HT 310

Fire dampers REI 120

Product	**HT 310**
Construction material	**Steel**
Finishing	**Electrolytic galvanized**

Caratteristiche HT 310 fire dampers are REI 120 certified and prevent the spreading of smoke and flames in air circuits, thus offering high protection for people and things. HT 310 dampers have just one blade, in inert material completely incombustible, reinforced on both of the longer sides by a U-shaped sheet profile.
The body is made of strong galvanized steel sheet and it is fitted with flanges on the two ends used for the connection to the ducts. The spring thermal release device is engaged by a fuse in the frame which melts at a temperature of 72 °C, thus allowing the torsion spring to close the blade, where it is held into place by an automatic stop device.

On request the fire dampers are supplied with thermal-electric release devices: the electric servo control brings the damper in stand-by position and at the same time loads the return spring.
If the power supply is interrupted, the servo motor brings the damper in safety position thanks to the energy accumulated by the spring. The thermal fuse Tf1 is engaged if the room temperature exceeds 72 °C. The Tf 2 thermal fuse, which can be replaced, is engaged when the temperature inside the duct exceeds 72 °C. When the fuse is engaged the supply line is irreversibly interrupted.

HT 310 dampers is certificate by directive n. 91 of the Ministry for the Interior, with certifications N° 230182/3001 FR.

Installation The damper can be fitted among walls or light fire REI partitions with blade rotation axis horizontal.
This new design guarantees a complete protection of perimetric damper zone in correspondence with REI walls crossing. Walls sealing is at fitter's expense.

Interchangeable Is possible to replace the reset device also with fitted damper: from manual version to electric motorized or to magnet version simply replacing plate and accessories.

Altezza (mm) H	Larghezza (mm) L 200	300	400	500	600	700	800	900	1000
200	•	•	•	•	•	•	•	•	•
300	•	•	•	•	•	•	•	•	•
400	•	•	•	•	•	•	•	•	•
500	•	•	•	•	•	•	•	•	•
600	•	•	•	•	•	•	•	•	•
700	•	•	•	•	•	•	•	•	•
800	•	•	•	•	•	•	•	•	•
900	•	•	•	•	•	•	•	•	•
1000	•	•	•	•	•	•	•	•	•
1100	•	•	•	•	•	•	•	•	•
1200	•	•	•	•	•	•	•	•	•
1300	•	•	•	•	•	•	•	•	•
1400	•	•	•	•	•	•	•	•	•
1500	•	•	•	•	•	•	•	•	•
1600	•	•	•	•	•	•	•	•	•
1700	•	•	•	•	•	•	•	•	•
1800	•	•	•	•	•	•	•	•	•
1900	•	•	•	•	•	•	•	•	•
2000	•	•	•	•	•	•	•	•	•

Price increase of 13% for dampers with frame with depth up to 500 mm

On request versions with intermediate dimensions by 50 to 50 mm are available - max dim. 2000 x 1000
Dampers ready at stock are complete with microswitch non included in the indicated price.

Accessories for dampers

Electric microswitch

Fuse

Description

Electric microswitch with double contact on - off - Protection IP 66

Spare fuses

Fuse 72 °C, standard
Fuse 96 °C, upon request

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Electric actuators (IP54)

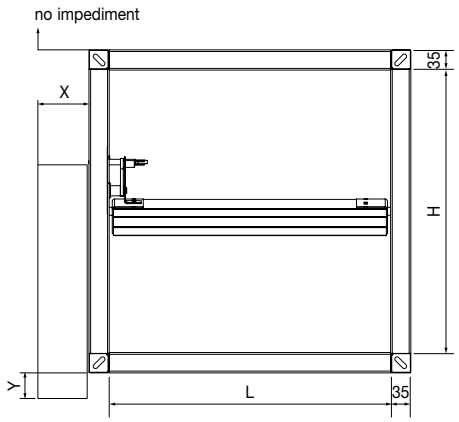
Model	Description	Power input W to open	Power input W to stay open
BLF 24 T	Thermal/electric release + 2 micro with spring return (up to 0,25 mq approx)	5	2,3
BF 24 T	Thermal/electric release + 2 micro with spring return	7	2
BF 24	With spring return 24 V + 2 micro	7	2
BLF 230 T	Thermal/electric release + 2 micro with spring return (up to 0,25 mq approx)	5	3
BF 230 T	Thermal/electric release + 2 micro with spring return	8	3
BF 230	With spring return 220 V + 2 micro	8	3

Magnets

Model	Description
E 1	Thermal/electric control with magnet and thermal contact breaker locked with the magnet through electric contact, power supply 220 V approx. normally energized
E 3	C.S. with 24 V power supply approx. normally energized
E 5	Magnet with power supply 220 V approx. normally energized (without thermal contact breaker)
E 6	Magnet with power supply 220 V approx. normally not energized (without thermal contact breaker)
E 7	Magnet with power supply 24 V approx. normally energized (without thermal contact breaker)
E 8	Magnet with power supply 24 V approx. normally not energized (without thermal contact breaker)

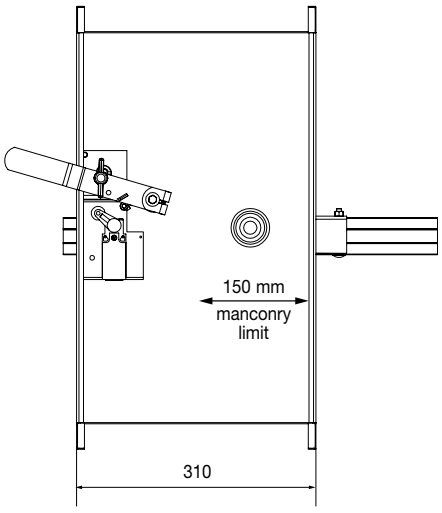
For above mentioned magnets the power input is 9 W.

Size

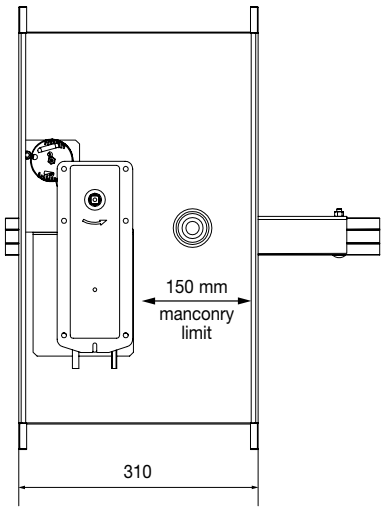


Mod	Reset type	X mm	Y mm		
			H 200	H 250	H ≥300
HT 310	Standard with manual reset and microswitch	45	---	---	---
HT 310	Electric actuator	80	40	20	0
HT 310	Magnet	80	---	---	---

HT 310 standard with manual reset and microswitch



HT 310 + electric actuators



HT 310 + magnet c.s.

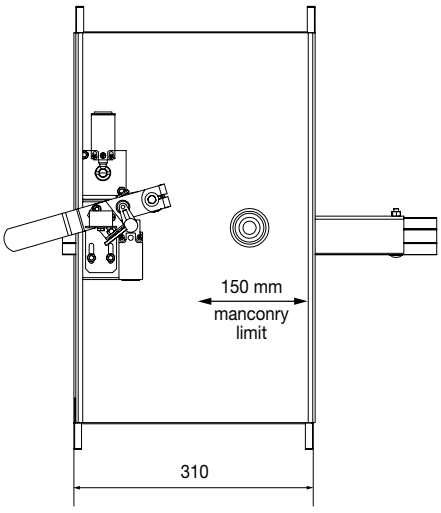


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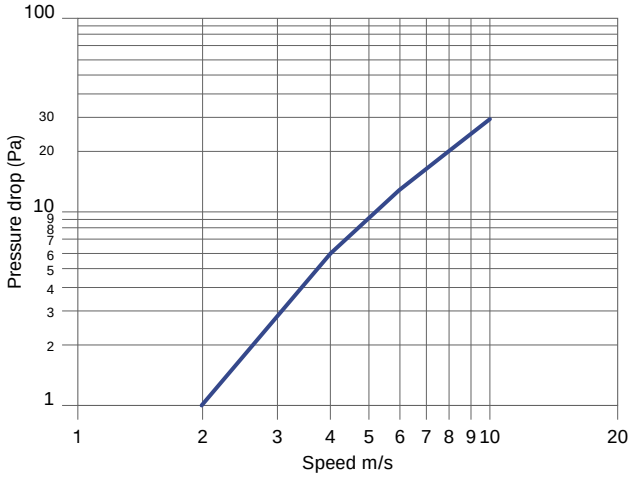
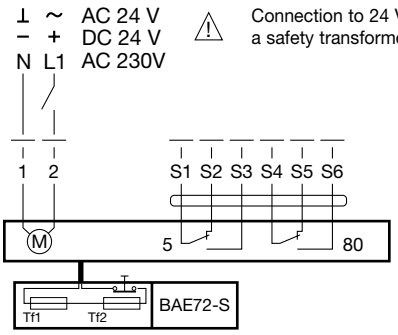
Diagram for the detrmination of pressure drops



The air flow rates and the pressure drop rates are certified according to the UNI 8728 and pr EN 12238 standards, by and indipendent and certified body, in compliance with the legislation in force on energy saving standards.

Connection diagram BLF 24-T BF 24-T BLF 230-T BF 230-T



BLF230-T, BF230-T

For power supply interruption foresee a section device for all phases (minimum contact open 3 mm).

Possibility of connecting more than one servo motors in parallel. Take into account the power data.

ISTITUTO GIORDANO

RAPPORTO DI PROVA N. 230182/3001FR

Luogo e data di emissione: Bellaria-Igea Marina - Italia, 07/09/2007

Committente: SAGICOFIM S.p.A. - Via Firenze, 1 - 20063 CERNUSCO SUL NAVIGLIO (MI) - Italia

Data dell'esecuzione della prova: 29/08/2007

Oggetto della prova: Determinazione della resistenza al fuoco secondo la Circolare n. 91 del Ministero dell'Interno - Direzione Generale dei Servizi Antincendi del 14/09/1961.

Luogo della prova: Istituto Giordano S.p.A. - Blocco 3 - Via Verga, 19 - 47043 Gatteo (FC) - Italia.

Provenienza del campione: fornito dal Committente.

Generalità.

ISTITUTO GIORDANO

Classificazione.

REI 120