WEATHER LOUVRE TEST VENTUER

3 RESULTS

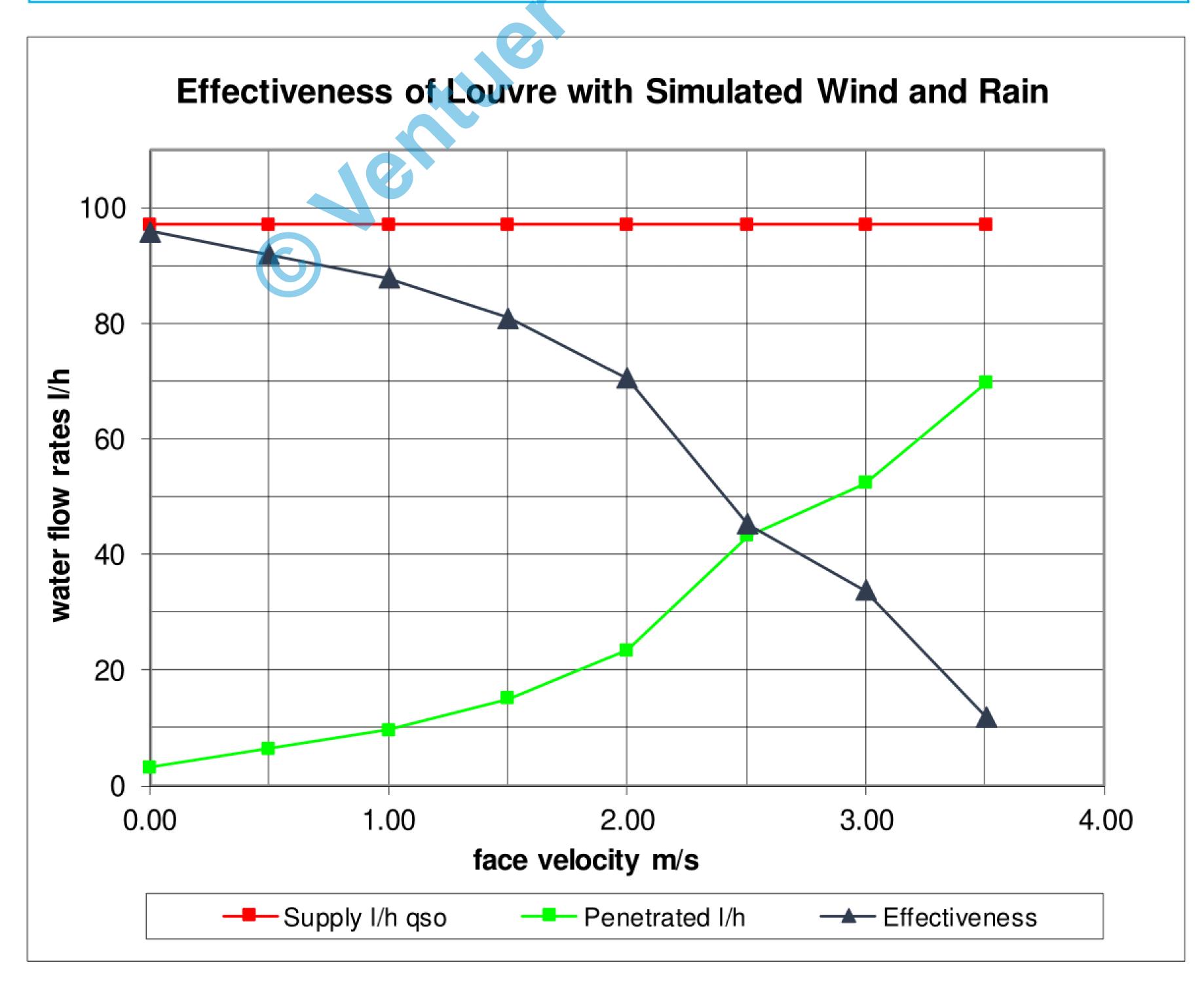
3.1 RAINWATER PENETRATION

Manufacturer Ventuer Model OL-100S

Date 11/11/2024 Contract 105677

Simulated Rainfall 75 (+10% / -0%) mm/hr Wind Speed 13 (+/-10%) m/s Core Area Height 933 mm
Core Area Width 955 mm
Core Area Area 0.891 m²

Ventilation Rate		Water Flow Rates			
Volume	Velocity	Supply	Penetrated	Effectiveness	Class
m ³ /s	m/s	l/h	l/h	%	
0.00	0.00	97.2	3.2	96.0	В
0.44	0.50	97.2	6.4	92.0	С
0.89	1.00	97.2	9.6	87.9	С
1.34	1.50	97.2	15.0	81.0	С
1.78	2.00	97.2	23.4	70.6	D
2.23	2.50	97.2	43.3	45.3	D
2.67	3.00	97.2	52.4	33.8	D
3.12	3.50	97.2	69.7	12.0	D



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3.2 COEFFICIENT OF ENTRY

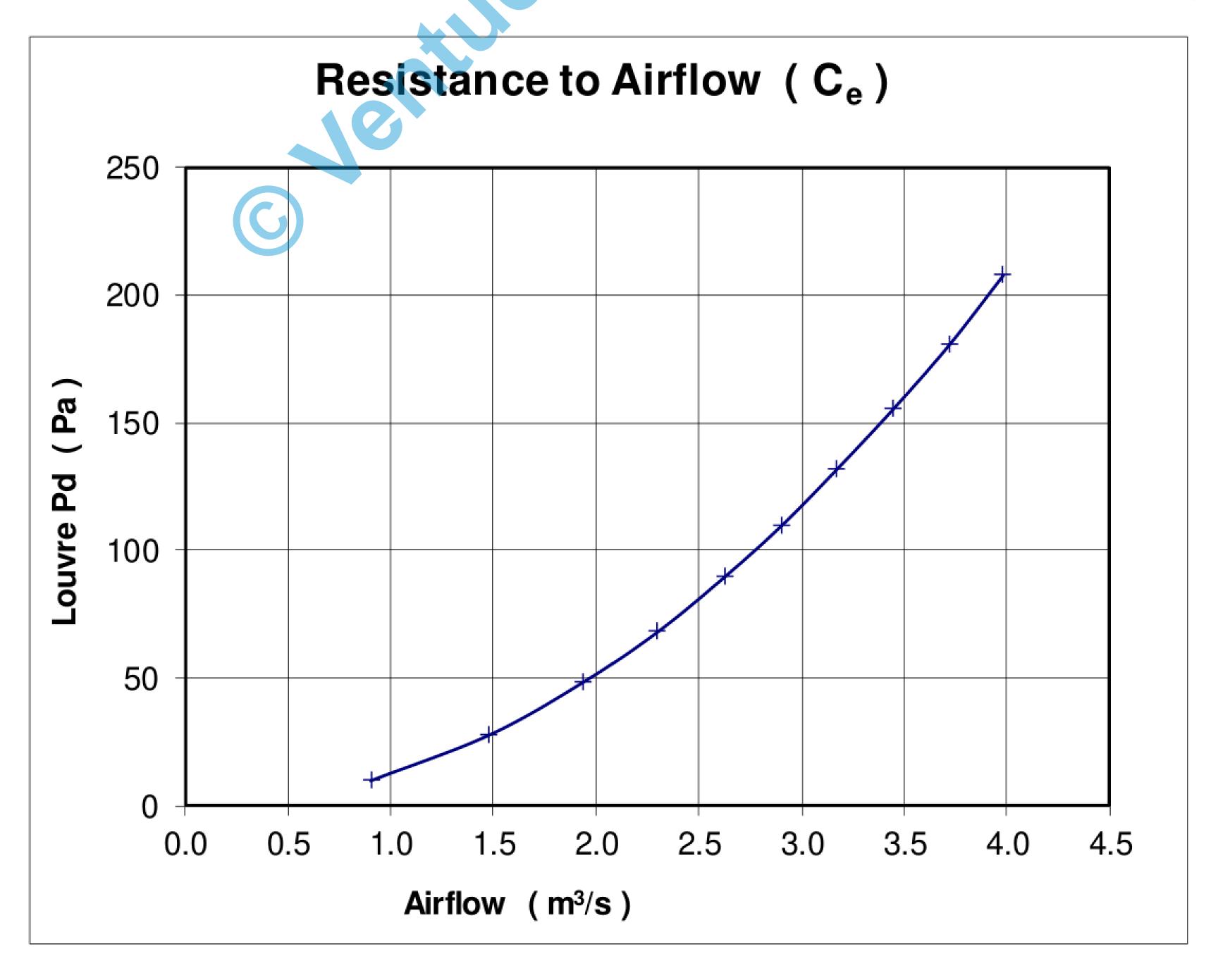
Manufacturer Ventuer
Model OL-100S

Date 14/11/2024 Contract 105677

Air Temperature	18.5	$^{\circ}C$
Barometer	1026.0	mbar
Air Density	1.221	kg/m ³

Core Area Height	933	mm
Core Area Width	955	mm
Core Area Area	0.891	m^2

	Louvre Face Velocity	Air Flo	v Rate	
Louvre p.d.		Test	Theoretical	Coefficient
Pa	m/s	m ³ /s	m³/s	C_e
10.1	1.02	0.904	3.625	0.250
28.0	1.66	1.481	6.035	0.245
48.5	2.17	1.935	7.943	0.244
68.3	2.58	2.298	9.426	0.244
89.8	2.94	2.624	10.808	0.243
110.0	3.26	2.902	11.962	0.243
132.0	3.56	3.171	13.104	0.242
156.0	3.87	3.450	14.245	0.242
181.0	4.18	3.721	15.344	0.242
208.0	4.47	3.981	16.449	0.242
			Mean C _e	0.244
			Class	3



A 'trendline' for the above graph would follow $y = 12.512x^{2.0388}$

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WEATHER LOUVRE TEST VENTUER

3.3 COEFFICIENT OF DISCHARGE

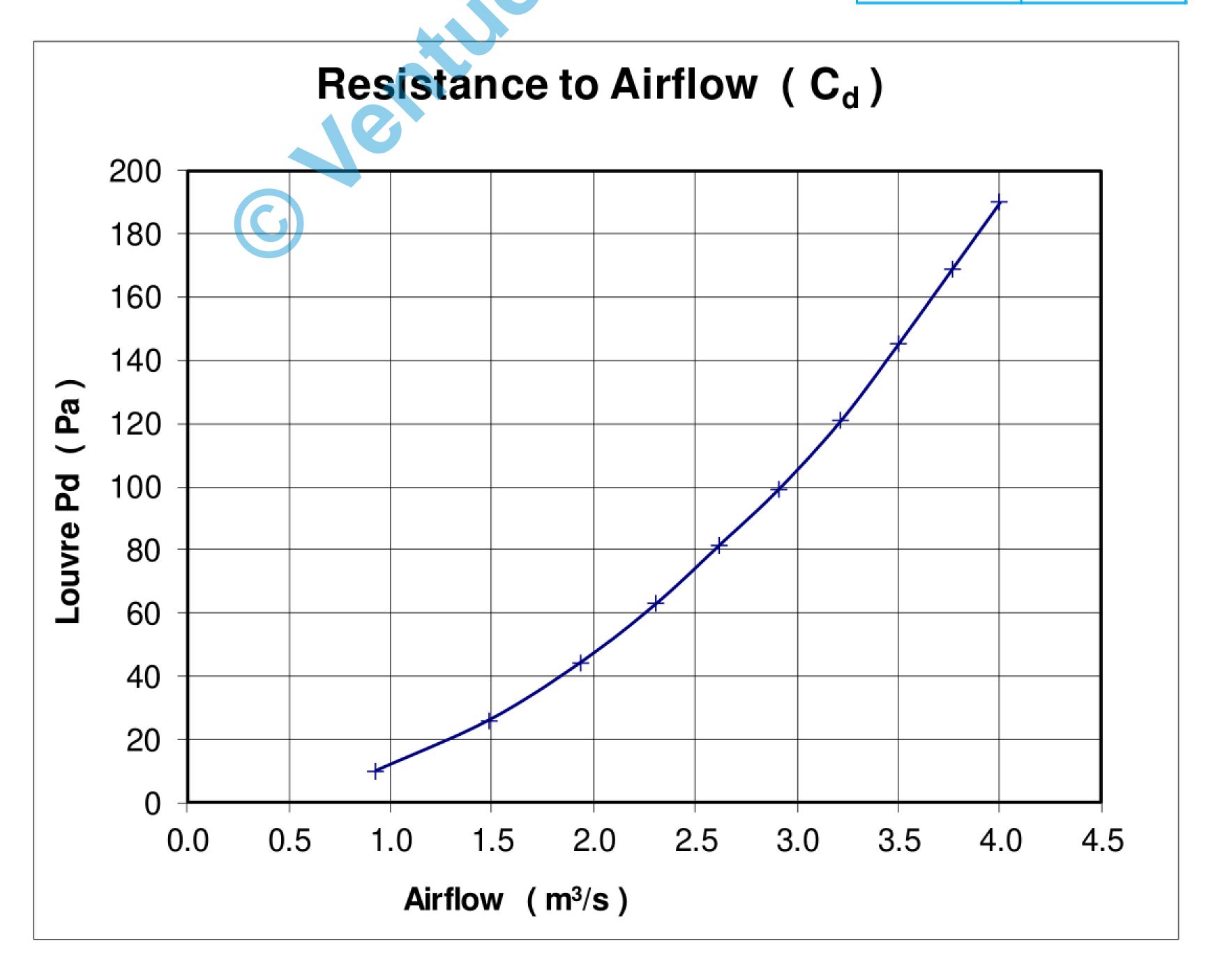
Manufacturer Ventuer
Model OL-100S

Date 14/11/2024 Contract 105677

Air Temperature	19.1	$^{\circ}$ C
Barometer	1025.7	mbar
Air Density	1.218	kg/m ³

Core Area Height	933	mm
Core Area Width	955	mm
Core Area Area	0.891	m^2

	Louvre Face Velocity	Air Flo	w Rate	
Louvre p.d.		Test	Theoretical	Coefficient
Pa	m/s	m³/s	m ³ /s	C _d
10.0	1.04	0.928	3.611	0.257
26.0	1.66	1.483	5.822	0.255
44.4	2.17	1.937	7.609	0.255
63.0	2.59	2.308	9.063	0.255
81.6	2.94	2.621	10.315	0.254
99.2	3.27	2.911	11.373	0.256
121.0	3.61	3.219	12.561	0.256
145.0	3.93	3.499	13.750	0.254
169.0	4.23	3.767	14.844	0.254
190.0	4.49	4.001	15.740	0.254
			Mean C _d	0.255
			Class	3



A 'trendline' for the above graph would follow $y=11.703x^{2.0091}$

Χ

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