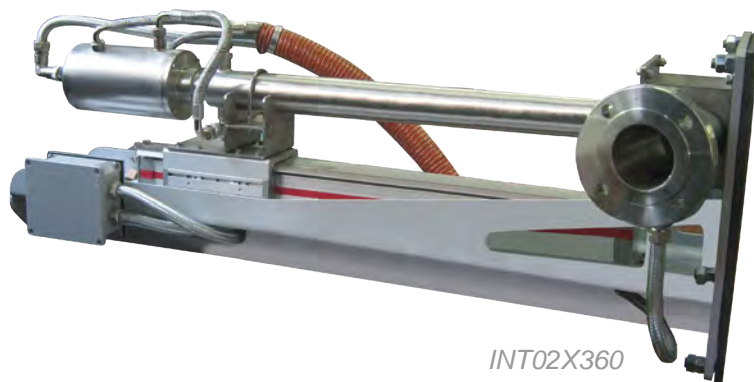


HIGH TEMPERATURE CAMERA

in^{tec} retraction device

Water and air cooled high temperature systems



INT02X360

INTEC series

Operational description

When it is requested to monitor the inside of a boiler/furnace in order to manage the internal state of the high temperature chamber, INTEC series represent the best available solution: it is a retraction device that increased safety and easy maintenance of the high temperature monitoring systems.

The equipment is composed by a pneumatic linear actuator for automatic retraction and a mechanical shutter (porthole). During insertion phase the shutter will be automatically open.

Moreover the unit is fitted with an integral air system (fan air or compressed air) that creates an "air barrier" to protect the camera from overpressure or flame exit through the boiler/furnace orifice.

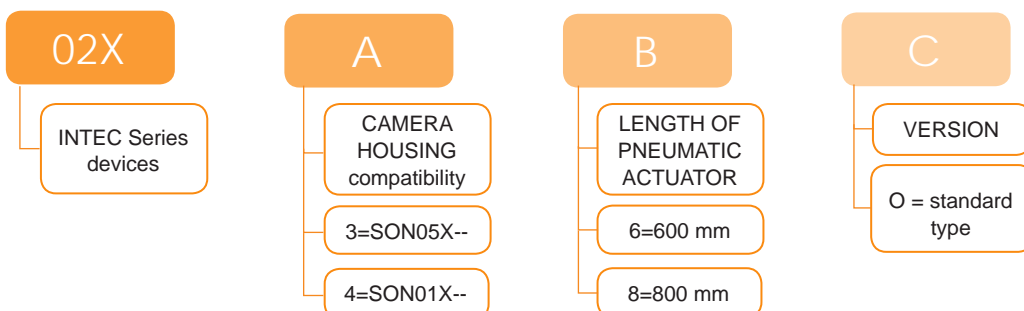
In case of power failure, water or air shortage or temperature exciding the standard requirements, the retraction device automatically removes the camera housing from the boiler/furnace. In such cases, the porthole is automatically sealed with a flap to reduce any thermal or pressure losses.

The necessary cooling media supply and power supply are performed by control cabinet CABTEC series. If a failure occurs the retraction device automatically removes the camera housing from the boiler/furnace.

During planning and projecting phase our engineers will support the customers in order to find the optimized position where to install the surveillance system and to suggest the best available solution according to customer's requirements.

INTEC overall dimension and mechanical interface have been developed to guarantee compatibility and interchangeability with the most common high temperature vision systems available on the worldwide market.

Part Number Configurator



 **TECNOVISION**

Head Office and Factory:
Telea Tecnovision Srl
Italy
tel. +39 02 9952517
fax. + 39 02 40700322
telea@telea.com
www.telea.com

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Specifications may be subject to change for improvement without prior notice.



HIGH TEMPERATURE CAMERA

Technical Specifications

Dimensions

Overall dimensions: maximum 475 x 424 x 1305 mm (HxWxD)
Environmental max temperature: 80° C

Fan Air Barrier System

Connection: 3" ANSI 150RF - (PN20)
Temperature IN: 50°C max
Pressure entry: 50 mm H₂O more than internal pressure of the boiler/furnace
Quality: fan air

Compressed Air Barrier System (as an alternative to Fan Air)

Connection: 1 x 1/2" M BSPP S.S. AISI316L
Temperature IN: 50°C max
Consumption: from 5 Nm³/h (1*)
Pressure entry: from 2 bar to 4 bar (1*)
Quality: services air

Water cooling

Connection: 2 x 1/2" M BSPP
Temperatures IN: 45°C MAX
Flow: from 4 l/min to 8 l/min (1*)
Pressure entry: from 2 bar to 6 bar
Quality: PH 6-8 Max suspension 10 mg/L

Compressed Air for linear drive actuator

Connection: 2 x 1/4" M BSPP
Temperature In: 50°C max
Pressure entry: from 4 bar to 6 bar
Quality: services air

Air for cooling and cleaning lens

Connection: 1 x 3/8" M BSPP (other on request)
Quality: Instrumental Air ISO 8573-1 Classe 1.7.2

Accessories

CAB11X2__ Hydraulic-pneumatic and electrical control cabinet CABTEC series; cover made by carbon steel, stainless-steel or polyester; hydraulic circuits made by copper and basic design instrumentation, or stainless steel hydraulic circuits and instrumentation.

Notes

(1*) Data are indicative and depend on process' temperature and application. For more information, please contact our engineers.