Fire damper WH25

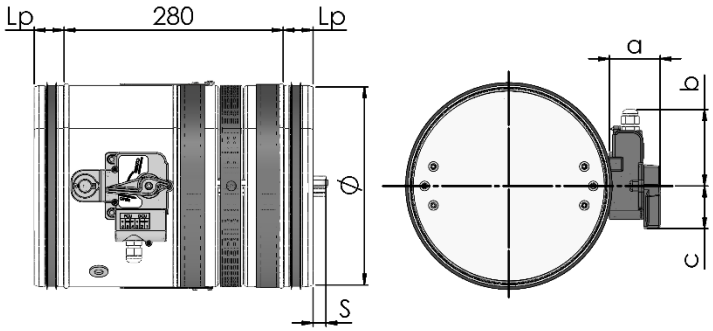


Description

WH25 fire dampers are components designed for use in heating, ventilation and air-conditioning (HVAC) systems at the boundaries of fire compartments to maintain fire compartmentalisation of buildings and protect escape routes in the event of a fire. They meet the criteria for integrity, thermal insulation and smoke containment for the declared fire resistance period. Designed and optimised for small-diameter ducts and confined installation spaces, with particular attention to airflow and acoustic performance. Tested and classified in accordance with standards EN 1366-2 and EN 13501-3 at a negative pressure of 500 Pa.

Product code		
Type	WH	Circular fire damper
Series	25	Blade thickness 25 mm
Manual command		
Command type	B C M	Manual command Compact manual command Manual command with magnet
Position indication microswitches	S0 S2	Without position microswitches With two position microswitches (included for MR/MI versions)
Magnet	M0 MR MI	Without magnet (only for command type “B” and “C”) With power supply interruption magnet through eletric board 24 V DC or 48 V DC With power supply input magnet through eletric board 24 V DC or 48 V DC
Motorized		
Motor type	VSSM DSSM VSBM DSBM TSBM VSGM DSGM TSGM	Siemens motor GRA126 (24 V) Siemens motor GRA326 (230 V) Belimo motor BFL24T (24 V) Belimo motor BFL230T (230 V) Belimo motor BFL24T-ST (24V) Gruner motor 340 TA24-05-S2 (24 V) Gruner motor 340 TA24-05-S2 (230 V) Gruner motor MT-340-TA-024-05-ST01(24 V)
Dimension	XYZ	Nominal diameter (mm)

Dimensions



Ød$_1$ nom	WH25 s mm	WH25 Lp mm	WH25U s mm	WH25U Lp mm	m kg
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:
WH25B - Manual basic / WH25C –Manual compact
WH25M - Manual with magnet / WH25 VSBM/DSBM/TSBM Belimo motorized version / WH25 VSSM/DSSM – Siemens motorized version / WH25 VSGM/DSGM/TSGM – Gruner motorized version

Mechanism type	c mm	b mm	a mm
WH25B	70	46	100
WH25C	95	53	63
WH25M	93	109	120
WH25 VSBM/DSBM/TSBM	65	45	90
WH25 VSSM/DSSM	65	45	100
WH25 VSGM/DSGM/TSGM	65	45	100

Ordering example

WH25B U 200 S0M0

- WH25B — Mechanism type
- U — Connection type Lsst
- 200 — Dimension Ød1
- S0M0 — Control mechanism

We reserve the right to make changes without prior notice

	Position	Support features	Sealing	Hole	Note	Fire resistance class
Rigid wall	within the wall	Min.thickness 100 mm, min density 550 kg/m³	mortar or plaster putty	square hole or circular B= Ø+25 H= Ø+25 B= Ø+440 H= Ø+440 Ø+25 Ø+440	A B D F	EI 120 S (500Pa)
			rock wool 100kg/m3 with plasterboard or calcium silicate	square hole B= Ø+50 H= Ø+50 B= Ø+70 H= Ø+70	A B D F	EI 90 S (500Pa)
			weischscott wall sealing (140 kg/m³ rock wool panel and endothermic paint)	square hole B= Ø+100 H= Ø+100 B= Ø+600 H= Ø+600	A B E F	EI 120 (ve i↔o) S (300Pa)
	remote from the wall		duct insulation: 140 kg/m³ rock wool with endothermic paint; wall sealing: mortar or plaster putty	circular hole Ø+25 Ø+440	A C F	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)
			duct insulation: rock wool 140kg/m3 with endothermic paint wall sealing: weichschott (rock wool panel 140kg/m3 and endothermic paint)	square hole B= Ø+100 H= Ø+100 B= Ø+600 H= Ø+600	A C F	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)

NOTE		
	A Installation without duct connection permitted	**B** minimum distance between two fire dampers 50 mm
	C minimum distance between two fire dampers 200 mm	**D** 75 mm from fire damper and ceiling or side wall
	E 50 mm from fire damper and ceiling or side wall	**F** horizontal or vertical blade axis direction

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	Position	Support features	Sealing	Hole	Note	Fire resistance class
Light wall	within the wall	F-type plasterboard wall min. thickness 100mm, metal studs, optional rock wool insulation	rock wool 100 kg/m³ with plasterboard on both sides or promatech calcium silicate	square hole B= Ø+50 H= Ø+50 B= Ø+70 H= Ø+70	A B D F	EI 90 S (500Pa)
			mortar or plaster putty	square hole B= Ø+50 H= Ø+50 B= Ø+440 H= Ø+440	A B D F	EI 120 S (500Pa)
			wall insulation: weichschott (140 kg/m³ rock wool panel and endothermic paint)	square hole B= Ø+100 H= Ø+100 B= Ø+600 H= Ø+600	A C E F	EI 120 S (300Pa)
		F-type plasterboard wall min. thickness 100mm, metal studs, optional rock wool insulation, with sheet metal safety reinforcement (brandwande)	100 kg/m³ rock wool with plasterboard on both sides or promatech calcium silicate	square hole B= Ø+50 H= Ø+50 B= Ø+70 H= Ø+70	A B D F	EI 120 S (500Pa)
			mortar or plaster putty	square hole B= Ø+50 H= Ø+50 B= Ø+440 H= Ø+440	A B D F	EI 120 S (500Pa)

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	Position	Support features	Sealing	Hole	Note	Fire resistance class
Light wall	within the wall	A-type plasterboard wall min. thickness 100mm, metal studs, optional rock wool insulation	rock wool 80 kg/m³ with plasterboard on both sides or promatech calcium silicate	square hole Ø+50 Ø+70	A B D F	EI 60 S (500Pa)
	remote from the wall	F-type plasterboard wall min. thickness 100mm, metal studs, optional rock wool insulation	mortar or plaster putty	square hole B= Ø+50 H= Ø+50 B= Ø+440 H= Ø+440	A C F	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)
			rock wool 100kg/m3 with plasterboard on both sides or calcium silicate	square hole B= Ø+50 H= Ø+50 B= Ø+70 H= Ø+70	A C F	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)
			duct insulation: rock wool 140kg/m3 with endothermic paint wall sealing: weichschott (panel rock wool 140kg/m3 and endothermic paint)	square hole B= Ø+100 H= Ø+100 B= Ø+600 H= Ø+600	A C F	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)

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	Position	Support features	Sealing	Hole	Note	Fire resistance class
Light wall	within the wall	gypsum blocks min. thickness 100mm, density 995 kg/m	plaster putty	circular hole Ø+25 Ø+35	A B D F	EI 120 S (500Pa)
			wall insulation: weichschott (140 kg/m³ rock wool panel and endothermic paint)	Square hole B= Ø+100 H= Ø+100 B= Ø+600 H= Ø+600	A C E F	EI 120 S (300Pa)
	remote from the wall		mortar or plaster putty	circular hole Ø+25 Ø+35	A CF	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)
			duct insulation: rock wool 140 kg/m³ with endothermic coating wall sealing: weichschott (rock wool panel 140 kg/m³ and endothermic paint)	Square hole B= Ø+100 H= Ø+100 B= Ø+600 H= Ø+600	A C F	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)
	within the wall	gypsum blocks min. thickness 70mm, density 995 kg/m	plaster putty	circular hole Ø+25 Ø+35	A C D F	EI 90 S (500Pa)
		shaft wall min. thickness 90mm	mortar or plaster putty with plasterboard on both sides	Square hole B= Ø+50 H= Ø+50 B= Ø+70 H= Ø+70	A C D F	EI 90 S (300Pa)

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	Position	Support features	Sealing	Hole	Note	Fire resistance class
Floor	within the floor	Floor min. thickness 150mm, density 650kg/m³	mortar	circular hole Ø+25 Ø+35	A B D	EI 120 S (500Pa)
			floor sealing: weichschott (140 kg/m³ rock wool panel and promastop paint)	square hole B= Ø+100 H= Ø+100 B= Ø+600 H= Ø+600	A C D	EI 90 S (300Pa)
	remote from the floor		duct insulation: rock wool 140 kg/m³ with endothermic paint floor sealing: mortar or plaster	circular hole Ø+25 Ø+35	A C	EI 90 S (500Pa) EI 120 S (300Pa)
	within the floor	Floor min. thickness 100mm, density 650kg/m³	mortar	circular hole Ø+25 Ø+35	A B D	EI 90 S (500Pa)
	remote from the floor		duct insulation: rock wool 140 kg/m³ with endothermic paint floor sealing: mortar or plaster putty	circular hole Ø+25 Ø+35	A C	EI 90 S (500Pa)

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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.