

UltimAir casing leakage test sheet

According to standard NEN-EN 1751-2014

Test setup	
Date	2021-11-05
Exp. Date	2024-11-05
Place	UltimAir
Air temperature	18.3 [°C]
Atmospheric pressure	1026 [hPa]

Contact information	
Tel	+31 88 0318500
Email	info@ultimair.nl
Website	www.ultimair.nl



Model (Name/Type): **VRS 100**

Result: **Class D**

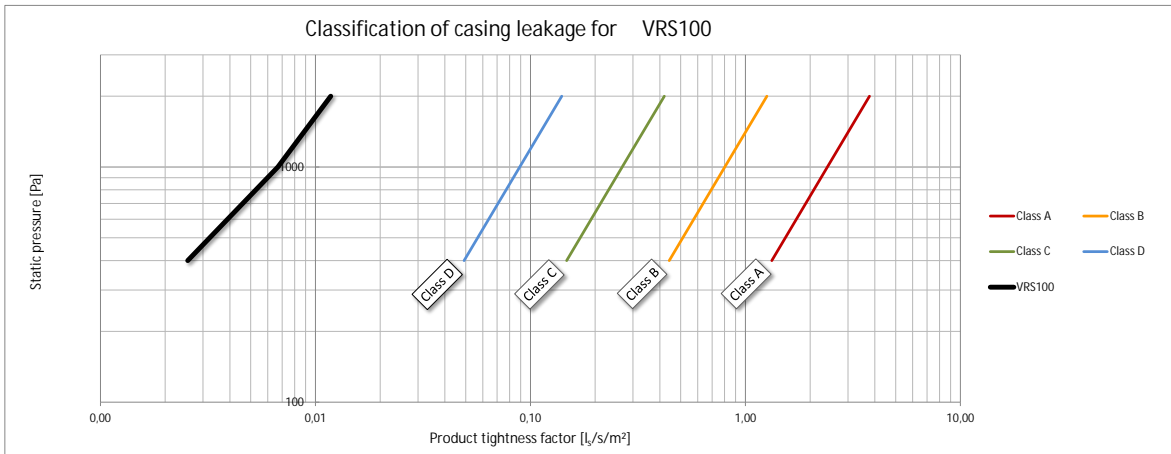
Product specifications	
Productcode	VRS100
Model	VRS 100
Case Width	[mm]
Case Height	[mm]
Case Diameter	0.100 [m]
Case Length	0.242 [m]
Real Duct surface	0.076 [m²]
Virtual Duct surface	0.314 [m²]
Note	When Case Length < 1m: 1m is used in calculations as specified by LUKA.

Measurement specifications	
Pressure time	120 seconds

Calibration certificate & Production final test report LT600	
Test device	Leakage Tester LT 600
Serial number	5191
Firmware	LT 600 ML 1.13
Date certification	8-2-2021
Certified by	Wohler Technik GmbH
LT600 automatically correct the result to 1013hPa and 20°C.	

NEN-EN 1751-2014	
Max. Leakagefactor [L/s/m²]	
Class A	0.027
Class B	0.009
Class C	0.003
Class D	0.001
$\Phi L = f \times P_s^{0.65}$	
ΦL - Leakage [L/s/m²]	
f - Leakagefactor	
P_s - Static Pressure	

Measurements and calculations						LUKA standards					
Reading	Measure instrument	Static pressure	Measured air leakage rate test setup (Fixed)	Measured air leakage rate (With)	Air leakage rate	Product tightness factor	Class A	Class B	Class C	Class D	Estimated class
		[Pa]	[l/s]	[l/s]	[l/s]	[l/s/m²]	[l/s/m²]	[l/s/m²]	[l/s/m²]	[l/s/m²]	
1	Low Flow	400	0.0005	0.0013	0.001	0.003	1.33	0.44	0.15	0.05	Class D
2	Low Flow	1000	0.0014	0.0035	0.002	0.007	2.41	0.80	0.27	0.09	Class D
3	Low Flow	2000	0.0033	0.0070	0.004	0.012	3.78	1.26	0.42	0.14	Class D



Other results	
If visual deformation occurs, fill in the pressure when it occurred	[Pa]

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 Precisely Right.
 Certificate nr. P97/52-53



UltimAir casing leakage test sheet

According to standard NEN-EN 1751-2014



Test setup	
Date	2021-11-18
Exp. Date	2024-11-18
Place	UltimAir
Air temperature	16.9 [°C]
Atmospheric pressure	1031 [hPa]

Contact information	
Tel	+31 88 0318500
Email	info@ultimair.nl
Website	www.ultimair.nl

Model (Name/Type): **VRS 400** Result: **Class D**

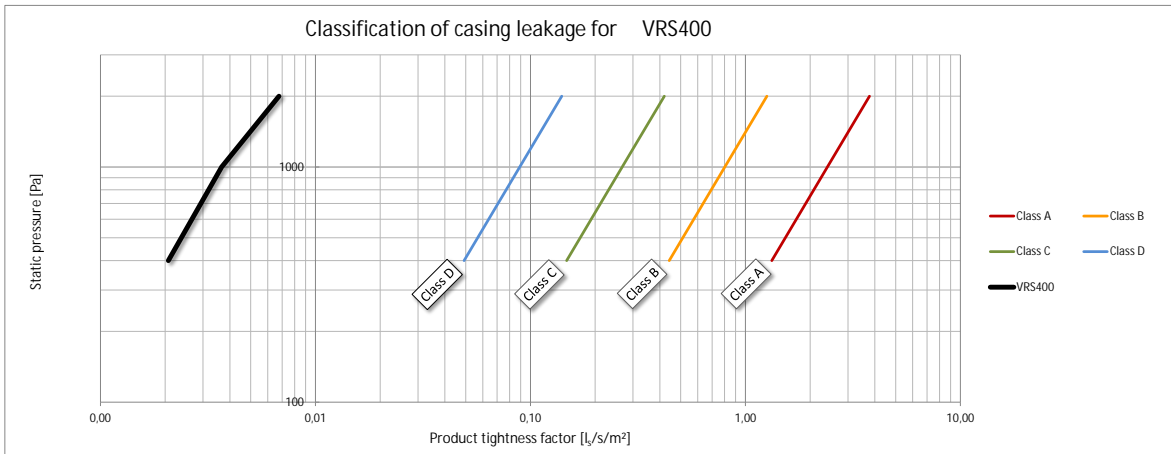
Product specifications	
Productcode	VRS400
Model	VRS 400
Case Width	[m]
Case Height	[m]
Case Diameter	0.400 [m]
Case Length	0.417 [m]
Real Duct surface	0.524 [m²]
Virtual Duct surface	1.257 [m²]
Note	When Case Length < 1m: 1m is used in calculations as specified by LUKA.

Measurement specifications	
Pressure time	120 seconds

Calibration certificate & Production final test report LT600	
Test device	Leakage Tester LT 600
Serial number	5191
Firmware	LT 600 ML 1.13
Date certification	8-2-2021
Certified by	Wohler Technik GmbH
LT600 automatically correct the result to 1013hPa and 20°C.	

NEN-EN 1751-2014	
Max. Leakagefactor [L/s/m²]	
Class A	0.027
Class B	0.009
Class C	0.003
Class D	0.001
$\Phi L = f \times P_s^{0.65}$	
ΦL - Leakage [L/s/m²]	
f - Leakagefactor	
P_s - Static Pressure	

Measurements and calculations						LUKA standards					
Reading	Measure instrument	Static pressure	Measured air leakage rate test setup (Fixed)	Measured air leakage rate (With)	Air leakage rate	Product tightness factor	Class A	Class B	Class C	Class D	Estimated class
		[Pa]	[l/s]	[l/s]	[l/s]	[l/s/m²]	[l/s/m²]	[l/s/m²]	[l/s/m²]	[l/s/m²]	
1	Low Flow	400	0.0100	0.0126	0.003	0.002	1.33	0.44	0.15	0.05	Class D
2	Low Flow	1000	0.0204	0.0250	0.005	0.004	2.41	0.80	0.27	0.09	Class D
3	Low Flow	2000	0.0403	0.0488	0.009	0.007	3.78	1.26	0.42	0.14	Class D



Other results	
If visual deformation occurs, fill in the pressure when it occurred	[Pa]

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