

1	<b>Unique identification code of the product-type:</b>	<p>IV x-y/y (B)<sup>2</sup></p> <p><i>x Thrust [Newton]</i> <i>y: Number of poles</i> <i><sup>2</sup> tested 300 °C / 2 h</i> <i>All Systemair IV fans with the identifier (B) have the performance stated in this document.</i></p>
2	<b>Serial number</b>	see name plate of the fan
3	<b>Intended use:</b>	Mechanical smoke and heat extraction device
4	<b>Manufacturer:</b>	Systemair GmbH; Seehöfer Straße 45; 97944 Boxberg; Germany
6	<b>System of AVCP:</b>	System 1
7	<b>Harmonised standard:</b>	DIN EN 12101-3; 2015
	<b>Notified body:</b>	<p>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:</p> <ul style="list-style-type: none"> <li>• 2797-CPR-719672 (EU)</li> <li>• 0086-CPR-795391 (UK)</li> </ul>
8	<b>Essential Characteristics (DIN EN 12101-3; 2015):</b>	
	<b>Response delay:</b>	
	Opening under wind load within a given time.	NPD (No Performance Determined)
	Opening under snow load within a given time.	NPD
	<b>Operational reliability</b>	
	Application categories	see Annex 1
	Motor rating	ISO H / 110 K
	<b>Effectiveness of smoke / hot gas extraction</b>	
	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	F300 (60)
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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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<b>Durability of operational reliability</b>	ISO H / 110 K
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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)

<b>Mechanically driven exhaust appliances for smoke and heat control fans</b>			
<b>Classification</b>			
	<b>Class</b>	<b>Temperature [°C]</b>	<b>Time [min]</b>
<input checked="" type="checkbox"/>	F <sub>200</sub>	200	120
<input checked="" type="checkbox"/>	F <sub>300</sub>	300	60
<input type="checkbox"/>	F <sub>400</sub>	400	120
<input type="checkbox"/>	F <sub>400</sub>	400	90
<input type="checkbox"/>	F <sub>600</sub>	600	60
<input type="checkbox"/>	F <sub>842</sub>	-	
<b>Free Classification for information only</b>			
<input checked="" type="checkbox"/>	F <sub>300</sub>	300	120
1) Location of the fan and insulation if so			
<input type="checkbox"/>	outside the building without thermal insulation		
<input type="checkbox"/>	outside the building including thermal insulation		
<input type="checkbox"/>	inside the building but outside of the smoke reservoir without thermal insulation		
<input type="checkbox"/>	inside the building but outside of the smoke reservoir including thermal insulation		
<input checked="" type="checkbox"/>	inside the smoke reservoir		
<input checked="" type="checkbox"/>	in the fire compartment		
2) Installation <i>The specifications in the fan's manual regarding permissible installation positions of the fan have to be considered.</i>			
<input type="checkbox"/>	horizontal motor shaft, floor standing		
<input type="checkbox"/>	horizontal motor shaft, wall mounted		
<input type="checkbox"/>	horizontal motor shaft, suspended from ceiling		
<input type="checkbox"/>	vertical motor shaft, impeller below the motor		
<input type="checkbox"/>	vertical motor shaft, impeller above the motor		
<input type="checkbox"/>	vertical motor shaft, mounted onto the face of wall		
<input checked="" type="checkbox"/>	vertical motor shaft, suspended from ceiling		
<b>Mechanically driven exhaust appliances for smoke and heat control fans</b>			
3) Flexible connections tested with the fan			
<input type="checkbox"/>	flexible connection inlet side		
<input type="checkbox"/>	flexible connection outlet side		
<input type="checkbox"/>	flexible connection inlet and outlet side		
<input type="checkbox"/>	flexible connection cooling air connection		
4) Cooling air			
<input type="checkbox"/>	<b>C<sub>Air,q</sub></b> Volumetric flow cooling air Air = min. volumetric flow q = max. cooling air temperature		
6) Snow load			
<input type="checkbox"/>	SL0 without deflector		
<input type="checkbox"/>	SL125		
<input type="checkbox"/>	SL250		

<input type="checkbox"/>	SL500
<input type="checkbox"/>	SL1000 with deflector FSL
<input type="checkbox"/>	SLA
7) Wind load	
<input type="checkbox"/>	200 Pa
8) Application	
<input checked="" type="checkbox"/>	D.O.L. (direct on line) only
<input checked="" type="checkbox"/>	with frequency converter The conditions vary between the different tested sizes.
<input checked="" type="checkbox"/>	Dual purpose
<input checked="" type="checkbox"/>	Emergency only
<b>Approved accessories</b>	
<input type="checkbox"/>	Flexible connection
<input type="checkbox"/>	Spring damper (FSD)
<input type="checkbox"/>	Silencer
<input type="checkbox"/>	Mounting feet, brackets
<input type="checkbox"/>	Damper
<input type="checkbox"/>	Diffuser
<input checked="" type="checkbox"/>	Protective grille
<input type="checkbox"/>	Inlet cone
<input checked="" type="checkbox"/>	Terminal box
<input checked="" type="checkbox"/>	Revision switch
<input type="checkbox"/>	Deflector
<input checked="" type="checkbox"/>	Frequency converter