Manufacturer's statement / certificate

Specification	Leakage classification of TROX ventilation components
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Technical rules	Casing leakage measurement: EN 1751, EN 15727 Closed blade leakage measurement: EN 1751

Description

In the course of global energy saving targets, the seal tightness requirements for air handling systems and components are increasingly rising.
With this certificate, TROX certifies compliance with the leakage classes in the following overview. The quality standard of TROX ventilation components with regard to their leakage properties is ensured by means of statistical leakage measurements during production.
Based on production quantities and previous test results of different product variants, statistical test volumes are determined annually. The devices to be tested are compared with the production orders, taken out of production and tested on a daily basis.

The tests are carried out on a special leakage test rig in accordance with EN 1751. The measurement technology meets the requirements of EN ISO 5167-1 to -4 at minimum and is inspected annually.

Leakage tests on fire dampers and smoke control dampers are subject to separate specifications according to their proof of usability and are also monitored by third parties. In the course of these daily tests, the casing and closed blade leakage is classified according to EN 1751.

Product category	No.	Standard
Constant air terminal units	1	DIN EN 1751
Variable air terminal units	2	
Flow adjustment dampers	3	
Shut-off dampers	4	
Multileaf dampers	5	
Non-return dampers	6	
Fire dampers	7	
Smoke control dampers	8	
Smoke protection damper	9	
Sound attenuators	10	DIN EN 15727
Secondary silencers	11	
Volume flow rate measuring units	12	
Heat exchanger	13	

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Max. permissible differential pressures can be found in the product leaflets.

PC Nr.	Type	Casing leakage air class				Air leakage class with closed damper				Standard
		------> better ----->				------> better ----->				
		A	B	C	D	1	2	3	4	
1	RN (-EX)			x						DIN EN 1751
	VFC			x						
	EN (-EX)			x						
2	LVC			x		x	Ø 125			
	TVE			x				Ø ≤ 160	x	
	TVE-Q			x			(B+H) ≤ 400	x		
	TVR			x			Ø 100	Ø ≤ 160	x	
	TVJ		x			(B+H) ≥ 600				
	TVT		(B+H) ≤ 400	x				x		
	TZ-Silenzio			x					x	
	TA-Silenzio			x					x	
	TVZ		Ø ≥ 250	x				Ø ≤ 160	x	
	TVA		Ø ≥ 250	x					x	
	TVM		x					Ø ≤ 160	x	
	TVRK			x				x		
	TVLK			x					x	
	TVR-Ex			x				Ø ≤ 160	x	
3	VFR			x						
4	AKK			x				x		
	AK-Ex			x				Ø ≤ 160	x	
5	JZ-HL-AL			x			x			
	JZ-HL			x		B ≤ 600	x			
	JZ-LL / JZ-LL-A2			x				B ≤ 600	x	
	JZ-LL-AL			x					x	
	JZ-S /-P /-AL			x						
	JZ-S-A2 /-P-A2			x						
6	ARK /-2 (!)			x					x	
7	FK2-EU		(B+H) ≤ 700	x			x			
	FKRS-EU			x			Ø 100	Ø ≤ 250	x	
	FKR-EU			x					x	
8	EK2-EU			x				x		
	EK-JZ			x				x		
9	JZ-RS			x		x				
10	MS / XS			x						DIN EN 15727
11	CA / CAH			NW > 400	x					
	CK			NW > 400	x					
	CF				x					
	TS		Ø ≥ 250	x						
	TX			x						
	CAK				x					
12	VMR			x						
	VME		(B+H) ≤ 400	x						
	VMRK				x					
	VMLK			x						
13	WL			x						
	EL			x						
	WT			H ≤ 400	x					

(!) Note: Air leakage with back pressure, in closing direction.

Neukirchen-Vluyn, the 09.10.2024

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