

# 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	LRC-125CS / LRE-125CS	LRC-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 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

## LRC-071CS/LRE-071CS

COOLING PERFORMANCE																	
OUTDOOR TEMPERATURE (DB)	WB°C	INDOOR CONDITIONS (°C - DB)															
		16.0				18.0				19.0				22.0			
		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	7.99	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	7.65	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	<b>7.30</b>	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	<b>6.06</b>	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	<b>2.06</b>	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°C CD	12°C CD	7°C CD	4°C CD	0°C CD	-5°C CD	-7°C CD	-15°C CD
		18°C CW	11°C CW	6°C CW	3°C CW	-1°C CW	-6°C CW	-8°C CW	-16°C 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	<b>7.70</b>	6.36	5.96	5.39	4.89	2.70
	Power Input, kW	1.59	1.90	<b>1.73</b>	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.







**PIPE LENGTH CORRECTION MULTIPLIER**

**ULTRASLIM**

<b>LRC-071CS/LRE-071CS</b>				<b>PIPE LENGTH (m)</b>						
<b>COOLING</b>				7.5	10	20	30	40	50	
	<b>H =</b> 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	
			<b>0</b>	<b>1.000</b>	<b>0.971</b>	<b>0.913</b>	<b>0.900</b>	<b>0.876</b>	<b>0.855</b>	
	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		

<b>HEATING</b>				<b>PIPE LENGTH (m)</b>						
				7.5	10	20	30	40	50	
	<b>H =</b> 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	
			<b>0</b>	<b>1.000</b>	<b>0.989</b>	<b>0.968</b>	<b>0.954</b>	<b>0.946</b>	<b>0.910</b>	
	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		

<b>LRC-100CS/LRE-100CS</b>				<b>PIPE LENGTH (m)</b>							
<b>COOLING</b>				7.5	10	20	30	40	50	60	75
	<b>H =</b> 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
			<b>0</b>	<b>1.000</b>	<b>0.990</b>	<b>0.951</b>	<b>0.912</b>	<b>0.873</b>	<b>0.834</b>	<b>0.800</b>	<b>0.783</b>
	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	

<b>HEATING</b>				<b>PIPE LENGTH (m)</b>							
				7.5	10	20	30	40	50	60	75
	<b>H =</b> 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
			<b>0</b>	<b>1.000</b>	<b>0.996</b>	<b>0.979</b>	<b>0.963</b>	<b>0.947</b>	<b>0.924</b>	<b>0.907</b>	<b>0.887</b>
	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	

**PIPE LENGTH CORRECTION MULTIPLIER**

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<b>URC-125CS/LRE-125CS</b>				<b>PIPE LENGTH (m)</b>								
<b>COOLING</b>				7.5	10	20	30	40	50	60	75	
	<b>H =</b> 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	
			<b>0</b>	<b>1.000</b>	<b>0.995</b>	<b>0.970</b>	<b>0.934</b>	<b>0.900</b>	<b>0.875</b>	<b>0.843</b>	<b>0.811</b>	
	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		

<b>HEATING</b>				<b>PIPE LENGTH (m)</b>							
				7.5	10	20	30	40	50	60	75
	<b>H =</b> 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
			<b>0</b>	<b>1.000</b>	<b>0.998</b>	<b>0.983</b>	<b>0.967</b>	<b>0.945</b>	<b>0.924</b>	<b>0.903</b>	<b>0.895</b>
	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	


<b>URC-140CS/LRE-140CS</b>				<b>PIPE LENGTH (m)</b>							
<b>COOLING</b>				7.5	10	20	30	40	50	60	75
	<b>H =</b> 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
			<b>0</b>	<b>1.000</b>	<b>0.990</b>	<b>0.948</b>	<b>0.907</b>	<b>0.865</b>	<b>0.824</b>	<b>0.812</b>	<b>0.800</b>
	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	


<b>HEATING</b>				<b>PIPE LENGTH (m)</b>							
				7.5	10	20	30	40	50	60	75
	<b>H =</b> 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
			<b>0</b>	<b>1.000</b>	<b>0.995</b>	<b>0.974</b>	<b>0.953</b>	<b>0.932</b>	<b>0.911</b>	<b>0.900</b>	<b>0.889</b>
	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	



# PIPE LENGTH CORRECTION MULTIPLIER

# ULTRASLIM

LRC-170CS/LRE-170CS			PIPE LENGTH (m)								
COOLING			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	<b>1.000</b>	<b>0.988</b>	<b>0.939</b>	<b>0.891</b>	<b>0.842</b>	<b>0.794</b>	<b>0.753</b>	<b>0.710</b>	
	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	

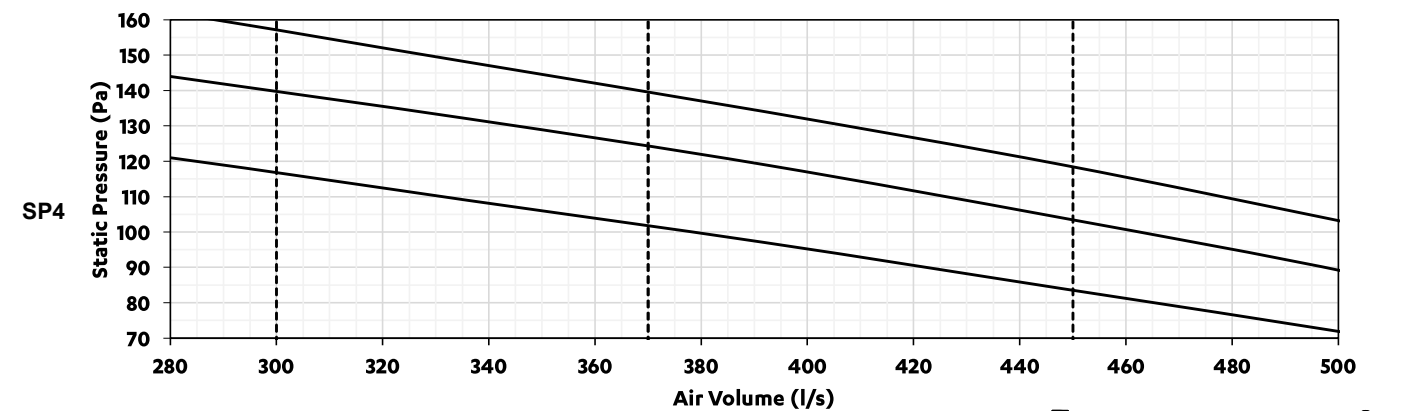
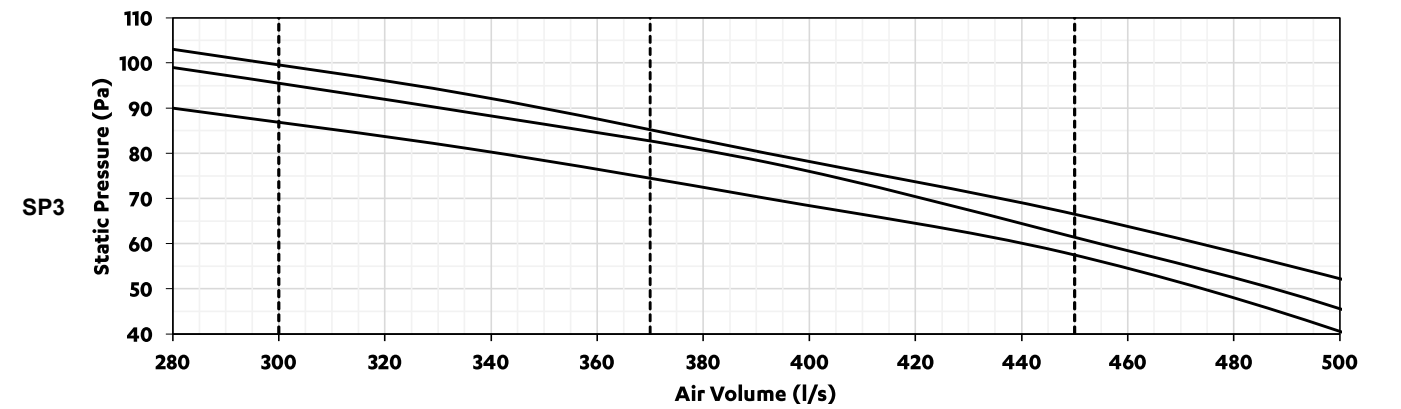
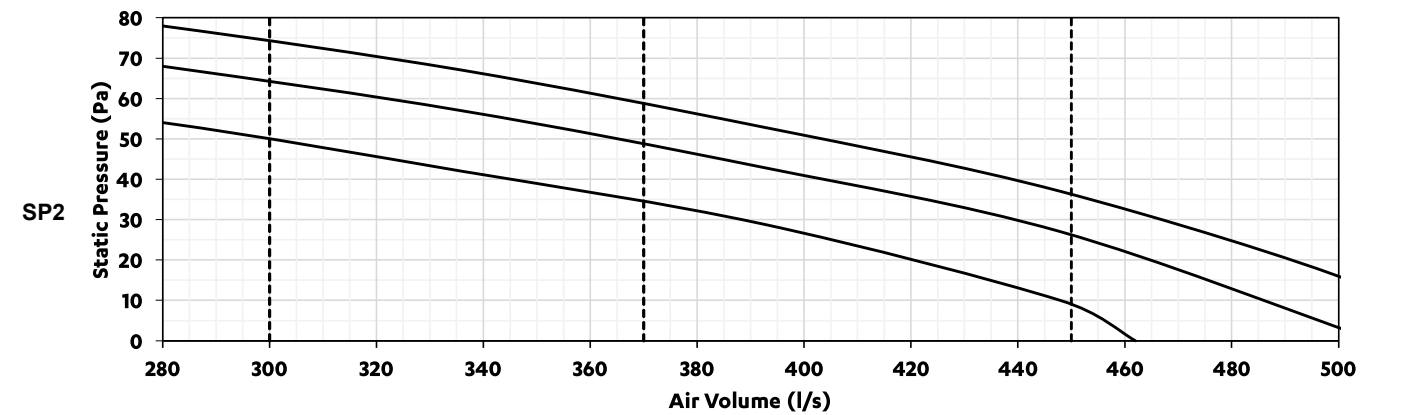
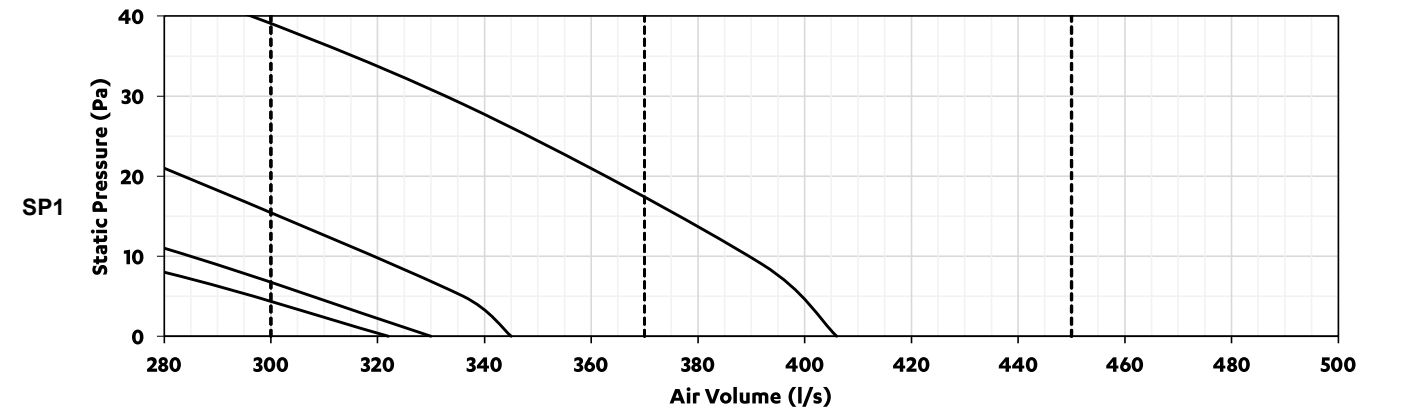
LRC-170CS/LRE-170CS			PIPE LENGTH (m)								
HEATING			7.5	10	20	30	40	50	60	75	
 H = Height Difference (m)	Indoor Unit Higher Than Outdoor Unit	30	---	---	---	0.950	0.927	0.905	0.900	0.896	
		20	---	---	0.972	0.950	0.927	0.905	0.900	0.896	
		10	---	0.994	0.972	0.950	0.927	0.905	0.900	0.896	
		5	1.000	0.994	0.972	0.950	0.927	0.905	0.900	0.896	
		0	<b>1.000</b>	<b>0.994</b>	<b>0.972</b>	<b>0.950</b>	<b>0.927</b>	<b>0.905</b>	<b>0.900</b>	<b>0.896</b>	
	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	

[Go to Index](#)

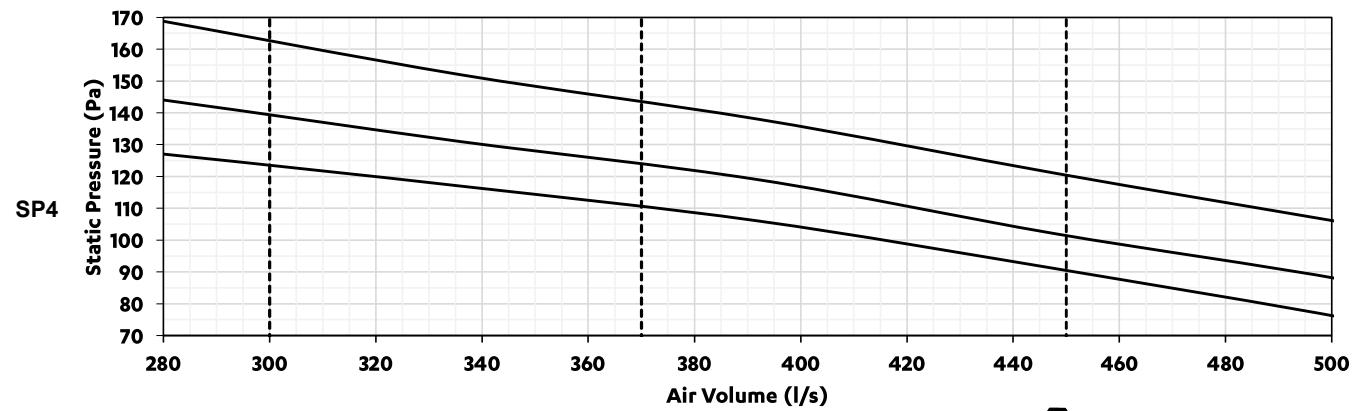
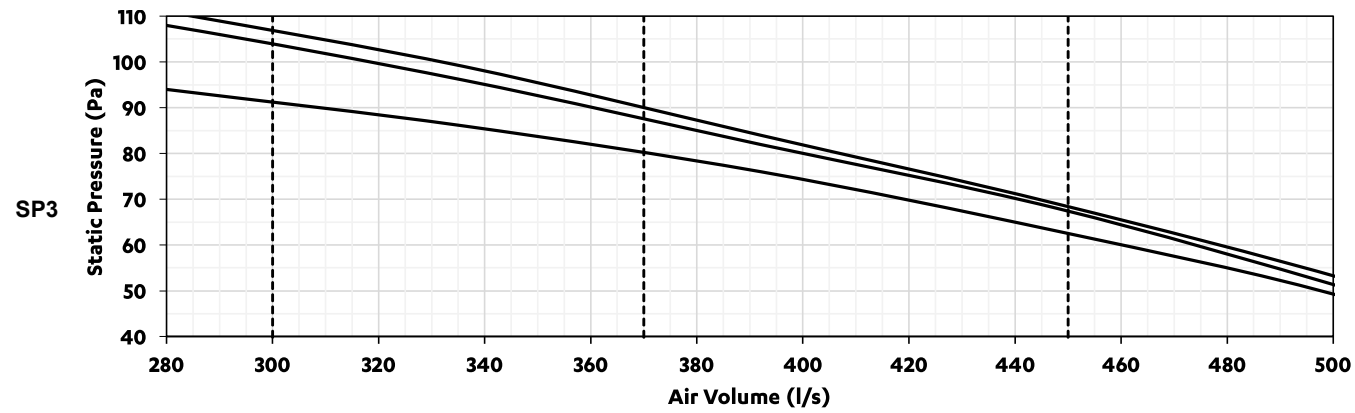
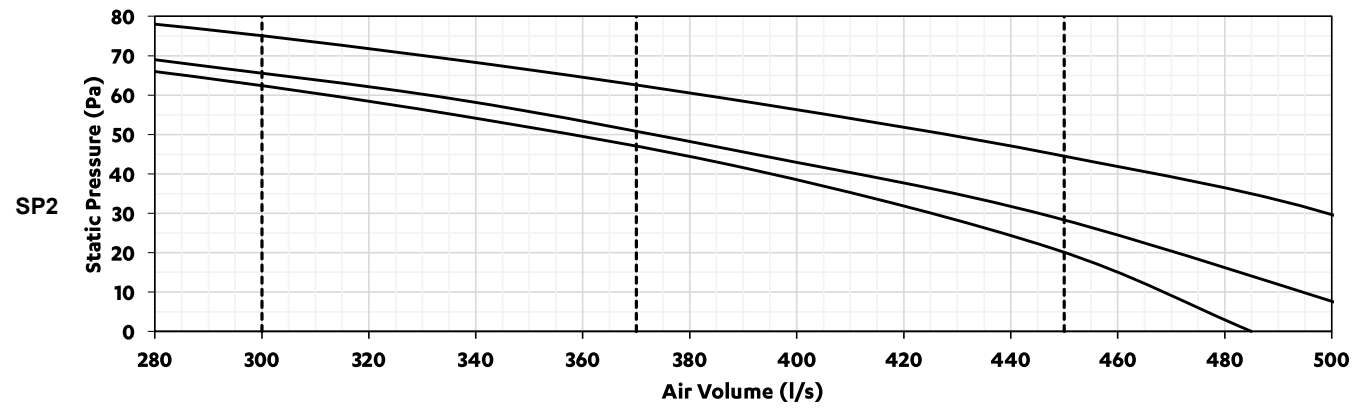
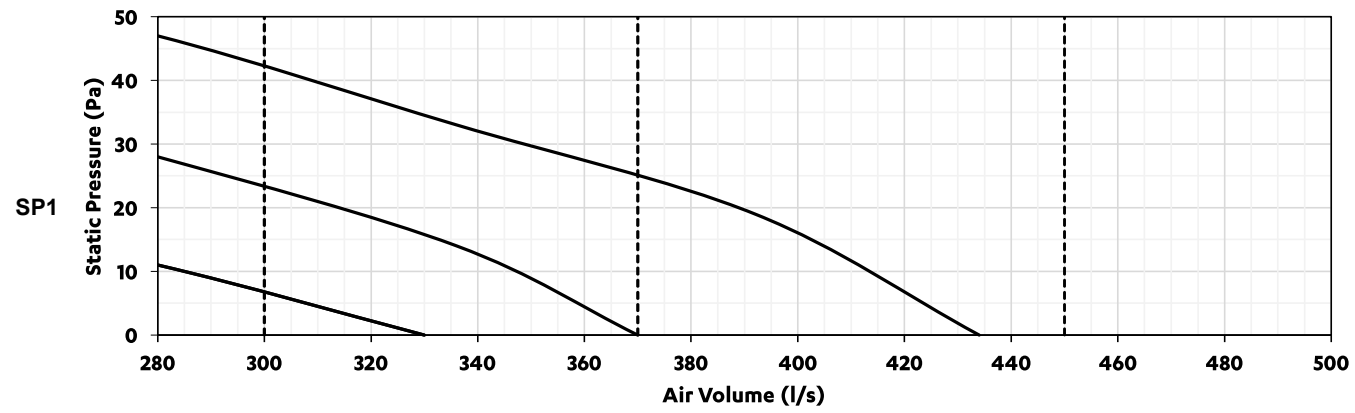
# FAN CURVES

# ULTRASLIM

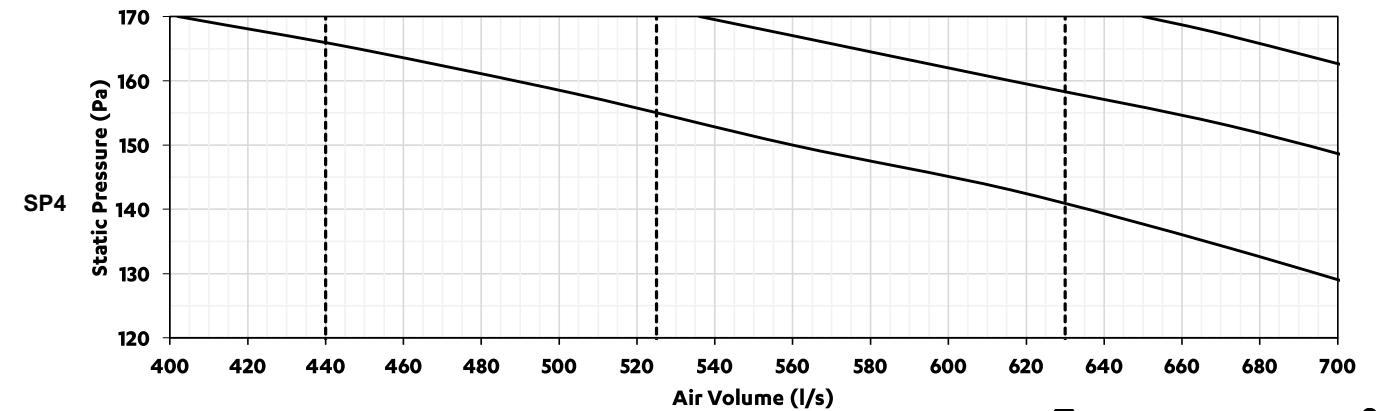
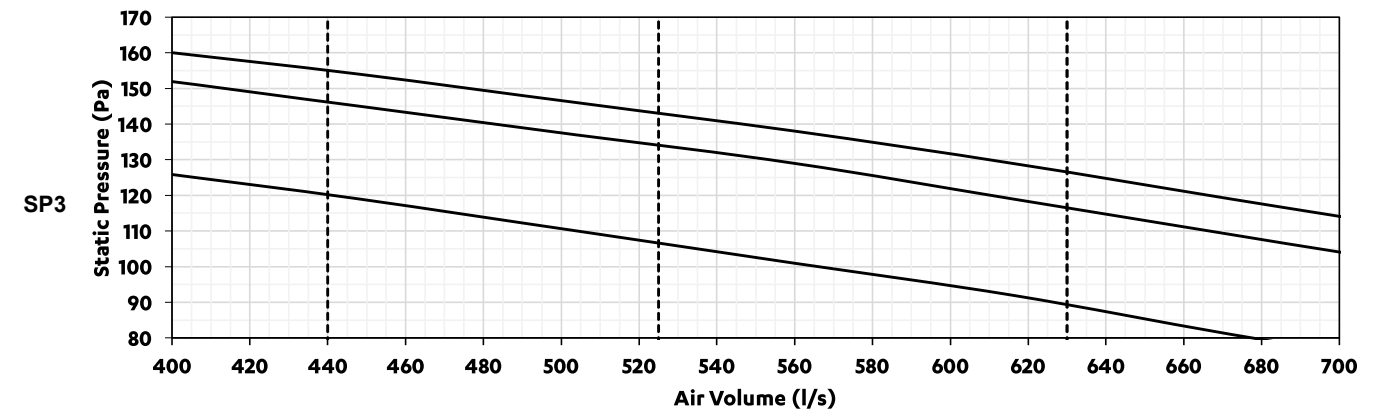
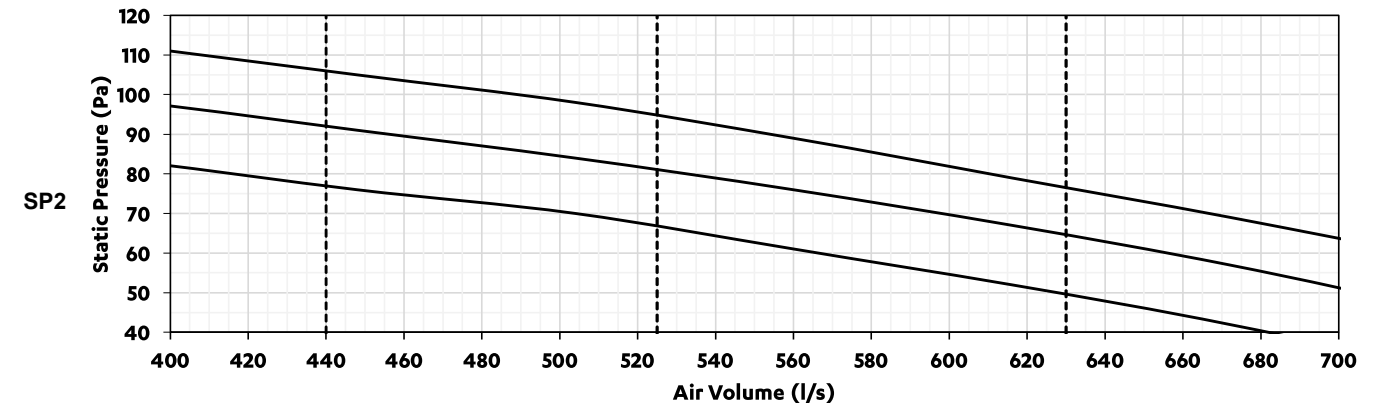
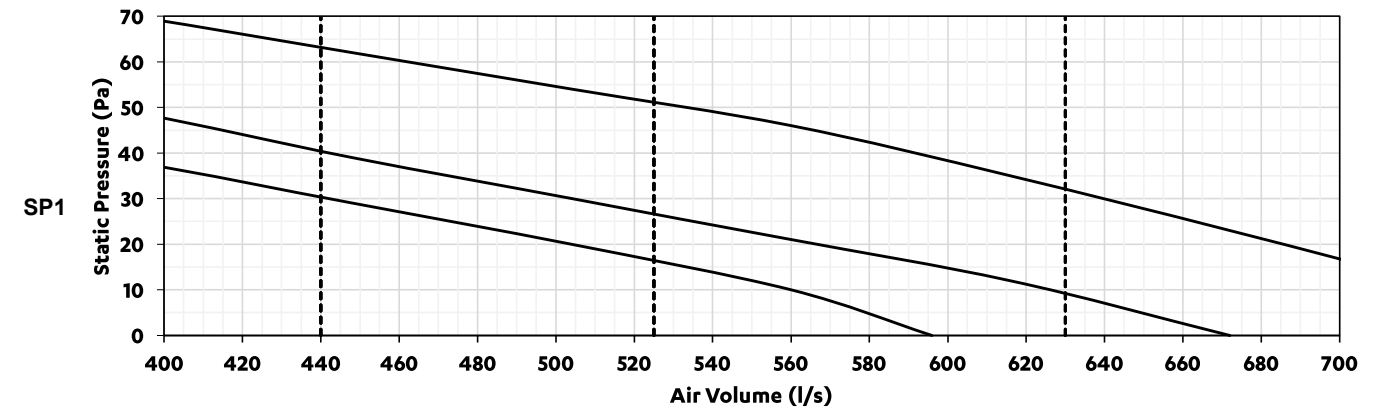
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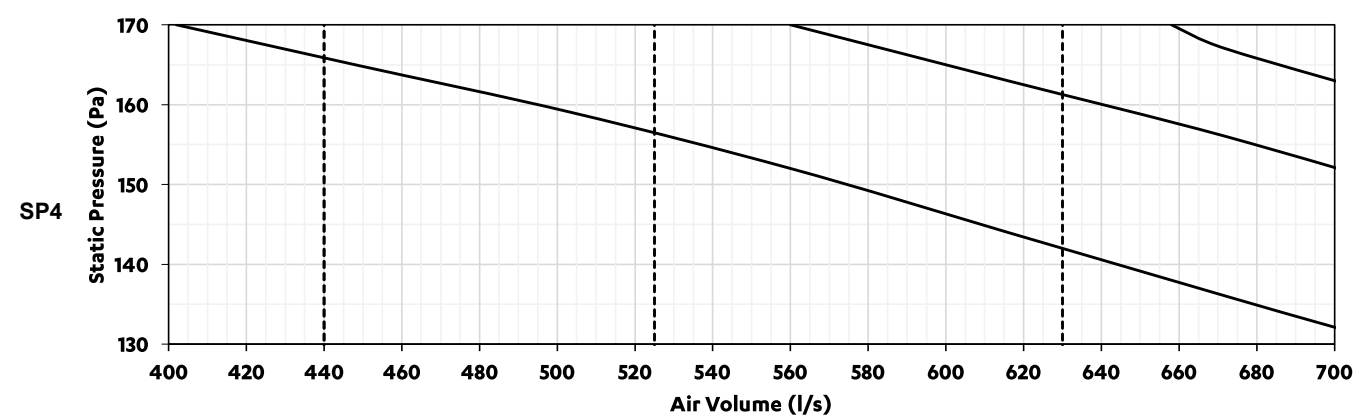
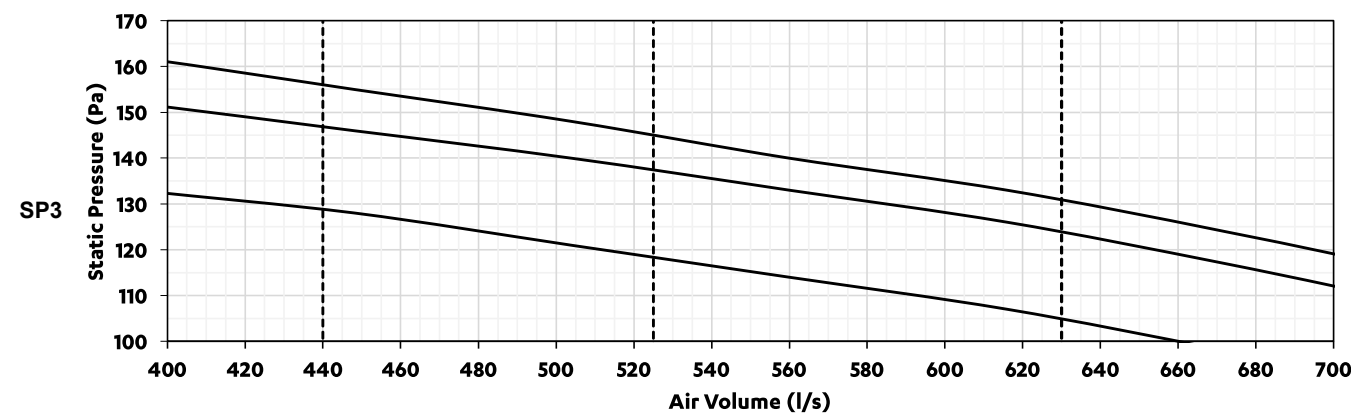
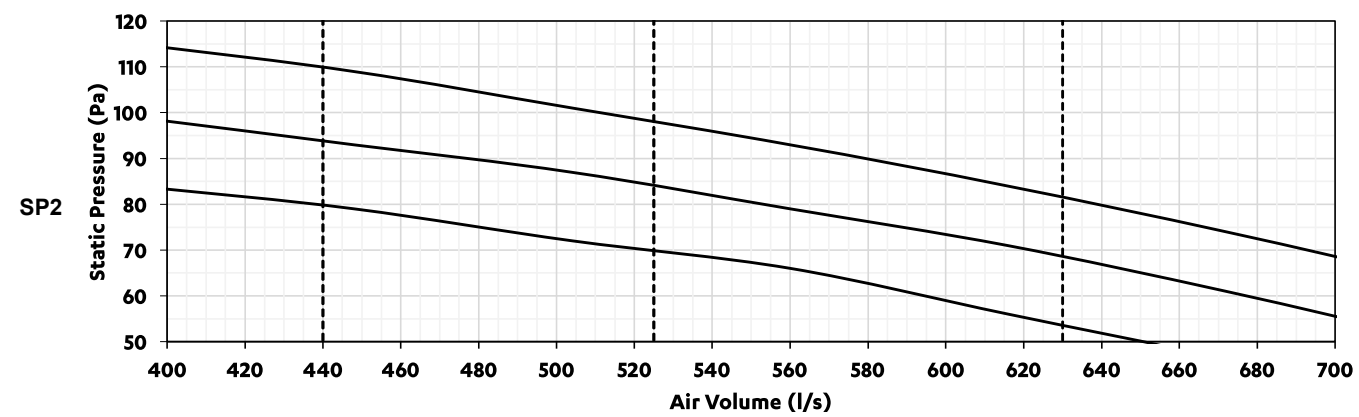
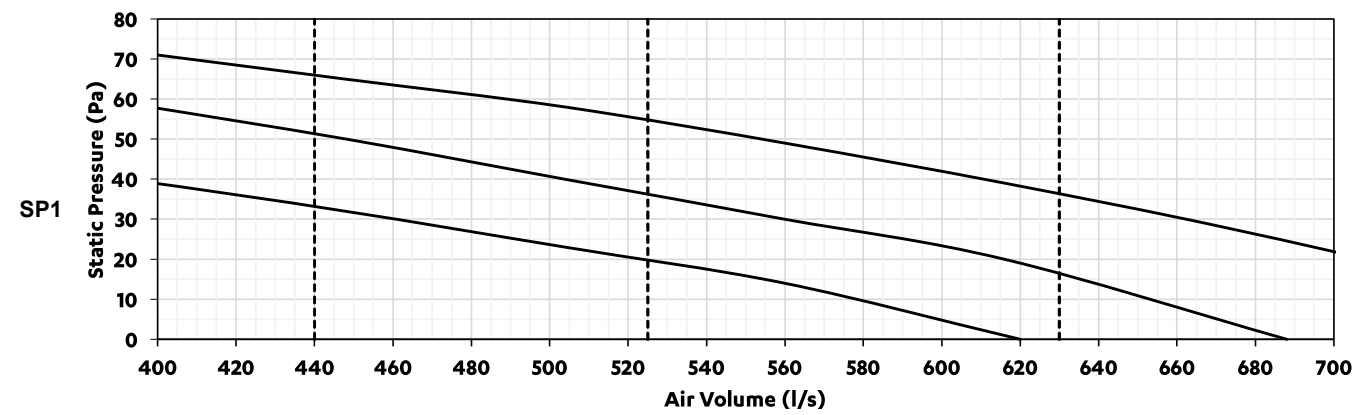
LRE-071 Without Filter



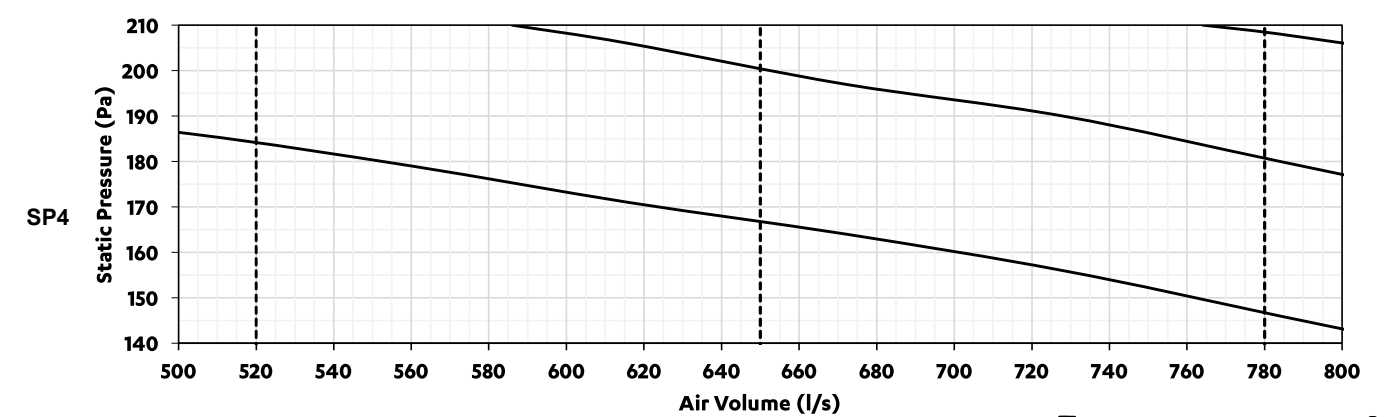
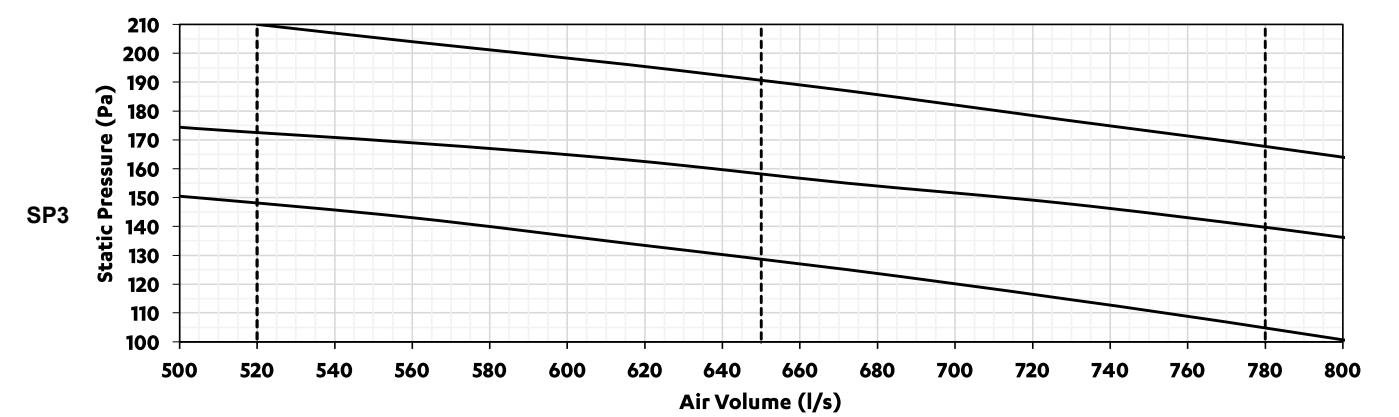
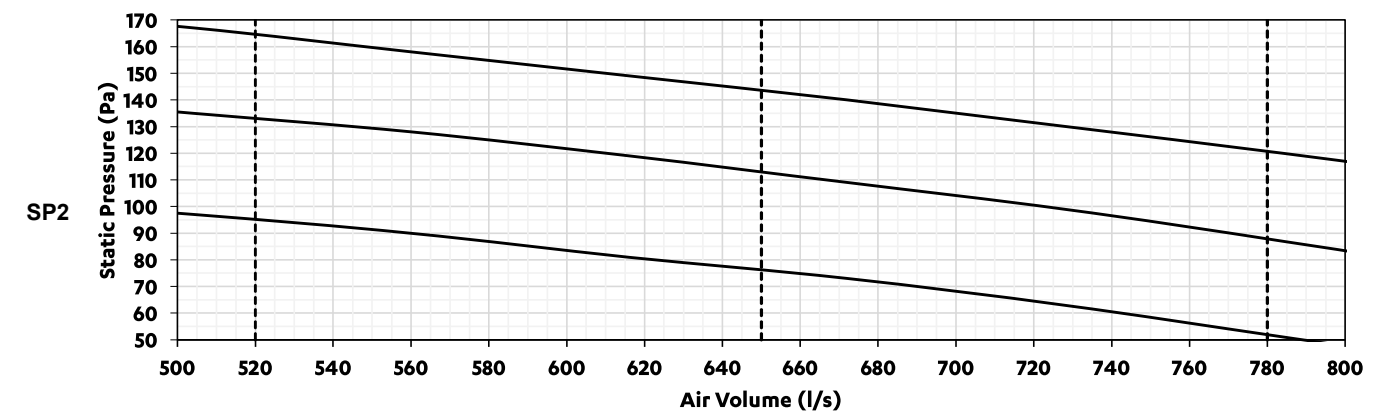
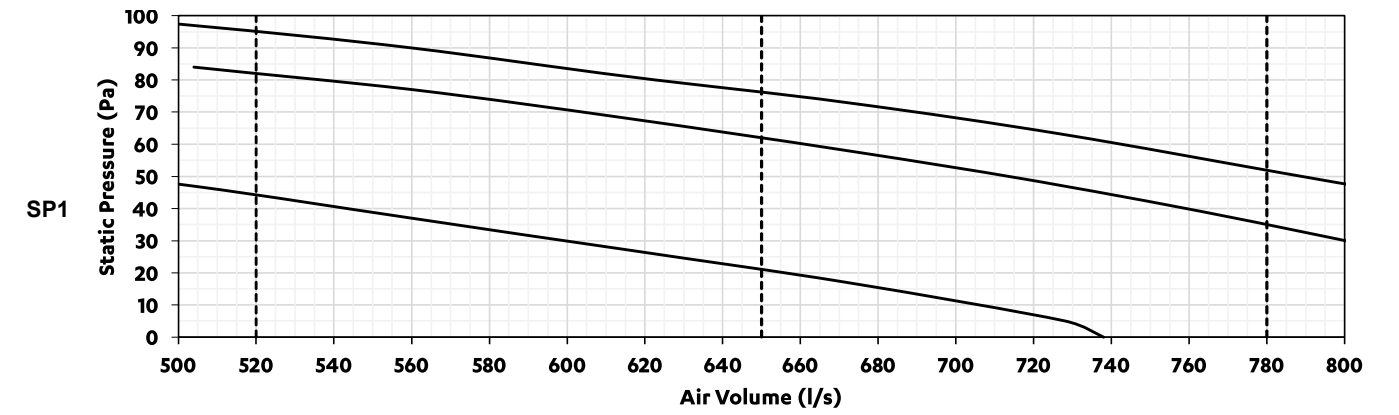
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LRE-100 Without Filter

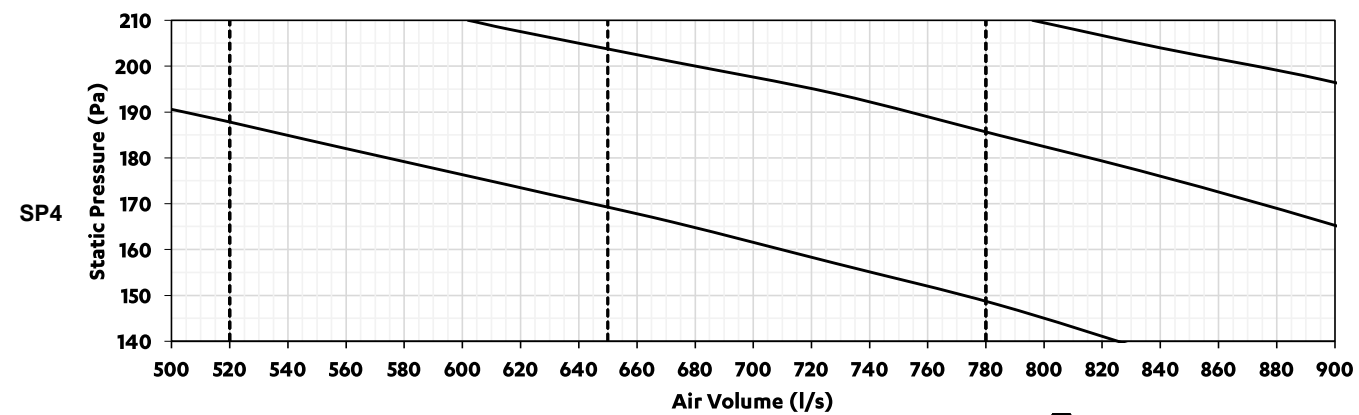
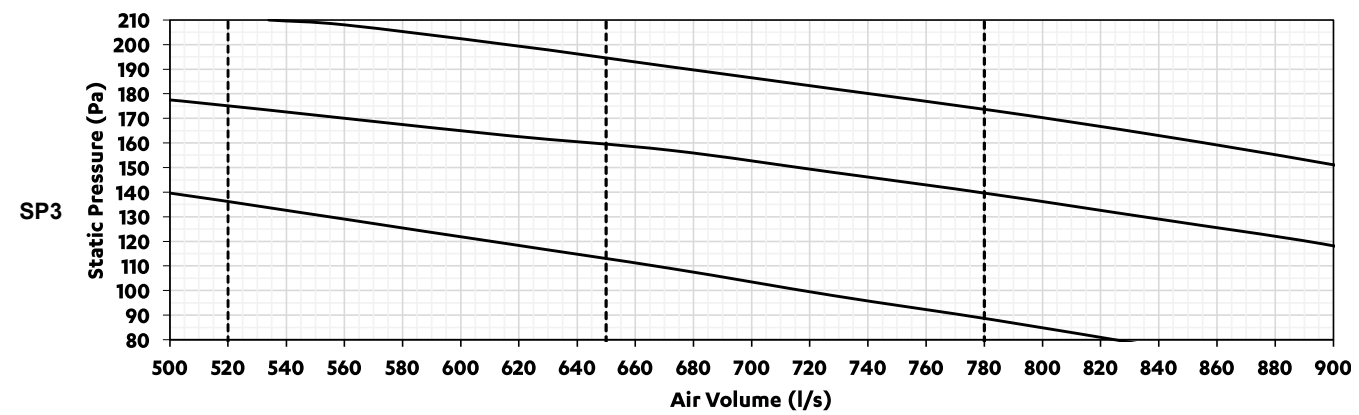
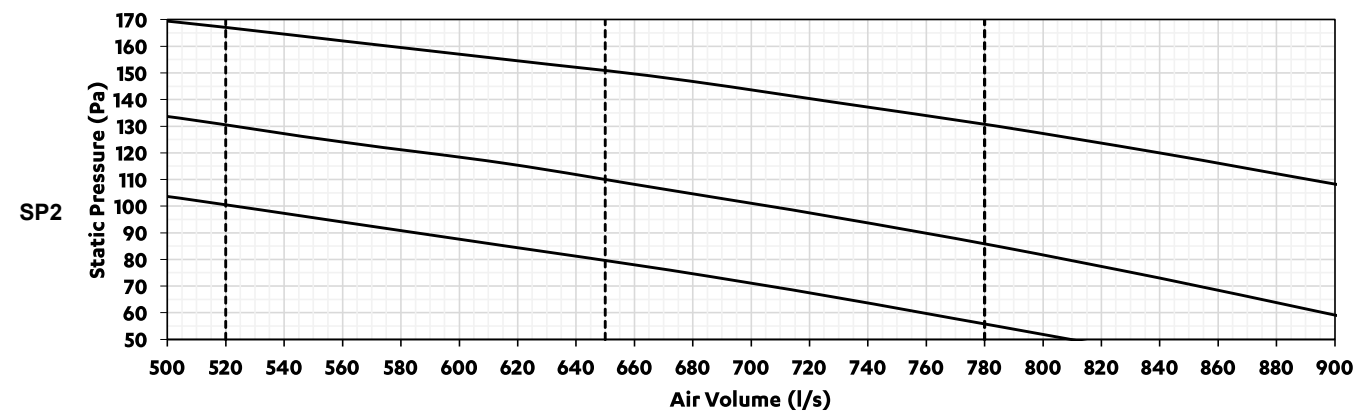
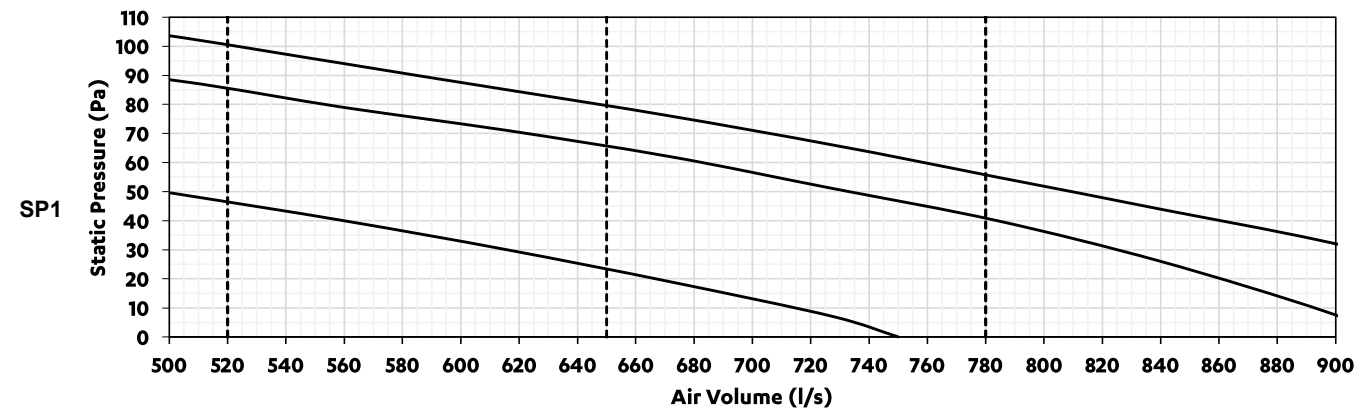


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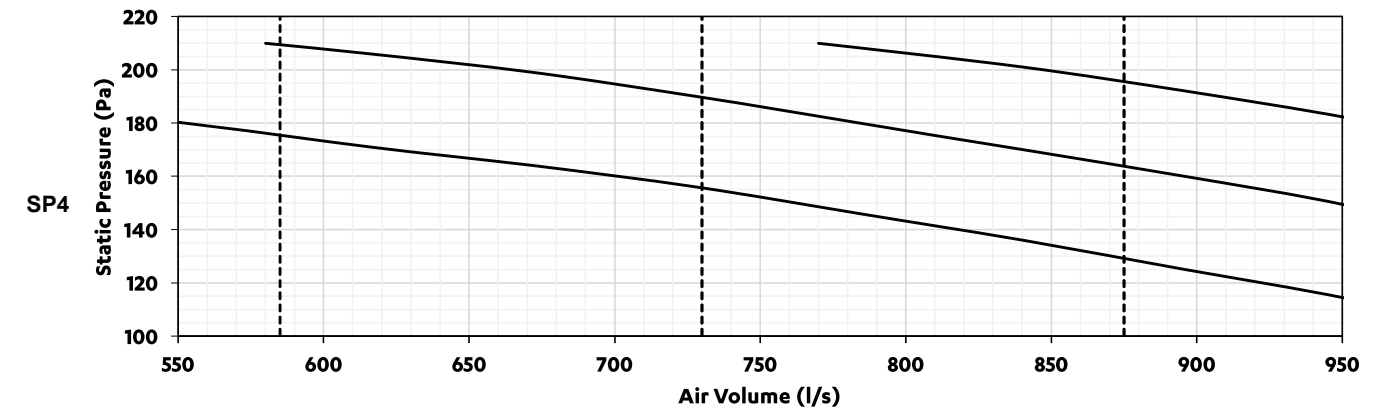
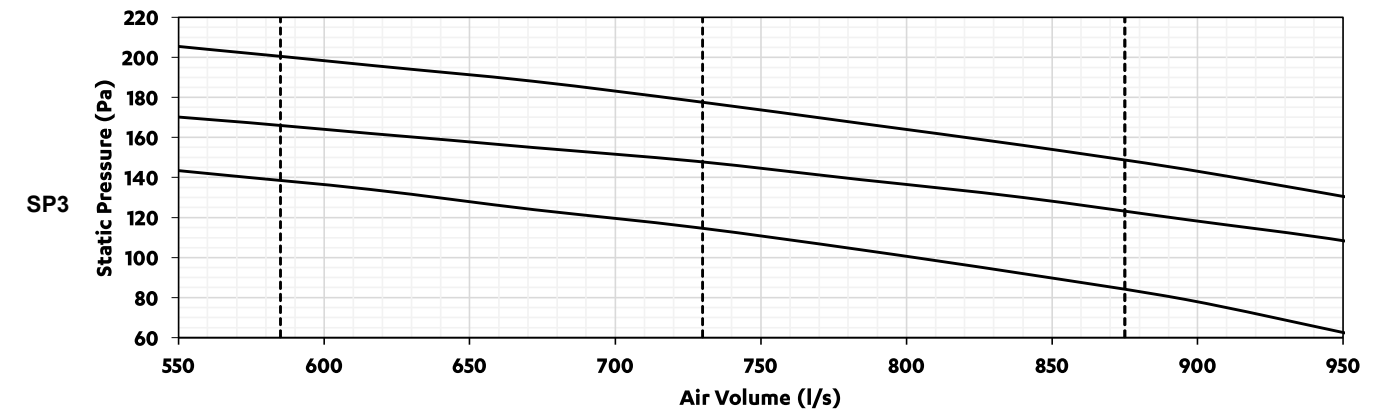
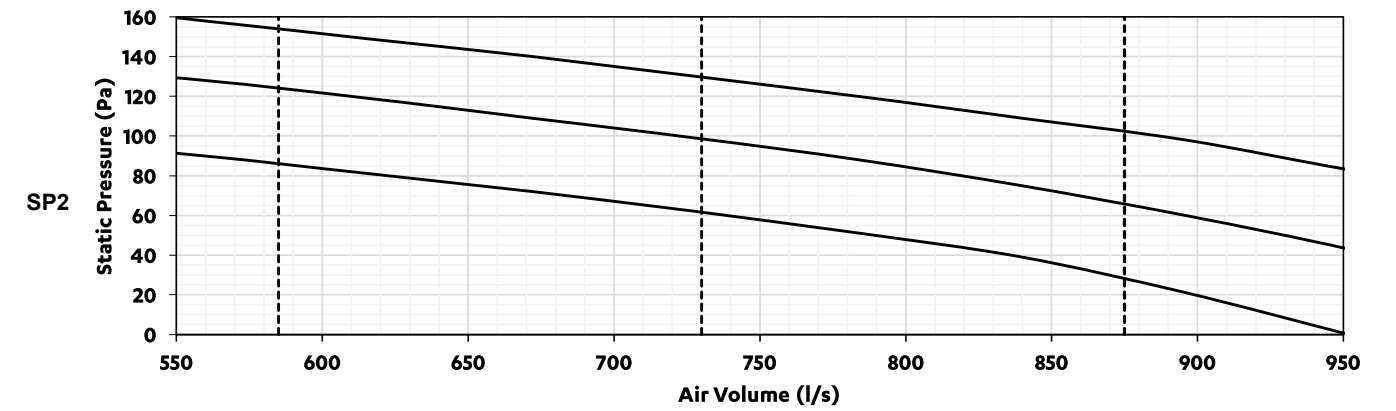
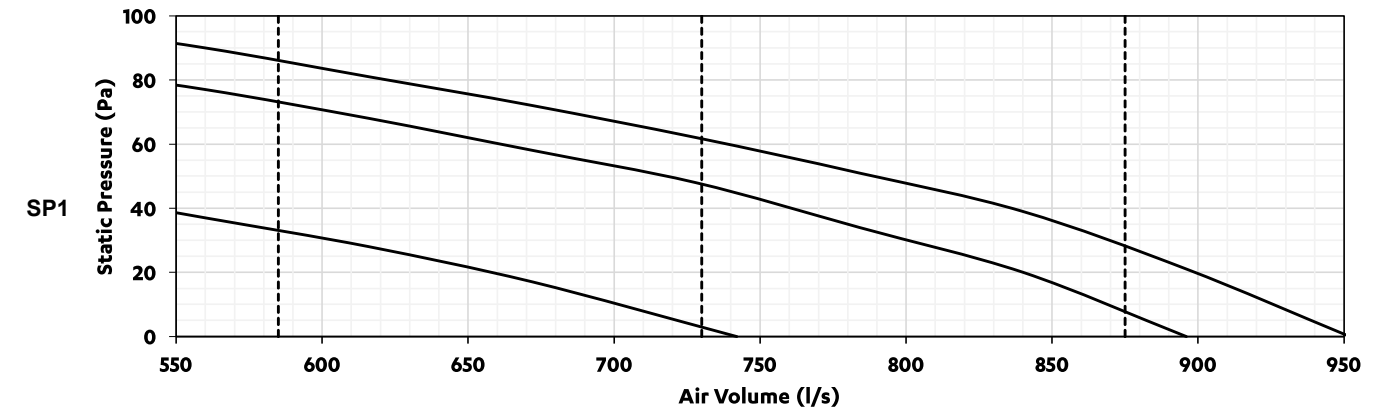




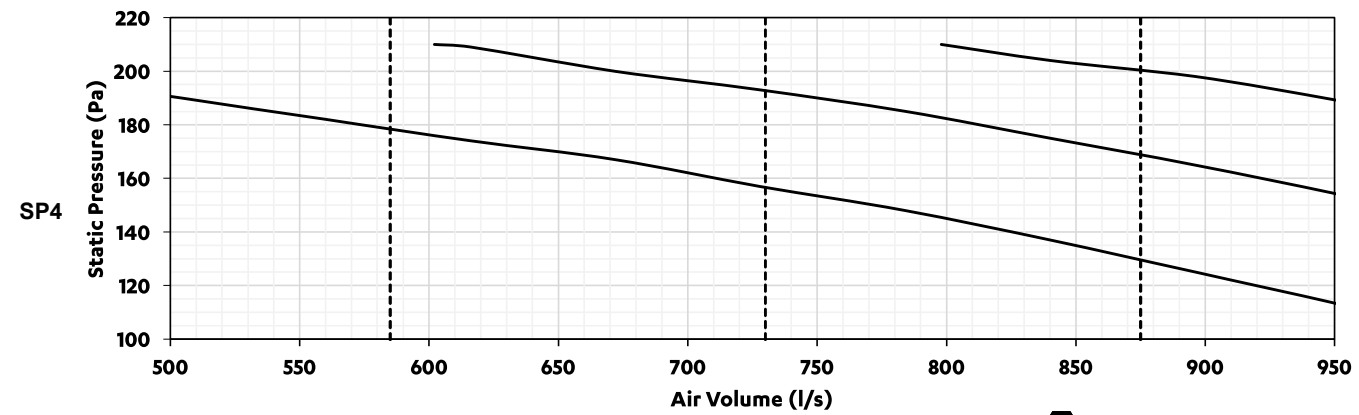
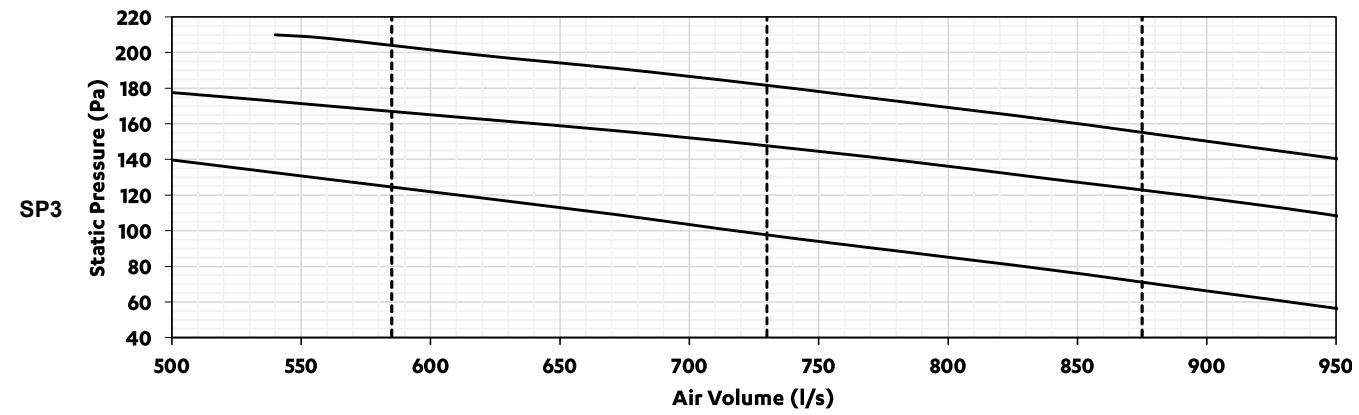
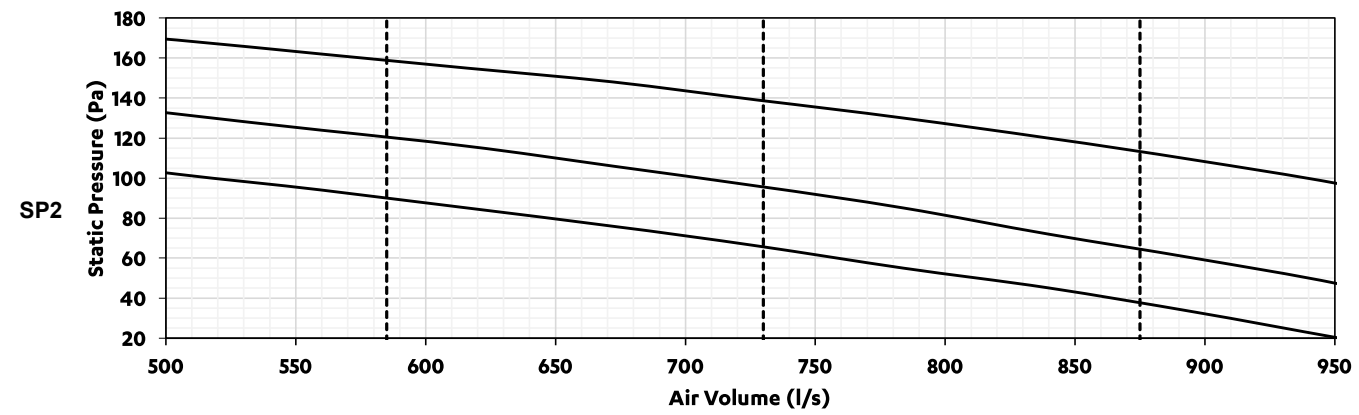
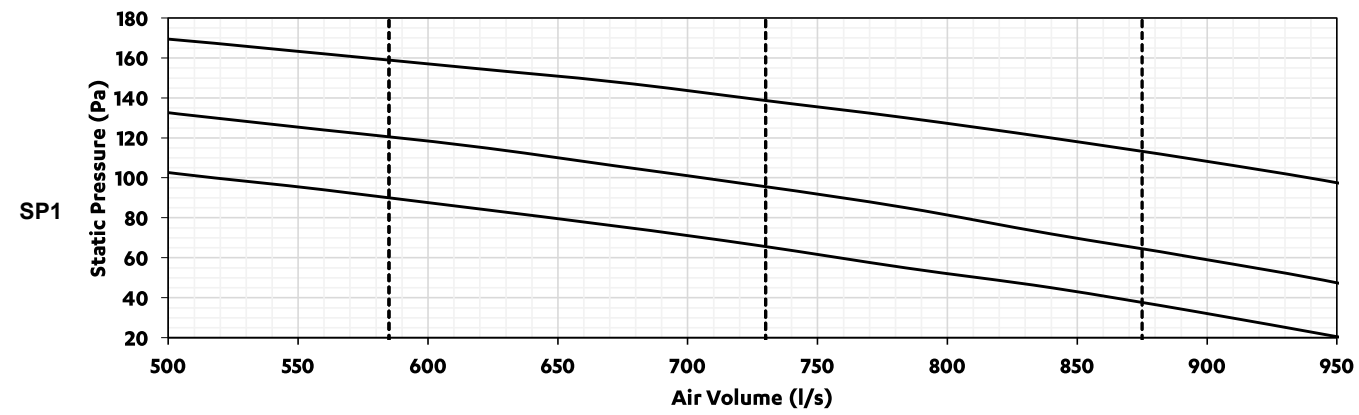
LRE-125 Without Filter



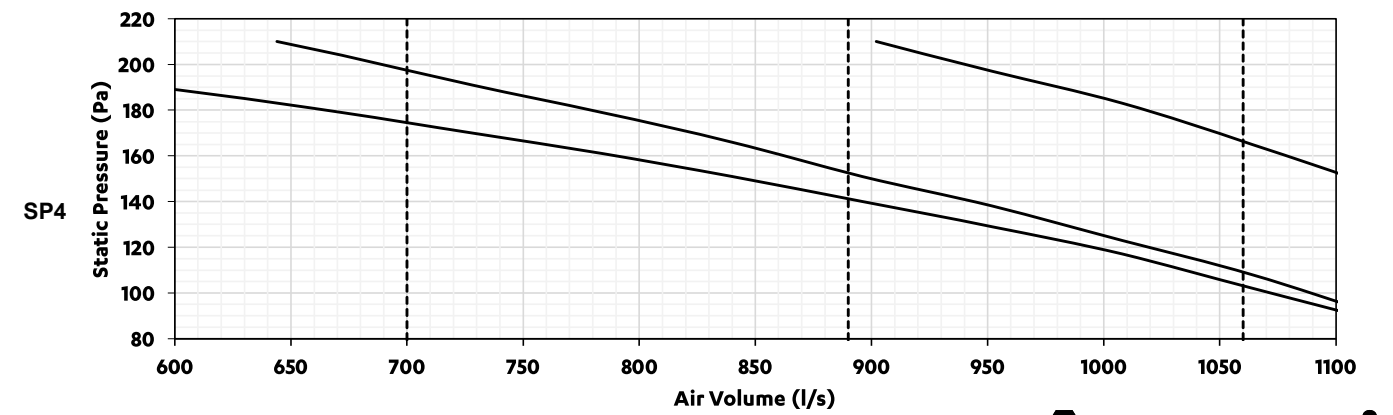
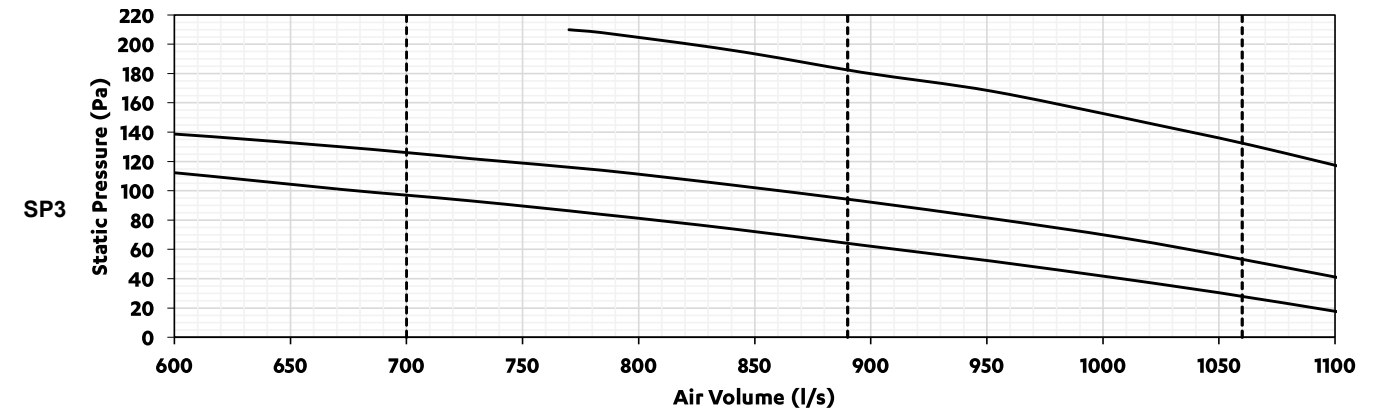
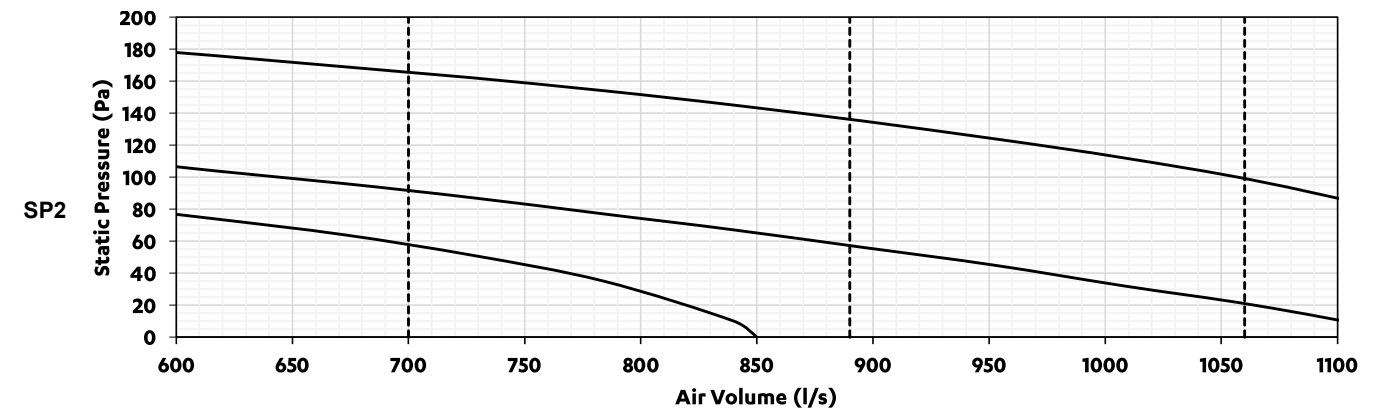
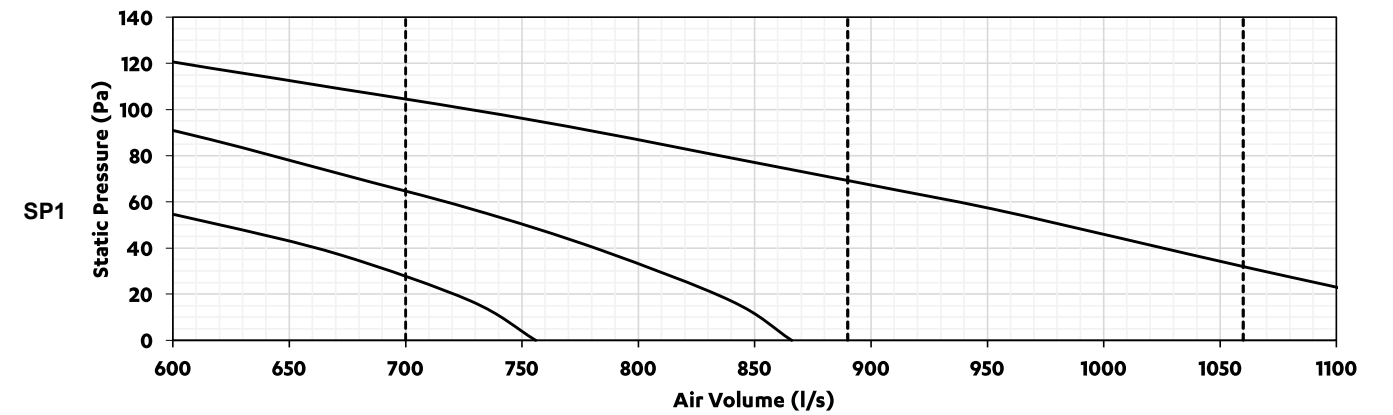
LRE-140 With Filter



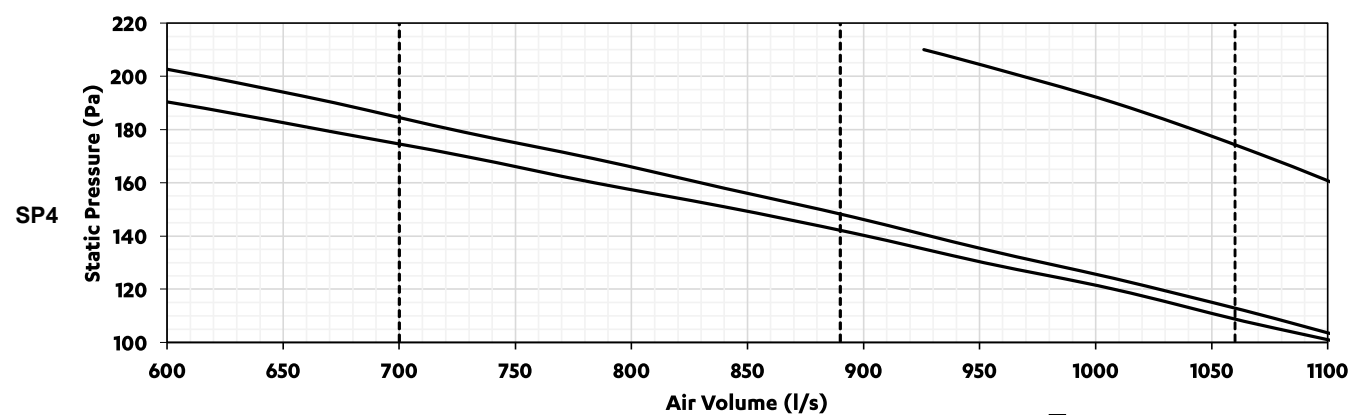
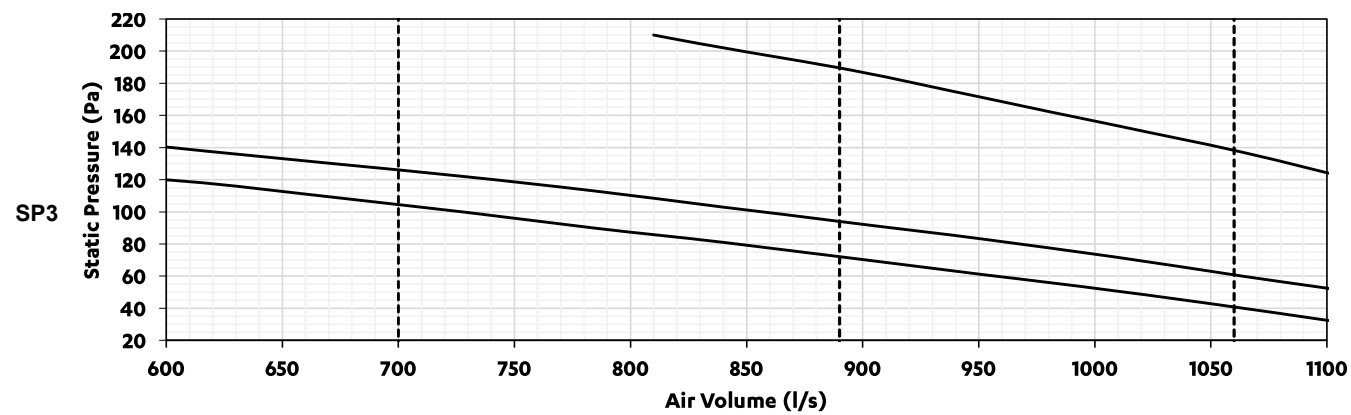
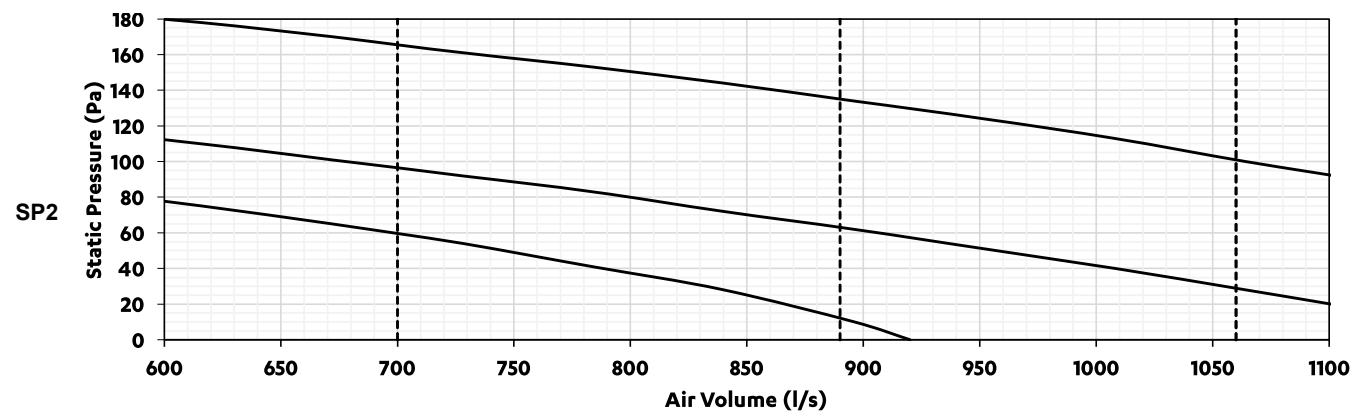
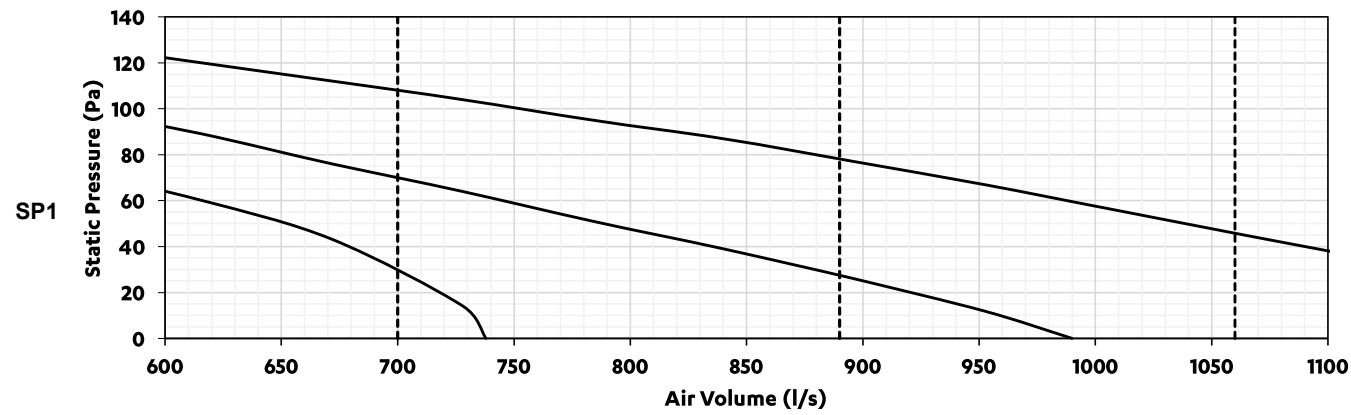
LRE-140 Without Filter



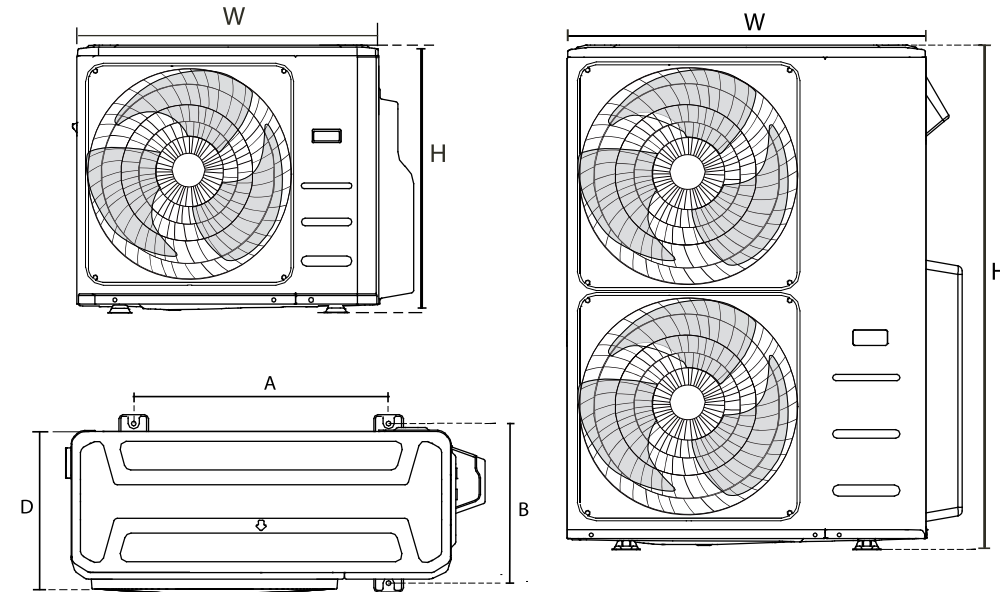
LRE-170 With Filter



LRE-170 Without Filter

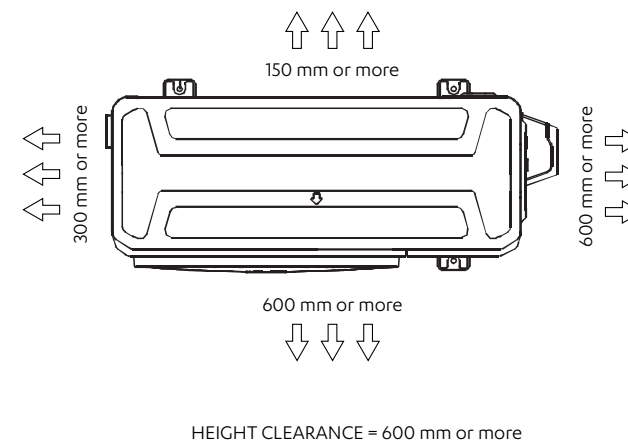


OUTDOOR UNITS : LRC-071CS / LRC-100CS / URC-125CS / URC-140CS / LRC-170CS



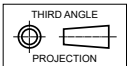
Model Number	Outdoor Unit Dimensions H x W x D	Mounting Dimensions (Centre to Centre)	
		A (mm)	B (mm)
LRC-071CS	673 x 890 x 342	663	348
LRC-100CS	810 x 946 x 410	673	403
URC-125CS URC-140CS LRC-170CS	1333 x 952 x 415	634	404

SERVICE ACCESS AREAS / AIRFLOW ALLOWANCES



NOTES:

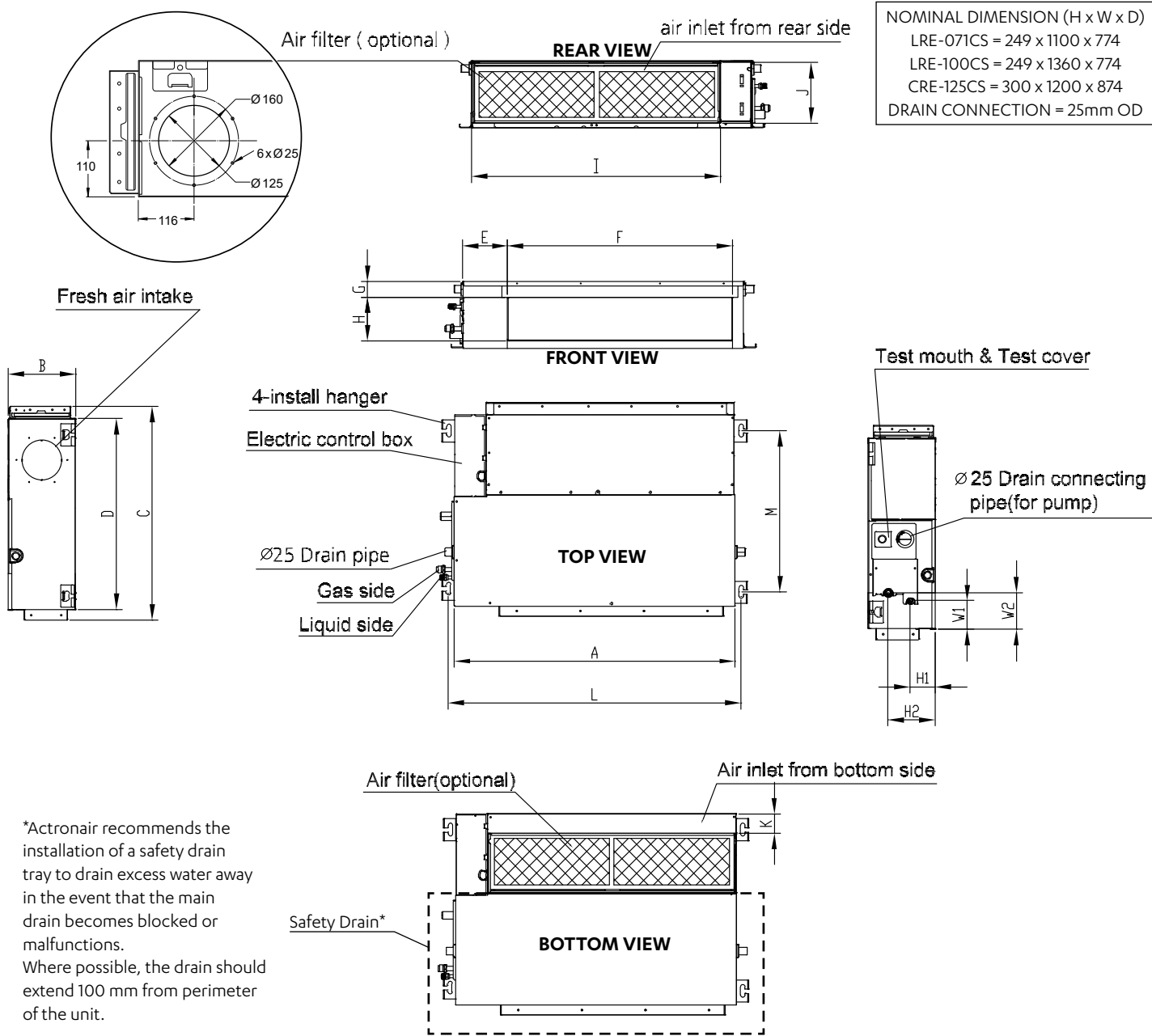
- Do not scale drawing. All dimensions are in mm unless otherwise specified. Refer to corresponding unit dimensional drawing for mounting hole details.
- Service Access Areas and Spaces for Airflow Clearances are suggested minimum based on the condition that the spaces around the units are free from any obstructions and a walkway passage of 1000 mm between the units or between the unit and the outside perimeter is available.
- 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.
- Under all circumstances, condenser air must not recirculate back onto condenser coil. Keep all clearance free of any obstruction.
- Refer Pipe Connection Details on Specifications Sheet.
- MTG C-C DIST = Mounting Centre to Centre Distance.
- Use M12 bolt for feet mounting.
- Installation of this unit should be in accordance with Electrical Safety Standard, AS/NZS 60335.2.40.
- 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.
- Refer to R-32 Safety Manual for minimum required area of installation.



**UNIT AND MOUNTING DIMENSIONS**

**ULTRASLIM**

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



\*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.

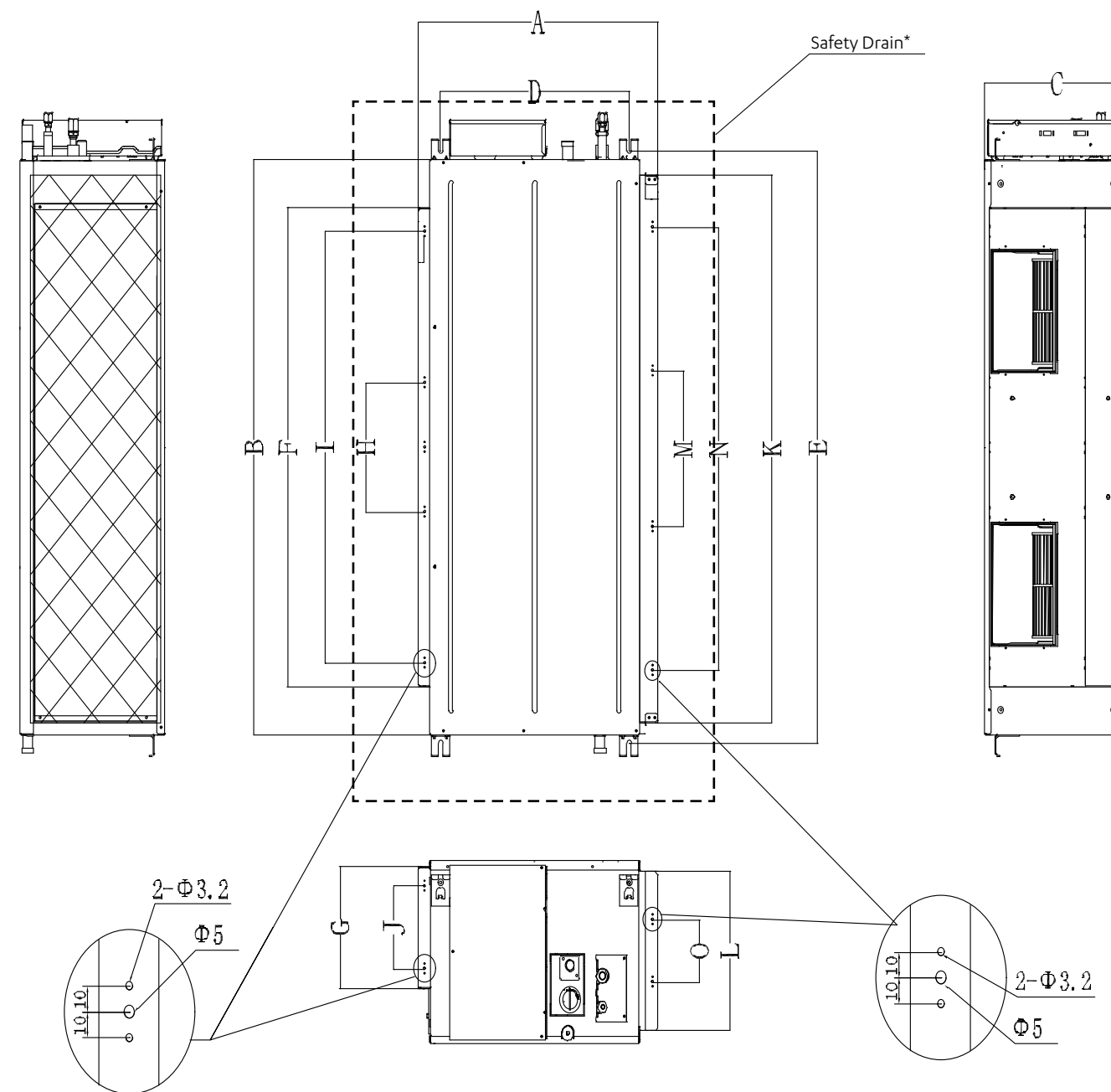
Model	Dimensions (mm)																
	A	B	C	D	E	G	SUPPLY DUCT		RETURN DUCT		K	L	M	H1	H2	W1	W2
							F	H	I	J							
LRE-071CS	1100	249	774	700	140	50	926	175	1001	228	5	1140	598	80	150	130	155
LRE-100CS	1360	249	774	700	140	50	1186	175	1261	228	5	1400	598	80	150	130	155
LRE-125CS	1200	300	874	800	123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

Model	Dimensions (mm)															
	Outline dimension			Unit Mounting		RETURN DUCT		Duct Outlet mounting			SUPPLY 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	

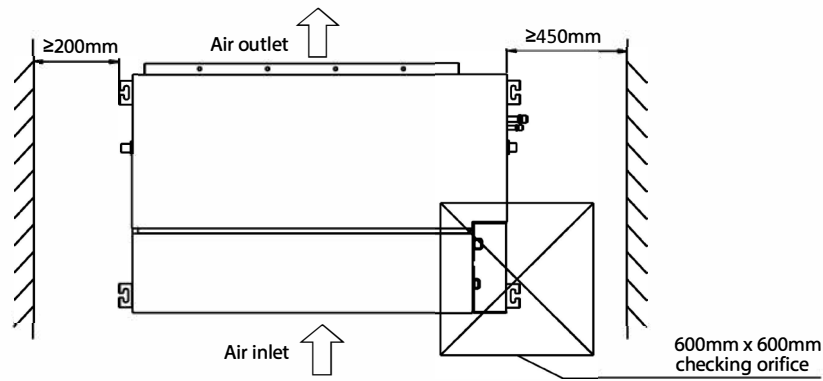
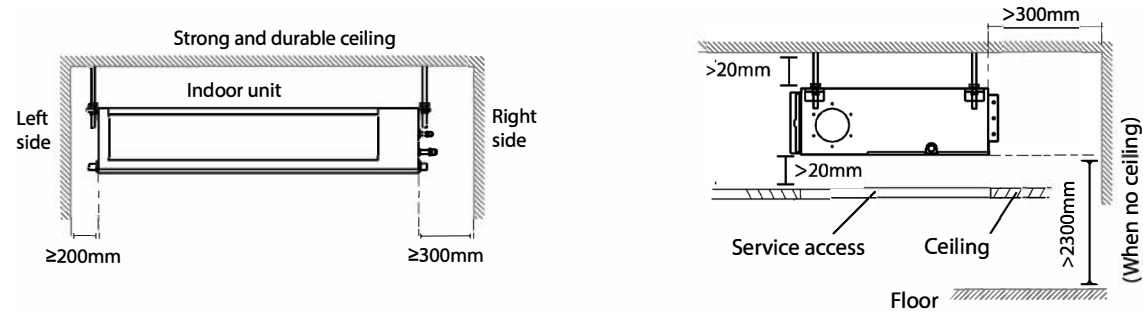


**SERVICE ACCESS AREAS / AIRFLOW ALLOWANCES** **ULTRASLIM**

**NOTE**

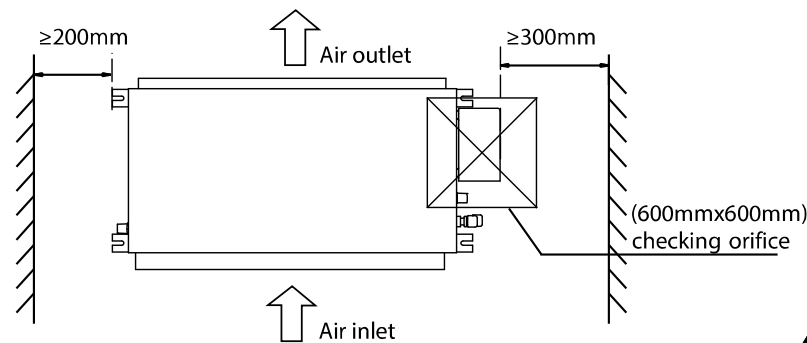
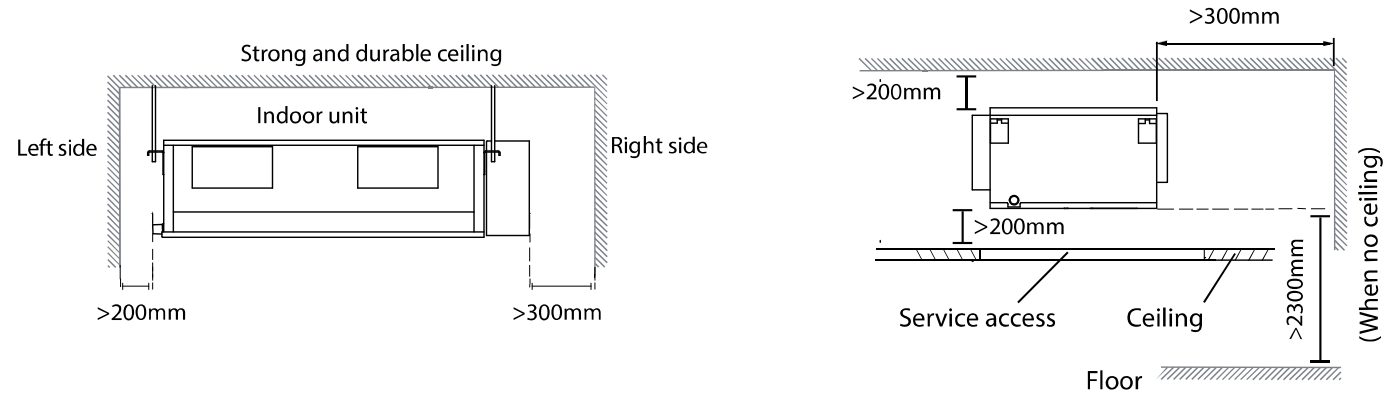
It is strongly encouraged to have a removable service access panel underneath the indoor unit to carry out maintenance and repair.

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



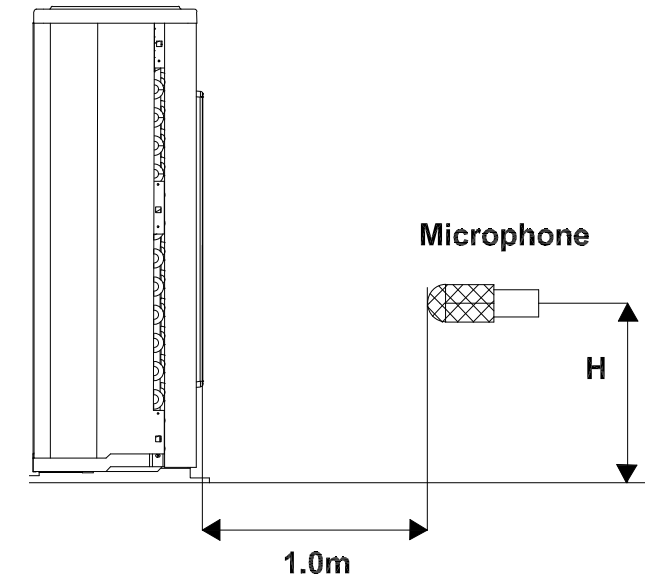
**NOTE**  
It is strongly encouraged to have a removable service access panel underneath the indoor unit to carry out maintenance and repair.

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



**SOUND LEVEL** **ULTRASLIM**

**OUTDOOR UNITS :**

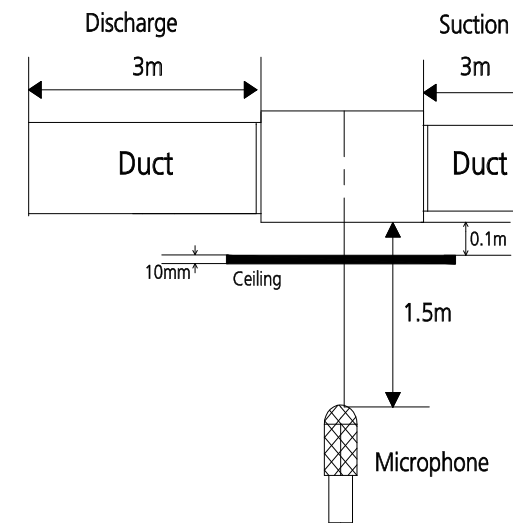


Model	LRC-071CS	LRC-100CS	URC-125CS	URC-140CS	LRC-170CS
Sound Pressure Level dB(A) 1m	60				60.5

Note: H= 0.5 × height of outdoor unit

**INDOOR UNITS :**

**Concealed Duct Type**



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
<b>REFRIGERATION SYSTEM</b>					
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				
<b>INTERCONNECTING PIPE</b>					
MIN. FIELD PIPE LENGTH (m)	3				
MAX. FIELD PIPE LENGTH (m)	50		75		
MAX. VERTICAL LENGTH (m) (Included in Max. Pipe Length)	30				
<b>FIELD PIPE SIZES</b>					
LIQUID PIPE - mm (inch)	Ø9.52 (3/8")				
GAS PIPE - mm (inch)	Ø15.9 (5/8")			Ø19.05 (3/4")	
CONNECTION TYPE	Flare Nut				
<b>CABLE SIZE AND CIRCUIT BREAKER SIZE</b>					
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 <sup>2</sup> ) (SUGGESTED MINIMUM)	2.5	4.0		6.0	
CABLE SIZE - Indoor to Outdoor Wire (mm <sup>2</sup> )	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")
<b>OUTDOOR COIL</b>					
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 <sup>2</sup> )	0.55	0.76	0.62		
FIN SPACING (mm)	1.3		1.2		
<b>OUTDOOR FAN</b>					
NUMBER OF FANS x TYPE	1 x Axial Fan		2 x Axial Fan		
INPUT (W)	150		126		
<b>COMPRESSOR</b>					
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")	
<b>INDOOR COIL</b>						
TUBE TYPE	Copper Ø7mm, inner groove tube			Copper Ø9.52mm, inner groove tube		
FIN TYPE	Hydrophilic Aluminum					
FACE AREA (m <sup>2</sup> )	0.27	0.34	0.39	0.38	0.54	
FIN SPACING (mm)	1.4		1.5			
<b>INDOOR FAN</b>						
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	
<b>ELECTRICAL CONTROLS</b>						
DEFROST METHOD	Reverse Cycle					
CONTROL FIELD WIRING - OUTDOOR TO INDOOR (Field Supply)	2 Core 14 / 0.20 (0.44mm <sup>2</sup> ) Shielded Data Cable					
WALL CONTROLLER CABLE (Included with Wall Controller)	4 Core (0.75mm <sup>2</sup> ) Shielded Data Cable					

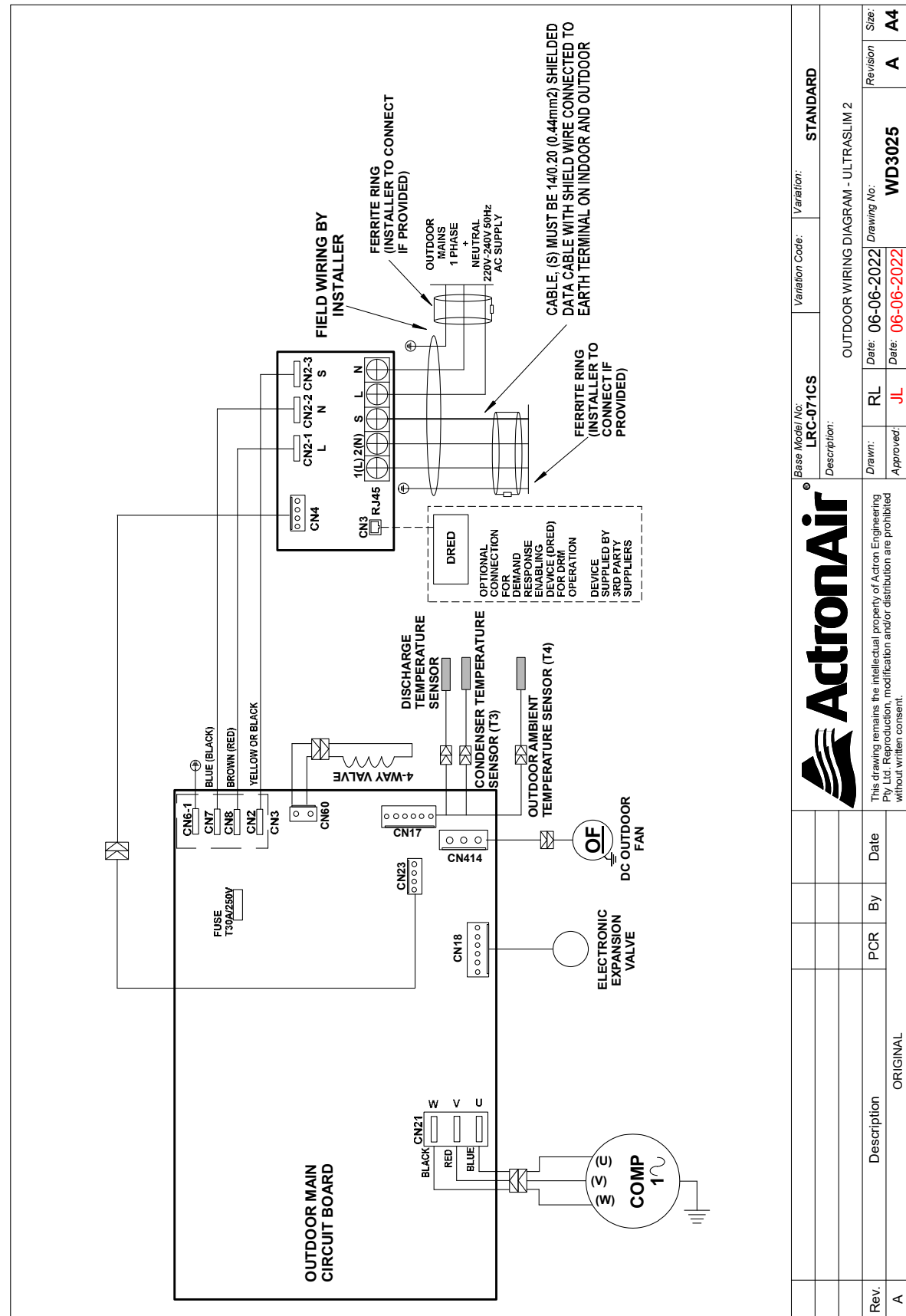
OPERATING RANGE			
It is essential that the unit is correctly sized for the application and operates within its recommended range of operating conditions as shown below.			
MODE	RANGE	INDOOR OPERATING TEMPERATURE	OUTDOOR AIR INTAKE TEMPERATURE
COOLING	Maximum	32°C DB	50°C DB
	Minimum	17°C DB	-15°C DB
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

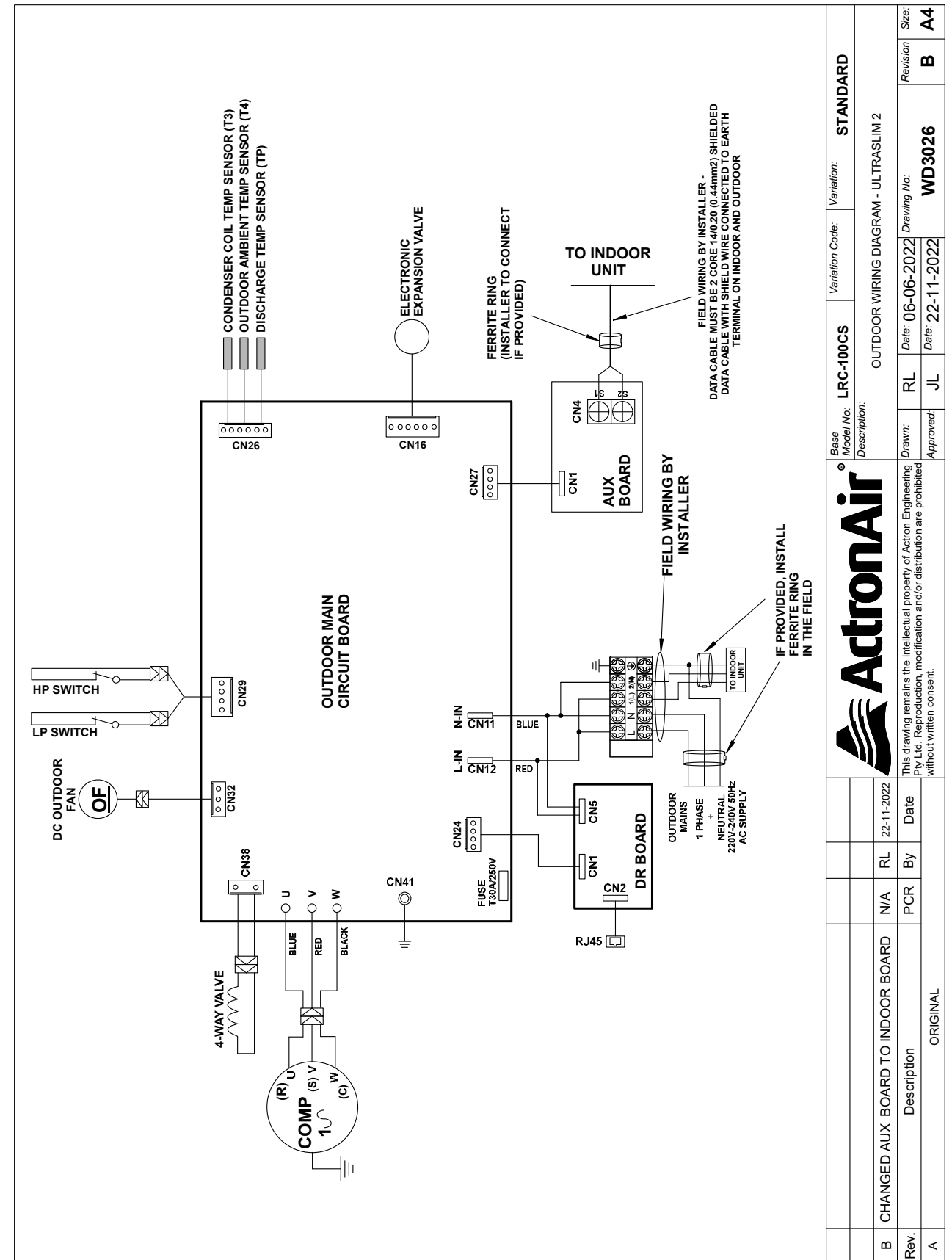


Rev.	A	Description	ORIGINAL	PCR	By	Date	
Drawn:	RL	Date:	06-06-2022	Approved:	JL	Date:	06-06-2022
Base Model No:	LRC-071CS	Variation Code:	STANDARD	Description:			OUTDOOR WIRING DIAGRAM - ULTRASLIM 2
Size:	A4	Revision:	A	Drawing No:	WD3025		

WIRING DIAGRAM

OUTDOOR

LRC-100CS

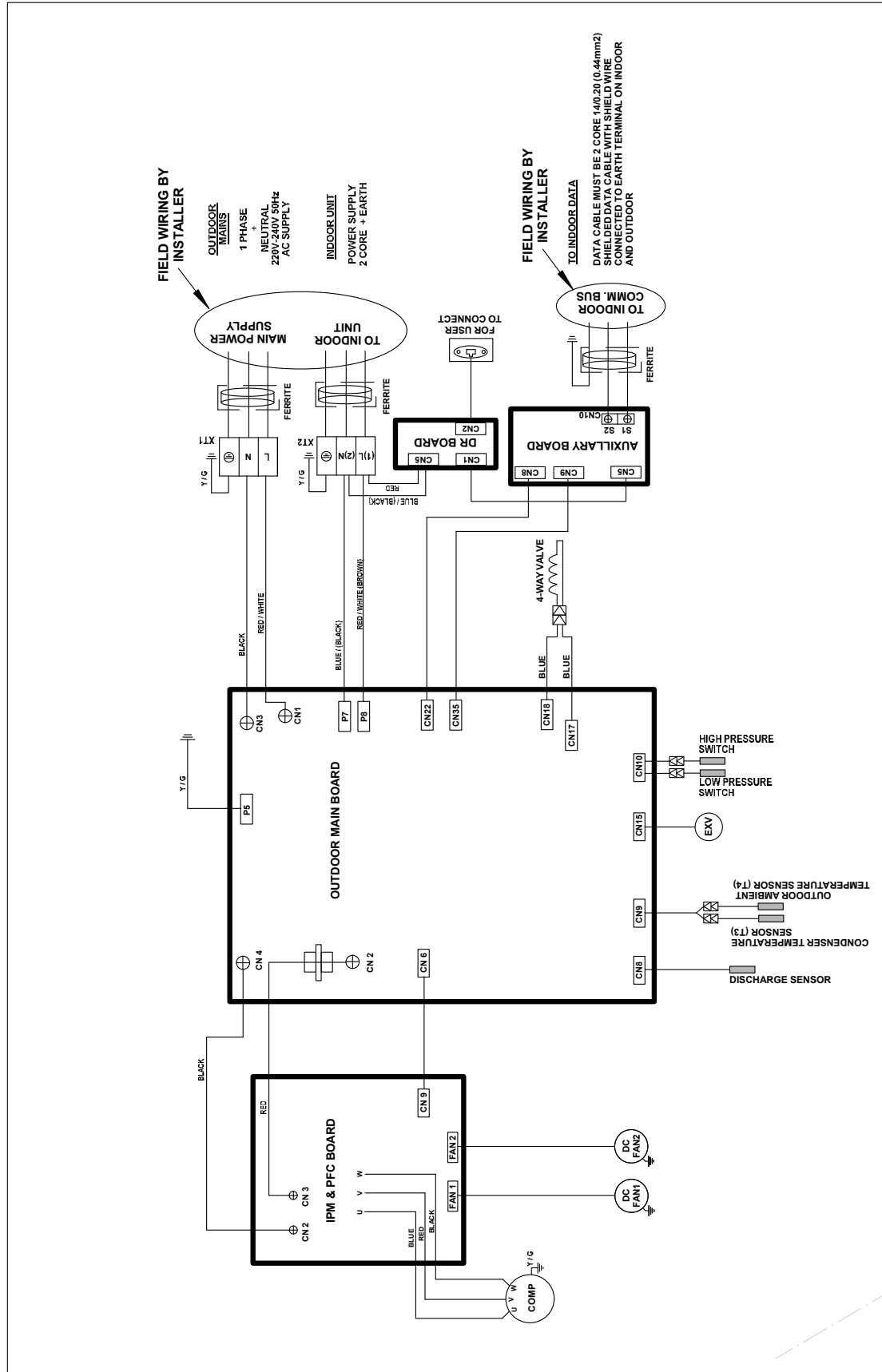


Rev.	A	Description	ORIGINAL	PCR	By	Date	
Drawn:	RL	Date:	06-06-2022	Approved:	JL	Date:	22-11-2022
Base Model No:	LRC-100CS	Variation Code:	STANDARD	Description:			OUTDOOR WIRING DIAGRAM - ULTRASLIM 2
Size:	A4	Revision:	B	Drawing No:	WD3026		

WIRING DIAGRAM

OUTDOOR

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

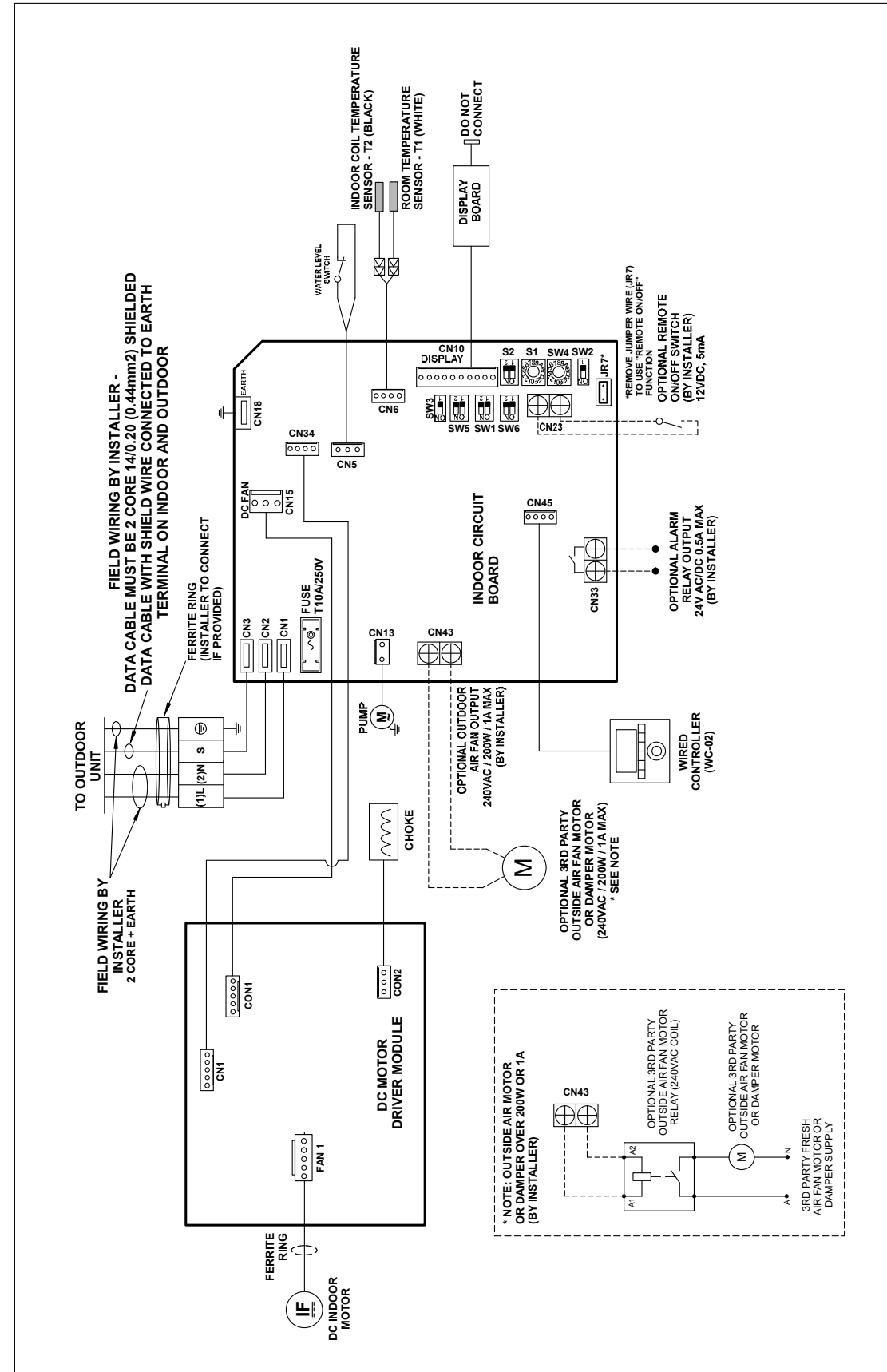


		<b>ActronAir</b> <small>This drawing remains the intellectual property of Actron Engineering Pty. Ltd. Reproduction, modification and/or distribution are prohibited without written consent.</small>	<b>STANDARD</b> <b>OUTDOOR WIRING DIAGRAM</b>
Base #	URC-125CS	Model No.	URC-140CS
Base #	LRC-170CS	Model No.	LRC-170CS
Rev.	A	Description	ORIGINAL
Rev.	B	Added	LRC170CS
Rev.	A	Rev.	06-06-2022
Rev.	A	Rev.	PCR
Rev.	A	Rev.	RL
Rev.	A	Rev.	06-06-2022
Rev.	A	Rev.	06-06-2022
Rev.	A	Rev.	WD3021
Rev.	A	Rev.	B
Rev.	A	Rev.	A4

WIRING DIAGRAM

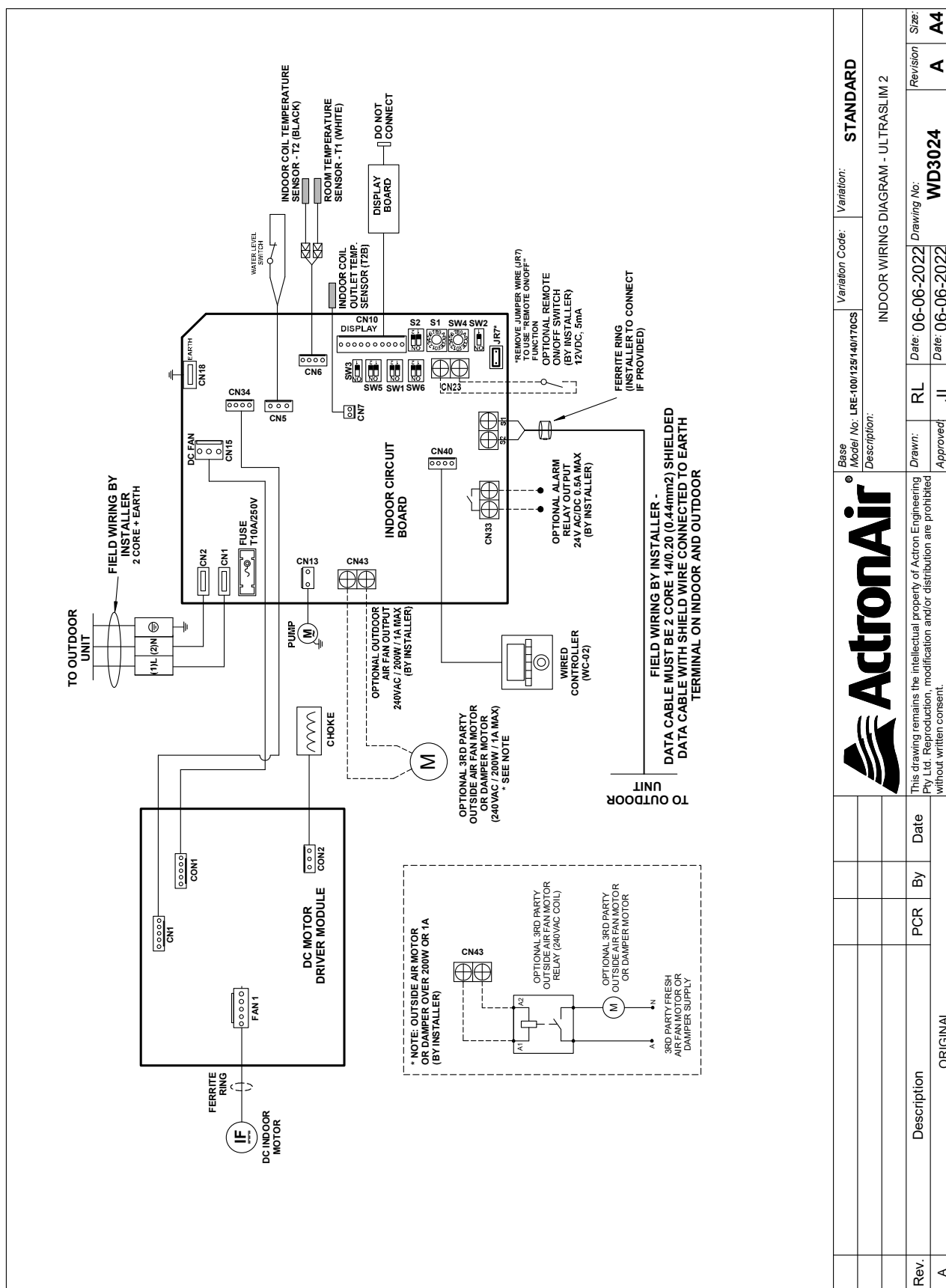
INDOOR

LRE-071CS



		<b>ActronAir</b> <small>This drawing remains the intellectual property of Actron Engineering Pty. Ltd. Reproduction, modification and/or distribution are prohibited without written consent.</small>	<b>STANDARD</b> <b>INDOOR WIRING DIAGRAM - ULTRASLIM 2</b>
Base #	LRE-071CS	Model No.	LRE-071CS
Base #	ULTRASLIM 2	Model No.	ULTRASLIM 2
Rev.	A	Description	ORIGINAL
Rev.	A	Rev.	06-06-2022
Rev.	A	Rev.	RL
Rev.	A	Rev.	JL
Rev.	A	Rev.	06-06-2022
Rev.	A	Rev.	WD3023
Rev.	A	Rev.	A
Rev.	A	Rev.	A4





- Technical Selection Data (Unit and Control Features)
- Specification Summary
- Capacity Selection Data
- Fan Curves
  - LRE-071 With Filter
  - LRE-071 Without Filter
  - LRE-100 With Filter
  - LRE-100 Without Filter
  - LRE-125 With Filter
  - LRE-125 Without Filter
  - LRE-140 With Filter
  - LRE-140 Without Filter
  - LRE-170 With Filter
  - LRE-170 Without Filter
- Unit and Mounting Dimensions
  - Outdoor
  - Indoor
- Specifications
- Wiring Diagram
  - Outdoor
  - Indoor