



HTC 400

Circular fire dampers REI 120

Product

HTC 400

Construction material

Steel

Finishing

Electrolytic galvanized

HTC 400 fire dampers are used for installation in circular ducts to isolate sections of the duct in case of fire. The dampers are manufactured in compliance with the safety standards in force and HTC 400 dampers can be used in fire compartments up to REI 120 class.

HTC 400 fire dampers have an external galvanized steel sheet layer, 1.5 mm thick and a blade, 48 mm thick, made by layers of sheet rock completely incombustible (calcium sulphate bi-hydrate) with galvanized steel sheet holding plates with pins rotating on bushes around a horizontal axis.

Inside the tunnel there are galvanized steel sheet shutters for the blade, with thermal expanding gasket. Externally the dampers

are fitted with a control system made by a thermal contact breaker which keeps the blade normally open.

The automatic thermal release is engaged by a tensioned metal fuse, set at 72 °C, inside the damper.

There is also a manual return lever fitted with locking device in stop position with damper closed.

On request the fire dampers are supplied with thermal-electric release device: 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.

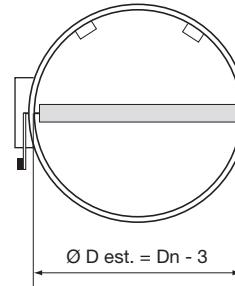
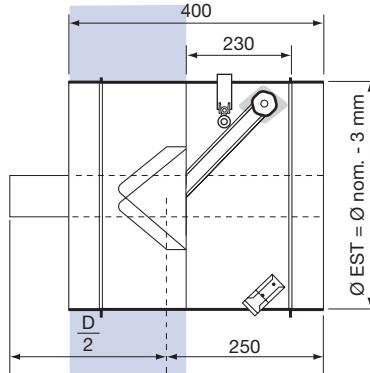
The HT 300 dampers have been tested according to the fire resistance procedures laid out by directive n. 91 of the Ministry for the Interior, with certifications of the Ministerial Ordinance 11/30/83 and by VHI 7678.

Installation To guarantee a correct operation of the damper, the rotation axis of the blade must always be horizontal.

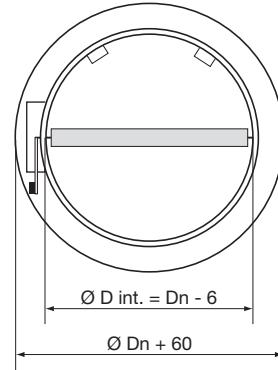
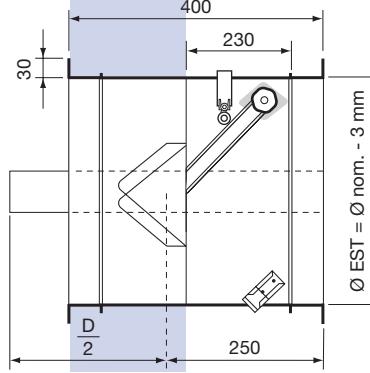
Model	Nominal diameter (mm)											
	200	250	315	355	400	450	500	560	630	710	800	
€	€	€	€	€	€	€	€	€	€	€	€	€
HTC 400	•	•	•	•	•	•	•	•	•	•	•	•
HTC/R 400	•	•	•	•	•	•	•	•	•	•	•	•

Size

HTC 400 + micro and manual reset



HTC/R 400 + micro and manual reset

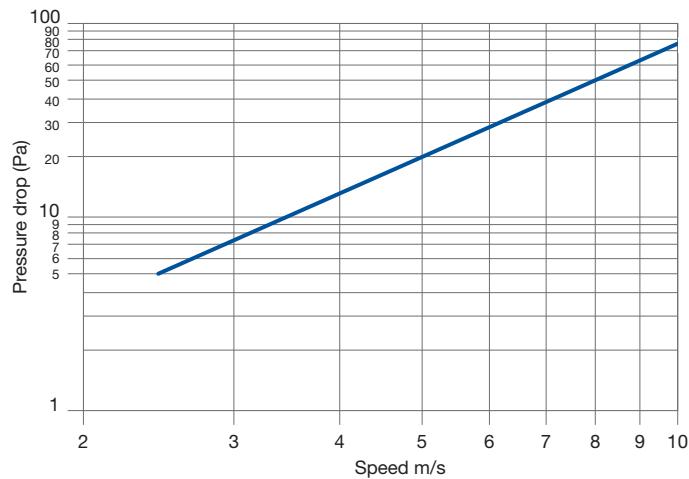


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Diagram for the determination of pressure drops

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



(Rapporto di prova n. 122290/1882RF del 20/10/1998)

segue - foglio n. 22 di 22

Classificazione.

Dall'esame dei risultati emersi dalla prova eseguita su n. 3 serrande tagliafuoco, di cui due con sezione circolare denominate "HTC 400" e "HTFC 400" ed una con sezione quadrata denominata "HTF 300", sopra descritte, prodotte e presentate dalla ditta Sagi Italiana S.p.A. - Via Firenze, 1 - 20063 Cernusco sul Naviglio (MI), si deduce che la durata di resistenza al fuoco della serranda tagliafuoco "HTC 400" è stata di 127 minuti, la durata di resistenza al fuoco della serranda tagliafuoco "HTFC 400" è stata di 77 minuti e la durata di resistenza al fuoco della serranda tagliafuoco "HTF 300" è stata di 75 minuti.

Pertanto, secondo quanto riportato nella Circolare n. 91 del Ministero dell'Interno - Direzione Generale dei Servizi Antincendi del 14/09/1961 e nel D.M. 30/11/1983, la serranda tagliafuoco "HTC 400" in prova viene classificata

REI 120

e le serrande tagliafuoco "HTFC 400" e "HTF 300" in prova vengono classificate

Bellarica, 20/10/1998

Il Presidente o
l'Amministratore Delegato

Dott. Ing. Vincenzo Iommì