

# Barcol-Air Netherlands casing leakage test sheet

## According to standard NEN-EN 1751-2014

Test setup	
Date	26-9-2024
Exp. Date	26-9-2027
Place	Barcol-Air
Reference nr.	LM-24-0004
Tested by	TK
Witness by	MBS

Contact information	
Tel	+31 (0)299 689 300
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Model (Name/Type): **N(A/B)OBOOB-160**

Result: **Class C**

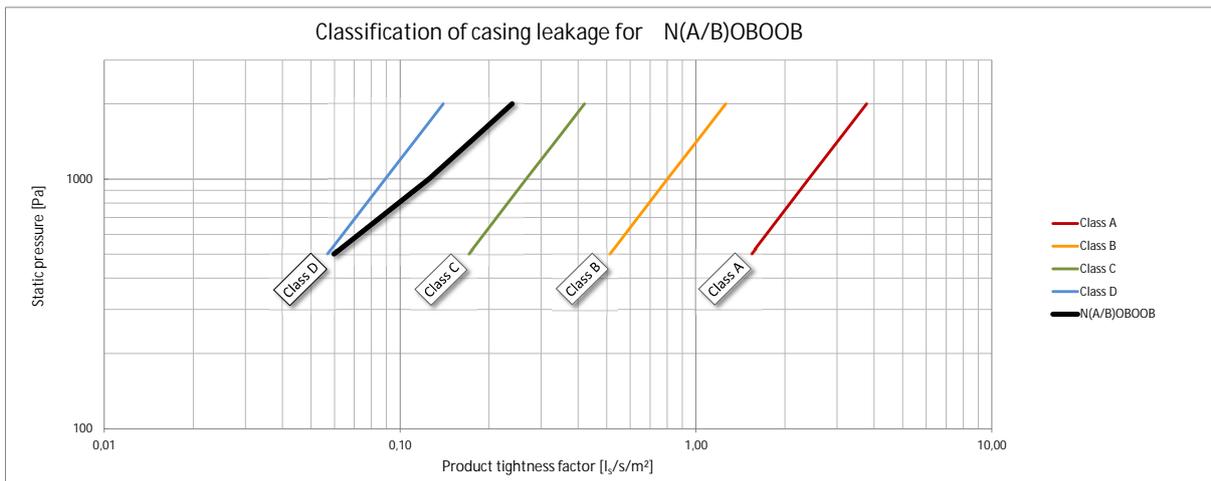
Product specifications	
Productcode	N(A/B)OBOOB
Model	160
Case Width	[m]
Case Height	[m]
Case Diameter	0,160 [m]
Case Length	0,500 [m]
Real Duct surface	0,251 [m <sup>2</sup> ]
Virtual Duct surface	0,503 [m <sup>2</sup> ]
Note: When Case Length < 1m, 1m is used in calculations as specified by LUKA.	

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/m <sup>2</sup> ]	
Class A	0,027
Class B	0,009
Class C	0,003
Class D	0,001
$\Phi L = f \times P_s^{0,65}$	
$\Phi L$	Leakage [L/s/m <sup>2</sup> ]
f	Leakagefactor
P <sub>s</sub>	Static Pressure

Measurements and calculations					
Reading	Measure instrument	Static pressure [Pa]	Measured air leakage rate [L/s]	Corrected air leakage rate 20°C [L/s]	Product tightness factor [L/s/m <sup>2</sup> ]
1		500	0,030	0,030	0,060
2		1000	0,063	0,063	0,125
3		1500	0,092	0,092	0,183
4		2000	0,120	0,120	0,239
5					

LUKA standards				
Class A	Class B	Class C	Class D	Estimated class
[L/s/m <sup>2</sup> ]	[L/s/m <sup>2</sup> ]	[L/s/m <sup>2</sup> ]	[L/s/m <sup>2</sup> ]	
1,53	0,51	0,17	0,06	Class C
2,41	0,80	0,27	0,09	Class C
3,13	1,04	0,35	0,12	Class C
3,78	1,26	0,42	0,14	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/CHK/6295235  
 High Flow BHTG22/6301522  
 Pressure ctrl not specified