CP MEGATHERM C.A Electric heater

1 Application

Heating of instrument enclosures in hazardous areas, designed for

- freeze protection
- condensation protection
- temperature maintenance
- vertical installation

2 Special Features & Advantages

- vertical design allows for optimum installation adjacent to the instruments to be heated in the enclosure
- freeze-protection thermostat integrated as standard in the connection cable
- high heat output resulting from a special, black anodized aluminium profile construction

3 Description

The very versatile MEGATHERM line consists of electric heaters designed to heat the air in the enclosure by convection. Wherever possible, a heater designed for temperature class T3 should be selected. A temperature fuse is integrated in the core block, cutting off the power in case of a failure or excessive heating resulting from an external heat source. It should be noted that this temperature limiter must only be repaired in our factory. For reasons of operational safety the heater must only be operated under conditions that ensure that the trip temperature of the limiter will not be exceeded:

- Controllers such as TSxx or TC switch off the heater in case of high temperatures inside the enclosure.
- Ensure effective convection by observing the necessary clearances. Allow for good convection circulation in the enclosure and take care not to cover the fins.

For any specific applications requiring high temperature maintenance we will be pleased to select the suitable combination of heater and controller.

A residual-current-operated protective device with a rated value of not more than 300 mA, preferably 30 mA should be installed.

A temperature indicator shows potential problems and failures at an early stage (e.g. incorrect installation). Please check the application if more than 3 fields have irreversibly changed to black.

"Warranty null and void if Heater strip has been removed from Heater"

All INTERTEC explosion-proof heaters can also be supplied

- in a less expensive, non-explosion-proof design
- as ATEX and IEC certified versions.
- as Bi-Standard (see datasheet HD608-xc).

Other types upon request.

4 Technical data

CSA Certificate	1655545 (LR43674)
CSA Type of Protection	Cl. 1, Div. 1, Gp ABCD T3/ T4
Ingress Protection	IP 68
Nominal voltage	120V AC
Connection cable	EWKF 3 x 1,5mm² 8,1mm Ø
Conduit connection	½" NPT
Length of cable	39" / 1 m
Width, depth	9,0"/ 229 mm, 2,4"/ 60 mm
Material	seawater-proof aluminium, black anodized

5 Types

(Further types upon request)

CP MEGATHERM CPA	200	300*	400
Nominal power [W]	200	300	400
Temperature class	T4	T3	T3
Height	8.9"/ 225 mm		

CP MEGATHERM CTA	400	600
Nominal power [W]	400	600
Temperature class	T3	T3
Height	12.8"/ 325 mm	

*This type of heater can also be used for temperature maintenance up to 40°C. Room temperature control must be effected by an additional TS thermostat or TC temperature controller.

6 Options

TSxx JC	Thermostat kit with 3 port junction box
3M	Connection cable 10' / 3 m long
230V	Nominal voltage 230V AC
240-265V	Nominal voltage 240-265V AC
277V	Nominal voltage 277V AC
ATEX	European ATEX version also available
T4	Temperature Class T4 available on request

Not all options can be combined.

Ordering example: CP MEGATHERM CPA 300 T3

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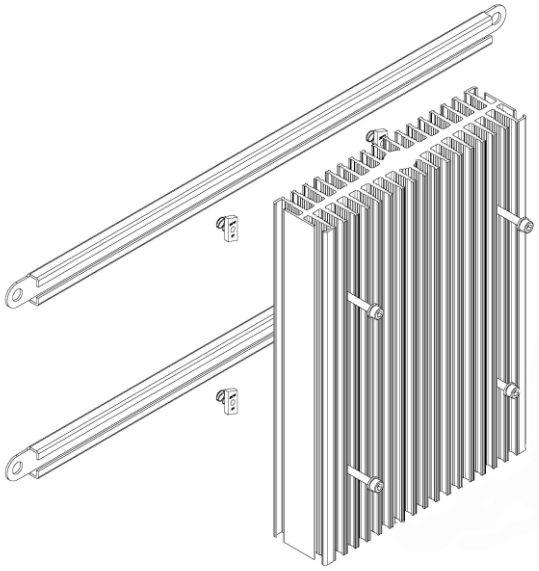
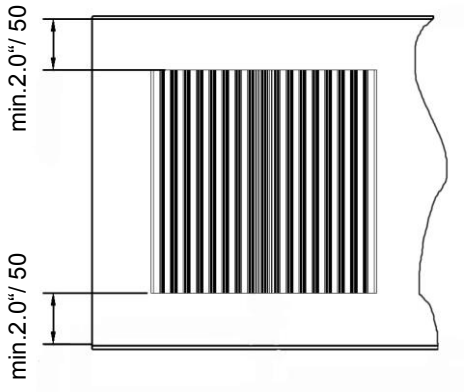
7 Installation, Minimum Clearances

During installation, attention should be paid to the following:

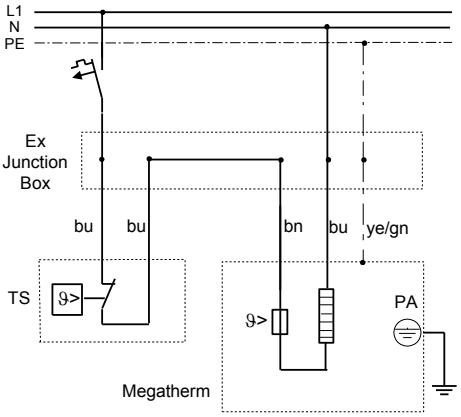
- installation and operating instructions supplied with the heater MEGATHERM
- The fins must be positioned vertically
- Please note minimum clearances to the enclosure

Bolts and nuts are included in the mounting kit.





8 Wiring Diagramme



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