

3 RESULTS

3.1 COEFFICIENT OF ENTRY

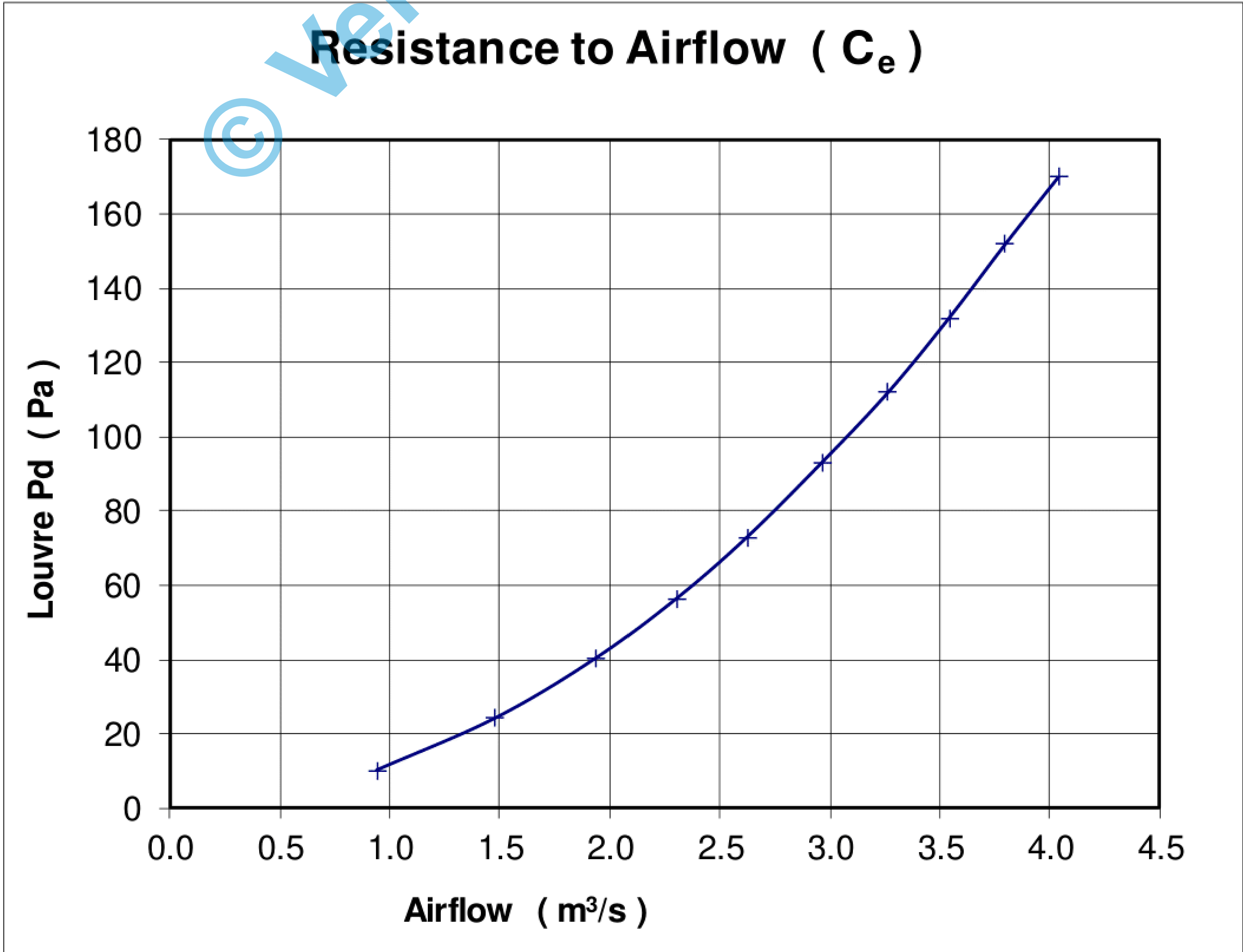
Manufacturer Ventuer  
Model AL-300V

Date 14/11/2024  
Contract 105677

Air Temperature18.9 °C  
Barometer1025.4 mbar  
Air Density1.218 kg/m³

Core Area Height996 mm  
Core Area Width995 mm  
Core Area Area0.991 m²

Louvre p.d. Pa	Louvre Face Velocity	Air Flow Rate		Coefficient C <sub>e</sub>
	m/s	Test m³/s	Theoretical m³/s	
10.0	0.95	0.941	4.015	0.234
24.1	1.50	1.482	6.234	0.238
40.2	1.95	1.937	8.051	0.241
56.5	2.33	2.307	9.544	0.242
73.0	2.65	2.626	10.849	0.242
93.0	2.99	2.964	12.245	0.242
112.0	3.30	3.266	13.438	0.243
132.0	3.57	3.543	14.589	0.243
152.0	3.83	3.799	15.655	0.243
170.0	4.08	4.039	16.556	0.244
Mean C <sub>e</sub>				0.241
Class				3



A ‘trendline’ for the above graph would follow  $y = 11.183x^{1.9483}$