WEATHER LOUVRE TEST VENTUER

3 RESULTS

3.1 COEFFICIENT OF ENTRY

Manufacturer Ventuer Model AL-600W Date 15/11/2024 Contract 105677

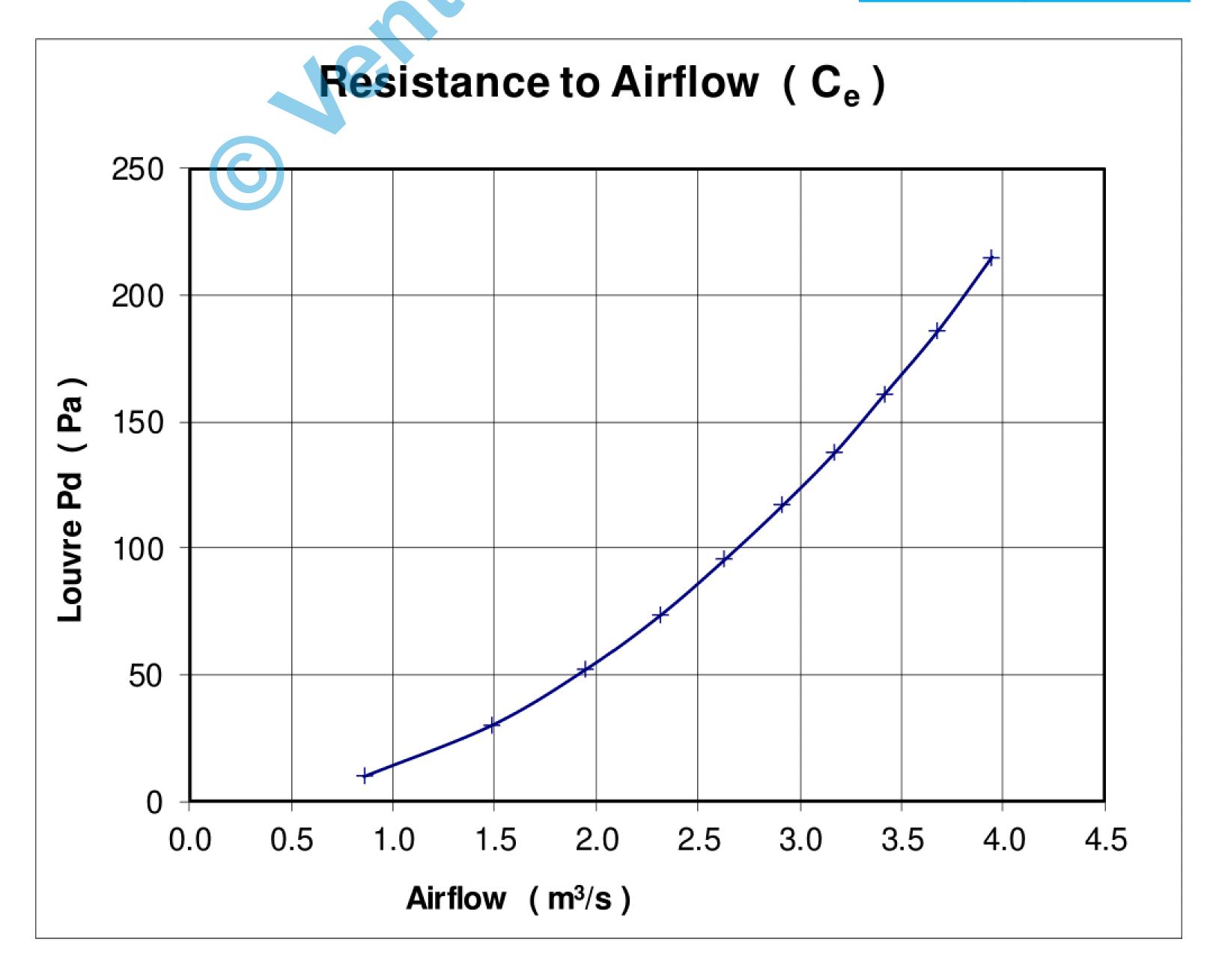
Air Temperature	17.9	°C
Barometer	1018.8	mbar
Air Density	1.215	kg/m ³

Core Area Height 995 mm

Core Area Width 994 mm

Core Area Area 0.989 m²

	Louvre Face Velocity	Air Flow Rate		
Louvre p.d.		Test	Theoretical	Coefficient
Pa	m/s	m³/s	m³/s	C_e
10.0	0.87	0.859	4.013	0.214
30.2	1.50	1.487	6.975	0.213
52.2	1.97	1.948	9.170	0.212
73.4	2.34	2.311	10.874	0.213
95.6	2.66	2.630	12.409	0.212
117.0	2.95	2.915	13.728	0.212
138.0	3.21	3.174	14.909	0.213
161.0	3.46	3.417	16.104	0.212
186.0	3.72	3.679	17.309	0.213
215.0	3.99	3.943	18.610	0.212
			Mean C _e	0.213
			Class	3



A 'trendline' for the above graph would follow $y = 13.61x^{2.0104}$

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WEATHER LOUVRE TEST VENTUER

3.2 COEFFICIENT OF DISCHARGE

Manufacturer Ventuer Model AL-600W Date 15/11/2024 Contract 105677

Air Temperature 18.5 °C

Barometer 1018.3 mbar

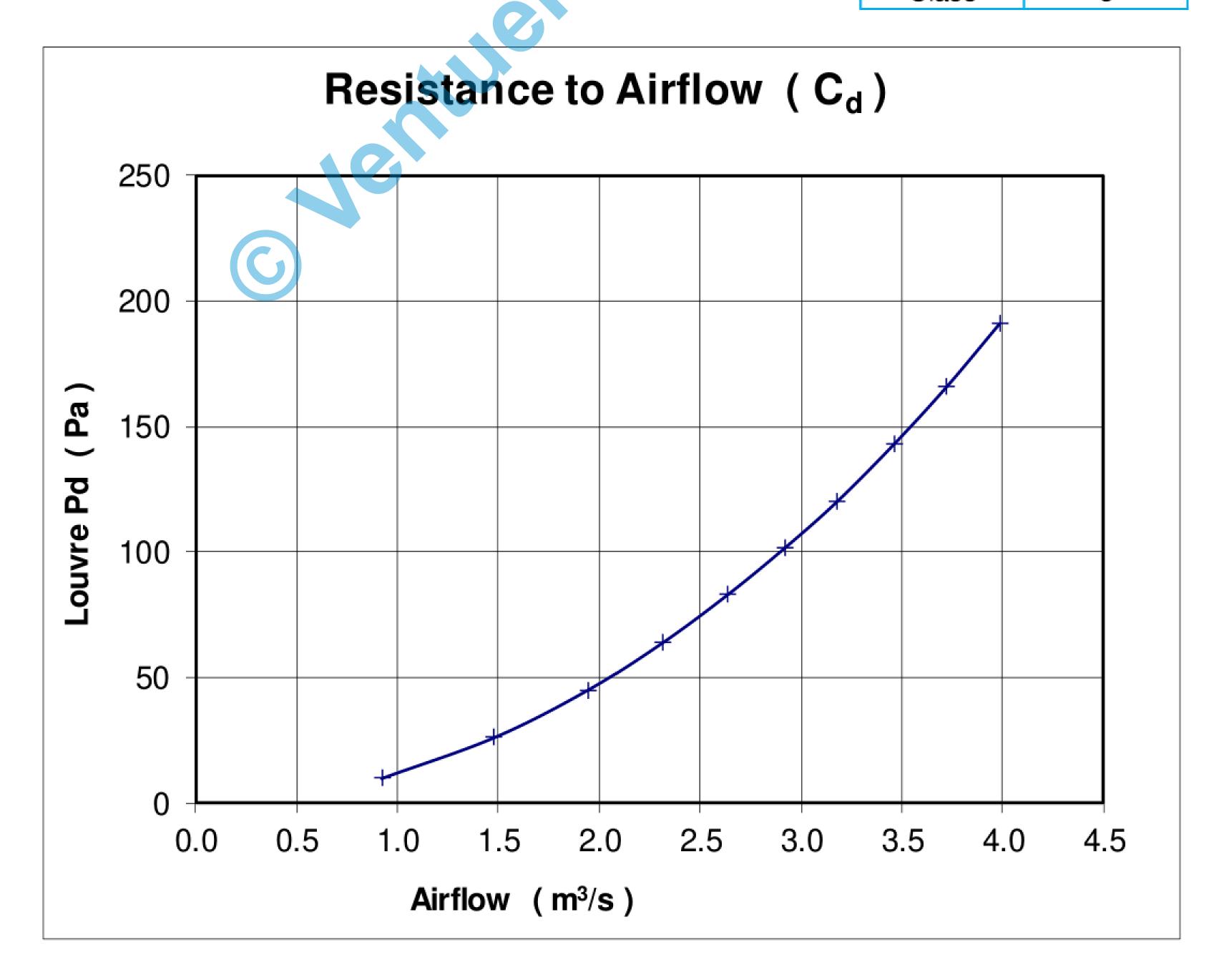
Air Density 1.212 kg/m³

Core Area Height 995 mm

Core Area Width 994 mm

Core Area Area 0.989 m²

	Louvre Face Velocity	Air Flow Rate		
Louvre p.d. Pa	m/s	Test m³/s	Theoretical m³/s	Coefficient C _d
10.1	0.93	0.921	4.038	0.228
26.4	1.50	1.482	6.529	0.227
45.1	1.96	1.942	8.534	0.228
64.0	2.34	2.314	10.166	0.228
83.3	2.67	2.639	11.598	0.228
102.0	2.96	2.924	12.834	0.228
120.0	3.21	3.178	13.920	0.228
143.0	3.50	3.463	15.196	0.228
166.0	3.77	3.726	16.372	0.228
191.0	4.03	3.988	17.562	0.227
			Mean C _d	0.228
			Class	3



A 'trendline' for the above graph would follow $y = 11.942x^{2.0007}$

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