1	**Unique identification code of the product-type:**	KBR/F[2] 315...355[1] x *[1] Duct diameter* *[2] tested 400 °C / 2 h* *x Motor type (see manual)* *All Systemair KBR 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 / 110 K
	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)

Ability to open under environmental conditions	
Opening under wind load withing a given time.	NPD
Opening of deflector FSL under snow load within a given time.	NPD
Durability of operational reliability	ISO H / 110 K

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			
[X]	outside the building without thermal insulation		
[ ]	outside the building including thermal insulation		
[X]	inside the building but outside of the smoke reservoir without thermal insulation		
[ ]	inside the building but outside of the smoke reservoir including thermal insulation		
[ ]	inside the smoke reservoir		
[ ]	in the fire compartment		
2) Installation *The specifications in the fan`s manual regarding permissible installation positions of the fan have to be considered.*			
[X]	horizontal motor shaft, floor standing		
[X]	horizontal motor shaft, wall mounted		
[ ]	horizontal motor shaft, suspended from ceiling		
[ ]	vertical motor shaft, impeller below the motor		
[ ]	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			
[X]	flexible connection inlet side		
[X]	flexible connection outlet side		
[X]	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	
[X]	D.O.L. (direct on line) only
[X]	with frequency converter The conditions vary between the different tested sizes.
[X]	Dual purpose
[X]	Emergency only
Approved accessories	
[X]	Flexible connection
[ ]	Spring damper (FSD)
[X]	Silencer
[X]	Mounting feet, brackets
[X]	Damper
[ ]	Diffuser
[ ]	Protective grille
[ ]	Inlet cone
[ ]	Terminal box
[ ]	Revision switch
[ ]	Deflector
[ ]	Frequency converter