

Barcol-Air Netherlands casing leakage test sheet

According to standard NEN-EN 1751-2014



Test setup	
Date	10-3-2020
Reference nr.	LM-20-0002B
Exp. Date	10-3-2023
Tested by	TK
Place	Barcol-Air
Witness by	MBs
Air temperature	20 [°C]
Atmospheric pressure	1013 [hPa]

Contact information	
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Model (Name/Type):	VAV terminal rectangular single wall type NK0A00B/L	Result:	Class C
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Product specifications	
Productcode	NLOA00B
Model	100x300
Case Width	0,100 [m]
Case Height	0,300 [m]
Case Diameter	[m]
Case Length	[m]
Real Duct surface	0,000 [m ²]
Virtual Duct surface	0,800 [m ²]
Note:	When Case Length <1m, 1m is used in calculations as specified by LUKA.

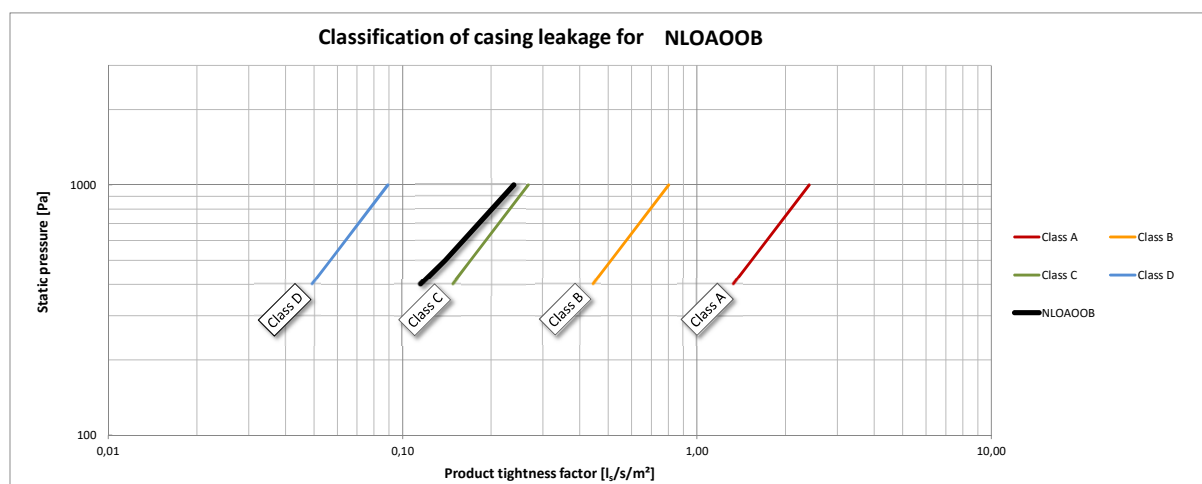
Measurement specifications		
Pressure time	60 seconds	
Pressure controller	PR-41X/20mbar/81955.50	
Airflow meter(s)	Low Flow	F-111B-20K-RAD-00-V
	High Flow	F-112AC-M20-RAD-55-V
Rated Accuracy	Pressure Ctrl	± 0,05%Rd + 0,093%FS
	Low Flow	± 0,5%Rd + 0,1%FS
Date calibrated	High Flow	± 0,5%Rd + 0,1%FS
	Pressure Ctrl	21-2-2020
Low Flow	18-2-2020	
	High Flow	17-2-2020

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

NEN-EN 1751-2014	
Max. Leakagefactor [L/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/s/m ²]	
f = Leakagefactor	
P _s = 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 ²]
1	Low Flow	400	0,086	0,092	0,115
2	Low Flow	500	0,104	0,112	0,139
3	Low Flow	1000	0,178	0,191	0,239
4					
5					

LUKA standards				
Class A	Class B	Class C	Class D	Estimated class
[L/s/m ²]	[L/s/m ²]	[L/s/m ²]	[L/s/m ²]	
1,33	0,44	0,15	0,05	Class C
1,53	0,51	0,17	0,06	[L/s/m ²]
2,41	0,80	0,27	0,09	0
0,00	0,00	0,00	0,00	0
0,00	0,00	0,00	0,00	0



Other results	
Visual deformation	Negative
Pressure [Pa]	0

*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 BHTG19/5369552
 High Flow BHTG22/5368561
 Pressure ctrl not specified