3 RESULTS

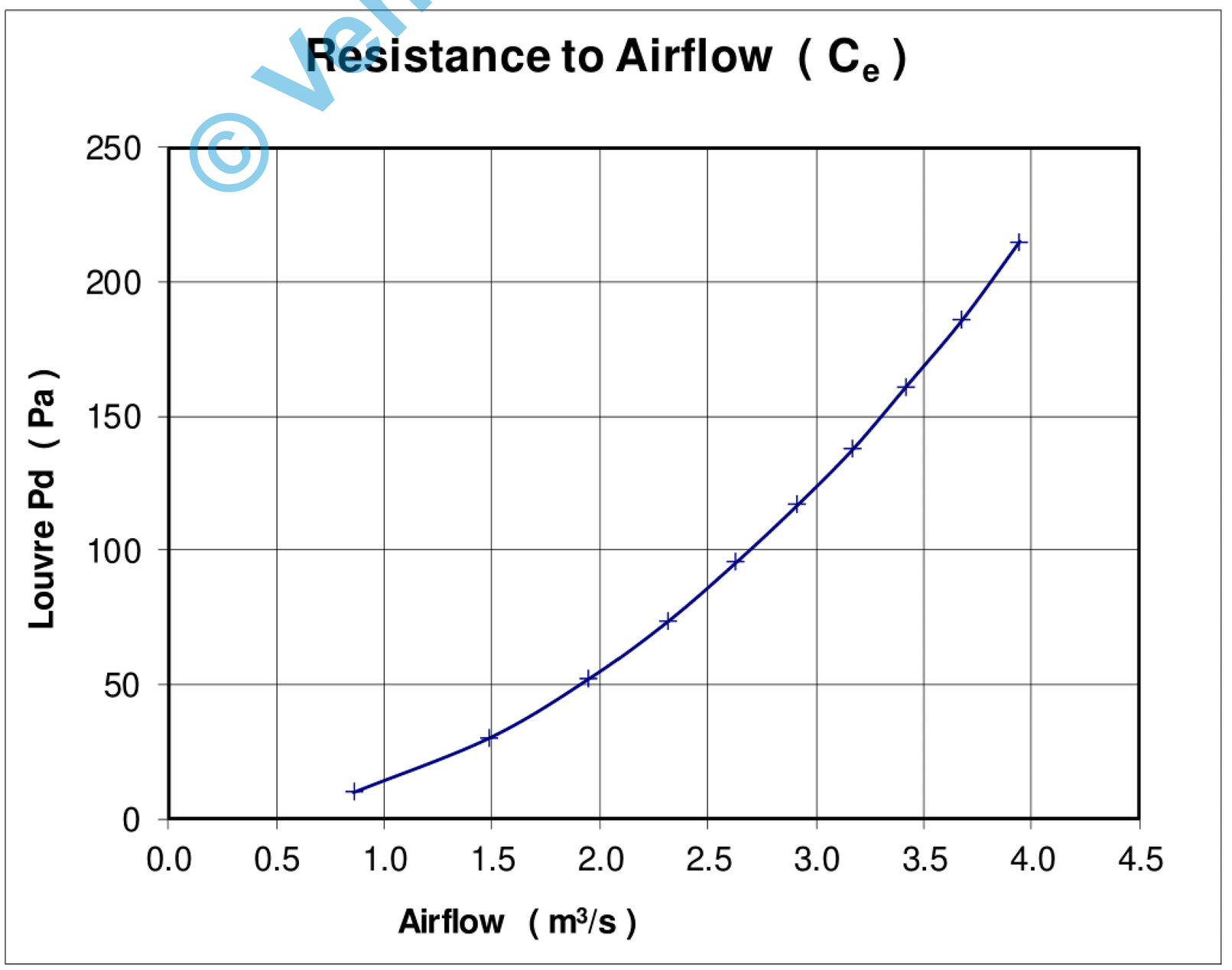
3.1 COEFFICIENT OF ENTRY

Manufacturer Ventuer
Model AL-600W

Date 15/11/2024
Contract 105677

Air Temperature	17.9	°C	Core Area Height	995	mm
Barometer	1018.8	mbar	Core Area Width	994	mm
Air Density	1.215	kg/m^3	Core Area Area	0.989	m^2

	Louvre Face Velocity	Air Flow Rate		
Louvre p.d. Pa	m/s	Test m^3/s	Theoretical m^3/s	Coefficient 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 $y = 13.61x^{2.0104}$

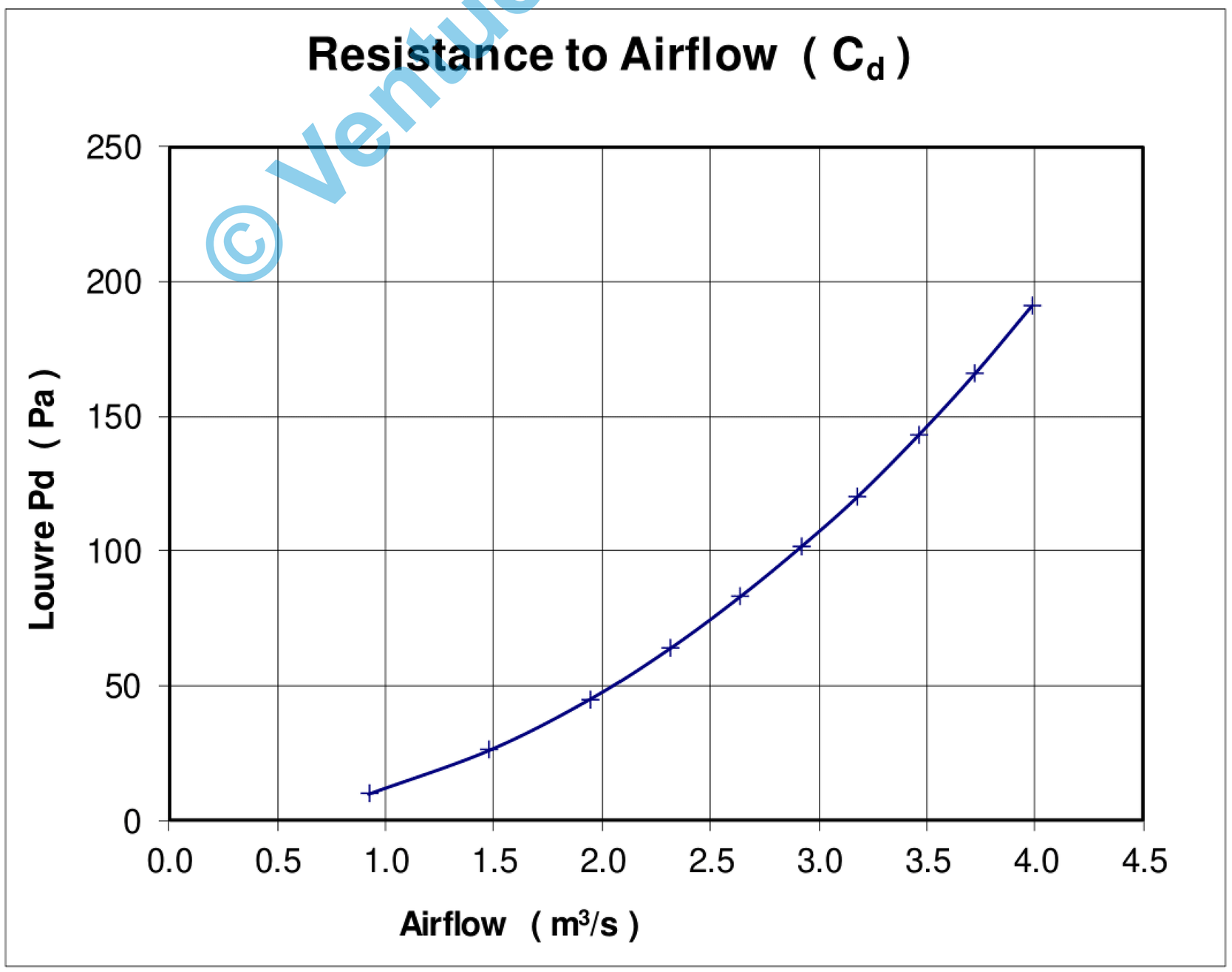
3.2 COEFFICIENT OF DISCHARGE

Manufacturer Ventuer
Model AL-600W

Date 15/11/2024
Contract 105677

Air Temperature	18.5	°C	Core Area Height	995	mm
Barometer	1018.3	mbar	Core Area Width	994	mm
Air Density	1.212	kg/m^3	Core Area Area	0.989	m^2

	Louvre Face Velocity	Air Flow Rate		
Louvre p.d. Pa	m/s	Test m^3/s	Theoretical m^3/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 $y = 11.942x^{2.0007}$