

Declaration of Performance

Nr. 2019/10-RWA-P-77

1. Unique identification code of the product-type: **Ceiling hatch of type RWA 12**
 Opening angle: 77°
 Cylinder stroke: 600 mm
 Drive System: Pneumatic
2. Intended use: Fire protection
 Natural Smoke and Heat Exhaust Ventilators ,
 for installation position 0° to horizontals
3. Manufacturer: cool it Isoliersysteme GmbH
 Ochsenweg 18, 49324 Melle, Germany
4. Authorised representative: not named
5. System of AVCP: 1
6. Harmonised standard: EN 12101-2: 2003
 Notified body: MPA NRW – NB-Nr. 0432
7. Declared Performance:

Essential characteristics	Description of characteristic	Sections with requirements	Performance	Harmonised technical specifications
Nominal trigger devices/ Sensitivity	Thermal trigger device	4.1	passed	EN 12101-2:2003
	Pneumatic opening mechanism	4.2	passed	EN 12101-2:2003
Response delay		7.1.2	passed	EN 12101-2:2003
Operational reliability	Without external load	7.1	Re 100 (type A)	EN 12101-2:2003
	Ventilation position	7.1.3	npd	EN 12101-2:2003
	Opening under wind load	7.4	WL 0	EN 12101-2:2003
Efficiency of smoke and heat ventilation Aerodynamic free area		6	Aa (see table)	EN 12101-2:2003
Resistance to heat and mechanical stability		7.5	B ₃₀₀ 30	EN 12101-2:2003
Opening under environmental conditions	Snow load	7.2	SL 0	EN 12101-2:2003
	Snow load with low ambient temperature	7.3	T (-20) with SL 0	EN 12101-2:2003
Reaction to fire of building material		7.5.2.1	E	EN 13501-1:2010

Efficiency of smoke and heat ventilation, Aerodynamic free area in [m²]

Aa-values [m ²]		Opening angle 77°					
		With clear opening in [cm]					
		80	≥90	≥100	≥110	≥120	128
Height clear opening in [mm]	80	0,42	0,47	0,52	0,52	0,58	0,68
	≥90	0,66	0,47	0,59	0,66	0,72	0,77
	≥100	0,52	0,58	0,65	0,72	0,79	0,84
	≥110	0,57	0,64	0,71	0,79	0,87	0,87
	≥120	0,52	0,7	0,78	0,85	0,93	0,99
	≥130	0,66	0,74	0,83	0,92	1,01	1,08
	≥140	0,71	0,8	0,89	0,98	1,07	1,14
	≥150	0,76	0,86	0,96	1,05	1,15	1,22
	≥160	0,8	0,9	1	1,1	1,2	1,29
	≥170	0,85	0,96	1,07	1,17	1,28	1,37
	≥180	0,9	1,02	1,13	1,24	1,36	1,45
	≥190	0,95	1,07	1,19	1,31	1,43	1,53
	≥200	1	1,13	1,26	1,38	1,51	1,61
	≥210	1,05	1,19	1,32	1,45	1,58	1,68
	≥220	1,1	1,24	1,38	1,52	1,66	1,77
≥230	1,15	1,3	1,44	1,59	1,73	1,85	
≥240	1,2	1,36	1,51	1,66	1,81	1,93	
≥250	1,26	1,41	1,57	1,73	1,89	2,01	

The performance of product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) Nr. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Dipl.-Wirtsch.-Ing. F. Maiwald
(Technical Management)

Melle, March 7th 2019

