

Casing leakage test sheet

Test setup		Reference nr.
Date	6-3-2015	LM-15.0012
Exp. Date	6-3-2018	Tested by Rik v. Kroonenburg
Place	Barcol-Air	Witness by Maurice Jong
measure temperature	19,1 [°C]	
Atmospheric pressure	1,033 [hPa]	
Correctionfactor	1,023	

Contact information	
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Model (Name/Type):	Mechanical System Powered CAV terminal, type: N(R/T)OBOVO diameter 80 mm, Q=40 m3/hr	Result:	Class D
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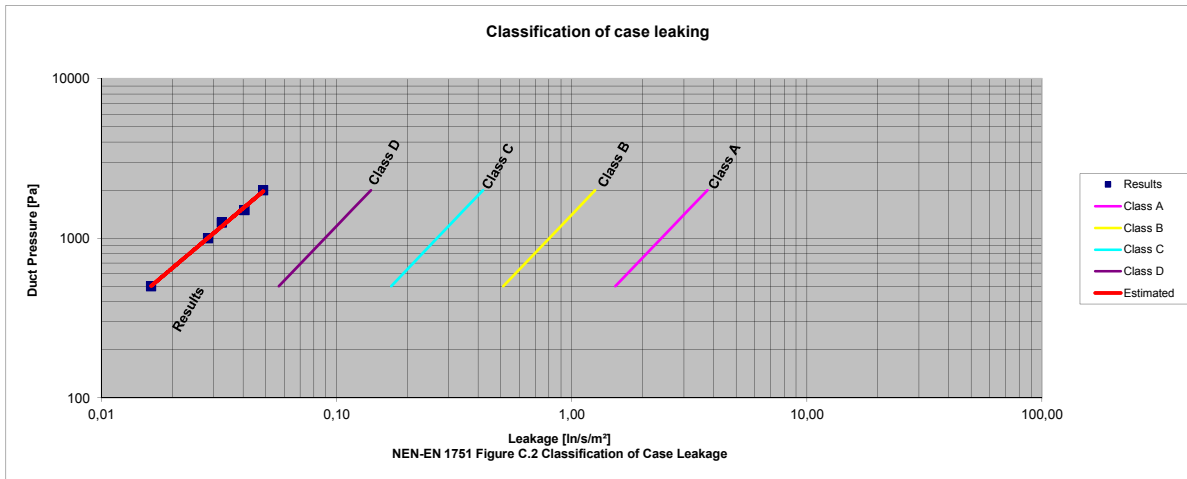
Products specifications	
Productcode	NROBOVO
Model	80
Case Width	[m]
Case Height	[m]
Case Diameter	0,080 [m]
Case Length	0,370 [m]
Real Duct surface	0,093 [m²]
Virtual Duct surface	0,251 [m²]
Note:	When Case Length < 1m; 1m is used in calculations as specified by LUKA.

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	23-1-2015
Date calibrated	Low Flow	21-1-2015
	High Flow	19-1-2015

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

NEN-EN 1751	
Max. Leakagefactor [ln/s/m²]	
Class A	0,027
Class B	0,009
Class C	0,003
Class D	0,001
$\Phi L = f \times P_s^{0,65}$	
$\Phi L =$ Leakage [ln/s/m²]	
$f =$ Leakagefactor	
$P_s =$ Static Pressure	

Measurements and calculations						LUKA standards					Estimated class
Reading	Measure instrument	Static pressure [Pa]	Leakage [ln/s]	Leakage duct surface [ln/s/m²]	Corrected at 20°C [l/s/m²]	Product tightness factor [-]	Class A [ln/s/m²]	Class B [ln/s/m²]	Class C [ln/s/m²]	Class D [ln/s/m²]	
1	Low Flow	500	0,004	0,02	0,02	0,000287	1,53	0,51			Class D
2	Low Flow	1000	0,007	0,03	0,03	0,000320		0,80	0,27	0,09	Class D
3	Low Flow	1250	0,008	0,03	0,03	0,000316			0,31	0,10	Class D
4	Low Flow	1500	0,010	0,04	0,04	0,000351			0,35	0,12	Class D
5	Low Flow	2000	0,012	0,05	0,05	0,000349			0,42	0,14	Class D



Other results	
Visual deformation	no
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 bigger models.

Approved and certified by
Certificate nr.
89204853.1



Calibration certifications nr.
Low Flow BHTG22/CHK/1776430
High Flow BHTG22/CHK/1773876
Pressure ctrl not specified