

UltimAir casing leakage test sheet

According to standard NEN-EN 1751-2014



Test setup	
Date	2022-07-19
Exp. Date	2025-07-19
Place	UltimAir
Air temperature	26.2 [°C]
Atmospheric pressure	1019 [hPa]

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

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

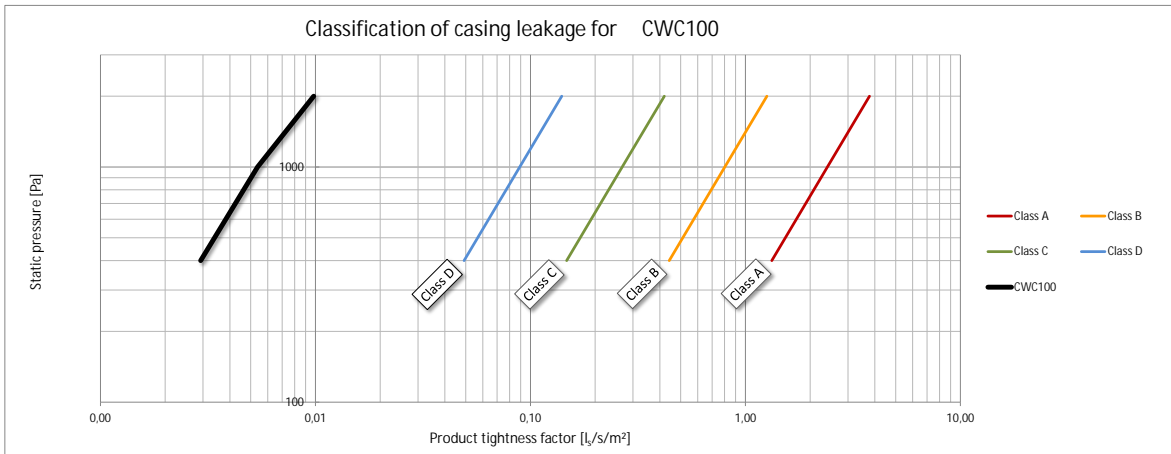
Product specifications	
Productcode	CWC100
Model	CWC 100
Case Width	0.230 [m]
Case Height	0.300 [m]
Case Diameter	0.275 [m]
Case Length	0.292 [m]
Real Duct surface	1.060 [m²]
Virtual Duct surface	1.060 [m²]
Note: When Case Length < 1m: 1m is used in calculations as specified by LUKA.	

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	0.0001	0.0032	0.003	0.003	1.33	0.44	0.15	0.05	Class D
2	Low Flow	1000	0.0016	0.0073	0.006	0.005	2.41	0.80	0.27	0.09	Class D
3	Low Flow	2000	0.0027	0.0131	0.010	0.010	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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TÜVRheinland®
 Precisely Right.
 Certificate nr. **P97/52-53**



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Test setup	
Date	2022-07-19
Exp. Date	2025-07-19
Place	UltimAir
Air temperature	27.2 [°C]
Atmospheric pressure	1019 [hPa]

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

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

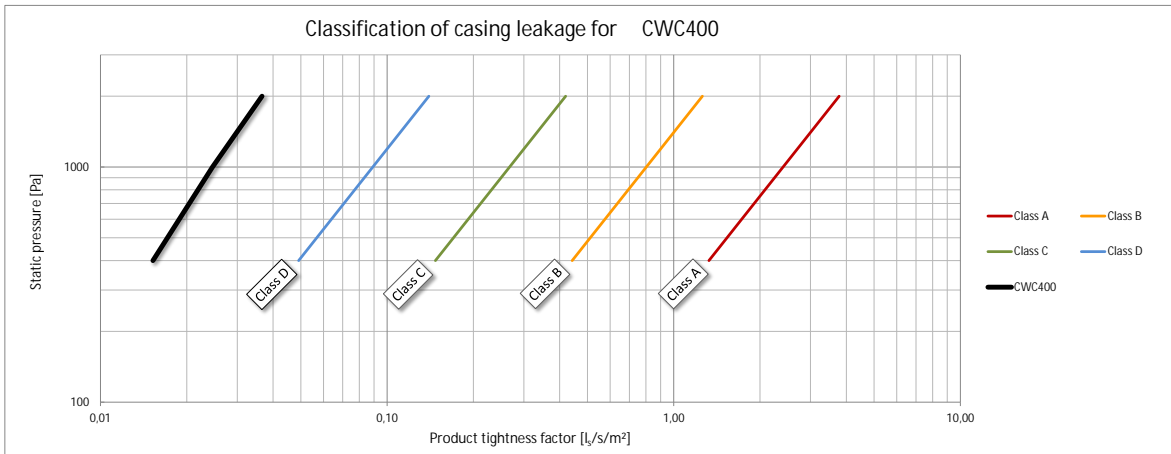
Product specifications	
Productcode	CWC400
Model	CWC 400
Case Width	0.480 [m]
Case Height	0.550 [m]
Case Diameter	0.275 [m]
Case Length	0.275 [m]
Real Duct surface	0.567 [m ²]
Virtual Duct surface	2.060 [m ²]
Note: When Case Length < 1m: 1m is used in calculations as specified by LUKA.	

Measurement specifications	
Pressure time	120 seconds

Calibration certificate & Production final test report LT 600	
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/m ²]	
Class A	0.027
Class B	0.009
Class C	0.003
Class D	0.001
$\Phi L = f \times P_s^{0.65}$	
ΦL - Leakage [L/s/m ²]	
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/m ²]	[l/s/m ²]	[l/s/m ²]	[l/s/m ²]	[l/s/m ²]	
1	Low Flow	400	0.0226	0.0540	0.031	0.015	1.33	0.44	0.15	0.05	Class D
2	Low Flow	1000	0.0517	0.1024	0.051	0.025	2.41	0.80	0.27	0.09	Class D
3	Low Flow	2000	0.0871	0.1625	0.075	0.037	3.78	1.26	0.42	0.14	Class D



Other results	
If visual deformation occurs, fill in the pressure when it occurred	[Pa] P97/52-53

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