

# MICROSTEAM Steam heater

## 1 Application

Steam heating of instrument enclosures, designed for

- freeze protection
- condensation protection
- vertical installation

## 2 Features

- very slim heater body design
- vertical design allows for optimum installation adjacent to the instruments to be heated in the enclosure
- high heat output resulting from a special, black anodized aluminium profile construction
- Heating source: Steam or hot glycol/water
- Same profile as for CP MICROTHERM. (data sheet HD640)
- Standard Intertec accessories such as mounting brackets etc same as for the electrical Ex heater CP MICROTHERM.
- Tube cut and bent to fit the application.

## 3 Description

MICROSTEAM is a steam or glycol/water heaters designed to heat the air in the enclosure by convection. MICROSTEAM is the right choice of heater if the available space is not sufficient to install a larger model such as the MULTISTEAM heater.

Allow for good convection circulation in the enclosure and take care not to cover the fins.

To control the temperature inside the enclosure to an accurate set point, MICROSTEAM may be combined with a TV/ Sxx steam controller and TV/ HAT steam trap (please see HD513 and HD515 )



## 4 Technical Data

Tube	Stainless steel 12 mm OD
Length of tube	900 mm
Profile	
Length x Width x Height	50 x 50 x 155 mm
Material	seawater-proof aluminium, black anodized
Connection	Any regular fittings.

## 5 Options

Electrical Power	Same profile but powered electrically. The CP Microtherm heater described by data sheet HD640
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## 6 Power out put

The power out put of Microsteam does depend on the set point temperature and quality of the steam or water. Below table indicates performances. For further information, please ask factory.

MICROSTEAM	Power at different set point and steam/water temperatures.	
	Freeze protection +10°C	Temperature maintenance +40°C
Steam 160°C, 6 bar	115 W	80 W
Steam 130°C, 2,5 bar	80 W	55 W
Steam 110°C, 1,5 bar	65 W	40 W
Water 90°C, 1 bar	45 W	25 W
Water 70°C, 1 bar	30 W	10 W

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## 7 Installation Position and Minimum Clearances

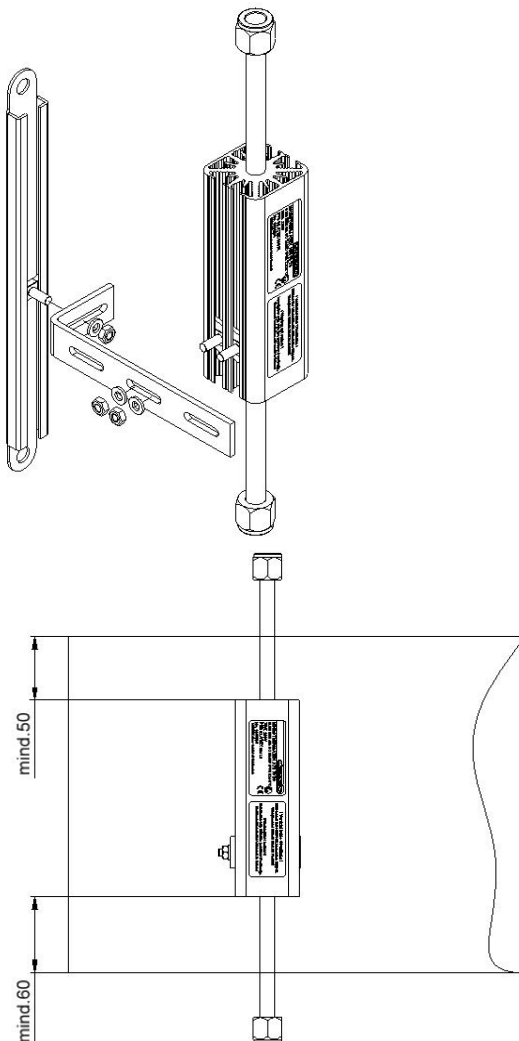
During installation, attention should be paid to the following:

- The fins must be positioned vertically
- Please note minimum clearances to the enclosure, as per 7.1 and 7.2.
- System solution as per chapter 7.3.

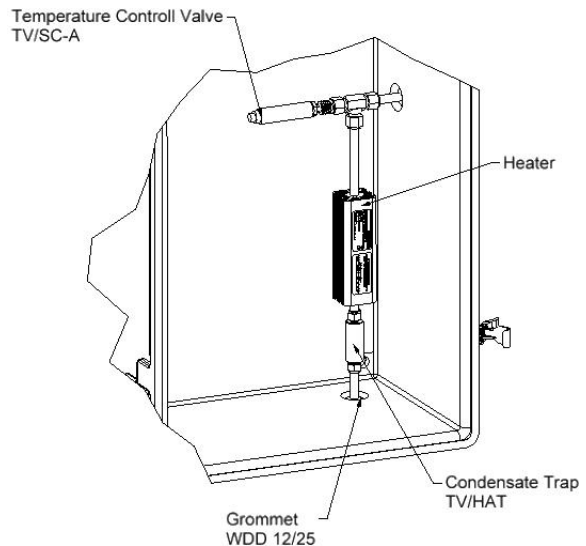
The INTERTEC universal mounting bracket supplied with the heater enables versatile use.

All crews and nuts are included with the heater.

### 7.1 Installation and minimum clearance



### 7.2 Steam system solution



Steam heater, controller and trap.

### 7.3 Example of application with steam heating

