

Casing leakage test sheet

Test setup		Reference nr.
Date	26-8-2015	LM-15-0045
Exp. Date	26-8-2018	Tested by Menno Boes
Place	Barcol-Air	Witness by Maurice Jong
measure temperature	22 [°C]	
Atmospheric pressure	1,018 [bar]	
Correctionfactor	0,998	

Contact information	
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Model (Name/Type):	Circular airflow measuring station type AEPOOOB model 100	Result:	Class C
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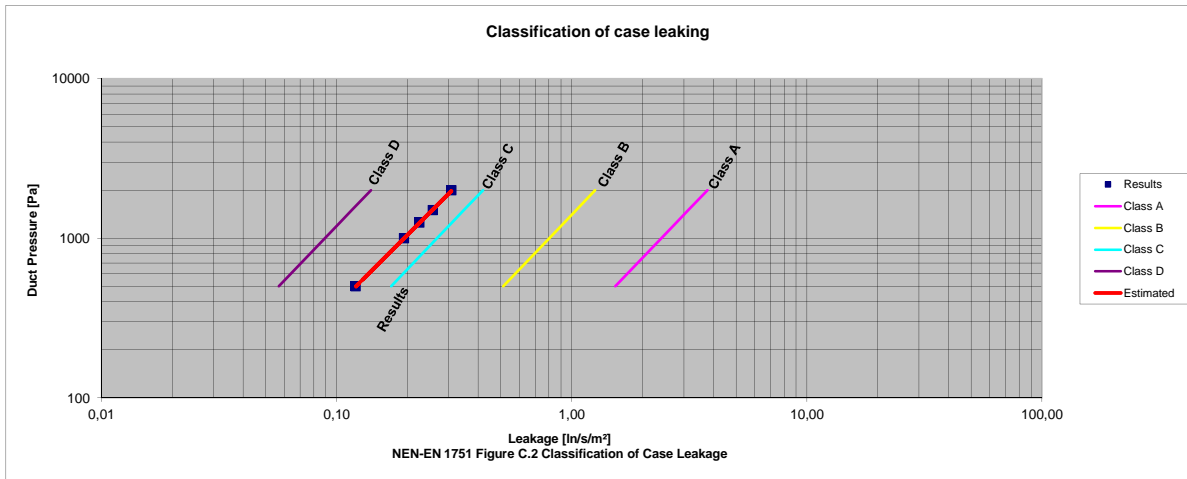
Products specifications	
Productcode	AEPOOOB
Model	100
Case Width	[m]
Case Height	[m]
Case Diameter	0,100 [m]
Case Length	0,130 [m]
Real Duct surface	0,041 [m²]
Virtual Duct surface	0,314 [m²]
Note:	When Case Length < 1m; 1m is used in calculations as specified by LUKA.

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	24-10-2013
Date calibrated	Low Flow	15-10-2013
	High Flow	3-10-2013

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				
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]	Estimated class
1		500	0,038	0,12	0,12	0,002125	1,53	0,51			Class C
2		1000	0,061	0,19	0,19	0,002174		0,80	0,27	0,09	Class C
3		1250	0,071	0,23	0,23	0,002189			0,31	0,10	Class C
4		1500	0,081	0,26	0,26	0,002218			0,35	0,12	Class C
5		2000	0,097	0,31	0,31	0,002203			0,42	0,14	Class C



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 BHTG22/1528974
High Flow BHTG22/1523091
Pressure ctrl not specified