

UltimAir casing leakage test sheet

According to standard NEN-EN 1751-2014



Test setup	
Date	2022-04-20
Reference nr.	20220420 IRIS100
Exp. Date	2025-04-20
Tested by	M.T. Buitenhuis
Place	UltimAir
Witnessed by	N. Severin
Air temperature	18,4 [°C]
Atmospheric pressure	1021 [hPa]

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

Model (Name/Type):	IRIS 100	Result:	Class D
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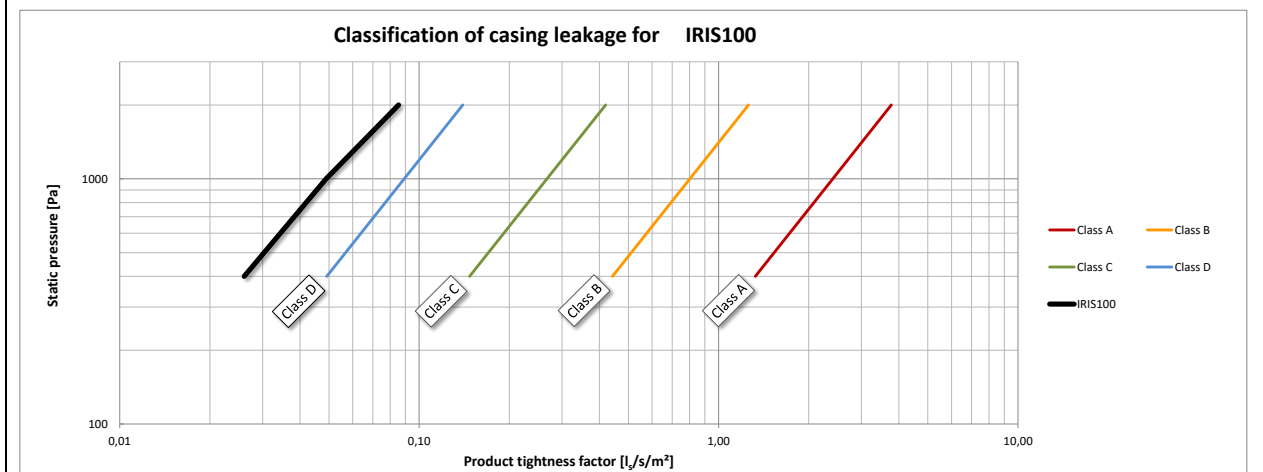
Product specifications	
Productcode	IRIS100
Model	IRIS 100
Case Width	[m]
Case Height	[m]
Case Diameter	0,110 [m]
Case Length	0,120 [m]
Real Duct surface	0,041 [m ²]
Virtual Duct surface	0,346 [m ²]
Note:	When Case Length <1m; 1m is used in calculations as specified by LUKA.

Measurement specifications	
Pressure time	120 seconds

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

NEN-EN 1751-2014	
Max. Leakagefactor [l _v /s/m ²]	
Class A	0,027
Class B	0,009
Class C	0,003
Class D	0,001
$\Phi L = f \times P_s^{0,65}$	
$\Phi L =$ Leakage [l _v /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 _v /s]	[l _v /m ²]	[l _v /m ²]	[l _v /m ²]	[l _v /m ²]	[l _v /m ²]	[l _v /m ²]
1	Low Flow	400	0,0004	0,0094	0,009	0,026	1,33	0,44	0,15	0,05	Class D
2	Low Flow	1000	0,0020	0,0189	0,017	0,049	2,41	0,80	0,27	0,09	Class D
3	Low Flow	2000	0,0031	0,0326	0,030	0,085	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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 Certificate nr. P97/52-53



UltimAir casing leakage test sheet

According to standard NEN-EN 1751-2014



Test setup	
Date	2022-04-20
Reference nr.	20220420 IRIS250
Exp. Date	2025-04-20
Tested by	M.T. Buitenhuis
Place	UltimAir
Witnessed by	N. Severin
Air temperature	18,6 [°C]
Atmospheric pressure	1021 [hPa]

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

Model (Name/Type):	IRIS 250	Result:	Class D
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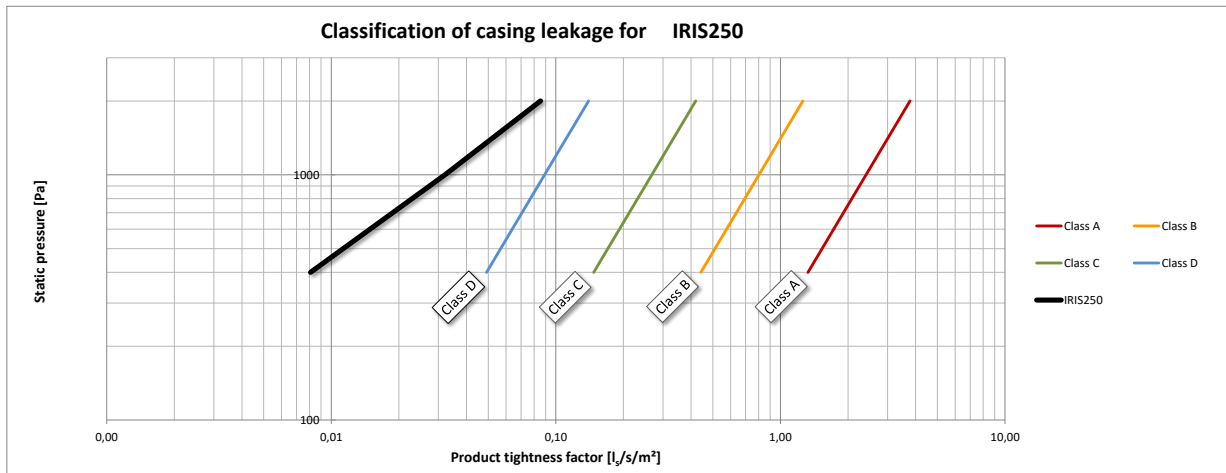
Product specifications	
Productcode	IRIS250
Model	IRIS 250
Case Width	[m]
Case Height	[m]
Case Diameter	0,260 [m]
Case Length	0,140 [m]
Real Duct surface	0,114 [m ²]
Virtual Duct surface	0,817 [m ²]
Note:	When Case Length <1m; 1m is used in calculations as specified by LUKA.

Measurement specifications	
Pressure time	120 seconds

Calibration certificate & Production final test report LT600	
Test device	Leakage Tester LT 600
Serial number	5191
Firmware	LT 600 ML 1.13
Date certification	8-2-2021
Certified by	Wöhler 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 /m ²]	[l _s /m ²]	[l _s /m ²]	[l _s /m ²]	[l _s /m ²]	[l _s /m ²]	[l _s /m ²]
1	Low Flow	400	0,0191	0,0257	0,007	0,008	1,33	0,44	0,15	0,05	Class D
2	Low Flow	1000	0,0381	0,0643	0,026	0,032	2,41	0,80	0,27	0,09	Class D
3	Low Flow	2000	0,0604	0,1302	0,070	0,085	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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