

# HIGH TEMPERATURE CAMERA

in<sup>tec</sup> retraction device

Water and air cooled high temperature systems



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

02X	A	B	C	D	E
INTEC Series devices	Type of mounting	Actuator length	Type of housing	On board air circuit pipes	Fittings
	1 = straight	0 = 1000 mm	1 = Sonda 2.0	1 = PA11	1 = AISI316L
	2 = inverted	1 = 1300 mm	2 = Periscope	2 = Cu	2 = Nichel
		4 = 400 mm	3 = Sonda "S"		
		6 = 600 mm	4 = Sonda "P"		
		8 = 800 mm			
		9 = 900 mm			

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# 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 H<sub>2</sub>O 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 Nm<sup>3</sup>/h (1\*)  
 Pressure entry: from 2 bar to 4 bar (1\*)  
 Quality: services air

### Cooling system (more details available on relative SONDATEC datasheet)

Water Connection: 2x1/2" M BSPP  
 Air Connection: 1 x 3/8" M BSPP (other on request)

### 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)

## 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.

## Correlated products

OBLO02D--- Protective porthole for closing/opening in the furnace/boiler.

02D	A	B	C	D
OBLO' Series for INTEC devices	Air barrier	Temperature Sensor	Type of mounting (back view)	Type of housing
	0 = fan air	0 = Thermostat	0 = with left flange	1 = Sonda 2.0r
	1 = compressed air	T = PT100	1 = with right flange (as our standard)	2 = Periscope
	2 = no air barrier	W = PT100 + Thermostat	2 = without flange	3 = Sonda "S"
		N = no temperature sensor	3 = special mounting	4 = Sonda "P"
			4 = pneumatic shutter door	



### Notes

\*\* Except for versions 1300mm or 400mm long.

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

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