



E.01

Fire dampers

CR120+MFUS

Fire dampers Circular EI120S With fuse 72°C Ø 100 - 315



Circular fire dampers EI120S type CR120+MFUS

Circular fire dampers with a fire resistance of 120 minutes. When the temperature Circular fire dampers with a fire resistance of 120 minutes. When the temperature in the damper rises above 72 °C the fusible link will break and the damper will close. When closed, the expanding material around the fireblade will swell and assure a fire and air-tight seal against hot air and smoke. The tunnel is made out of galvanized steel. The **CR120 + MFUS** fire dampers have a manual operating mechanism with indication of the blade position. Optionally, an end and begin of range switch **FDCU MFUS** can be added to the mechanism. The operating mechanism can be removed easily, for inspection purposes or for replacing the fusible link. fusible link.

Application

- Fire compartimentation
- To close and seal off ventilation ducts in case of fire
- For air temperatures of -10°C up to temperature of fusible link
 For air with RV 0-96%
 Range of Ø100 up to Ø315 mm
 For Ø355 up to Ø630 see type CR2
 To be mounted horizontally or vertically

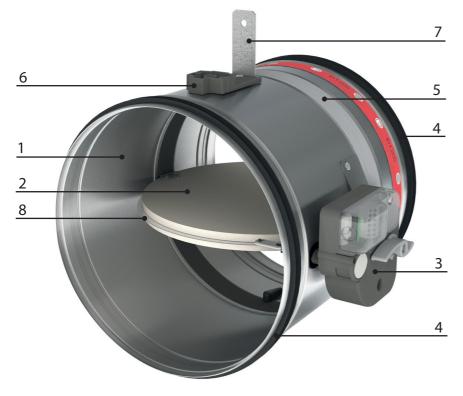
Material

Galvanized steel

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Construction



Composition

- Galvanized steel tunnel with rubber duct sealing
- Fibersilicate fireproof blade
- Intumescent strip
- Manual control mechanism MFUS with fusible link 72 °C
- 1. Refractory casing made of galvanised steel2. Damper blade 20 mm
- 3. Operating mechanism
 4. Rubber sealing ring
- 5. Intumescent strip
- 6. Mounting plate for thermo-electrical fuse (not used on manually controlled dampers)
- 7. Positioning plate8. Sealing ring damper blade

Mounting

- To be inserted in fire resistant walls or floors and to be fixed according to the mounting instruction delivered with the valves.
- To be connected with round air ducts

Certification

- Classified EI120(v_e,h_o i<->o)S at 500Pa according EN 13501-3 in ridid wall and rigid floor
 Classified EI60(v_e i<->o)S at 500Pa according EN 13501-3 in flexible wall
 Certified with test report Efectis 09-A-087 / EFR-19-005412 or WFRG 16127

- Airtight EN 1751 class C
- CE marked

Accessories

- Fire resistant plaster, type BP
- End- and begin of range switch, type FDCU MFUS

Other available products

For bigger sizes see CR2 + CFTH



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Text for tender

- The fire dampers shall be of the round type with a fire resistance of 120 minutes, certified according to EN13501-3. They will consist of a galvanized steel tunnel and fireproof fiber silicate valve. The control mechanism will be manually operated and shall have a blade position indicator and fusible link of 72 °C
- type CR120 + MFUS

Order example

CR120 + MFUS, 160

Explanation

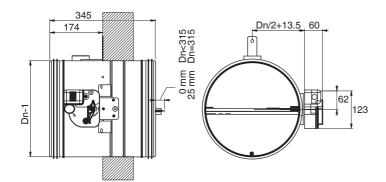
CR120 = Round fire damper with fire resistance of 120 Minutes

- MFUS = Mechanism
- **160** = Connection diameter

Quick selection									
Dia	v		4	5	6	7	8		
100	Q	85	113	141	170	198	226		
	Vk	5	6.7	8.3	10	11.7	13.4		
	Ps	5	8	13	19	26	33		
	Lw(A)	41	45	47	50	52	54		
125	Q	132	177	221	265	309	353		
	Vk	4.5	6	7.5	9	10.5	12		
	Ps	4	7	11	16	21	28		
	Lw(A)	38	43	46	48	51	52		
	Q	217	289	362	434	506	579		
160	Vk	4	5.4	6.7	8.1	9.4	10.8		
100	Ps	3	5	8	12	16	22		
	Lw(A)	37	41	44	46	49	51		
	Q	339	452	565	678	791	904		
200	Vk	3.8	5.1	6.3	7.6	8.9	10.1		
200	Ps	2	4	6	9	12	16		
	Lw(A)	37	41	43	46	48	50		
	Q	530	707	883	1060	1236	1413		
250	Vk	3.6	4.8	6	7.2	8.4	9.6		
250	Ps	2	3	4	6	9	11		
	Lw(A)	36	40	43	45	47	49		
	Q	841	1122	1402	1682	1963	2243		
315	Vk	3.5	4.6	5.8	7	8.1	9.3		
315	Ps	1	2	3	4	5	7		
	Lw(A)	35	39	43	44	46	47		

Symbols and specifications

- v = Air velocity in the duct in m/s
- Q = Air volume in m³/h
- \dot{Vk} = Effective velocity through the damper in m/s
- Ps = Static pressure in Pa
 Lw(A) = Acoustic power in dB(A)
 Dia = Duct diameter in mm



Dimensions								
CR120+MFUS	ØD [mm]	ØD-1 [mm]	¹ /₂ØD+13.5+60 [mm]	Ak [m²]				
100	100	99	123.5	0.0047				
125	125	124	136	0.0082				
160	160	159	153.5	0.0149				
200	200	199	173.5	0.0248				
250	250	249	198.5	0.0407				
315	315	314	231	0.0672				