

# UltimAir casing leakage test sheet

## According to standard NEN-EN 1751-2014



Test setup	
Date	2021-10-26
Exp. Date	2024-10-26
Place	UltimAir
Air temperature	18 [°C]
Atmospheric pressure	1023 [hPa]

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

Model (Name/Type): **KDE 100** Result: **Class D**

Product specifications	
Productcode	KDE 100
Model	KDE 100
Case Width	[m]
Case Height	[m]
Case Diameter	0.100 [m]
Case Length	0.186 [m]
Real Duct surface	0.058 [m²]
Virtual Duct surface	0.314 [m²]
Note:	When Case Length < 1m: 1m is used in calculations as specified by LUKA.

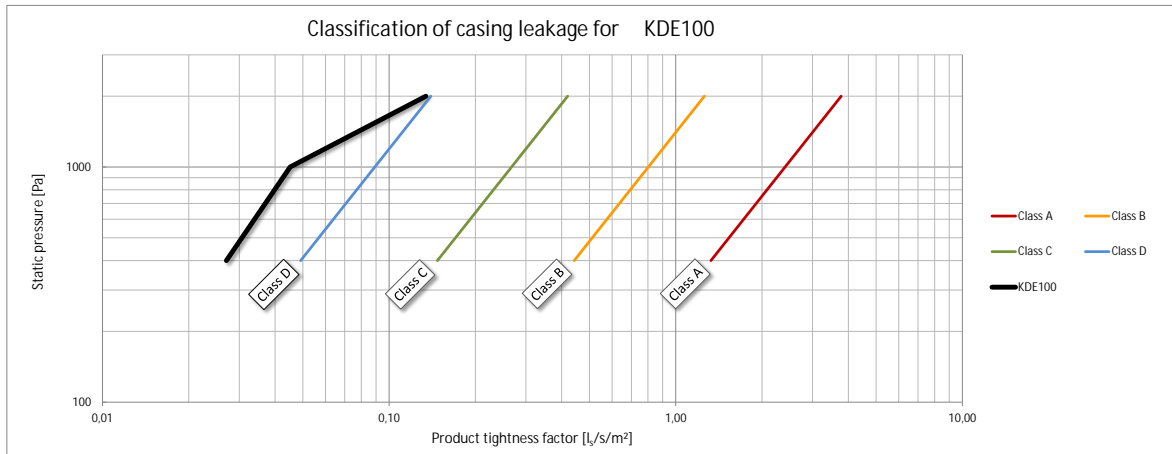
Measurement specifications	
Pressure time	120 seconds

Calibration certificate & Production final test report LT600	
Test device	Leakage Tester LT 600
Serial number	5191
Firmware	LT 600 ML 1.13
Date calibration	8-2-2021
Calibrated 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
$\Phi L = f \times P_s^{0.65}$	
$\Phi L$ - Leakage [L/s/m²]	
$f$ - Leakagefactor	
$P_s$ - Static Pressure	

Measurements and calculations						LUKA standards					
Reading	Measure instrument	Static pressure [Pa]	Measured air leakage rate test setup (Fixed) [l/s]	Measured air leakage rate (With) [l/s]	Air leakage rate [l/s]	Product tightness factor [L/s/m²]	Class A [L/s/m²]	Class B [L/s/m²]	Class C [L/s/m²]	Class D [L/s/m²]	Estimated class
1	Low Flow	400	0.0004	0.0089	0.009	0.027	1.33	0.44	0.15	0.05	Class D
2	Low Flow	1000	0.0018	0.0160	0.014	0.045	2.41	0.80	0.27	0.09	Class D
3	Low Flow	2000	0.0038	0.0460	0.042	0.134	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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Test setup	
Date	2021-10-26
Exp. Date	2024-10-26
Place	UltimAir
Air temperature	18 [°C]
Atmospheric pressure	1023 [hPa]

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

Model (Name/Type): **KDE 250** Result: **Class D**

Product specifications	
Productcode	KDE250
Model	KDE 250
Case Width	[mm]
Case Height	[mm]
Case Diameter	0.250 [m]
Case Length	0.185 [m]
Real Duct surface	0.145 [m²]
Virtual Duct surface	0.785 [m²]
Note:	When Case Length < 1m: 1m is used in calculations as specified by LUKA.

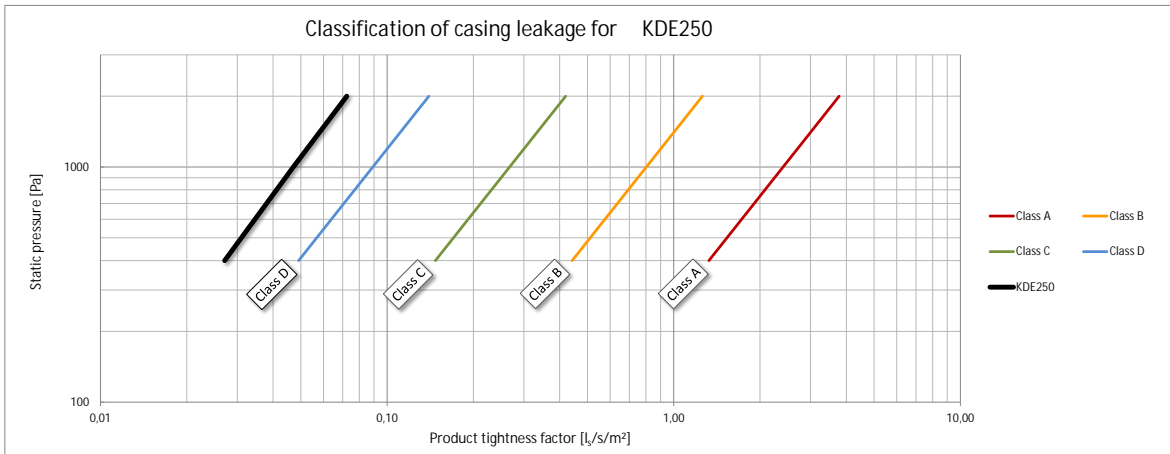
Measurement specifications	
Pressure time	120 seconds

Calibration certificate & Production final test report LT600	
Test device	Leakage Tester LT 600
Serial number	5191
Firmware	LT 600 ML 1.13
Date calibration	8-2-2021
Calibrated 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
$\Phi L = f \times P_s^{0.65}$	
$\Phi L$ - 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	0.0008	0.0221	0.021	0.027	1.33	0.44	0.15	0.05	Class D
2	Low Flow	1000	0.0031	0.0401	0.037	0.047	2.41	0.80	0.27	0.09	Class D
3	Low Flow	2000	0.0060	0.0628	0.057	0.072	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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