

Barcol-Air Netherlands casing leakage test sheet

According to standard NEN-EN 15727-2010

Test setup		
Date	20-8-2020	Reference nr. LM-20-0014
Exp. Date	20-8-2023	Tested by TP
Place	Barcol-Air	Witness by MBs
Air temperature	20 [°C]	
Atmospheric pressure	1013 [hPa]	

Contact information	
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Model (Name/Type): circular attenuator type ABR5A00

Result: Class C

Product specifications		
Productcode	ABR5A00	
Model	200x600	
Case Width		[m]
Case Height		[m]
Case Diameter	0,200	[m]
Case Length	0,600	[m]
Real Duct surface	0,377	[m ²]
Virtual Duct surface	0,628	[m ²]
Note:	When Case Length <1m; 1m is used in calculations as specified by LUKA.	

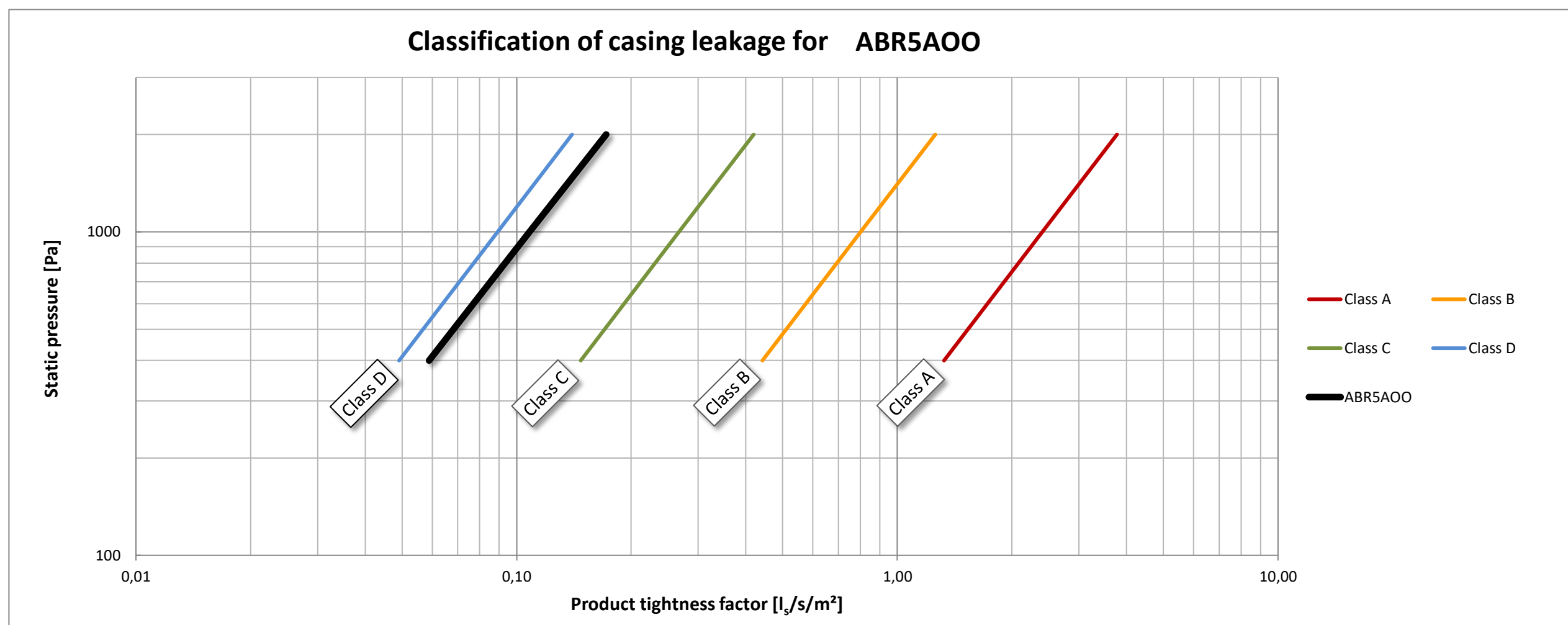
Measurement specifications		
Pressure time	60 seconds	
Pressure controller	PR-41X/20mbar/81955.50	
Airflow meter(s)	Low Flow	F-111B-20K-RAD-00-V
	High Flow	F-112AC-M20-RAD-55-V
Rated Accuracy	Pressure Ctrl	± 0,05%Rd + 0,093%FS
	Low Flow	± 0,5%Rd + 0,1%FS
	High Flow	± 0,5%Rd + 0,1%FS
	Pressure Ctrl	21-2-2020
Date calibrated	Low Flow	8-10-2020
	High Flow	9-10-2020

Leakage is measured in normal liters (= 1 liter at 0°C and 101325 pa)

NEN-EN 15727-2010	
Max. Leakagefactor [l _v /s/m ²]	
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 _v /s/m ²]	
f = Leakagefactor	
P _s = Static Pressure	

Measurements and calculations					
Reading	Measure instrument	Static pressure [Pa]	Measured air leakage rate [l _v /s]	Corrected air leakage rate 20°C [l _v /s]	Product tightness factor [l _v /s/m ²]
1	Low Flow	400	0,037	0,037	0,059
2	Low Flow	1000	0,068	0,068	0,108
3	Low Flow	2000	0,108	0,108	0,172
4	Low Flow				
5	Low Flow				

LUKA standards				
Class A [l _v /s/m ²]	Class B [l _v /s/m ²]	Class C [l _v /s/m ²]	Class D [l _v /s/m ²]	Estimated class
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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Calibration certifications nr.
 Low Flow BHTG19/5615748
 High Flow BHTG22/5617022
 Pressure ctrl not specified