

Barcol-Air Netherlands casing leakage test sheet

According to standard NEN-EN 1751-2014

Test setup			
Date	22-9-2023	Reference nr.	LM-23-0019
Exp. Date	22-9-2026	Tested by	DD
Place	Barcol-Air	Witness by	MBs

Contact information	
Tel	+31 (0)299 689 300
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Model (Name/Type):	ADFOMOO-0400-0400	Result:	Class C
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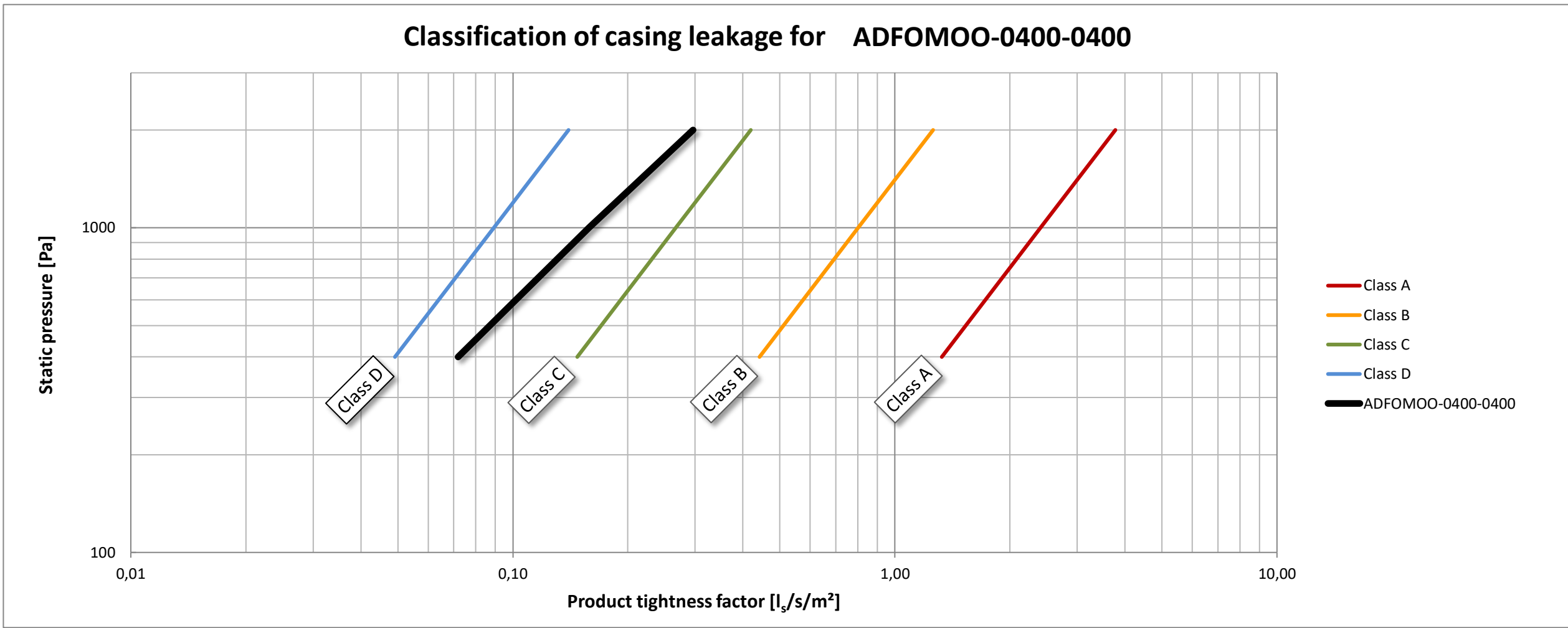
Product specifications		
Productcode	ADFOMOO-0400-0400	
Model	0400-0400	
Case Width	0,400	[m]
Case Height	0,400	[m]
Case Diameter		[m]
Case Length		[m]
Real Duct surface	0,000	[m²]
Virtual Duct surface	1,600	[m²]
Note:	When Case Length <1m; 1m is used in calculations as specified by LUKA.	

Measurement specifications		
Pressure time		60 seconds
Pressure controller		
Airflow meter(s)	Low Flow	F-111B-20K-RAD-00-V
	High Flow	F-112AC-M20-RAD-55-V
Rated Accuracy	Pressure Ctrl	± 0,05%Rd + 0,093%FS
	Low Flow	± 0.5%Rd + 0,1%FS
	High Flow	± 0,5%Rd + 0,1%FS
	Pressure Ctrl	25-11-2021
Date calibrated	Low Flow	6-12-2021
	High Flow	8-12-2021
Leakage is measured in normal liters (= 1 liter at 0°C and 101325 pa)		

NEN-EN 1751-2014	
Max. Leakagefactor [l _s /m²]	
Class A	0,027
Class B	0,009
Class C	0,003
Class D	0,001
$\Phi L = f \times P_s^{0,65}$	
ΦL Leakage [l _s /m²]	
f = Leakagefactor	
P _s = Static Pressure	

Measurements and calculations					
Reading	Measure instrument	Static pressure	Measured air leakage rate	Corrected air leakage rate 20°C	Product tightness factor
		[Pa]	[l _s /s]	[l _s /s]	[l _s /m²]
1	High Flow	400	0,115	0,115	0,072
2	High Flow	1000	0,253	0,253	0,158
3	High Flow	2000	0,474	0,474	0,296
4	High Flow				
5	High Flow				

LUKA standards				
Class A	Class B	Class C	Class D	Estimated class
[l _s /m²]	[l _s /m²]	[l _s /m²]	[l _s /m²]	
1,33	0,44	0,15	0,05	Class C
2,41	0,80	0,27	0,09	Class C
3,78	1,26	0,42	0,14	Class C
0,00	0,00	0,00	0,00	Class C
0,00	0,00	0,00	0,00	Class C



Other results	
Visual deformation	Negative
Pressure [Pa]	2000

*As the tested model is the smallest model of this product range, the same classification result (or better) is valid for all larger models.

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Certificate nr. P-97/52-45

Calibration certifications nr.

Low Flow BHTG19/CHK/6295235

High Flow BHTG22/6301522

Pressure ctrl not specified