

1	Unique identification code of the product-type:	AJR/AJ8 315...400 ¹ -x/x (F) ² ¹ Nominal diameter of the fan x: Number of poles ² tested 400 °C / 2 h All Systemair AJR/AJ8 fans with the identifier (F) have the performance stated in this document.
2	Serial number	see name plate of the fan
3	Intended use:	Mechanical smoke and heat extraction device
4	Manufacturer:	Systemair GmbH; Seehöfer Straße 45; 97944 Boxberg; Germany
6	System of AVCP:	System 1
7	Harmonised standard:	DIN EN 12101-3; 2015
	Notified body:	The international research laboratory Applus in Barcelona (authorised testing authority N° 0370) has determined the characteristics of the product after an initial test. The authorised testing authority BSI (N° 2797 and N° 0086) has carried out an initial factory inspection and a factory production control according to system 1 of the Construction Products Regulation (Regulation (EU) No 305/2011). The testing authority carries out ongoing monitoring, assessment and evaluation of the factory production control and issued the following certificates of performance: • 2797-CPR-719672 (EU) • 0086-CPR-795391 (UK)
8	Essential Characteristics (DIN EN 12101-3; 2015):	
	Response delay:	
	Opening under wind load within a given time.	NPD (No Performance Determined)
	Opening under snow load within a given time.	NPD
	Operational reliability	
	Application categories	see Annex 1
	Motor rating	ISO H
	Effectiveness of smoke / hot gas extraction	
	Gas flow maintenance during smoke and heat extraction test.	+/- 10 %
	Pressure maintenance during smoke and heat extraction test.	+/- 20 %

Resistance to fire

Classification according to EN 13501-4	F400 (120)
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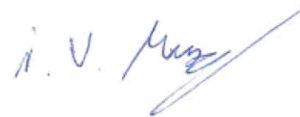
Ability to open under environmental conditions

Opening under wind load withing a given time.	NPD
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Opening of deflector FSL under snow load within a given time.	NPD
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Durability of operational reliability	ISO H
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The performance of the product identified above **(1)** is in conformity with the set of declared performance **(8)**.
 This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer **(4)** identified above.



Boxberg, 02.01.2024

i.V. Matthias Muxfeldt, Technical Director

ANNEX 1 / Complementary information on Installation / Application (EN 12101-3:2015 / Table F.8)

Mechanically driven exhaust appliances for smoke and heat control fans			
Classification			
	Class	Temperature [°C]	Time [min]
[X]	F ₂₀₀	200	120
[X]	F ₃₀₀	300	60
[X]	F ₄₀₀	400	120
[X]	F ₄₀₀	400	90
[]	F ₆₀₀	600	60
[]	F ₈₄₂	-	
1) Location of the fan and insulation if so			
[]	outside the building without thermal insulation		
[]	outside the building including thermal insulation		
[]	inside the building but outside of the smoke reservoir without thermal insulation		
[]	inside the building but outside of the smoke reservoir including thermal insulation		
[X]	inside the smoke reservoir		
[X]	in the fire compartment		
2) Installation			
<i>Details of permissible installation positions, see the manual of the fan</i>			
[X]	horizontal motor shaft, floor standing		
[X]	horizontal motor shaft, wall mounted		
[X]	horizontal motor shaft, suspended from ceiling		
[X]	vertical motor shaft, impeller below the motor		
[X]	vertical motor shaft, impeller above the motor		
[]	vertical motor shaft, mounted onto the face of wall		
[]	vertical motor shaft, suspended from ceiling		
Mechanically driven exhaust appliances for smoke and heat control fans			
3) Flexible connections tested with the fan			
[]	flexible connection inlet side		
[]	flexible connection outlet side		
[]	flexible connection inlet and outlet side		
[]	flexible connection cooling air connection		
4) Cooling air			
[]	c _{Air,q} Volumetric flow cooling air Air = min. volumetric flow q = max. cooling air temperature		
6) Snow load			
[]	SL0 without deflector		
[]	SL125		
[]	SL250		
[]	SL500		
[]	SL1000 with deflector FSL		

☐	SLA
7) Wind load	
☐	200 Pa
8) Application	
☒	D.O.L. (direct on line) only
☒	with frequency converter The conditions vary between the different tested sizes.
☒	Dual purpose
☒	Emergency only
Approved accessories	
☐	Flexible connection
☒	Spring damper (FSD)
☒	Silencer
☒	Mounting feet, brackets
☐	Damper
☐	Diffuser
☒	Protective grille
☐	Inlet cone
☒	Terminal box
☒	Revision switch
☒	Deflector
☒	Frequency converter