

Barcol-Air Netherlands casing leakage test sheet

According to standard NEN-EN 1751-2014

Test setup		
Date	23-4-2020	Reference nr. LM-20-0005
Exp. Date	23-4-2023	Tested by MBs
Place	Barcol-Air	Witness by TK

Contact information	
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Model (Name/Type): **EPP CERA-1 model 125**

Result: **Class C**

Product specifications		
Productcode	NXOJEP125RCERA1	
Model	125	
Case Width	0,416	[m]
Case Height	0,275	[m]
Case Diameter		[m]
Case Length	0,440	[m]
Real Duct surface	0,608	[m ²]
Virtual Duct surface	1,382	[m ²]
Note:	When Case Length <1m; 1m is used in calculations as specified by LUKA.	

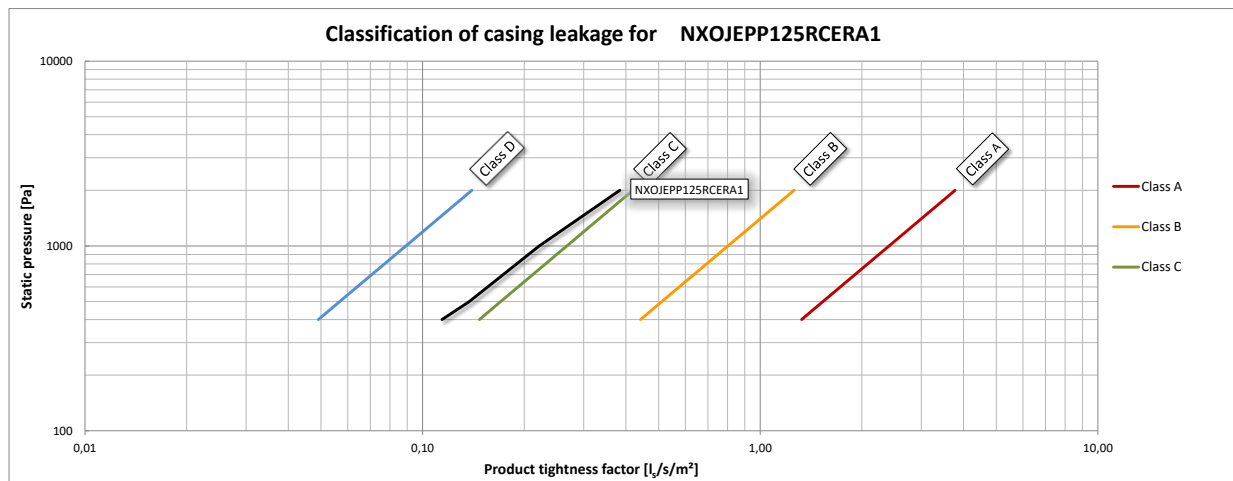
Measurement specifications		
Pressure time	60 seconds	
Pressure controller	PR-41X/20mbar/81955.50	
Airflow meter(s)	Low Flow	F-111B-20K-RAD-00-V
	High Flow	F-112AC-M20-RAD-5S-V
Rated Accuracy	Pressure Ctrl	± 0.05%Rd + 0.093%FS
	Low Flow	± 0.5%Rd + 0.1%FS
	High Flow	± 0.5%Rd + 0.1%FS
Date calibrated	Pressure 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
$\Phi L = f \times P_s^{0,65}$	
$\Phi L =$ 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		400	0,147	0,16	0,11
2		500	0,177	0,19	0,14
3		1000	0,285	0,31	0,22
4		2000	0,494	0,53	0,38

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]	
0,00	0,00	0,00	0,00	
1,33	0,44	0,15	0,05	Class C
1,53	0,51	0,17	0,06	Class C
2,41	0,80	0,27	0,09	Class C
3,78	1,26	0,42	0,14	Class C



Other results	
Visual deformation	Negative
Pressure [Pa]	2000

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Calibration certifications nr.
 Low Flow BHTG19/5369552
 High Flow BHTG22/5368561
 Pressure ctrl not specified