - DB	Nett Capacity, kW	10.29	12.27	11.16	9.20	8.64	7.81	7.08	3.90
	Power Input, kW	2.54	3.03	2.76	2.78	2.48	2.02	2.30	1.41
27°C - DB	Nett Capacity, kW	9.23	11.01	10.01	8.25	7.75	7.00	6.35	3.50
	Power Input, kW	2.54	3.04	2.76	2.79	2.49	2.03	2.30	1.42

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

ActronAir

9590-0023-01
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CAPACITY SELECTION DATA — URC-125CS/LRE-125CS

COOLING PERFORMANCE

OUTDOOR TEMPERATURE (DB)		INDOOR CONDITIONS (°C - 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	14.42	14.57	14.73	14.88	14.80	14.80	14.94	15.10	15.19	15.19	15.34	15.49	16.23	16.23	16.23	16.23
	Sensible Capacity, kW	9.80	10.78	12.81	14.88	8.88	9.62	11.51	13.74	8.05	8.81	10.43	12.39	6.01	6.49	7.63	8.93
	Power Input, kW	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42
5°C	Nett Capacity, kW	14.33	14.49	14.63	14.79	14.73	14.73	14.87	15.03	15.13	15.13	15.27	15.43	16.19	16.19	16.19	16.19
	Sensible Capacity, kW	10.03	11.16	13.17	14.79	9.13	9.87	11.75	13.97	8.32	8.93	10.69	12.65	6.15	6.64	7.93	9.23
	Power Input, kW	2.47	2.47	2.47	2.47	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.45	2.45	2.45	2.45
10°C	Nett Capacity, kW	14.22	14.37	14.52	14.66	14.62	14.62	14.78	14.92	15.04	15.04	15.18	15.34	16.12	16.12	16.12	16.12
	Sensible Capacity, kW	10.38	11.35	13.50	14.66	9.36	10.24	12.12	14.33	8.42	9.17	10.93	13.04	6.29	6.93	8.06	9.51
	Power Input, kW	2.53	2.53	2.53	2.53	2.52	2.52	2.52	2.52	2.51	2.51	2.51	2.51	2.50	2.50	2.50	2.50
18°C	Nett Capacity, kW	14.06	14.20	14.36	14.50	14.47	14.47	14.62	14.77	14.89	14.89	15.04	15.18	15.99	15.99	15.99	15.99
	Sensible Capacity, kW	10.54	11.50	13.78	14.50	9.55	10.42	12.28	14.62	8.64	9.38	11.13	13.21	6.39	7.03	8.31	9.75
	Power Input, kW	2.62	2.62	2.62	2.62	2.61	2.61	2.61	2.61	2.60	2.60	2.60	2.60	2.58	2.58	2.58	2.58
25°C	Nett Capacity, kW	13.17	13.28	13.41	13.55	13.58	13.73	13.88	14.02	13.99	13.99	14.15	14.29	15.04	15.04	15.04	15.04
	Sensible Capacity, kW	10.27	11.29	13.41	13.55	9.37	10.29	12.21	14.02	8.54	9.24	10.89	13.01	6.32	6.92	8.12	9.47
	Power Input, kW	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
30°C	Nett Capacity, kW	12.57	12.69	12.81	12.93	12.96	13.08	13.20	13.31	13.34	13.34	13.49	13.64	14.39	14.39	14.39	14.39
	Sensible Capacity, kW	10.06	11.04	12.81	12.93	9.20	10.07	12.01	13.31	8.27	9.07	10.79	12.82	6.19	6.76	7.91	9.35
	Power Input, kW	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.31	3.31	3.31	3.31	3.32	3.32	3.32	3.32
35°C	Nett Capacity, kW	11.95	12.07	12.19	12.31	12.31	12.43	12.55	12.66	12.69	12.69	**12.90**	13.01	13.70	13.70	13.70	13.70
	Sensible Capacity, kW	9.92	10.87	12.19	12.31	8.99	9.82	11.67	12.66	8.12	8.89	**10.58**	12.62	6.17	6.72	7.81	9.18
	Power Input, kW	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.31	3.31	**3.63**	3.30	3.30	3.30	3.30	3.30
40°C	Nett Capacity, kW	12.59	12.72	12.85	12.98	12.97	13.11	13.24	13.36	13.39	13.39	13.57	13.70	14.47	14.47	14.47	14.53
	Sensible Capacity, kW	11.21	12.22	12.85	12.98	10.12	11.14	13.24	13.36	9.24	10.04	11.94	13.70	6.94	7.52	8.83	10.46
	Power Input, kW	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.23	3.23	3.23	3.23	3.25	3.25	3.25	3.25
46°C	Nett Capacity, kW	11.66	11.80	11.93	12.06	12.03	12.17	12.29	12.43	12.43	12.43	12.56	12.69	13.46	13.46	13.46	13.59
	Sensible Capacity, kW	10.96	11.80	11.93	12.06	9.87	10.95	12.29	12.43	9.07	9.82	11.68	12.69	6.73	7.40	8.75	10.33
	Power Input, kW	3.57	3.57	3.57	3.57	3.58	3.58	3.58	3.58	3.59	3.59	3.59	3.59	3.62	3.62	3.62	3.62
52°C	Nett Capacity, kW	10.57	10.67	10.77	10.87	10.94	11.03	11.14	11.24	11.30	11.40	11.50	11.60	12.26	12.26	12.26	12.39
	Sensible Capacity, kW	10.46	10.67	10.77	10.87	9.52	10.37	11.14	11.24	8.59	9.46	11.27	11.60	6.50	7.11	8.34	9.92
	Power Input, kW	4.03	4.03	4.03	4.03	4.04	4.04	4.04	4.04	4.05	4.05	4.05	4.05	4.08	4.08	4.08	4.08

HEATING PERFORMANCE

INDOOR CONDITIONS		OUTDOOR TEMPERATURE							
		24°CD 18°CW	12°CD 11°CW	7°CD 6°CW	4°CD 3°CW	0°CD -1°CW	-5°CD -6°CW	-7°CD -8°CW	-15°CD -16°CW
15°C - DB	Nett Capacity, kW	12.95	15.48	14.08	14.08	13.79	13.51	12.80	10.55
	Power Input, kW	3.23	3.86	3.51	3.65	3.86	4.24	4.70	5.08
18°C - DB	Nett Capacity, kW	13.20	15.77	14.34	14.34	14.05	13.76	13.05	10.75
	Power Input, kW	3.11	3.72	3.38	3.51	3.72	4.09	4.53	4.90
20°C - DB	Nett Capacity, kW	12.33	14.74	**13.40**	13.40	13.13	12.86	12.20	10.06
	Power Input, kW	2.94	3.51	**3.19**	3.32	3.51	3.86	4.27	4.63
22°C - DB	Nett Capacity, kW	11.96	14.30	13.00	13.00	12.74	12.48	11.82	9.74
	Power Input, kW	3.00	3.57	3.25	3.38	3.57	3.94	4.36	4.72
27°C - DB	Nett Capacity, kW	10.73	12.82	11.66	11.66	11.43	11.19	10.61	8.75
	Power Input, kW	3.00	3.57	3.25	3.38	3.57	3.94	4.36	4.72

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/LRE-140CS

COOLING PERFORMANCE

OUTDOOR TEMPERATURE (DB)		INDOOR CONDITIONS (°C - 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	15.66	15.81	15.96	16.10	16.08	16.08	16.22	16.40	16.48	16.48	16.48	16.66	17.63	17.63	17.63	17.63
	Sensible Capacity, kW	10.96	12.02	14.20	16.10	9.97	10.77	12.81	15.25	8.90	9.72	11.37	13.66	6.70	7.23	8.46	10.05
	Power Input, kW	2.74	2.74	2.74	2.74	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.74	2.74	2.74	2.74
5°C	Nett Capacity, kW	15.57	15.71	15.86	16.01	16.00	16.00	16.15	16.32	16.42	16.42	16.42	16.59	17.59	17.59	17.59	17.59
	Sensible Capacity, kW	11.21	12.25	14.59	16.01	10.08	11.04	13.08	15.50	9.20	10.02	11.66	13.94	6.86	7.39	8.80	10.20
	Power Input, kW	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.77	2.77	2.77	2.77
10°C	Nett Capacity, kW	15.44	15.58	15.73	15.88	15.89	15.89	16.04	16.21	16.32	16.32	16.32	16.49	17.51	17.51	17.51	17.51
	Sensible Capacity, kW	11.43	12.62	14.94	15.88	10.33	11.28	13.47	15.89	9.47	10.28	12.08	14.35	7.00	7.53	8.93	10.51
	Power Input, kW	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.85	2.85	2.85	2.85	2.83	2.83	2.83	2.83
18°C	Nett Capacity, kW	15.26	15.41	15.55	15.70	15.72	15.72	15.87	16.04	16.16	16.16	16.16	16.33	17.36	17.36	17.36	17.36
	Sensible Capacity, kW	11.75	12.79	15.24	15.70	10.53	11.48	13.65	16.04	9.53	10.50	12.28	14.53	7.12	7.81	9.20	10.76
	Power Input, kW	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.95	2.95	2.95	2.95	2.92	2.92	2.92	2.92
25°C	Nett Capacity, kW	14.32	14.46	14.60	14.75	14.75	14.75	14.89	15.03	15.18	15.18	15.32	15.47	16.33	16.33	16.33	16.33
	Sensible Capacity, kW	11.46	12.58	14.60	14.75	10.33	11.21	13.40	15.03	9.41	10.17	12.10	14.39	7.02	7.68	8.98	10.61
	Power Input, kW	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42
30°C	Nett Capacity, kW	13.63	13.77	13.91	14.06	14.06	14.06	14.20	14.34	14.49	14.49	14.63	14.78	15.61	15.61	15.61	15.61
	Sensible Capacity, kW	11.18	12.26	13.91	14.06	10.12	11.11	13.21	14.34	9.27	10.00	12.00	14.19	6.87	7.49	8.90	10.46
	Power Input, kW	3.73	3.73	3.73	3.73	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.76	3.76	3.76	3.76
35°C	Nett Capacity, kW	12.97	13.11	13.25	13.40	13.37	13.51	13.66	13.80	13.80	13.80	**14.00**	14.14	14.86	14.86	14.86	14.86
	Sensible Capacity, kW	11.02	12.06	13.25	13.40	10.03	10.94	12.98	13.80	9.11	9.80	**13.02**	14.00	6.84	7.43	8.62	10.25
	Power Input, kW	4.09	4.09	4.09	4.09	4.10	4.10	4.10	4.10	4.10	4.10	**4.11**	4.10	4.13	4.13	4.13	4.13
40°C	Nett Capacity, kW	14.40	14.56	14.71	14.86	14.86	15.01	15.17	15.32	15.34	15.34	15.53	15.68	16.56	16.56	16.56	16.56
	Sensible Capacity, kW	12.96	14.12	14.71	14.86	11.74	12.91	15.17	15.32	10.74	11.66	13.82	15.68	7.95	8.78	10.27	12.09
	Power Input, kW	5.25	5.25	5.25	5.25	5.26	5.26	5.26	5.26	5.27	5.27	5.27	5.27	5.31	5.31	5.31	5.31
46°C	Nett Capacity, kW	13.35	13.48	13.62	13.75	13.79	13.92	14.06	14.20	14.23	14.23	14.36	14.50	15.41	15.41	15.41	15.41
	Sensible Capacity, kW	12.82	13.48	13.62	13.75	11.58	12.81	14.06	14.20	10.53	11.53	13.64	14.50	8.01	8.63	10.17	12.02
	Power Input, kW	5.85	5.85	5.85	5.85	5.86	5.86	5.86	5.86	5.87	5.87	5.87	5.87	5.92	5.92	5.92	5.92
52°C	Nett Capacity, kW	12.09	12.23	12.37	12.50	12.50	12.64	12.77	12.91	12.91	12.91	13.04	13.18	14.03	14.03	14.03	14.16
	Sensible Capacity, kW	11.97	12.23	12.37	12.50	10.88	12.01	12.77	12.91	9.94	10.72	12.78	13.18	7.44	8.14	9.54	11.33
	Power Input, kW	6.60	6.60	6.60	6.60	6.61	6.61	6.61	6.61	6.62	6.62	6.62	6.62	6.67	6.67	6.67	6.67

HEATING PERFORMANCE

INDOOR CONDITIONS		OUTDOOR TEMPERATURE							
		24°CD 18°CW	12°CD 11°CW	7°CD 6°CW	4°CD 3°CW	0°CD -1°CW	-5°CD -6°CW	-7°CD -8°CW	-15°CD -16°CW
15°C - DB	Nett Capacity, kW	13.87	16.57	15.07	13.56	12.81	12.05	11.75	9.79
	Power Input, kW	3.50	4.19	3.81	4.19	4.57	4.95	5.14	5.18
18°C - DB	Nett Capacity, kW	14.13	16.89	15.36	13.82	13.05	12.28	11.97	9.98
	Power Input, kW	3.37	4.04	3.67	4.04	4.40	4.77	4.95	4.99
20°C - DB	Nett Capacity, kW	13.21	15.79	**14.35**	12.92	12.20	11.48	11.19	9.33
	Power Input, kW	3.19	3.81	**3.46**	3.81	4.15	4.50	4.67	4.70
22°C - DB	Nett Capacity, kW	12.81	15.31	13.92	12.53	11.83	11.13	10.86	9.05
	Power Input, kW	3.25	3.89	3.53	3.89	4.24	4.59	4.77	4.80
27°C - DB	Nett Capacity, kW	11.49	13.73	12.49	11.24	10.61	9.99	9.73	8.12
	Power Input, kW	3.25	3.89	3.53	3.89	4.24	4.59	4.77	4.80

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 — LRC-170CS/LRE-170CS

COOLING PERFORMANCE

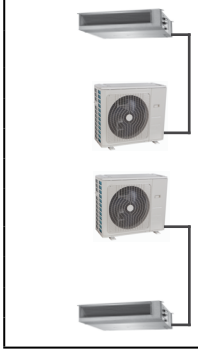
OUTDOOR TEMPERATURE (DB)		INDOOR CONDITIONS (°C - DB)															
	WB°C	16.0				18.0				19.0				22.0			
	DB°C	24	25	27	29	24	25	27	29	24	25	27	29	24	25	27	29
0°C	Nett Capacity, kW	18.57	18.75	18.91	19.09	19.06	19.06	19.24	19.44	19.55	19.55	19.55	19.75	20.91	20.91	20.91	20.91
	Sensible Capacity, kW	13.56	14.25	17.02	19.09	11.82	12.77	15.20	18.08	10.75	11.53	13.68	16.20	7.94	8.57	10.03	11.92
	Power Input, kW	3.28	3.28	3.28	3.28	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.28	3.28	3.28	3.28
5°C	Nett Capacity, kW	18.46	18.63	18.81	18.97	18.97	18.97	19.15	19.35	19.46	19.46	19.46	19.68	20.86	20.86	20.86	20.86
	Sensible Capacity, kW	13.47	14.72	17.49	18.97	12.14	13.09	15.70	18.58	10.90	11.87	14.01	16.72	8.34	8.76	10.43	12.31
	Power Input, kW	3.34	3.34	3.34	3.34	3.35	3.35	3.35	3.35	3.34	3.34	3.34	3.34	3.32	3.32	3.32	3.32
10°C	Nett Capacity, kW	18.31	18.47	18.65	18.83	18.85	18.85	19.02	19.23	19.34	19.34	19.34	19.55	20.77	20.77	20.77	20.77
	Sensible Capacity, kW	13.73	14.96	17.90	18.83	12.44	13.57	15.98	19.23	11.22	12.38	14.31	17.01	9.14	9.14	10.80	13.71
	Power Input, kW	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.42	3.42	3.42	3.42	3.40	3.40	3.40	3.40
18°C	Nett Capacity, kW	18.10	18.27	18.45	18.61	18.64	18.64	18.82	19.02	19.16	19.16	19.16	19.36	20.58	20.58	20.58	20.58
	Sensible Capacity, kW	14.12	15.35	18.26	18.61	12.68	13.79	16.37	19.02	11.50	12.45	14.75	18.98	8.65	9.26	10.91	12.97
	Power Input, kW	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.53	3.53	3.53	3.53	3.49	3.49	3.49	3.49
25°C	Nett Capacity, kW	16.97	17.15	17.31	17.49	17.49	17.49	17.65	17.83	18.00	18.00	18.17	18.34	19.36	19.36	19.36	19.36
	Sensible Capacity, kW	14.09	14.92	17.31	17.49	13.47	13.47	16.77	17.83	11.16	12.24	14.54	17.24	8.33	9.10	10.65	12.59
	Power Input, kW	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09
30°C	Nett Capacity, kW	16.16	16.33	16.50	16.67	16.67	16.67	16.83	17.01	17.18	17.18	17.35	17.52	18.50	18.50	18.50	18.50
	Sensible Capacity, kW	13.41	14.69	16.50	16.67	12.17	13.17	15.66	17.01	10.99	12.02	14.23	16.99	8.33	8.88	10.73	12.40
	Power Input, kW	4.48	4.48	4.48	4.48	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.51	4.51	4.51	4.51
35°C	Nett Capacity, kW	15.37	15.55	15.71	15.89	15.85	16.02	16.19	16.37	16.37	16.37	**16.60**	16.77	17.63	17.63	17.63	17.63
	Sensible Capacity, kW	13.06	14.46	15.71	15.89	11.89	13.14	15.54	16.37	10.80	11.78	**14.11**	16.77	8.11	8.81	10.40	12.16
	Power Input, kW	4.91	4.91	4.91	4.91	4.92	4.92	4.92	4.92	4.92	4.92	**4.93**	4.92	4.95	4.95	4.95	4.95
40°C	Nett Capacity, kW	13.57	13.72	13.87	14.01	14.01	14.16	14.31	14.44	14.46	14.46	14.64	14.78	15.61	15.61	15.61	15.61
	Sensible Capacity, kW	12.49	13.72	13.87	14.01	12.33	12.46	14.31	14.44	10.27	11.14	13.32	14.78	7.65	8.43	9.84	11.55
	Power Input, kW	4.97	4.97	4.97	4.97	4.98	4.98	4.98	4.98	4.99	4.99	4.99	4.99	5.03	5.03	5.03	5.03
46°C	Nett Capacity, kW	12.59	12.71	12.84	12.97	13.00	13.12	13.25	13.39	13.42	13.42	13.54	13.67	14.53	14.53	14.53	14.53
	Sensible Capacity, kW	12.21	12.71	12.84	12.97	11.18	12.21	13.25	13.39	10.20	11.00	13.14	13.67	7.56	8.28	9.88	11.48
	Power Input, kW	5.53	5.53	5.53	5.53	5.54	5.54	5.54	5.54	5.55	5.55	5.55	5.55	5.59	5.59	5.59	5.59
52°C	Nett Capacity, kW	10.17	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.94	11.99	11.99	11.99	11.99
	Sensible Capacity, kW	10.17	10.30	10.30	10.30	9.17	9.89	10.30	10.30	8.04	8.76	10.30	10.94	6.48	7.07	8.27	9.83
	Power Input, kW	5.02	5.02	5.02	5.02	5.03	5.03	5.03	5.03	5.04	5.04	5.04	5.04	5.09	5.09	5.09	5.09

HEATING PERFORMANCE

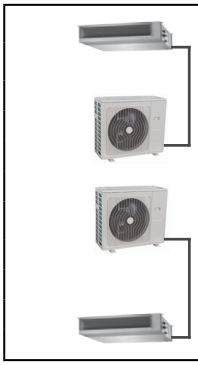
INDOOR CONDITIONS		OUTDOOR TEMPERATURE							
		24°CD 18°CW	12°CD 11°CW	7°CD 6°CW	4°CD 3°CW	0°CD -1°CW	-5°CD -6°CW	-7°CD -8°CW	-15°CD -16°CW
15°C - DB	Nett Capacity, kW	17.01	20.33	18.49	16.63	14.78	14.41	13.86	10.53
	Power Input, kW	4.44	5.32	4.83	4.88	4.93	4.98	5.07	5.32
18°C - DB	Nett Capacity, kW	17.33	20.72	18.84	16.95	15.07	14.69	14.12	10.73
	Power Input, kW	4.28	5.12	4.65	4.70	4.75	4.79	4.89	5.12
20°C - DB	Nett Capacity, kW	16.19	19.36	**17.60**	15.84	14.08	13.73	13.21	10.04
	Power Input, kW	4.04	4.83	**4.39**	4.44	4.48	4.53	4.61	4.83
22°C - DB	Nett Capacity, kW	15.71	18.78	17.08	15.37	13.66	13.32	12.80	9.74
	Power Input, kW	4.12	4.93	4.48	4.53	4.57	4.61	4.70	4.93
27°C - DB	Nett Capacity, kW	14.09	16.85	15.32	13.78	12.25	11.95	11.49	8.73
	Power Input, kW	4.12	4.93	4.48	4.53	4.57	4.61	4.70	4.93

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

LRC-071CS/LRE-071CS

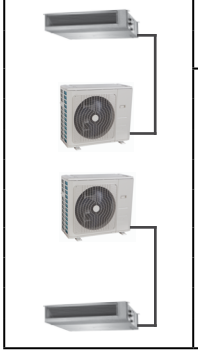


COOLING			PIPE LENGTH (m)					
			7.5	10	20	30	40	50
H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	25	---	---	---	0.860	0.837	0.816
		20	---	---	0.886	0.873	0.850	0.830
		10	---	0.956	0.899	0.887	0.863	0.842
		5	0.995	0.966	0.908	0.896	0.872	0.851
		0	**1.000**	**0.971**	**0.913**	**0.900**	**0.876**	**0.855**
	Indoor Unit Lower Than Outdoor Unit	-5	1.000	0.971	0.913	0.900	0.876	0.855
		-10	---	0.971	0.913	0.900	0.876	0.855
		-20	---	-	0.913	0.900	0.876	0.855
		-25	---	---	---	0.900	0.876	0.855

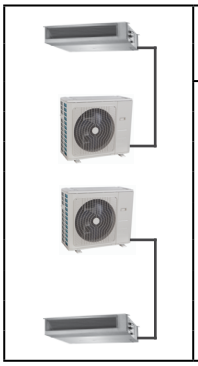


HEATING			PIPE LENGTH (m)					
			7.5	10	20	30	40	50
H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	25	---	---	---	0.954	0.946	0.910
		20	---	---	0.968	0.954	0.946	0.910
		10	---	0.989	0.968	0.954	0.946	0.910
		5	1.000	0.989	0.968	0.954	0.946	0.910
		0	**1.000**	**0.989**	**0.968**	**0.954**	**0.946**	**0.910**
	Indoor Unit Lower Than Outdoor Unit	-5	0.992	0.981	0.960	0.946	0.938	0.903
		-10	---	0.973	0.952	0.939	0.931	0.895
		-20	---	---	0.045	0.931	0.923	0.888
		-25	---	---	---	0.924	0.916	0.881

LRC-100CS/LRE-100CS

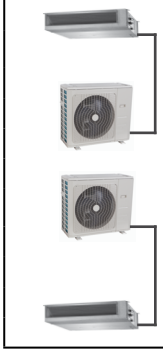


COOLING			PIPE LENGTH (m)							
			7.5	10	20	30	40	50	60	75
H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.872	0.834	0.797	0.765	0.748
		20	---	---	0.923	0.885	0.847	0.809	0.776	0.760
		10	---	0.975	0.937	0.898	0.860	0.822	0.788	0.771
		5	0.995	0.985	0.946	0.908	0.869	0.830	0.796	0.779
		0	**1.000**	**0.990**	**0.951**	**0.912**	**0.873**	**0.834**	**0.800**	**0.783**
	Indoor Unit Lower Than Outdoor Unit	-5	1.000	0.990	0.951	0.912	0.873	0.834	0.800	0.783
		-10	---	0.990	0.951	0.912	0.873	0.834	0.800	0.783
		-20	---	---	0.951	0.912	0.873	0.834	0.800	0.783
		-30	---	---	---	0.912	0.873	0.834	0.800	0.783

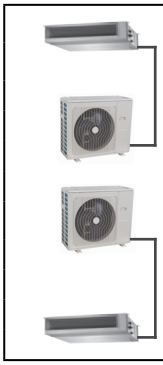


HEATING			PIPE LENGTH (m)							
			7.5	10	20	30	40	50	60	75
H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.963	0.947	0.924	0.907	0.887
		20	---	---	0.979	0.963	0.947	0.924	0.907	0.887
		10	---	0.996	0.979	0.963	0.947	0.924	0.907	0.887
		5	1.000	0.996	0.979	0.963	0.947	0.924	0.907	0.887
		0	**1.000**	**0.996**	**0.979**	**0.963**	**0.947**	**0.924**	**0.907**	**0.887**
	Indoor Unit Lower Than Outdoor Unit	-5	0.992	0.988	0.972	0.955	0.939	0.917	0.900	0.880
		-10	---	0.980	0.964	0.948	0.931	0.909	0.893	0.873
		-20	---	---	0.956	0.940	0.924	0.902	0.885	0.866
		-30	---	---	---	0.933	0.917	0.895	0.878	0.859

URC-125CS/LRE-125CS

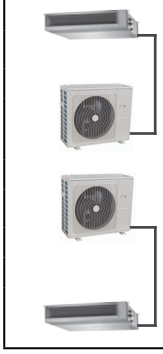


COOLING			PIPE LENGTH (m)							
			7.5	10	20	30	40	50	60	75
H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.893	0.860	0.836	0.806	0.775
		20	---	---	0.941	0.906	0.873	0.849	0.818	0.787
		10	---	0.980	0.955	0.920	0.887	0.862	0.830	0.799
		5	0.995	0.990	0.965	0.929	0.896	0.871	0.839	0.807
		0	**1.000**	**0.995**	**0.970**	**0.934**	**0.900**	**0.875**	**0.843**	**0.811**
	Indoor Unit Lower Than Outdoor Unit	-5	1.000	0.995	0.970	0.934	0.900	0.875	0.843	0.811
		-10	---	0.995	0.970	0.934	0.900	0.875	0.843	0.811
		-20	---	---	0.970	0.934	0.900	0.875	0.843	0.811
		-30	---	---	---	0.934	0.900	0.875	0.843	0.811



HEATING			PIPE LENGTH (m)							
			7.5	10	20	30	40	50	60	75
H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.967	0.945	0.924	0.903	0.895
		20	---	---	0.983	0.967	0.945	0.924	0.903	0.895
		10	---	0.998	0.983	0.967	0.945	0.924	0.903	0.895
		5	1.000	0.998	0.983	0.967	0.945	0.924	0.903	0.895
		0	**1.000**	**0.998**	**0.983**	**0.967**	**0.945**	**0.924**	**0.903**	**0.895**
	Indoor Unit Lower Than Outdoor Unit	-5	0.992	0.990	0.975	0.959	0.937	0.917	0.896	0.888
		-10	---	0.982	0.967	0.952	0.930	0.909	0.889	0.881
		-20	---	---	0.960	0.944	0.923	0.902	0.882	0.874
		-30	---	---	---	0.936	0.915	0.895	0.874	0.867

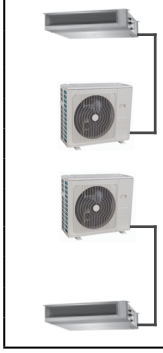
URC-140CS/LRE-140CS



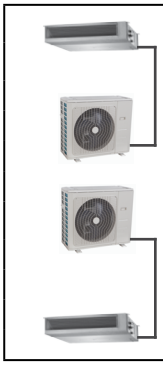
COOLING			PIPE LENGTH (m)							
			7.5	10	20	30	40	50	60	75
H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.867	0.827	0.788	0.776	0.765
		20	---	---	0.920	0.880	0.840	0.800	0.788	0.776
		10	---	0.975	0.934	0.893	0.852	0.812	0.800	0.788
		5	0.995	0.985	0.943	0.902	0.861	0.820	0.808	0.796
		0	**1.000**	**0.990**	**0.948**	**0.907**	**0.865**	**0.824**	**0.812**	**0.800**
	Indoor Unit Lower Than Outdoor Unit	-5	1.000	0.990	0.948	0.907	0.865	0.824	0.812	0.800
		-10	---	0.990	0.948	0.907	0.865	0.824	0.812	0.800
		-20	---	---	0.948	0.907	0.865	0.824	0.812	0.800
		-30	---	---	---	0.907	0.865	0.824	0.812	0.800

HEATING			PIPE LENGTH (m)							
			7.5	10	20	30	40	50	60	75
H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.953	0.932	0.911	0.900	0.889
		20	---	---	0.974	0.953	0.932	0.911	0.900	0.889
		10	---	0.995	0.974	0.953	0.932	0.911	0.900	0.889
		5	1.000	0.995	0.974	0.953	0.932	0.911	0.900	0.889
		0	**1.000**	**0.995**	**0.974**	**0.953**	**0.932**	**0.911**	**0.900**	**0.889**
	Indoor Unit Lower Than Outdoor Unit	-5	0.992	0.987	0.966	0.945	0.924	0.904	0.893	0.882
		-10	---	0.979	0.958	0.938	0.917	0.896	0.886	0.875
		-20	---	---	0.951	0.930	0.910	0.889	0.879	0.868
		-30	---	---	---	0.923	0.902	0.882	0.872	0.861

LRC-170CS/LRE-170CS



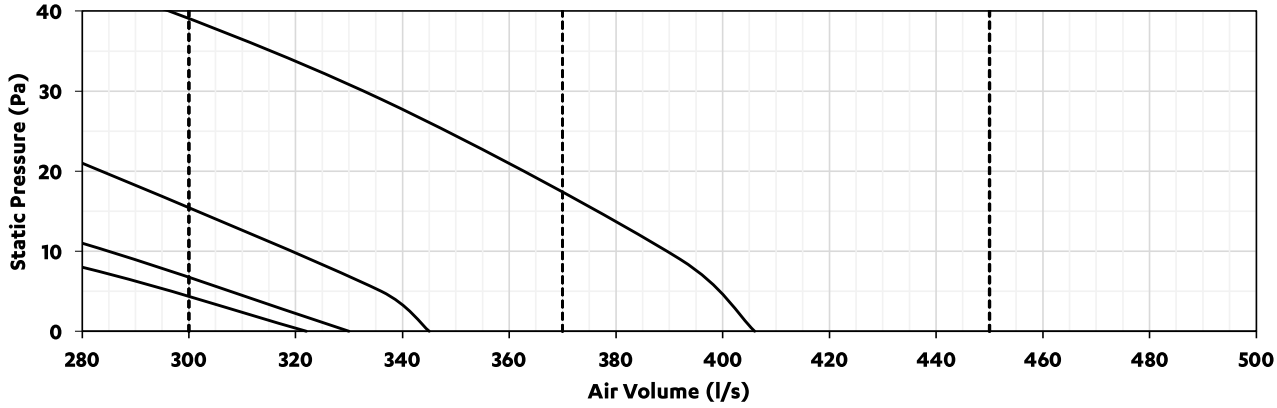
COOLING			PIPE LENGTH (m)							
			7.5	10	20	30	40	50	60	75
H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.851	0.805	0.759	0.720	0.679
		20	---	---	0.911	0.864	0.817	0.770	0.731	0.689
		10	---	0.973	0.925	0.878	0.830	0.782	0.742	0.699
		5	0.995	0.983	0.935	0.886	0.838	0.790	0.749	0.706
		0	**1.000**	**0.988**	**0.939**	**0.891**	**0.842**	**0.794**	**0.753**	**0.710**
	Indoor Unit Lower Than Outdoor Unit	-5	1.000	0.988	0.939	0.891	0.842	0.794	0.753	0.710
		-10	---	0.988	0.939	0.891	0.842	0.794	0.753	0.710
		-20	---	---	0.939	0.891	0.842	0.794	0.753	0.710
		-30	---	---	---	0.891	0.842	0.794	0.753	0.710



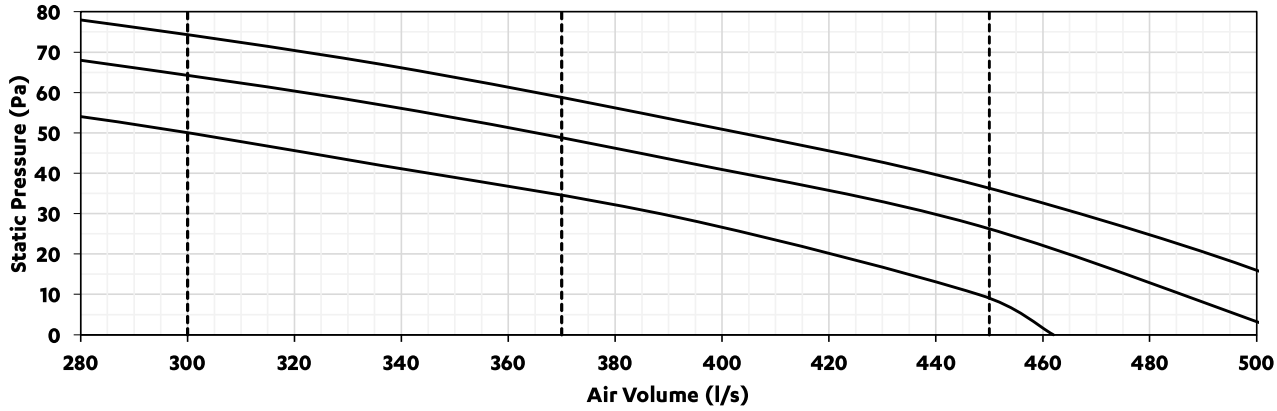
HEATING			PIPE LENGTH (m)							
			7.5	10	20	30	40	50	60	75
H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.950	0.927	0.905	0.900	0.896
		20	---	---	0.972	0.950	0.927	0.905	0.900	0.896
		10	---	0.994	0.972	0.950	0.927	0.905	0.900	0.896
		5	1.000	0.994	0.972	0.950	0.927	0.905	0.900	0.896
		0	**1.000**	**0.994**	**0.972**	**0.950**	**0.927**	**0.905**	**0.900**	**0.896**
	Indoor Unit Lower Than Outdoor Unit	-5	0.992	0.986	0.964	0.942	0.920	0.898	0.893	0.889
		-10	---	0.979	0.957	0.935	0.913	0.891	0.886	0.882
		-20	---	---	0.949	0.927	0.905	0.883	0.879	0.875
		-30	---	---	---	0.920	0.898	0.876	0.872	0.868

LRE-071 With Filter

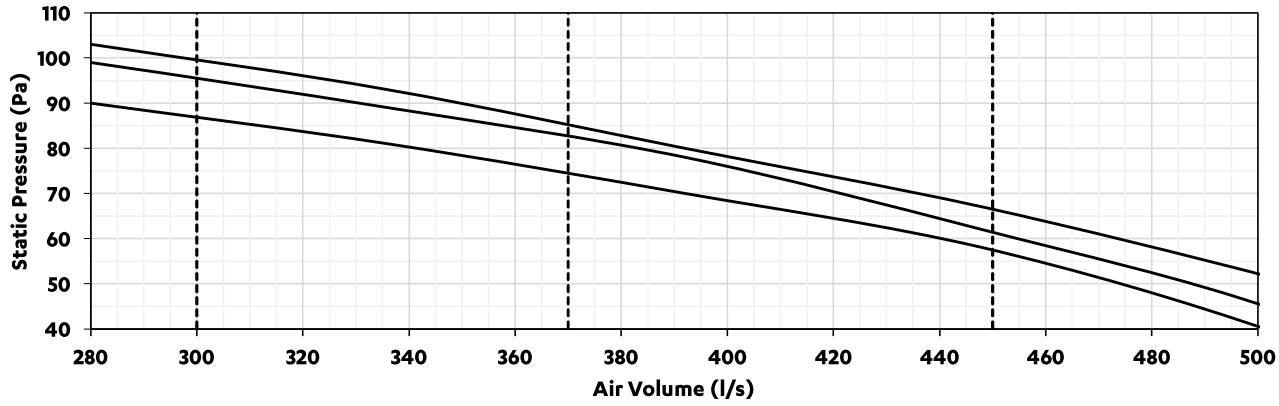
SP1



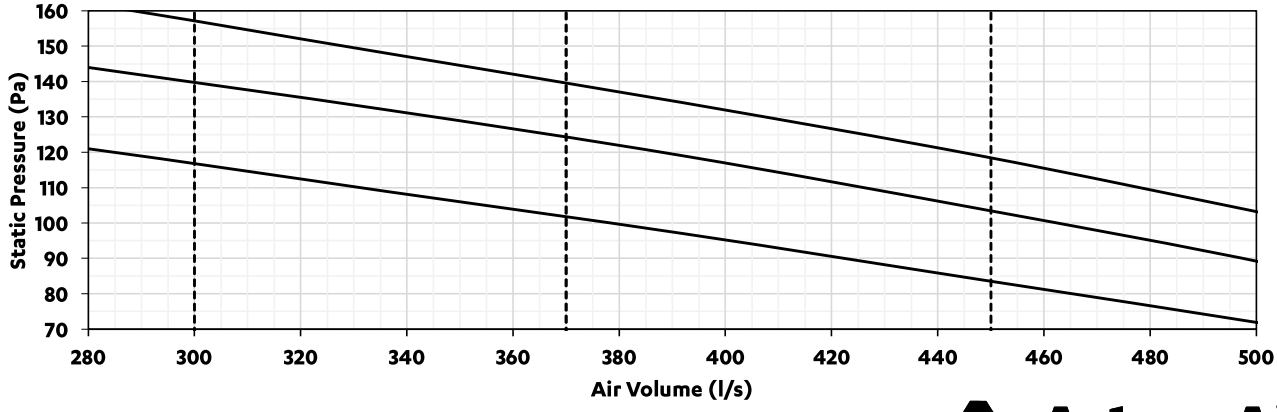
SP2



SP3

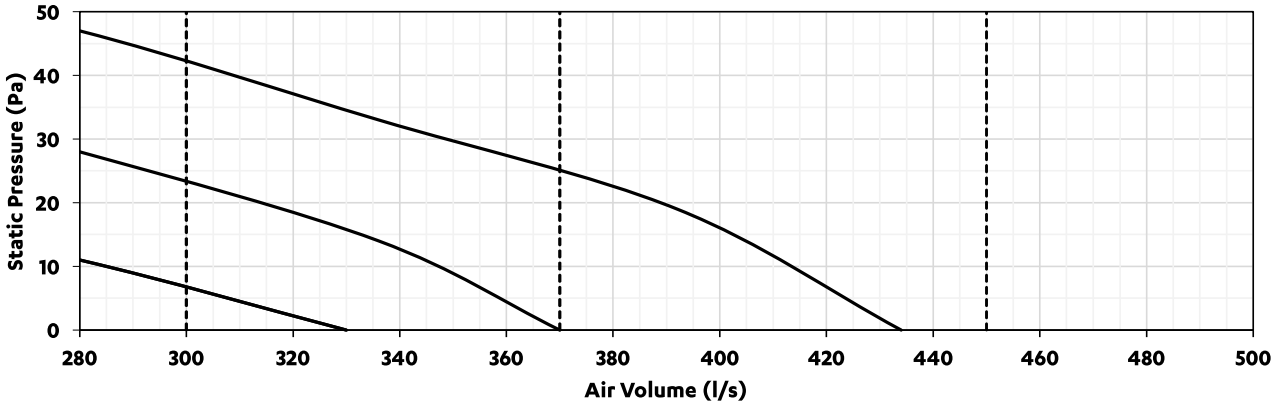


SP4

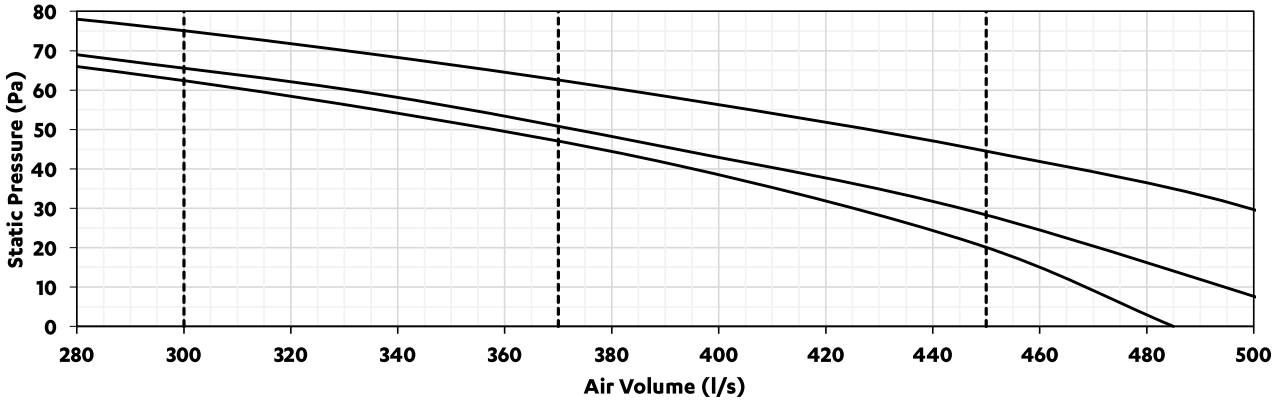


LRE-071 Without Filter

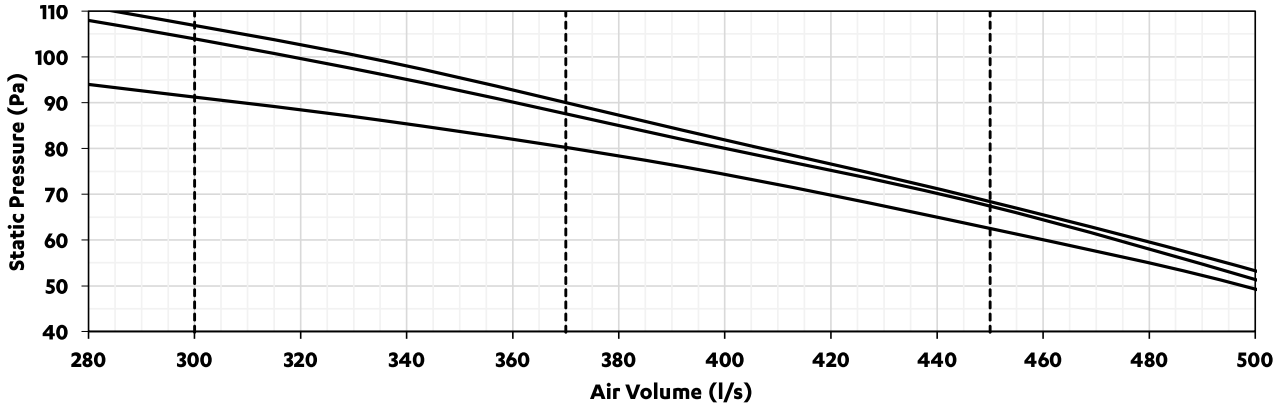
SP1



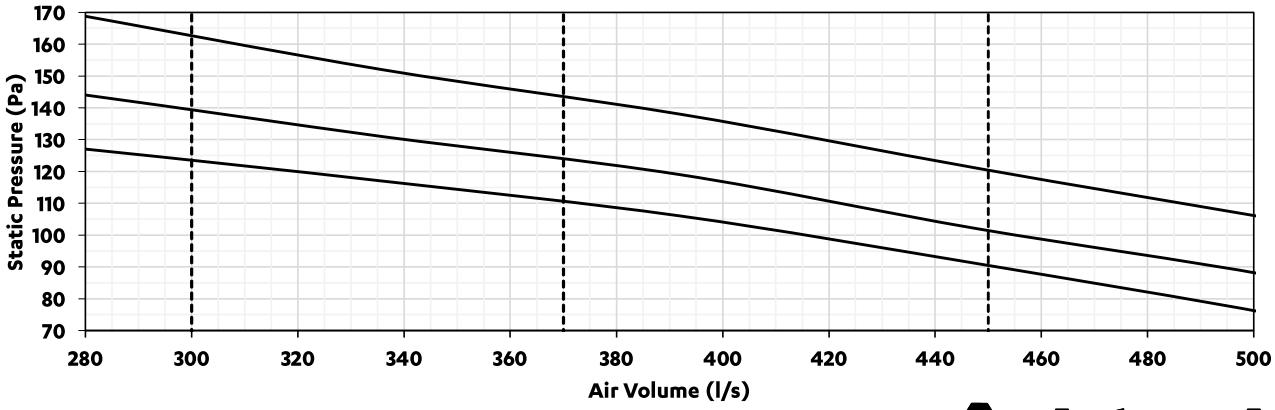
SP2



SP3

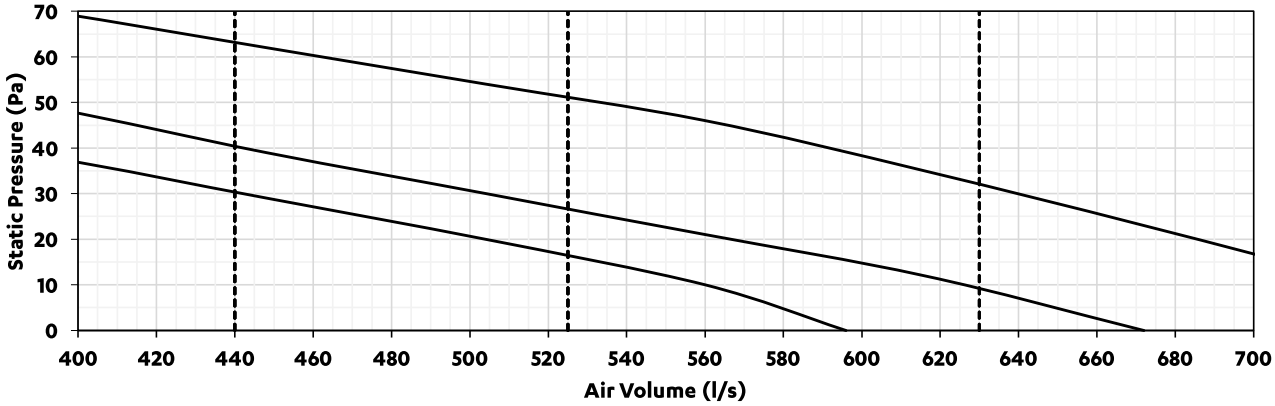


SP4

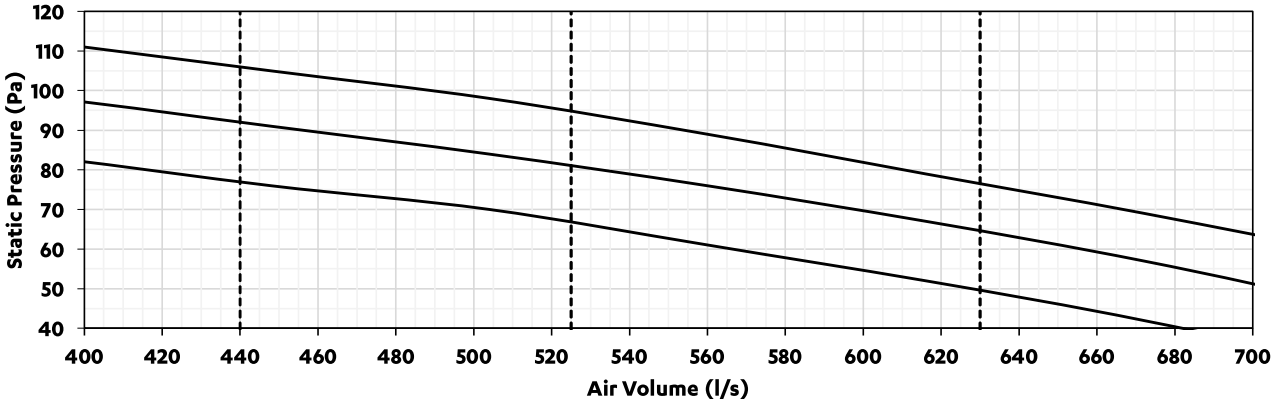


LRE-100 With Filter

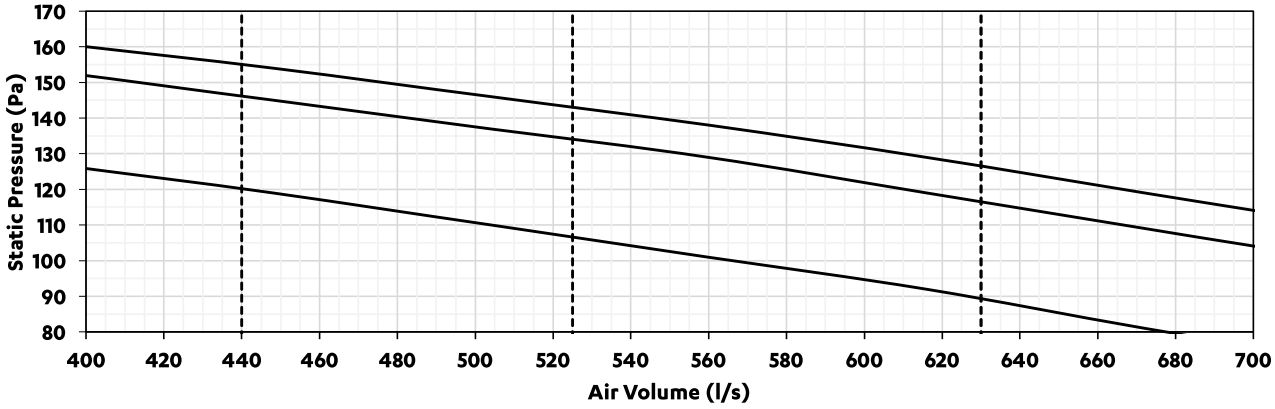
SP1



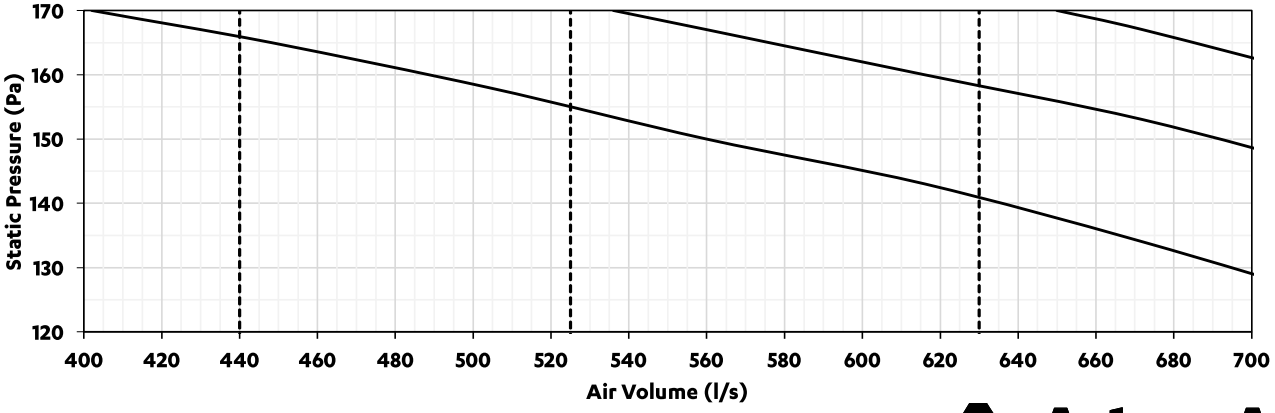
SP2



SP3

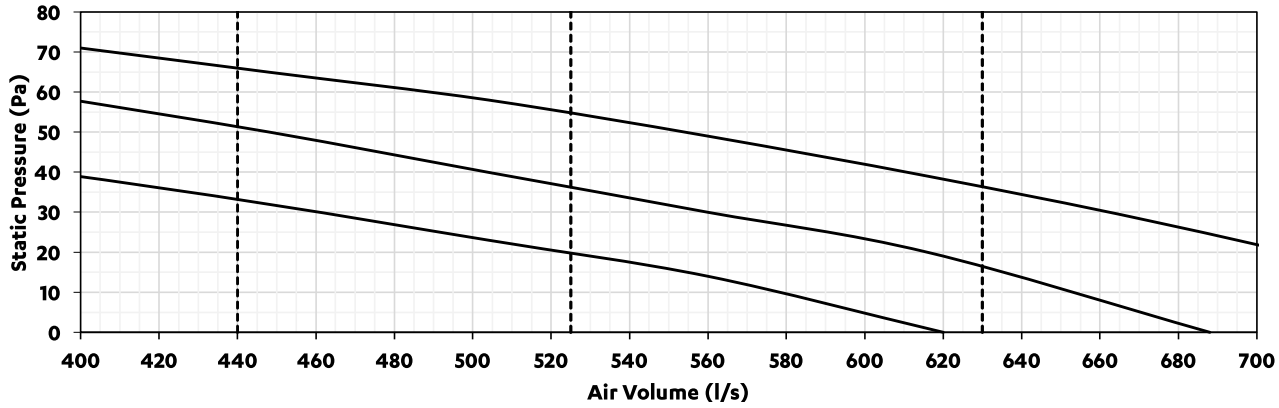


SP4

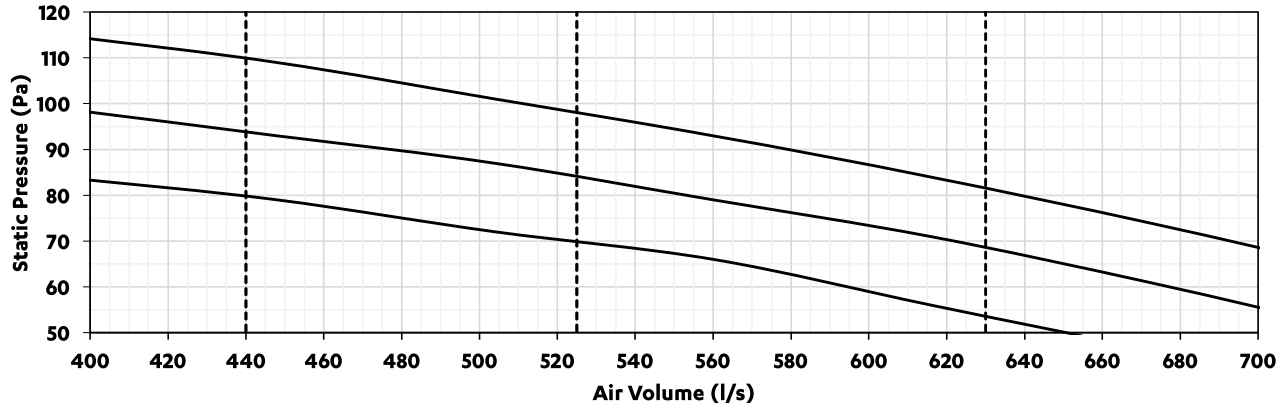


LRE-100 Without Filter

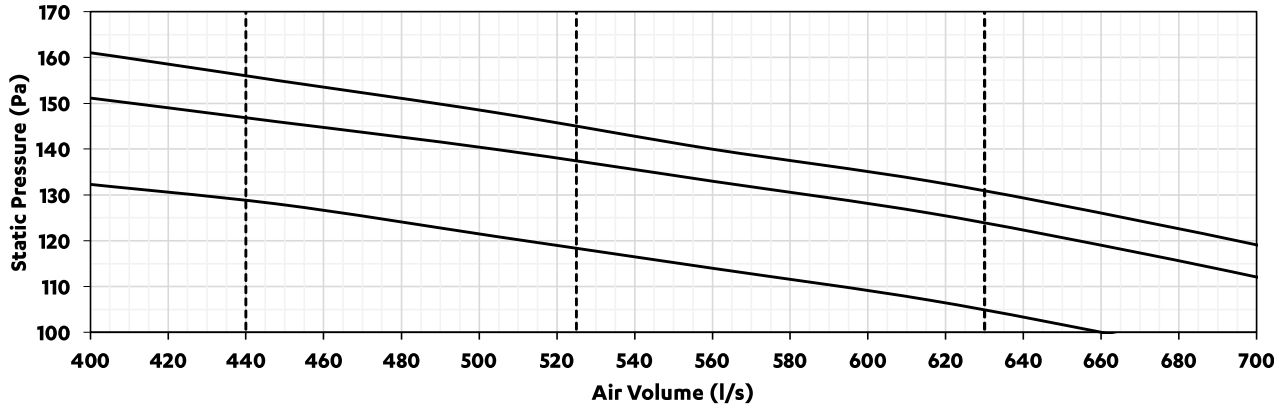
SP1



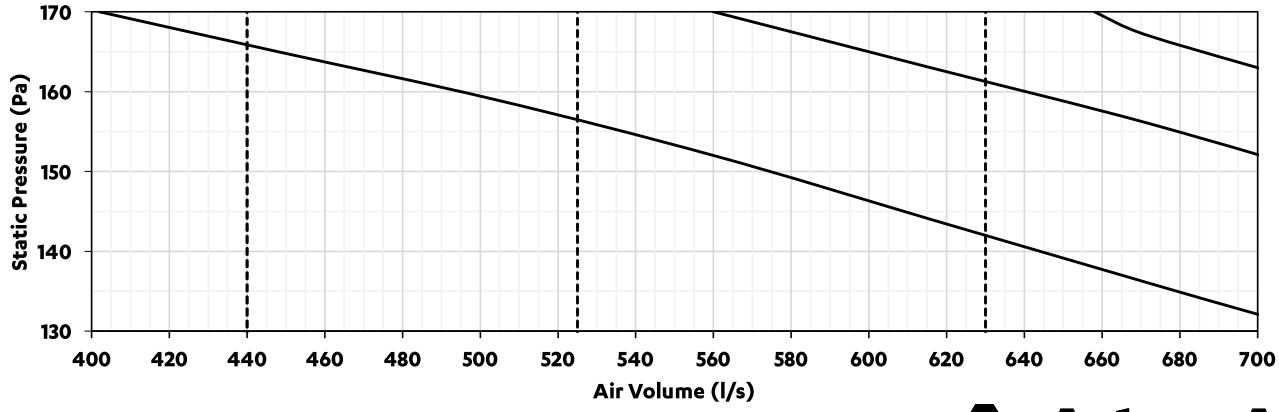
SP2



SP3

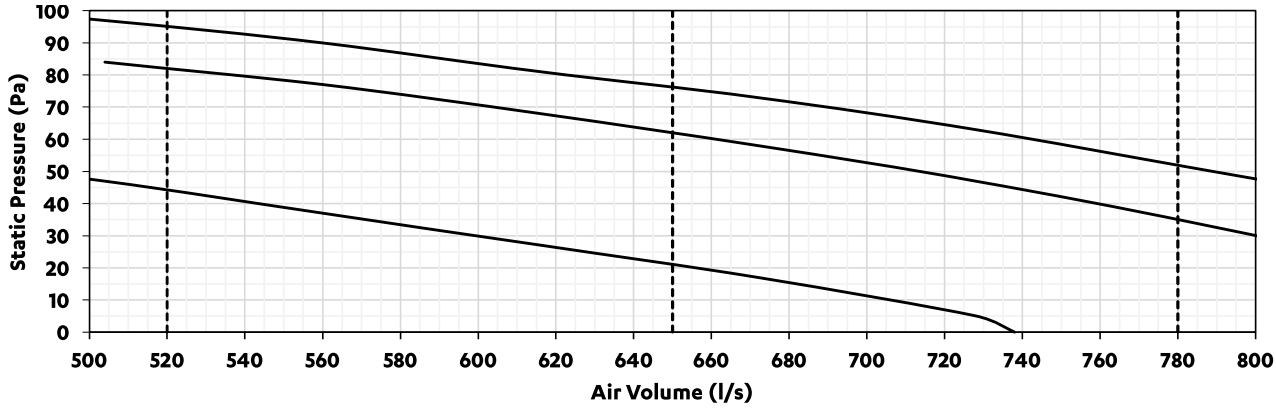


SP4

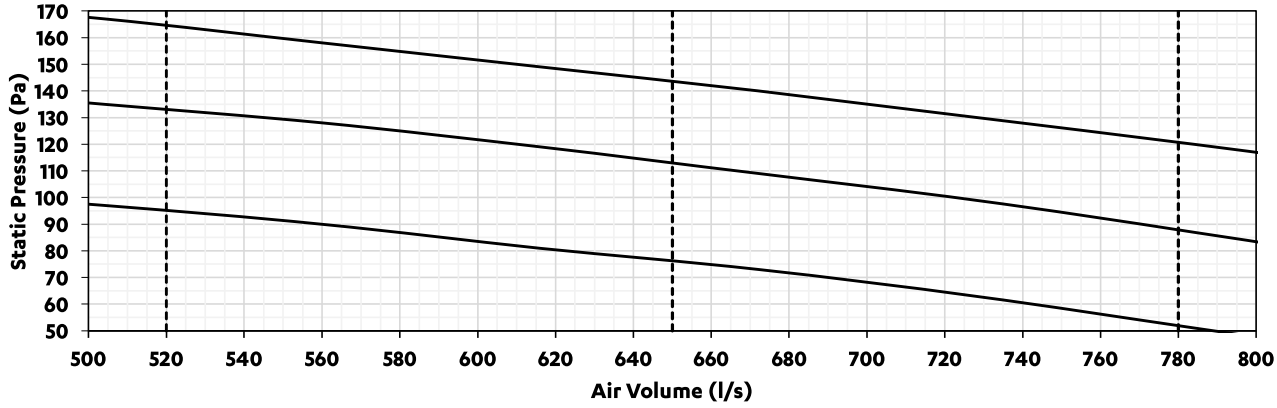


LRE-125 With Filter

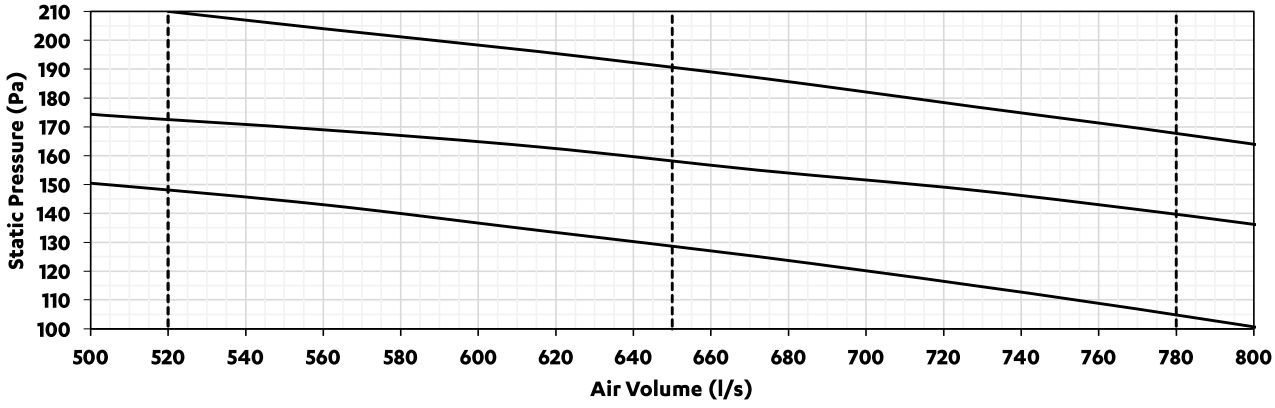
SP1



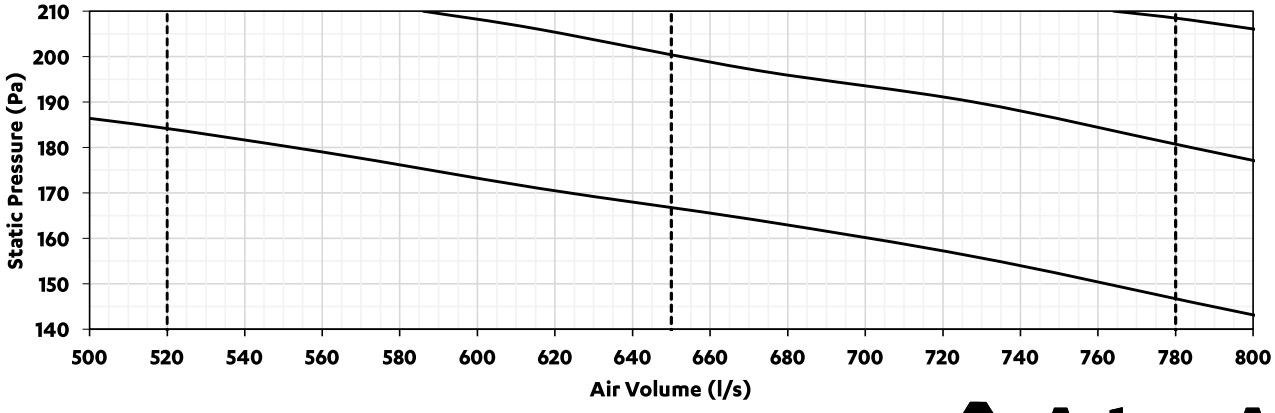
SP2



SP3

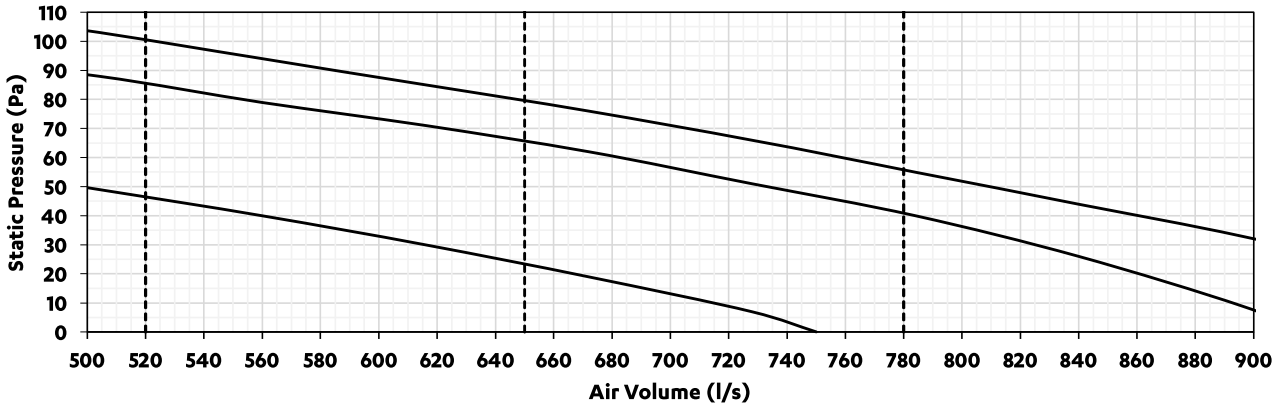


SP4



LRE-125 Without Filter

SP1



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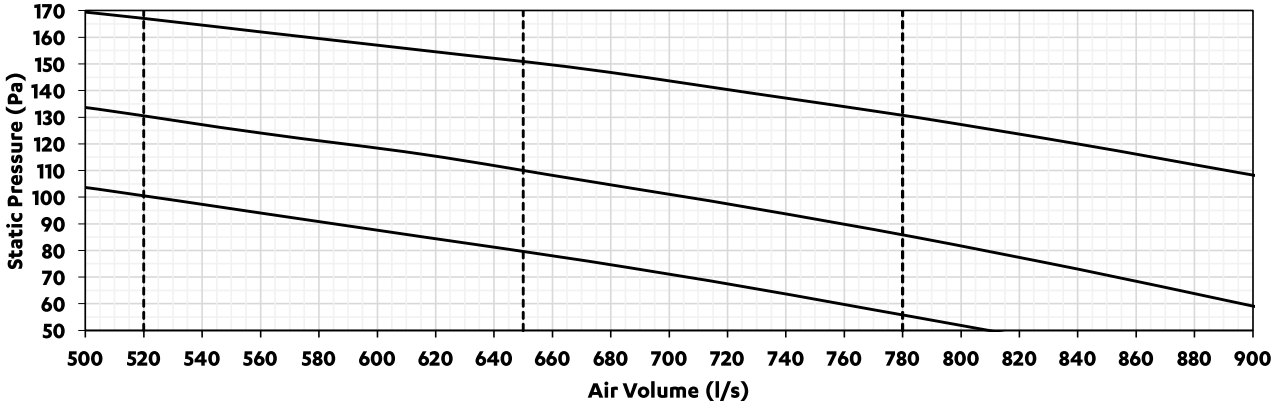

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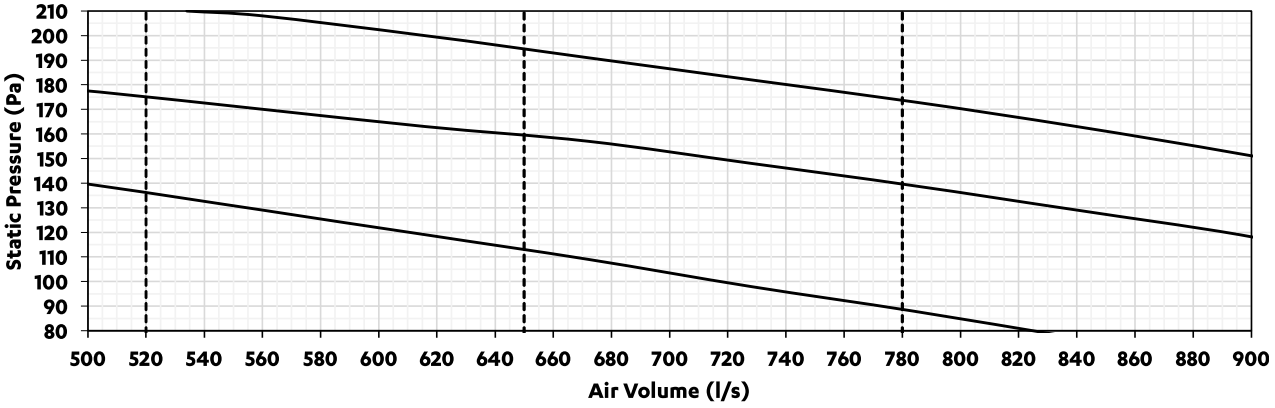

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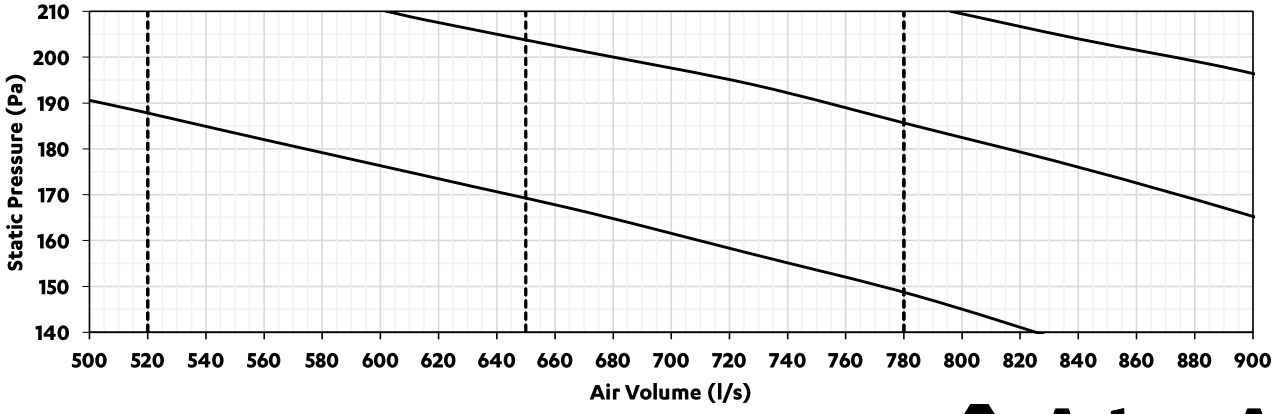

LRE-140 With Filter

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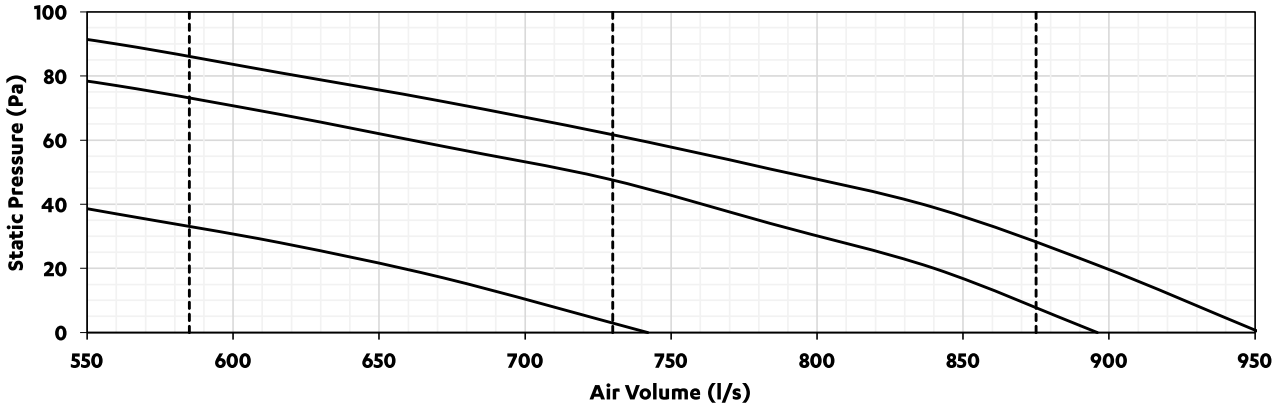

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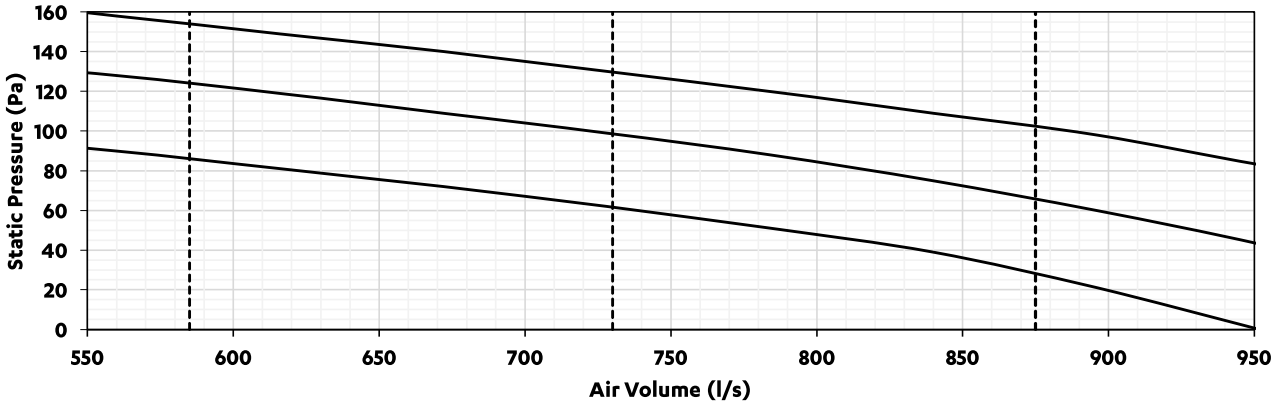

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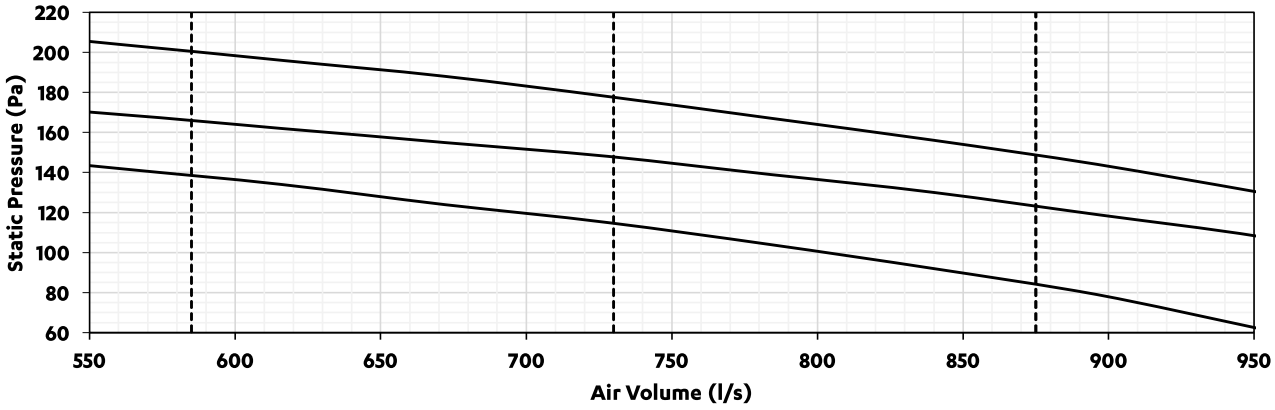

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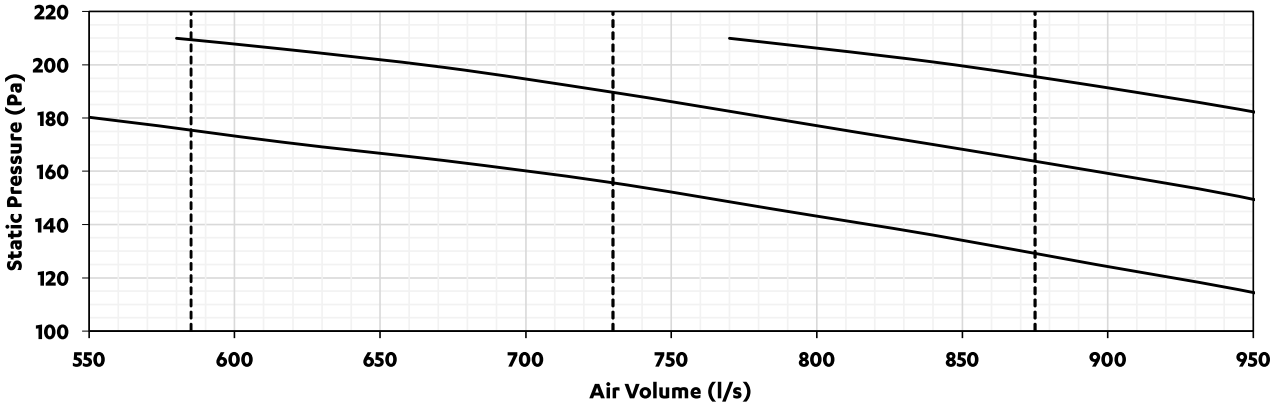
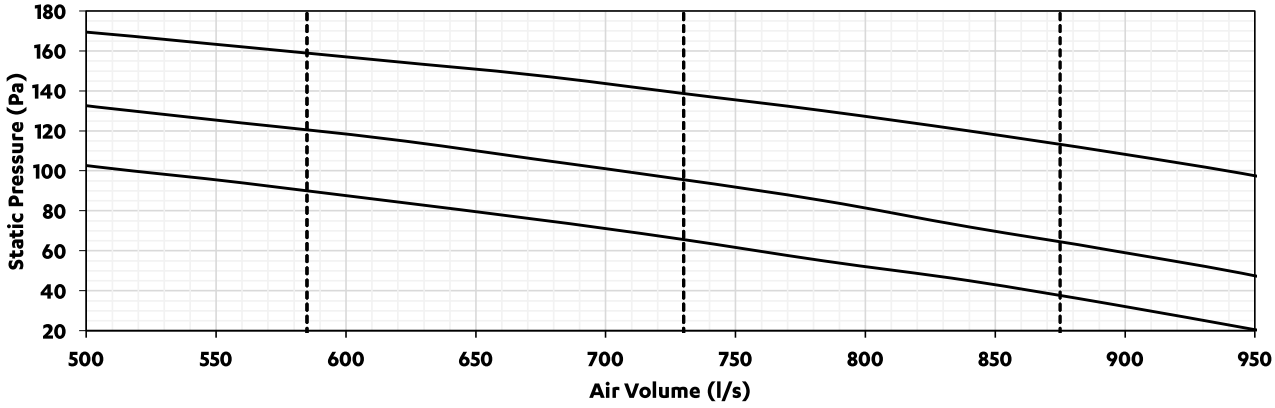


LRE-140 Without Filter

SP1



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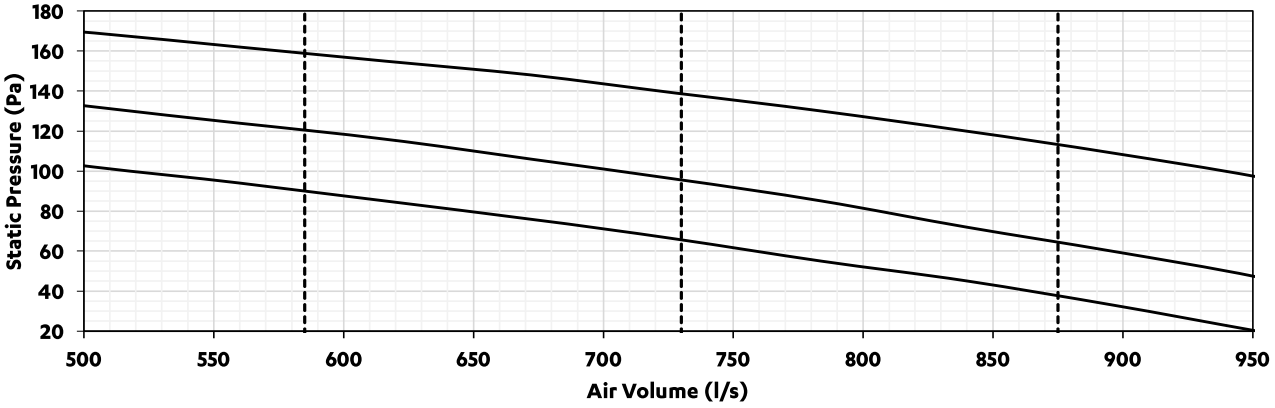

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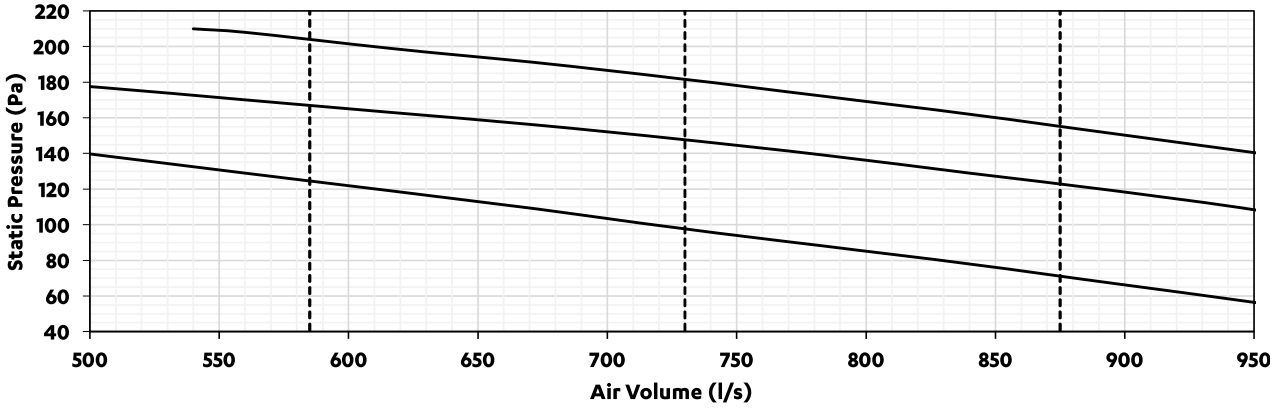

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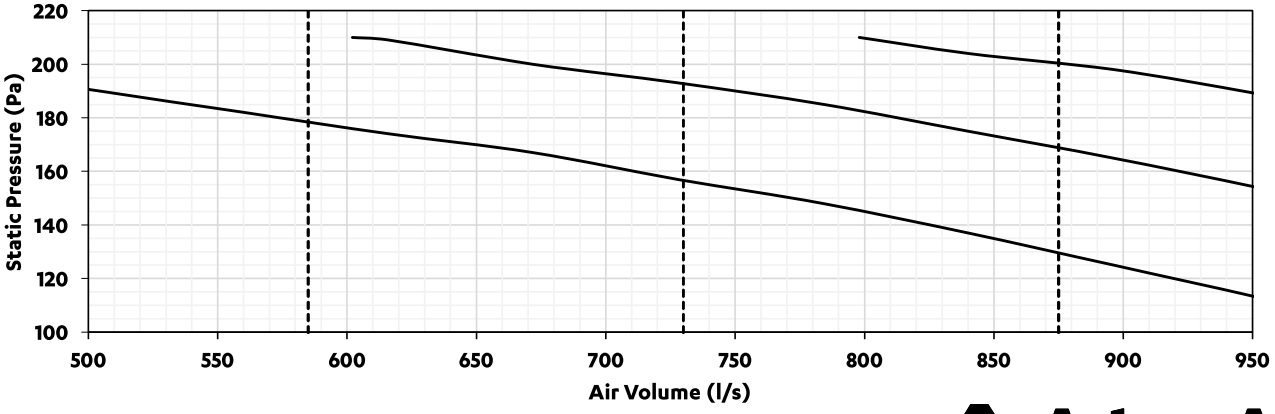
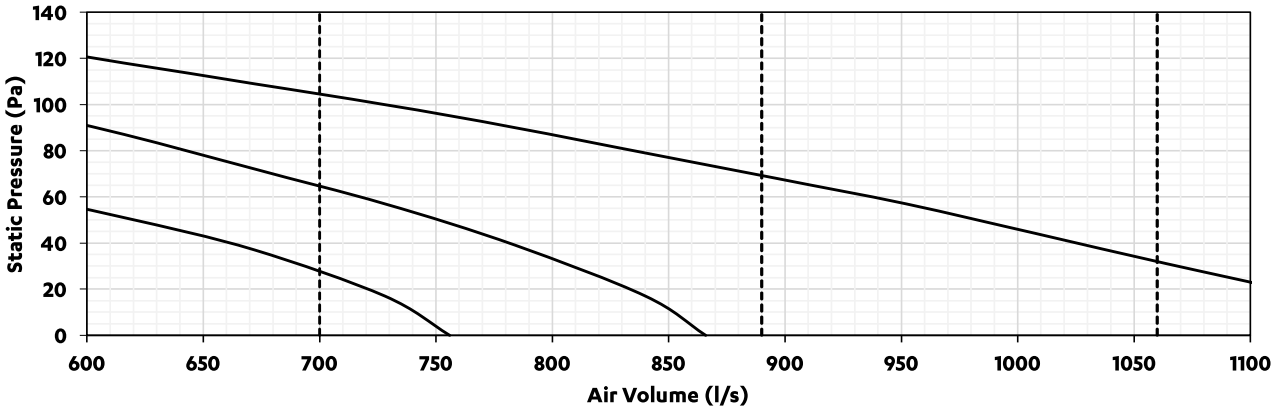


LRE-170 With Filter

SP1



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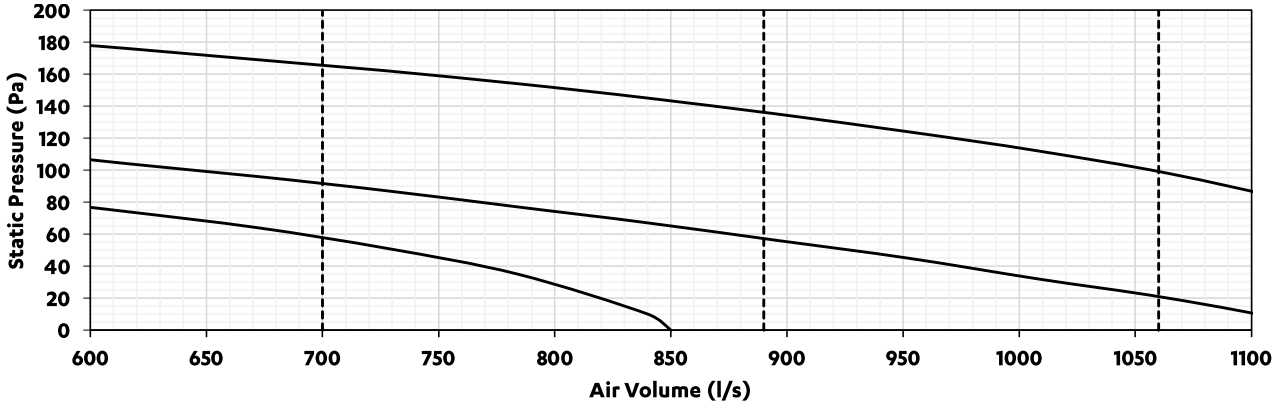

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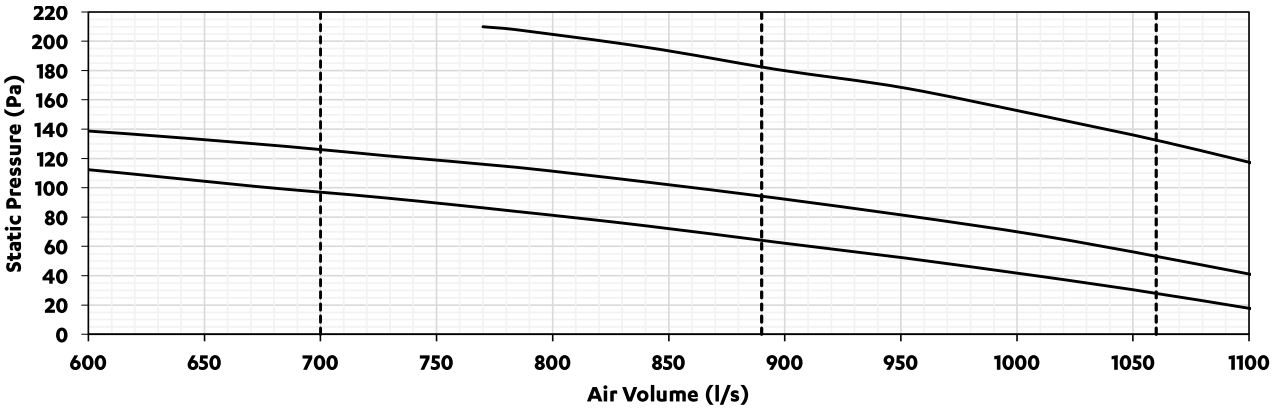

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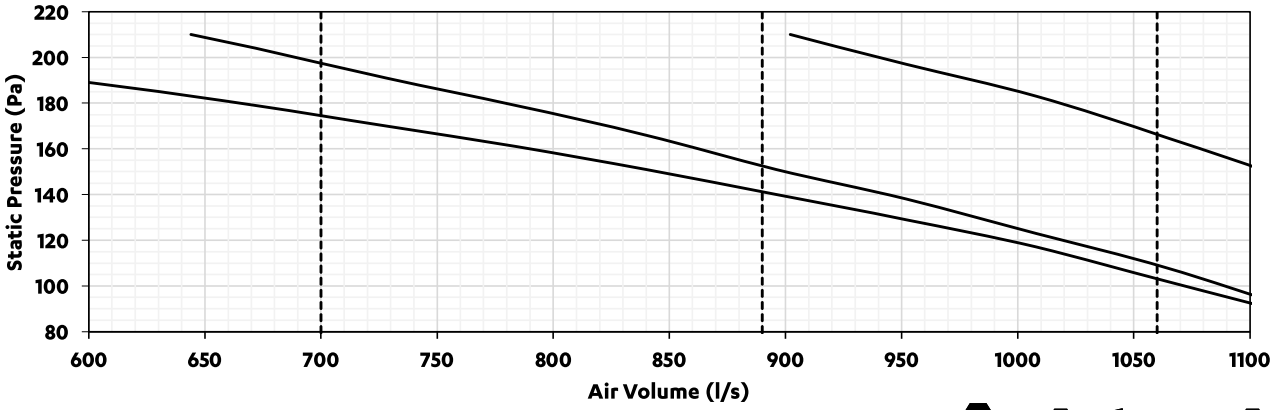

LRE-170 Without Filter

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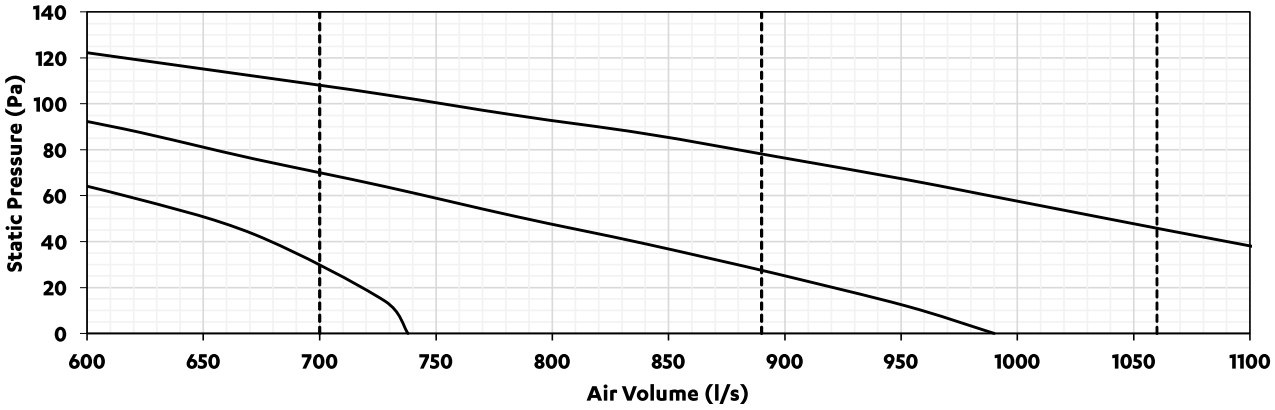

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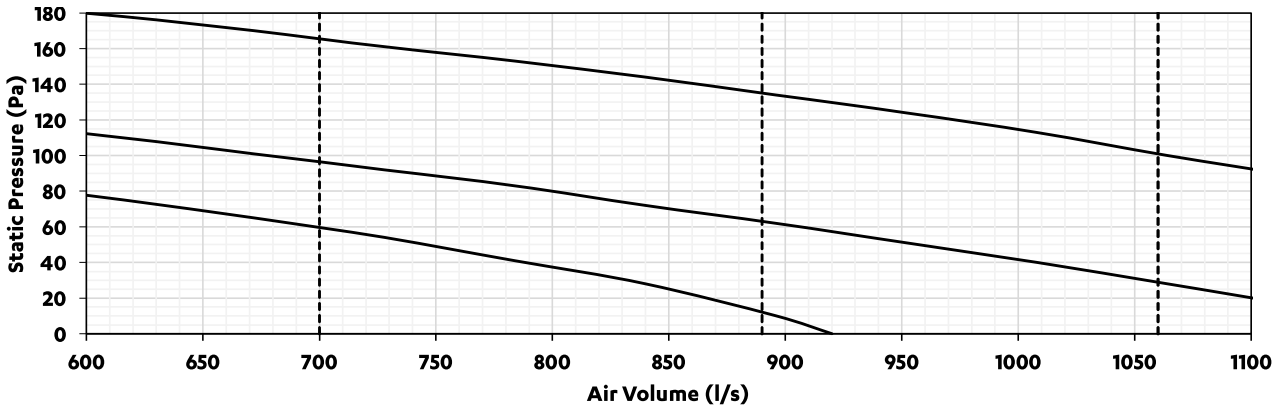

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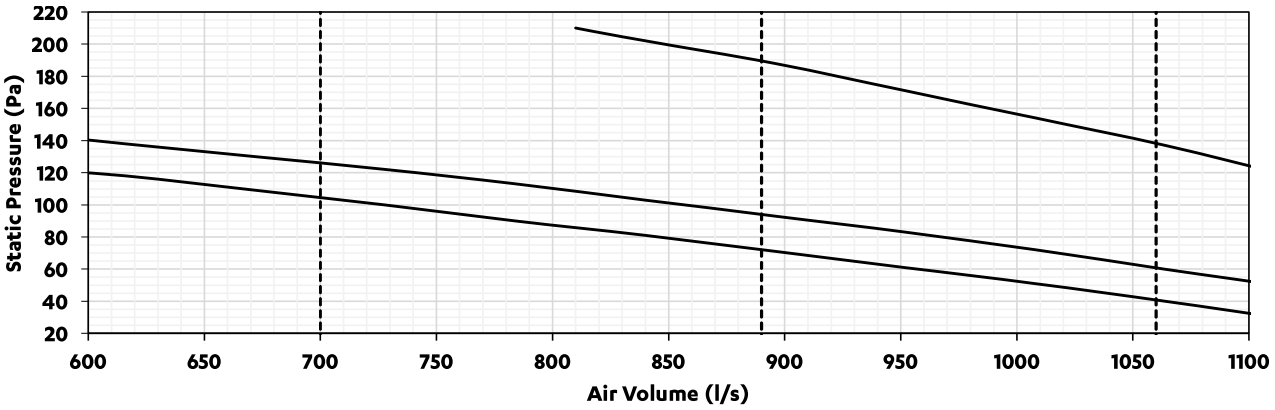

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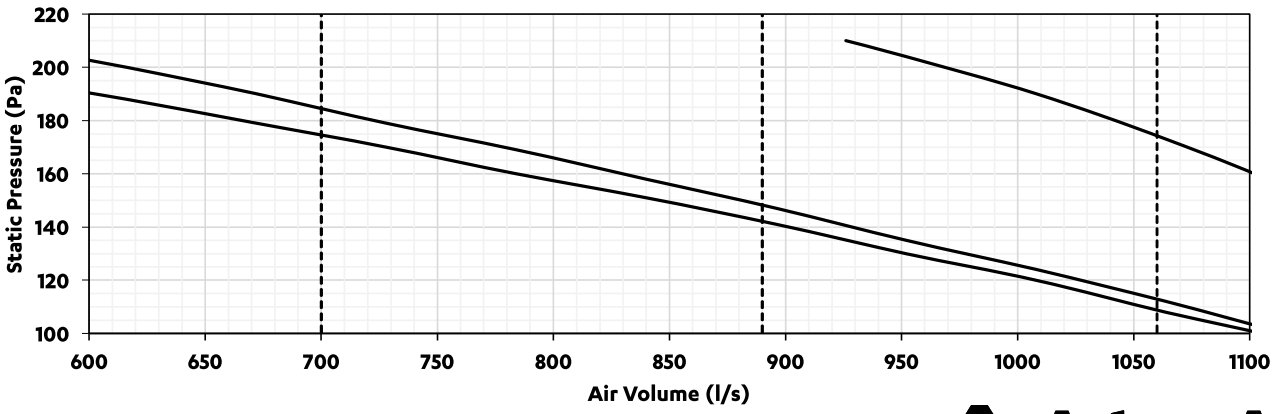
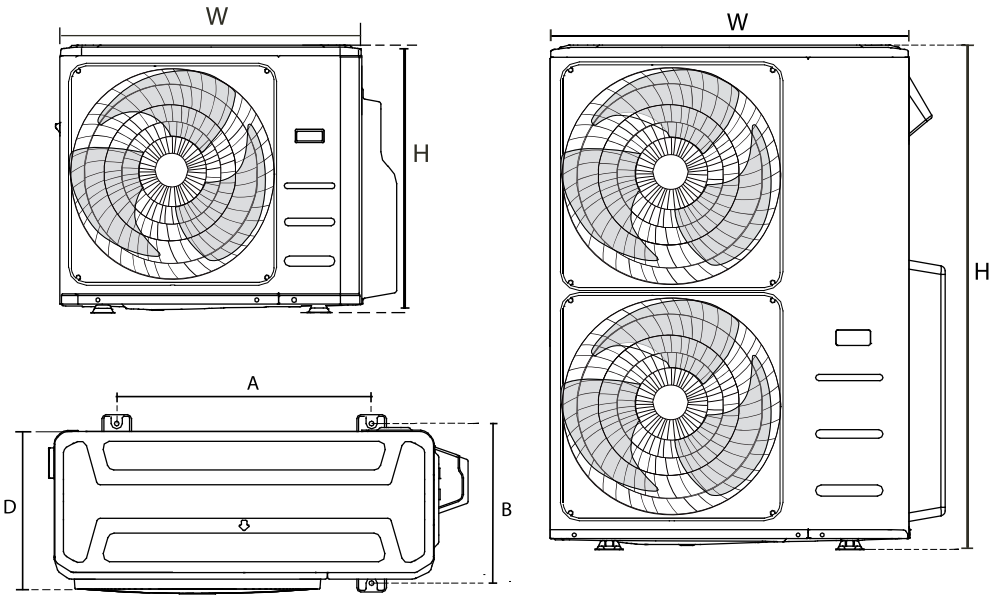


UNIT AND MOUNTING DIMENSIONS

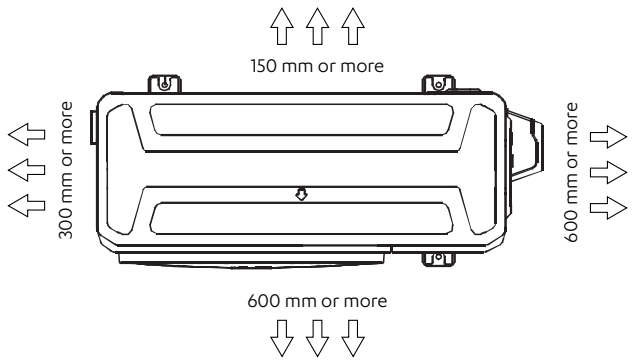
ULTRASLIM

OUTDOOR UNITS : LRC-071CS / LRC-100CS / URC-125CS / URC-140CS / LRC-170CS



Model Number	Outdoor Unit Dimensions H x W x D	Mounting Dimensions (Centre to Centre)	
		A (mm)	B (mm)
LRC-071CS	673 x 890 x 342	663	348
LRC-100CS	810 x 946 x 410	673	403
URC-125CS URC-140CS LRC-170CS	1333 x 952 x 415	634	404

SERVICE ACCESS AREAS / AIRFLOW ALLOWANCES



HEIGHT CLEARANCE = 600 mm or more

NOTES:

THIRD ANGLE PROJECTION

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 walkaway 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.

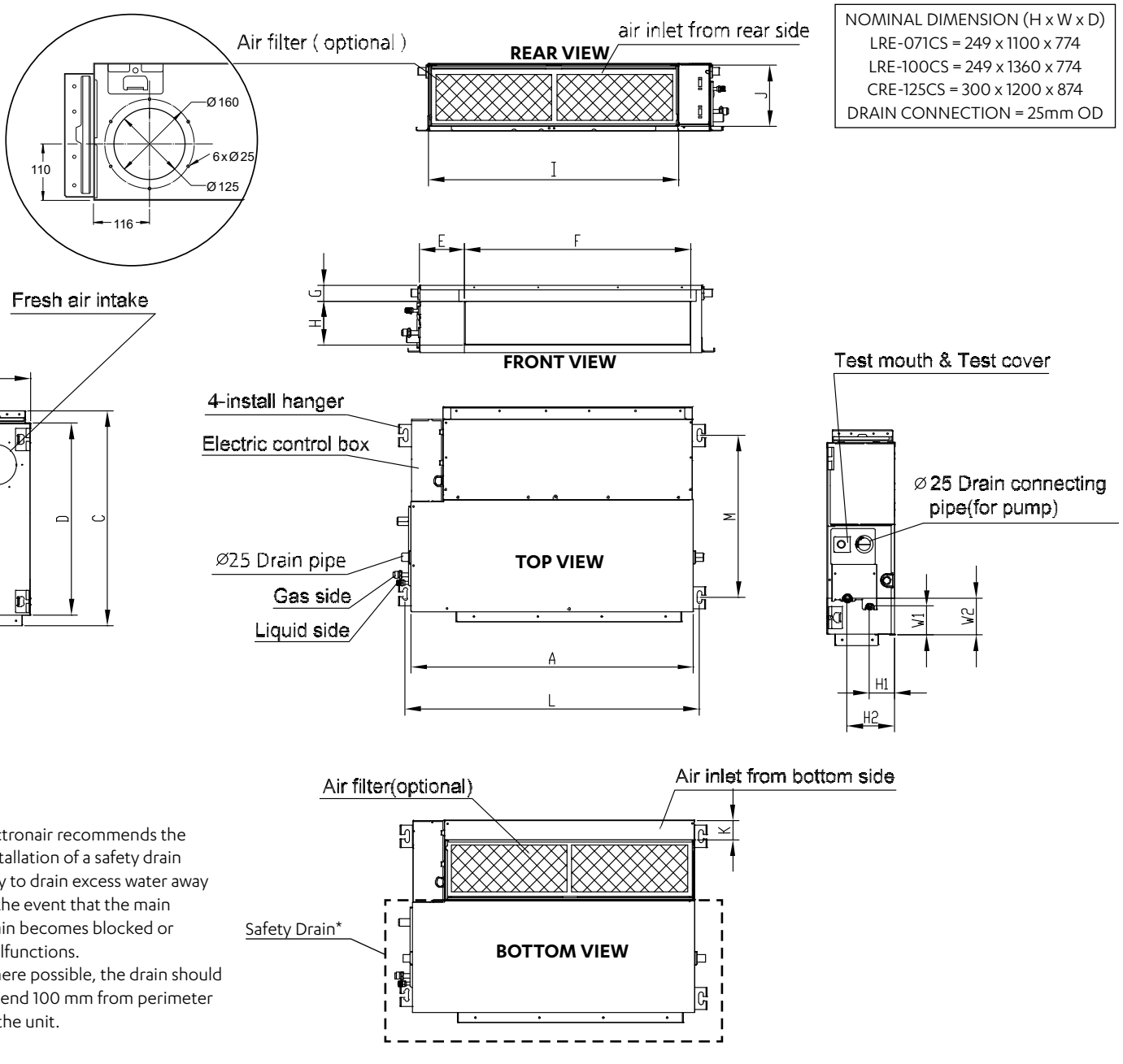
ActronAir

UNIT AND MOUNTING DIMENSIONS

ULTRASLIM

INDOOR UNITS : LRE-071CS / LRE-100CS / LRE-125CS

NOMINAL DIMENSION (H x W x D)
LRE-071CS = 249 x 1100 x 774
LRE-100CS = 249 x 1360 x 774
CRE-125CS = 300 x 1200 x 874
DRAIN CONNECTION = 25mm OD



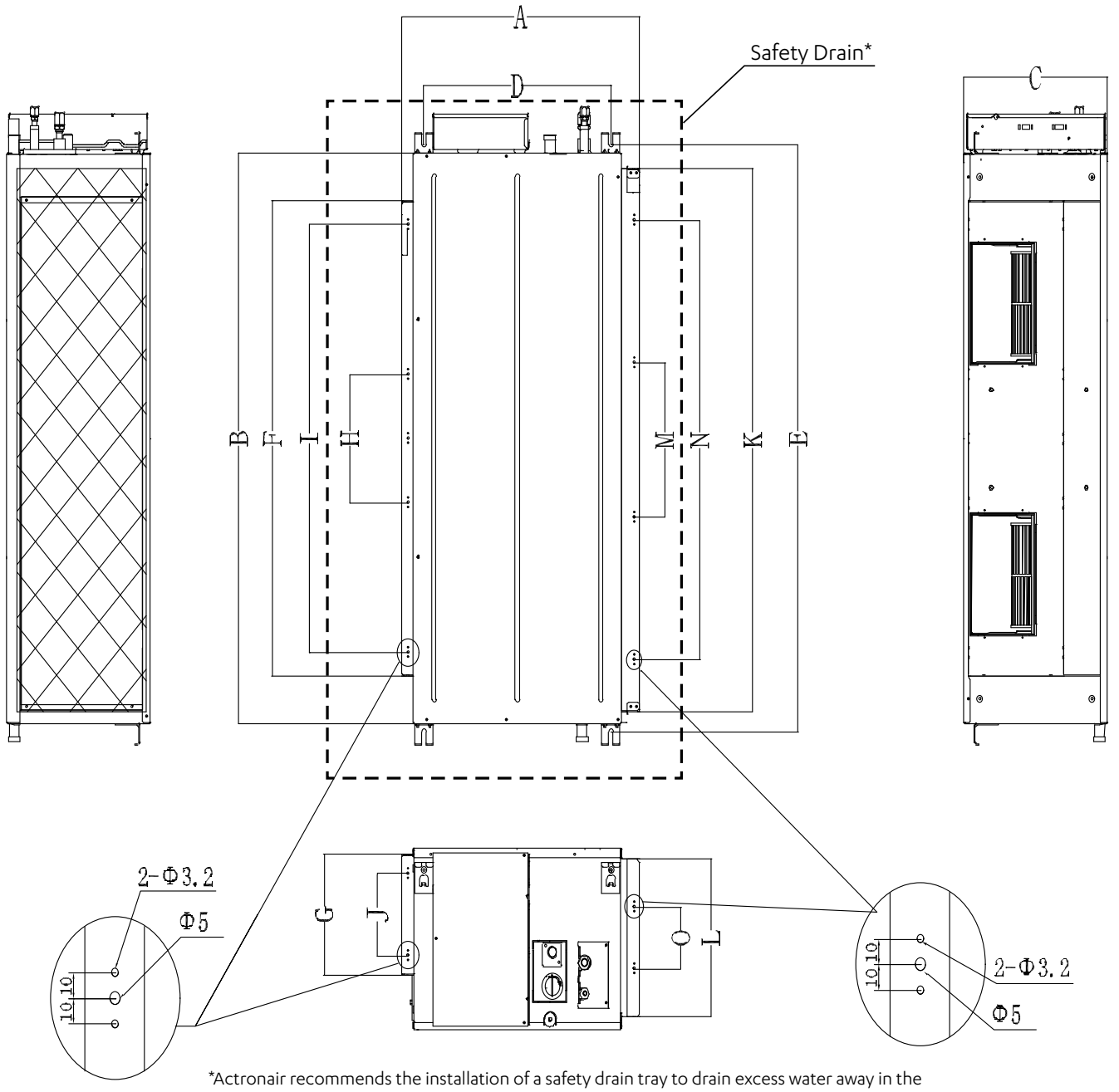
*Actronair recommends the installation of a safety drain tray to drain excess water away in the event that the main drain becomes blocked or malfunctions.
Where possible, the drain should extend 100 mm from perimeter of the unit.

Dimensions (mm)																	
Model	A	B	C	D	E	G	SUPPLY DUCT		RETURN DUCT		K	L	M	H1	H2	W1	W2
							F	H	I	J							
LRE-071CS	1100	249	774	700	140	50	**926**	**175**	**1001**	**228**	5	1140	598	80	150	130	155
LRE-100CS	1360	249	774	700	140	50	**1186**	**175**	**1261**	**228**	5	1400	598	80	150	130	155
LRE-125CS	1200	300	874	800	123	50	**1044**	**227**	**1101**	**280**	5	1240	697	80	150	185	210

UNIT AND MOUNTING DIMENSIONS

ULTRASLIM

INDOOR UNITS : LRE-140CS / LRE-170CS



*Actronair recommends the installation of a safety drain tray to drain excess water away in the event that the main drain becomes blocked or malfunctions.
Where possible, the drain should extend 100 mm from perimeter of the unit.

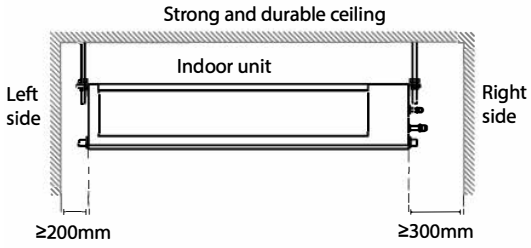
Dimensions (mm)															
Model	Outline dimension			Unit Mounting		**SUPPLY DUCT**		Duct Outlet mounting			**RETURN DUCT**		Duct Outlet mounting		
	A	B	C	D	E	**F**	**G**	H	I	J	**K**	**L**	M	N	O
LRE-140CS	625	1200	380	495	1236	**1000**	**253**	270	900	170	**1145**	**334**	325	925	130
LRE-170CS	858	1400	440	700	1436	**1188**	**385**	500	1000	280	**1188**	**385**	500	1000	280

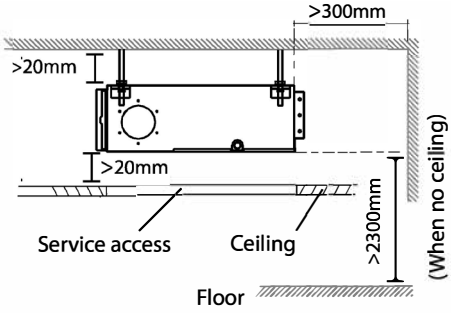
SERVICE ACCESS AREAS / AIRFLOW ALLOWANCES — ULTRASLIM

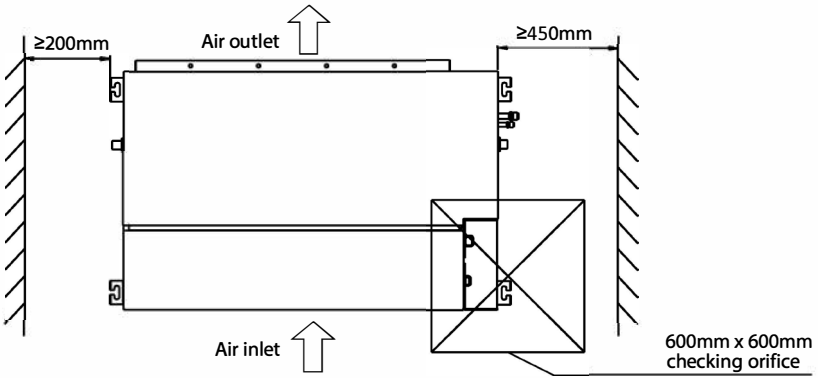
NOTE

It is strongly encouraged to have a removable service access panel underneath the indoor unit to carry out maintenance and repair.

INDOOR UNITS : LRE-071CS / LRE-100CS / LRE-125CS



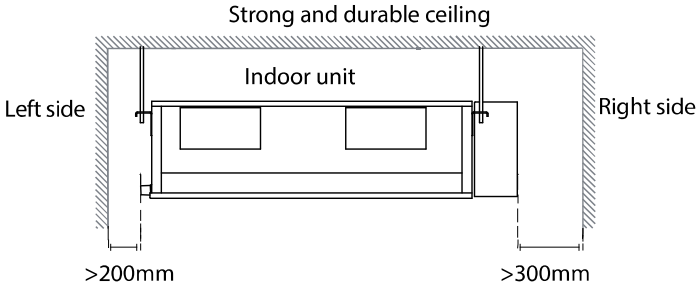


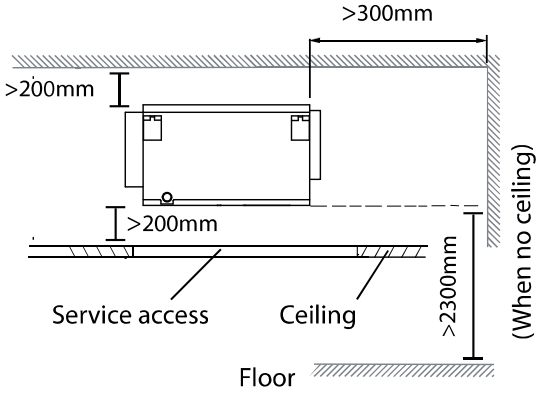


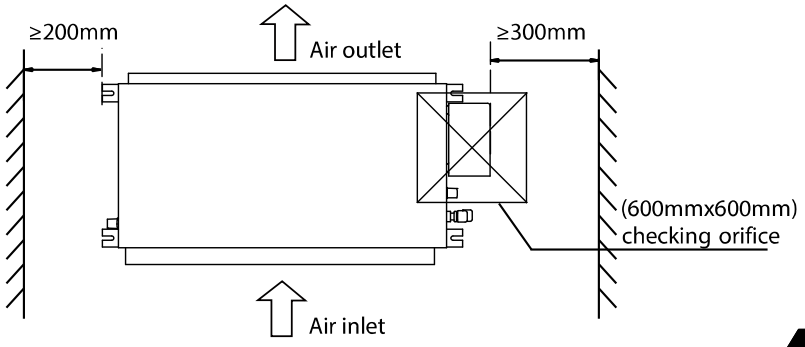
NOTE

It is strongly encouraged to have a removable service access panel underneath the indoor unit to carry out maintenance and repair.

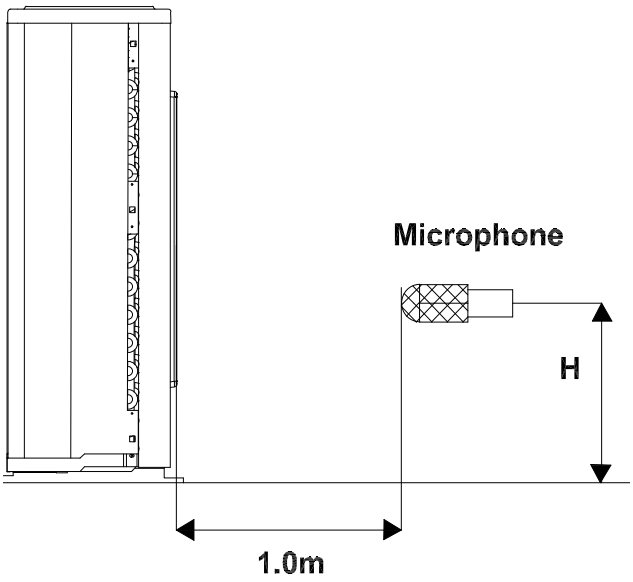
INDOOR UNITS : LRE-140CS / LRE-170CS







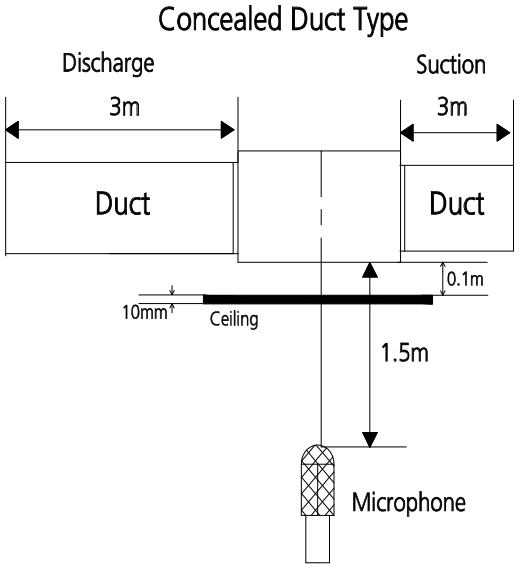
OUTDOOR UNITS :



Model	LRC-071CS	LRC-100CS	URC-125CS	URC-140CS	LRC-170CS
Sound Pressure Level dB(A) 1m	60				60.5

Note: H= 0.5 × height of outdoor unit

INDOOR UNITS :



Model	Sound Pressure Level dB(A) (Low / Med / High)
LRE-071CS	38.5 / 35.5 / 32.5
LRE-100CS	45.0 / 42.0 / 39.5
LRE-125CS	50.0 / 48.0 / 46.0
LRE-140CS	46.5 / 43.5 / 40.0
LRE-170CS	53.0 / 49.5 / 45.3

NOTE

1. Sound measured at 1.5m away from the center of the Indoor unit and 1.0m away from the center of the Outdoor unit..
2. Data is valid at free field condition.
3. Data is valid at nominal operation condition.
4. Reference acoustic pressure OdB = 20μPa.
5. Sound level will vary depending on a range of factors such as the construction -(acoustic absorption coefficient) of particular room in which the equipment is installed.
6. The operating conditions are assumed to be standard.

SPECIFICATIONS

MODEL NUMBERS	LRC-071CS	LRC-100CS	URC-125CS	URC-140CS	LRC-170CS
REFRIGERATION SYSTEM					
REFRIGERANT TYPE	R-32				
FACTORY CHARGE (grams)	1750	2600	3600		4000
PRE-CHARGE LENGTH (m)	20				
ADDITIONAL REFRIGERANT CHARGE (g/m)	24				
DESIGN PRESSURE - High / Low (Mpa)	4.3 / 1.7				
INTERCONNECTING PIPE					
MIN. FIELD PIPE LENGTH (m)	3				
MAX. FIELD PIPE LENGTH (m)	50	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)	Ø15.9 (5/8")				Ø19.05 (3/4")
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)	2.5	4.0	6.0		
CABLE SIZE - Indoor to Outdoor Wire (mm^2)	1.0				
CIRCUIT BREAKER (Amps)	20.0	25.0	32.0		

MODEL NUMBERS		LRC-071CS	LRC-100CS	URC-125CS	URC-140CS	LRC-170CS
NOMINAL DIMENSIONS	Depth (mm)	342	410	415		
	Height (mm)	673	810	1333		
	Width (mm)	890	946	952		
NOMINAL WEIGHT (kg)		45	70.1	95.1	95.1	95.8
PIPE CONNECTIONS	Liquid Pipe -mm (inch)	Ø9.52 (3/8")				
	Gas Pipe - mm (inch)	Ø15.9 (5/8")				Ø19.05 (3/4")
OUTDOOR COIL						
TUBE TYPE		Copper Ø7mm, inner groove tube	Copper Ø9.52mm, inner groove tube	Copper Ø7mm, inner groove tube		
FIN TYPE		Hydrophilic Aluminum				
FACE AREA (m^2)		0.55	0.76	0.62		
FIN SPACING (mm)		1.3		1.2		
OUTDOOR FAN						
NUMBER OF FANS x TYPE		1 x Axial Fan		2 x Axial Fan		
INPUT (W)		150		126		
COMPRESSOR						
NUMBER OF FANS x TYPE		1 x Inverter Twin-Rotary				
STARTING METHOD		DC Inverter Starter				
INPUT (W)						
REFRIGERANT OIL (Type / Charge in ml)		ESTER OIL VG74 / 670ml	ESTER OIL VG74 / 1000ml	ESTER OIL VG74 / 1400ml		
PROTECTION		External Thermal Cut-Out				

SPECIFICATIONS

INDOOR MODEL NUMBERS		LRE-071CS	LRE-100CS	LRE-125CS	LRE-140CS	LRE-170CS
NOMINAL DIMENSIONS	Depth (mm)	774	774	874	625	858
	Height (mm)	249	249	300	380	440
	Width (mm)	1100	1360	1200	1200	1400
NOMINAL WEIGHT (kg)		31.6	39.9	47	53.3	81.1
PIPE CONNECTIONS	Liquid Pipe -mm (inch)	Ø9.52 (3/8")				
	Gas Pipe - mm (inch)	Ø15.9 (5/8")				Ø19.05 (3/4")
INDOOR COIL						
TUBE TYPE		Copper Ø7mm, inner groove tube			Copper Ø9.52mm, inner groove tube	
FIN TYPE		Hydrophilic Aluminum				
FACE AREA (m^2)		0.27	0.34	0.39	0.38	0.54
FIN SPACING (mm)		1.4		1.5		
INDOOR FAN						
NUMBER OF FANS x TYPE		1 x Cross - flow fan				
INPUT (W)		90	250	560		420
FULL LOAD AMPS		1.5	2.8			3.0
AIRFLOW (l/s) - Hi / Med / Lo		450/370/300	630/525/440	780/650/520	875/730/585	1060/890/700
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

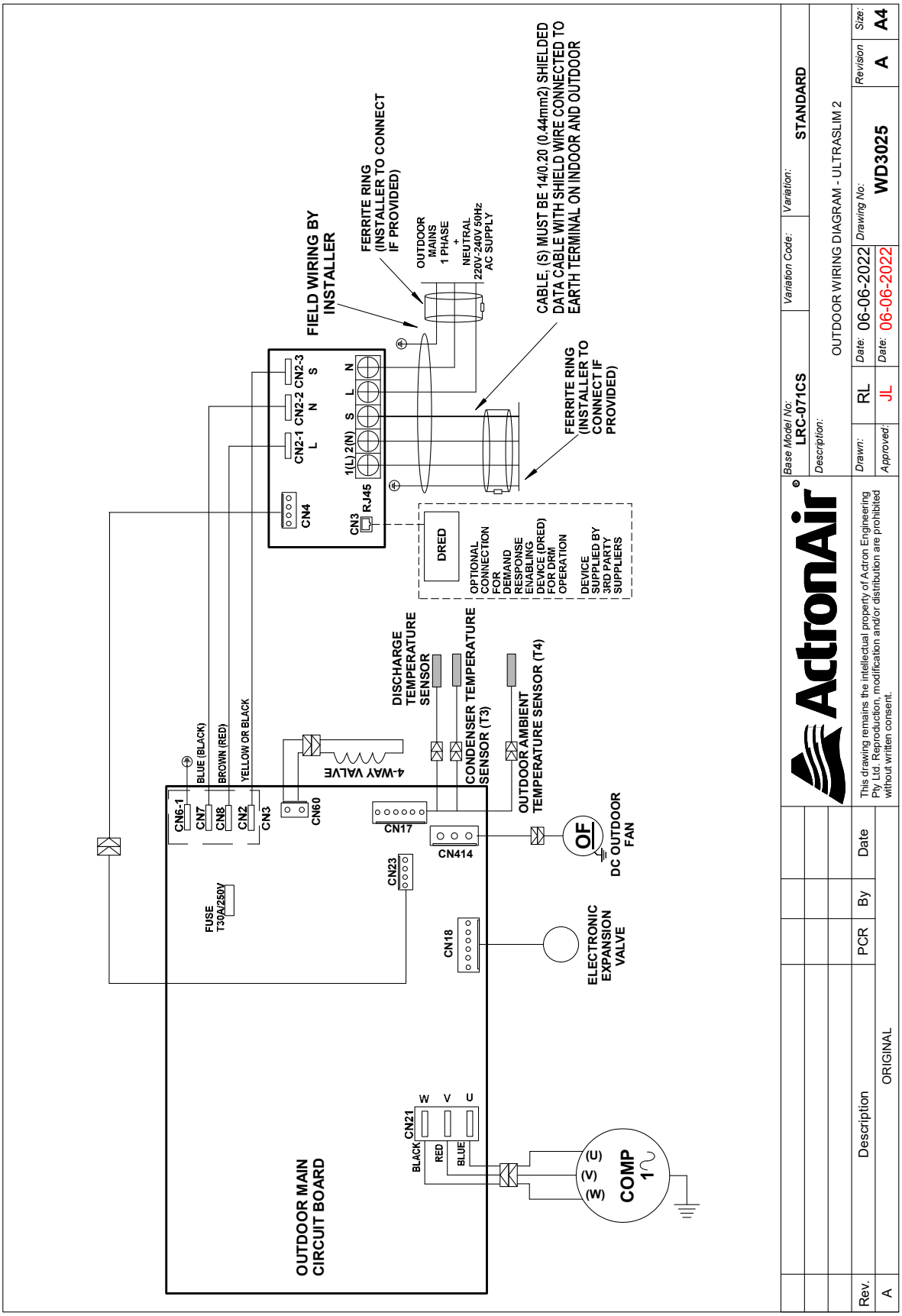
It is essential that the unit is correctly sized for the application and operates within its recommended range of operating conditions as shown below.

MODE	RANGE	INDOOR OPERATING TEMPERATURE	OUTDOOR AIR INTAKE TEMPERATURE
COOLING	Maximum	32°C DB	50°C DB
	Minimum	17°C DB	-15°C DB
HEATING	Maximum	30°C DB	30°C DB
	Minimum	0°C DB	-25°C DB
DRY	Maximum	32°C DB	50°C DB
	Minimum	10°C DB	0°C DB

WIRING DIAGRAM

OUTDOOR

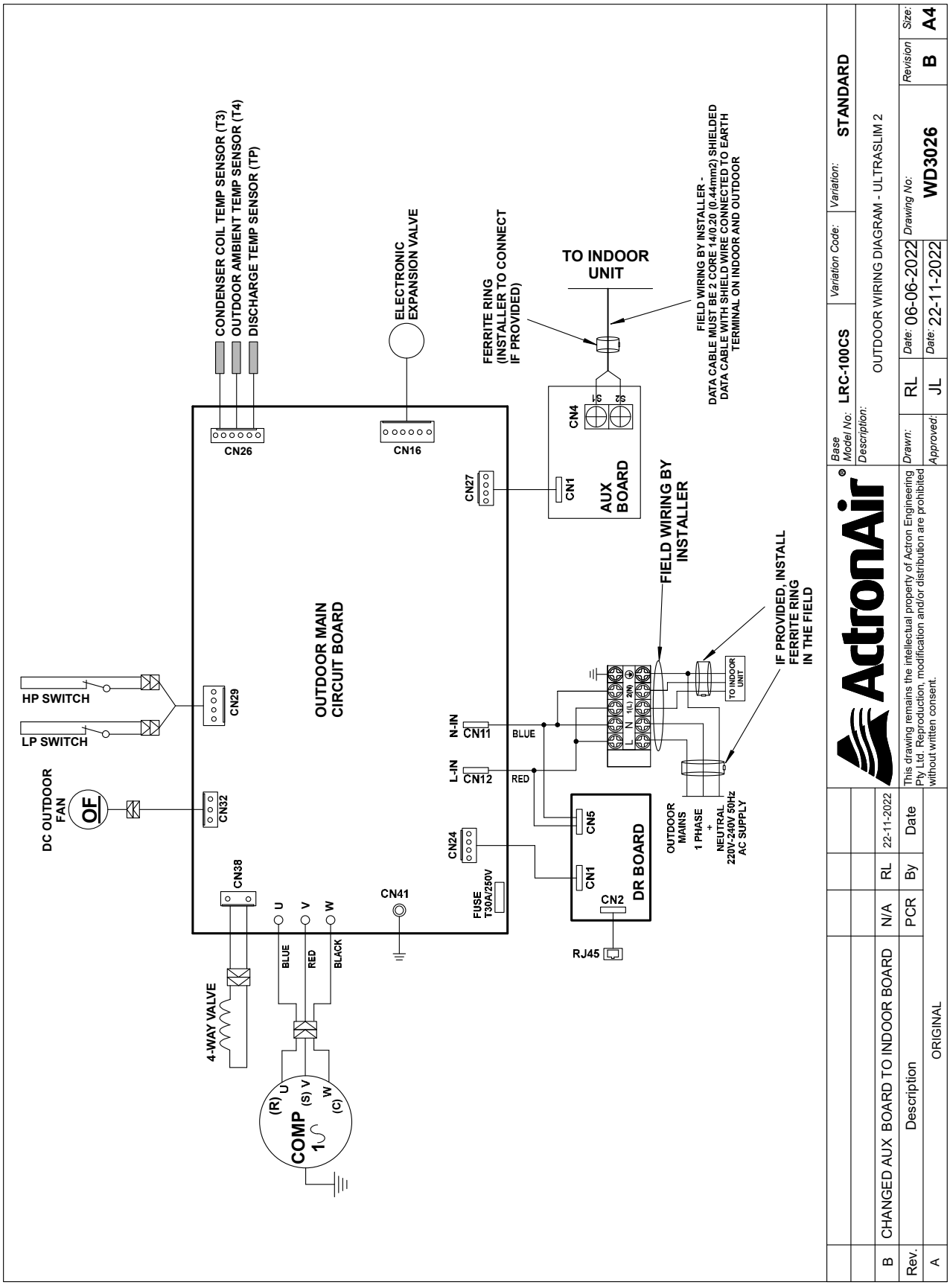
LRC-071CS



WIRING DIAGRAM

OUTDOOR

LRC-100CS



Rev.	Description	By	Date
B	CHANGED AUX BOARD TO INDOOR BOARD	RL	22-11-2022
A	ORIGINAL	PCR	N/A

ActronAir®

Base Model No: LRC-100CS | Variation Code: | Variation: STANDARD

Description: OUTDOOR WIRING DIAGRAM - ULTRASLIM 2

Drawn: RL | Date: 06-06-2022 | Drawing No: WD3026 | Revision: B | Size: A4

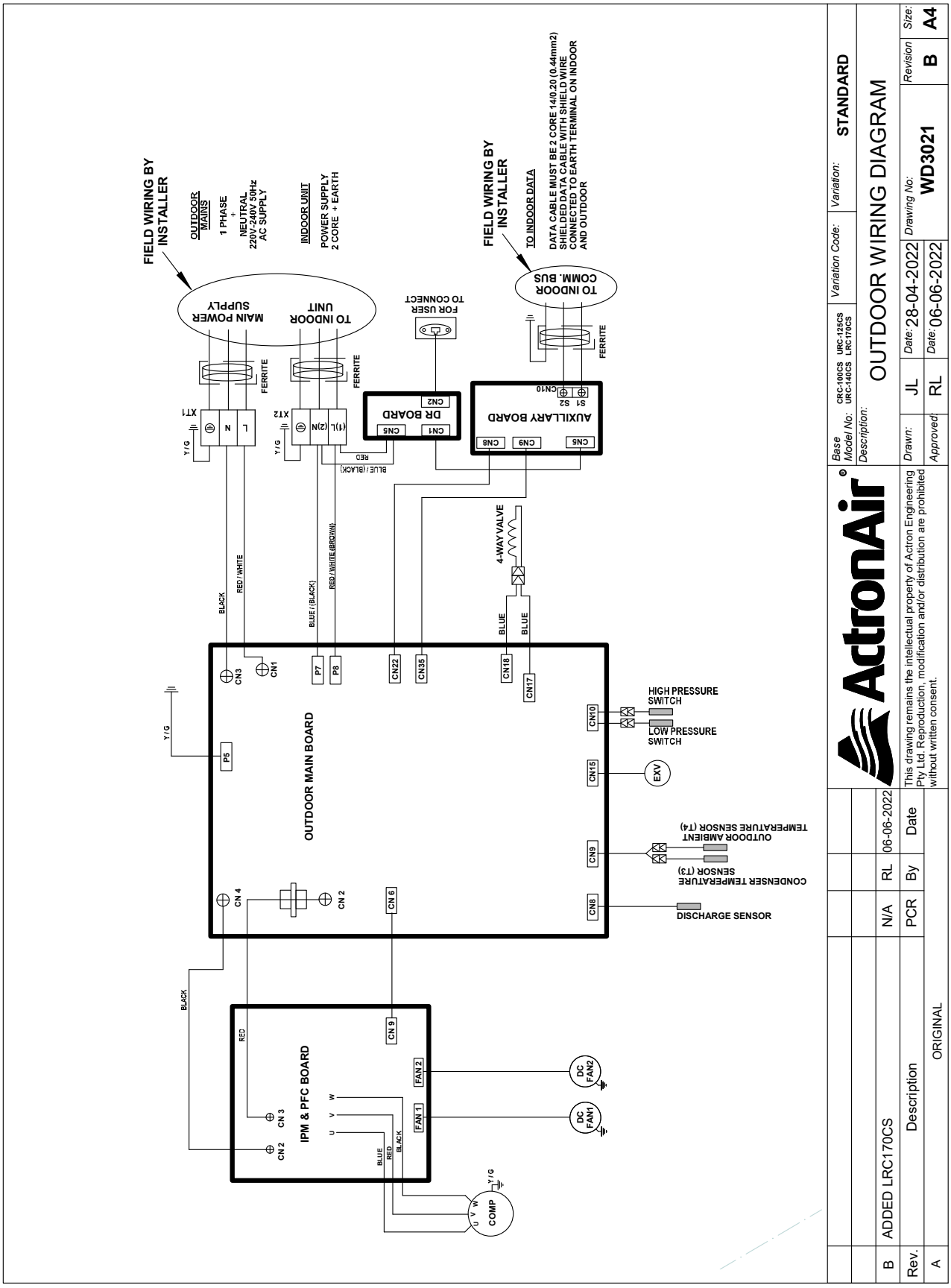
Approved: JL | Date: 22-11-2022

ActronAir

WIRING DIAGRAM

OUTDOOR

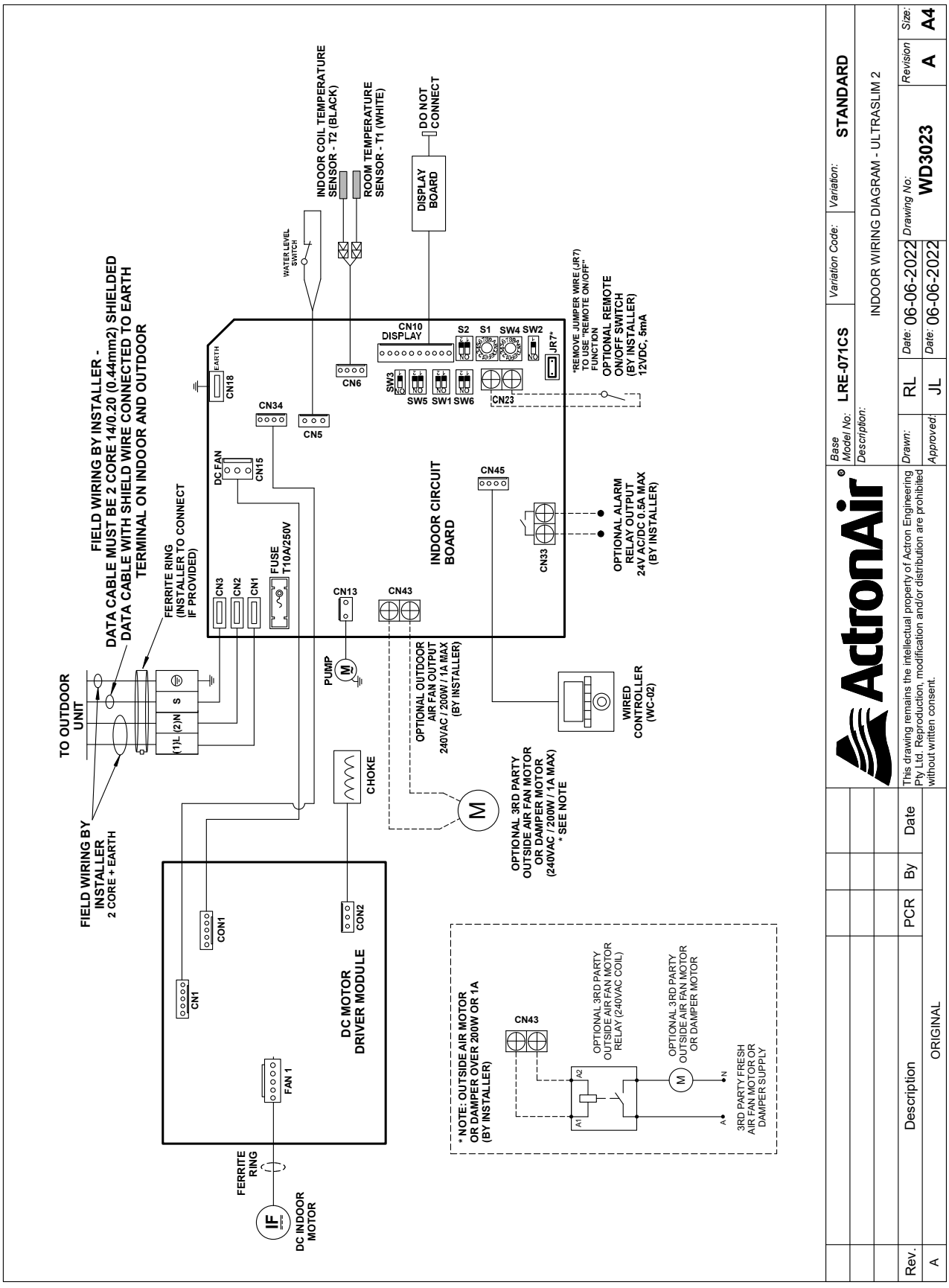
URC-125CS / URC-140CS / LRC-170CS



WIRING DIAGRAM

INDOOR

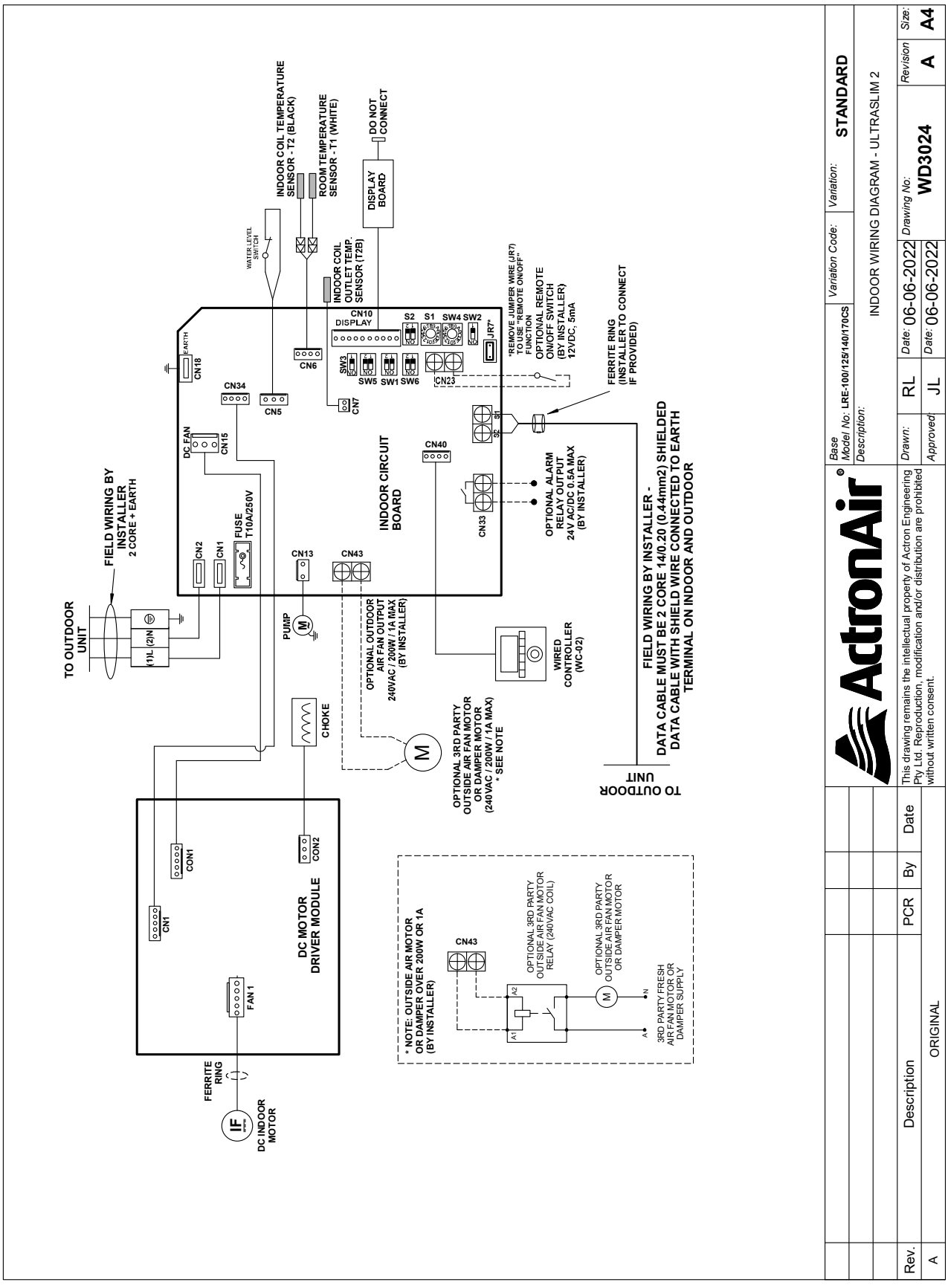
LRE-071CS



WIRING DIAGRAM

INDOOR

LRE-100CS / LRE-125CS / LRE-140CS / LRE-170CS



Rev.	Description	PCR	By	Date
A	ORIGINAL			

ActronAir®

Base Model No: LRE-100/125/140/170CS | Variation Code: | Variation: STANDARD

Description: INDOOR WIRING DIAGRAM - ULTRASLIM 2

Drawn:	RL	Date: 06-06-2022	Drawing No: WD3024
Approved:	JL	Date: 06-06-2022	Revision: A

Size: A4

ActronAir

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