

Barcol-Air Netherlands casing leakage test sheet

According to standard NEN-EN 1751-2014

Test setup	
Date	6-9-2023
Exp. Date	6-9-2026
Place	Barcol-Air
Reference nr.	LM-23-0015
Tested by	DD
Witness by	MBS

Contact information	
Tel	+31 (0)299 689 300
Email	barcol-air@hcgroep.com
Website	www.barcol-air.nl



Model (Name/Type): **AB(R/S)5AOO-0100-0600**

Result: **C**

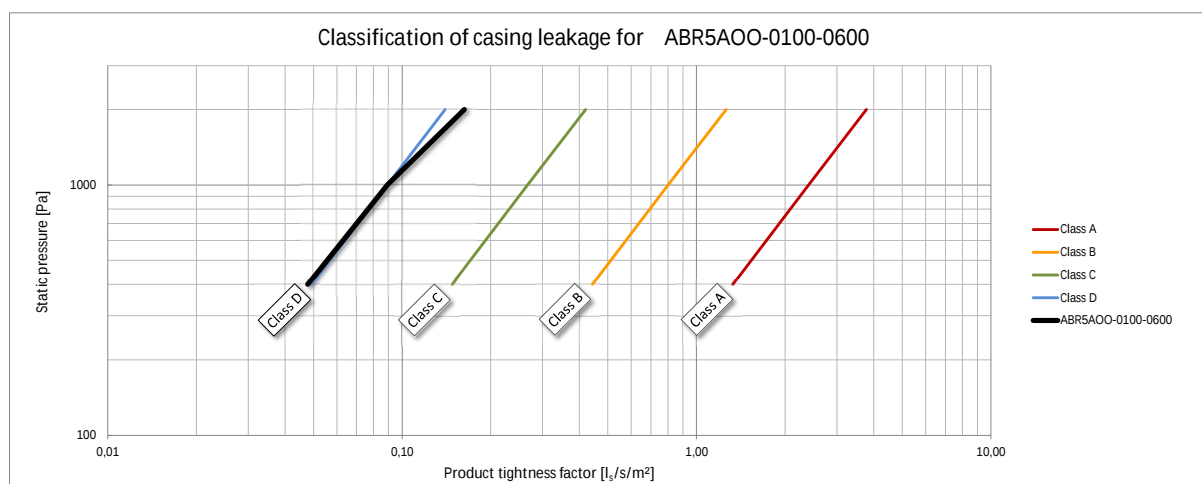
Product specifications	
Productcode	ABR5AOO-0100-0600
Model	100
Case Width	(m)
Case Height	(m)
Case Diameter	0,100 (m)
Case Length	0,600 (m)
Real Duct surface	0,188 (m²)
Virtual Duct surface	0,314 (m²)
Note: When Case Length < 1m, 1m is used in calculations as specified by LUKA.	

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
Date calibrated	High Flow ± 0.5%Rd + 0.1%FS
	Pressure Ctrl 25-11-2021
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
		[Pa]	[L/s]	[L/s]
1	Low Flow	400	0,015	0,015
2	Low Flow	1000	0,028	0,028
3	Low Flow	2000	0,051	0,051
4				
5				
		Product tightness factor		
		[L/s/m²]		
		0,048		
		0,089		
		0,162		

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 D
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