

3 RESULTS

3.1 COEFFICIENT OF ENTRY

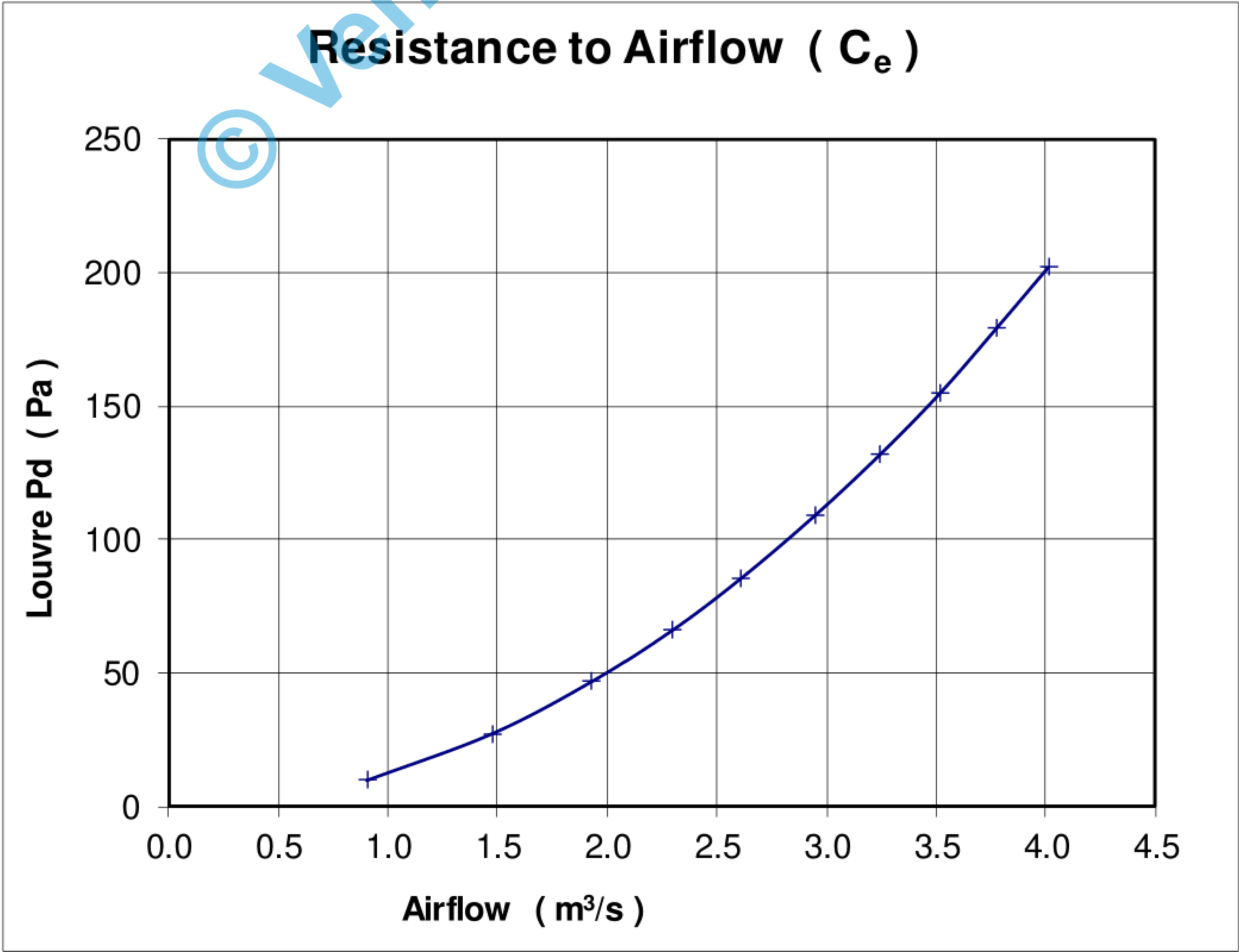
Manufacturer Ventuer
Model AL-600V

Date 14/11/2024
Contract 105677

Air Temperature 15.5 °C
Barometer 1026.8 mbar
Air Density 1.234 kg/m³

Core Area Height 995 mm
Core Area Width 993 mm
Core Area Area 0.988 m²

Louvre p.d. Pa	Louvre Face Velocity	Air Flow Rate		Coefficient C _e
	m/s	Test m ³ /s	Theoretical m ³ /s	
10.1	0.91	0.903	3.997	0.226
27.5	1.49	1.473	6.596	0.223
46.8	1.95	1.924	8.604	0.224
66.0	2.32	2.292	10.218	0.224
85.6	2.64	2.609	11.637	0.224
109.0	2.98	2.945	13.131	0.224
132.0	3.28	3.245	14.450	0.225
155.0	3.56	3.520	15.659	0.225
179.0	3.82	3.775	16.827	0.224
202.0	4.06	4.013	17.876	0.225
Mean C _e				0.224
Class				3



A ‘trendline’ for the above graph would follow $y = 12.528x^{2.0025}$