

HIGH TEMPERATURE CAMERA

OUT^{tec} wall fixing and protective device

Water and air cooled high temperature systems



OUT3X100 + SON01X300



OUTEC Series

Operational description

OUTEC series device is a wall fixing medium that increased safety and easy maintenance of the high temperature monitoring systems, SONDATEC series. It can be used where internal furnace temperature is up to 1600°C (≈3000°F) and wall temperature up to 200°C (≈400°F).

The equipment is made by AISI304 stainless steel and it is endowed with a water cooling system, with a protective shutter controlled by a pneumatic cylinder and with a compressed air system.

The necessary cooling media supply and power supply are performed by control cabinet CABTEC series. In case of power failure, water or air shortage or temperature exceeding the standard requirements, the shutter is automatically sealed with a pneumatic cylinder in order to protect the camera housing and to reduce any thermal or pressure losses.

Moreover the unit is fitted with an integral compressed air system that creates an “air barrier” to protect the camera from overpressure or flame exit through the furnace orifice. In such a way the camera doesn't require any expensive protection glass, crystal and protection porthole. A constant supply of clean air is essential for proper camera operation and protection: GFATEC series represent an effective filtration system able to remove contaminants and to provide high quality clean air in industrial environments.

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.



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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Technical Specifications

Dimensions

Overall dimension: 590 x 350 x 500 mm approx. (HxWxD)
Diameter: 101,6 mm
Angle of vision: axial, max horizontal angle 74°
Environmental max temperature: 200°C

Water cooling

Connection: ___" M BSPP
Temperature 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 Barrier System

Connection: ___" M BSPP
Temperature IN: 50°C max
Consumption: from 5 a Nm³/h to 20 Nm³/h (*2)
Pressure entry: from 3 bar to 6 bar (*2)
Quality: services air

Compressed Air for pneumatic cylinder

Connection: ___" M BSPP
Temperature IN: 50°C max
Pressure entry: from 3 bar to 6 bar
Quality: services air

Available models

OUT03X100 Wall fixing medium OUTEC series endowed with protection shutter, pneumatic cylinder and compressed air barrier. Made by AISI304 stainless steel. Only for SONDATEC series.

Accessories

CAB11X1___ Hydraulic-pneumatic and electrical control cabinet CABTEC series endowed with compressed air filter unit (GFATEC series) and with pressure regulator and manometer.

Correlated products

SON01X3___ Water and air cooled high temperature camera housing SONDATEC series made by AISI 304 stainless steel, length 350 mm.

KIT10T___ Hydraulic and pneumatic pipes for interconnection with control cabinet CABTEC series.

Notes

(*1) Data are indicative and depend on process' temperature, wall's temperature and application. 8 l/min is referred to temperature inside the furnace >1500°C (≈ 2730°F).

(*2) Data are indicative and depend on process' transitional excess pressure and application. For more information, please contact our engineers.