

Fire damper

WH25



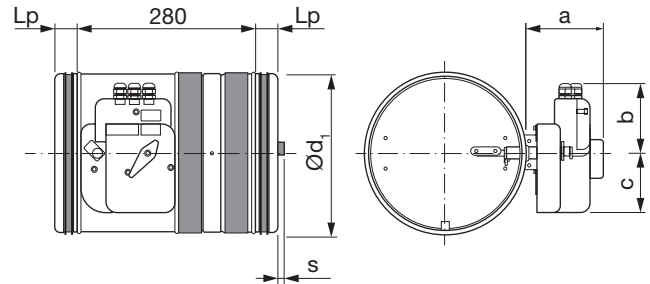
Description

Circular fire damper for air duct system that penetrate fire resistance walls or floors. With 25 mm thick closing blade made from refractory material. Casing leakage performance class C according to Standard EN1751:2014 section C.3.

The damper prevents fire and smoke from spreading through the air duct system. Tested and classified in accordance with EN 1366-2 and EN 13501-3 with 500 Pa negative pressure and CE marked in accordance with EN 15650.

Product code		
Type	WH	Circular fire damper
Series	25	Blade thickness 25 mm
Manual command		
Command type	B	Manual command
	M	Manual command with magnet
Position indication microswitches	S0	Without position microswitches
	S2	With two position microswitches (included for MR/MI versions)
Magnet	M0	Without magnet (only for command type "B" and "C")
	MR	With power supply interruption magnet through electric board 24 V DC or 48 V DC
	MI	With power supply input magnet through electric board 24 V DC or 48 V DC
Motorized		
Motor type	VSS	Siemens motor GRA 126 (24V)
	DSS	Siemens motor GRA 326 (230V)
	VSB	Belimo motor BFL24T (24V)
	DSB	Belimo motor BFL230T (230V)
	TSB	Belimo motor BFL24T-ST (24V)
Dimension	XYZ	Nominal diameter (mm)

Dimensions



Ød ₁ nom	WH25		WH25U		m kg
	s mm	Lp mm	s mm	Lp mm	
100	-	35	-	38	2,60
125	-	35	-	38	2,70
140	-	35	-	38	2,80
150	-	35	-	38	2,90
160	-	35	-	38	3,00
180	-	35	-	38	3,20
200	-	35	-	38	3,50
224	4	35	1	38	4,00
250	17	35	-	57	4,50
280	32	35	10	57	5,00
300	42	35	20	57	5,60
315	49,5	35	28	57	5,90

s = blade exposition

Mechanism type:

- WH25C - Manual compact
- WH25B - Manual basic
- WH25M - Manual with magnet
- WH25VSB/DSB - Belimo motorized version
- WH25VSS/DSS - Siemens motorized version

Mechanism type	a mm	b mm	c mm
WH25C	63	52	94
WH25B	100	46	70
WH25M	122	109	93
WH25VSB/DSB	85	50	65
WH25VSS/DSS	97	50	65

Ordering example

Mechanism type	WH25B	U	200	S0M0
Connection type				
Dimension Ød ₁				
Control mechanism				

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Technical data

Fire resistance classification according to EN 13501-3

			EI 120 S (500 Pa)	EI 90 S (500 Pa)	EI 60 S (500 Pa)
Rigid wall	EI 120 S – Installation within vertical rigid wall Wall min. thickness 100 mm Wall min. density 550 kg/m ³ Mortar or plaster putty sealing ve (i↔o)	Wet sealing method	∅ min 100 max 315	∅ min 100 max 315	∅ min 100 max 315
	EI 90 S – Installation within vertical rigid wall Wall minimum thickness 100 mm Wall minimum density 550 kg/m ³ Plasterboard and rock wool 100 kg/m ³ sealing ve (i↔o)	Dry sealing method	-	∅ min 100 max 315	∅ min 100 max 315
Flexible wall	EI 60 S – Installation within vertical light wall (plasterboard) Wall min. thickness 100 mm Wall rock wool min. density 80 kg/m ³ Plasterboard and rock wool 80 kg/m ³ sealing ve (i↔o)	Dry sealing method	-	-	∅ min 100 max 315
	EI 90 S – Installation within vertical light wall (plasterboard) Wall min. thickness 100 mm Wall rock wool min. density 80 kg/m ³ Plasterboard and rock wool 100 kg/m ³ sealing ve (i↔o)	Dry sealing method	-	∅ min 100 max 315	∅ min 100 max 315
	EI 120 S – Installation within vertical light wall (plasterboard) Wall min. thickness 100 mm Wall rock wool min. density 80 kg/m ³ Plasterboard and mortar or plaster putty sealing ve (i↔o)	Wet sealing method	∅ min 100 max 315	∅ min 100 max 315	∅ min 100 max 315
	EI 90 S – Installation within vertical light wall (gypsum block wall) Wall min. thickness 70 mm Wall min. density 995 kg/m ³ Plaster putty sealing ve (i↔o)	Wet sealing method	-	∅ min 100 max 315	∅ min 100 max 315
	EI 120 S – Installation within vertical light wall (gypsum block wall) Wall min. thickness 100 mm Wall min. density 995 kg/m ³ Plaster putty sealing ve (i↔o)	Wet sealing method	∅ min 100 max 315	∅ min 100 max 315	∅ min 100 max 315
	EI 90 S – Installation within floor Floor min. thickness 100 mm Floor min. density 650 kg/m ³ Mortar sealing ho (i↔o)	Wet sealing method	-	∅ min 100 max 315	∅ min 100 max 315
Floor	EI 120 S – Installation within floor Floor min. thickness 150 mm Floor min. density 650 kg/m ³ Mortar sealing ho (i↔o)	Wet sealing method	∅ min 100 max 315	∅ min 100 max 315	∅ min 100 max 315

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Fire Batt (Weichschott) sealings

			EI 120 S (300 Pa)	EI 90 S (300 Pa)	EI 60 S (300 Pa)
Rigid wall	EI 120 – S Installation within rigid vertical wall with Fire Batt (Weichschott) sealing				
	Wall min. thickness 100 mm		∅	∅	∅
	Wall min. density 550 kg/m ³	Wet sealing method	min 100 max 315	min 100 max 315	min 100 max 315
	Rock wool 140kg/m ³ and endothermic varnish sealing ve (i↔o)				
	Min. distance allowed between 2 dampers		200 mm	50 mm	50 mm
Flexible wall	EI 120 – S Installation within vertical light wall (plasterboard) with Fire Batt (Weichschott) sealing				
	Wall min. thickness 100 mm		∅	∅	∅
	Wall rock wool min. density 80 kg/m ³	Wet sealing method	min 100 max 315	min 100 max 315	min 100 max 315
	Rock wool 140kg/m ³ and endothermic varnish sealing ve (i↔o)				
	Min. distance allowed between 2 dampers		200 mm	50 mm	50 mm
Flexible wall	EI 120 – S Installation within vertical light wall (gypsum blocks) with Fire Batt (Weichschott) sealing				
	Wall min. thickness 100 mm		∅	∅	∅
	Wall min. density 995 kg/m ³	Wet sealing method	min 100 max 315	min 100 max 315	min 100 max 315
	Rock wool 140kg/m ³ and endothermic varnish sealing ve (i↔o)				
	Min. distance allowed between 2 dampers		200 mm	50 mm	50 mm
Floor	EI 90 – S Installation within floor and Fire Batt (Weichschott) sealing				
	Floor minimum thickness 150 mm			∅	∅
	Floor minimum density 650 kg/m ³	Wet sealing method		min 100 max 315	min 100 max 315
	Rock wool 140 kg/m ³ and endothermic varnish sealing ho (i↔o)				
	Min. distance allowed between 2 dampers		-	200 mm	200 mm

a×b nominal dimensions of damper

ve vertical installation

ho horizontal installation

(i↔o) origin of fire is irrelevant

Pa negative pressure

E integrity

I thermal insulation

S smoke seal

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Technical data

Installations remote from the construction support.

			EI 120 S (300 Pa)	EI 90 S (500 Pa)
Rigid wall	EI 120 – S Installation remote from the vertical rigid wall Wall min. thickness 100 mm Wall min. density 550 kg/m ³ Mortar or plaster putty sealing ve (i↔o)	Wet sealing method	∅ min 100 max 315	∅ min 100 max 315
	EI 120 – S Installation remote from the vertical rigid wall with Fire Batt (Weichschott) sealing Wall min. thickness 100 mm Wall min. density 550 kg/m ³ Rock wool 140kg/m ³ and endothermic varnish sealing ve (i↔o)	Wet sealing method	∅ min 100 max 315	∅ min 100 max 315
Flexible wall	EI 120 – S Installation remote from the vertical light wall (plasterboard) Wall min. thickness 100 mm Wall rock wool min. density 100 kg/m ³ Rock wool 140kg/m ³ and endothermic varnish sealing ve (i↔o)	Wet sealing method	∅ min 100 max 315	∅ min 100 max 315
	EI 120 – S Installation remote from the vertical light wall (plasterboard) with Fire Batt (Weichschott) sealing Wall min. thickness 100 mm Wall rock wool min. density 100 kg/m ³ Rock wool 140kg/m ³ and endothermic varnish sealing ve (i↔o)	Wet sealing method	∅ min 100 max 315	∅ min 100 max 315
	EI 120 S Installation remote from the vertical light wall (gypsum blocks wall) Wall min. thickness 100 mm Wall min. density 995 kg/m ³ Rock wool 140kg/m ³ and endothermic varnish sealing ve (i↔o)	Wet sealing method	∅ min 100 max 315	∅ min 100 max 315
	EI 120 – S Installation remote from the vertical light wall (gypsum blocks wall) with Fire Batt (Weichschott) sealing Wall min. thickness 100 mm Wall min. density 995 kg/m ³ Rock wool 140kg/m ³ and endothermic varnish sealing ve (i↔o)	Wet sealing method	∅ min 100 max 315	∅ min 100 max 315

			EI 120 S (300 Pa)	EI 90 S (500 Pa)
Floor	EI 120 S Installation remote from the floor Floor min. thickness 150 mm Floor min. density 650 kg/m ³ Mortar or plaster putty sealing he (i↔o)	Wet sealing method	∅ min 100 max 315	∅ min 100 max 315
	EI 120 S Installation remote from the floor Floor min. thickness 100 mm Floor min. density 650 kg/m ³ Mortar or plaster putty sealing he (i↔o)	Wet sealing method	∅ min 100 max 315	∅ min 100 max 315

For more detailed information visit:
<http://www.mp3-italia.it>

The fire resistance classifications refer to the conditions obtained by rigorously applying the instructions indicated in the Technical Manual, with reference both to the construction of the wall/ceiling and the installation of the damper.

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Installation within vertical light wall (Shaft wall).

		EI 120 S (300 Pa)	EI 90 S (500 Pa)
Flexible wall	EI 90 S Installation within vertical light wall (Shaft wall)		
	Wall minimum thickness 90 mm	∅	∅
	Plasterboard and mortar or plaster putty sealing	Wet sealing method	min 100
	ve (i↔o)	max 315	max 315