



# VARITHERM CDA/ CFA Electric Heater



## 1 Application

Heating of instrument enclosures in hazardous areas, designed for

- freeze protection
- condensation protection
- for compact spaces
- preferably horizontal installation

## 2 Special Features & Advantages

- Horizontal design allows for optimum installation of the heater underneath the instruments in the enclosure
- Vertical or horizontal installation
- High heat transfer capabilities due to the large surface area of the black anodized aluminum ribbed fins.
- Freeze protection thermostat (option TSxx JC) with junction box can be provided

## 3 Description

The VARITHERM CFA or CDA heater consists of a block with fins and a connection cable. A fixed resistance heating cartridge heats the block and the heat is transferred from the fins to the surrounding air.

- Controllers such as TSxx or TC switch off the heater in case of high temperatures inside the box.
- Ensure effective convection by observing the recommended clearances. Take care not to cover the fins.

## 4 Performance

The effective heating capacity depends on the internal temperature of the protective housing and the mounting position of the heater. When a vertical mounting position is used, the heating power might be less.

**Please consult factory for vertical applications**



## 5 Technical Data

CSA Certificate	1069879 (LR43674)
CSA Type of Protection	Cl. 1, Div. 1, Grp, ABCD
Ingress Protection	IP 68
Nominal voltage	120 V
Ambient Temperature	-4 °F to 104 °F/ -20 °C to +40 °C
Connection cable	3 x 1.5 mm <sup>2</sup>
Conduit connection	½" NPT
Length of Cable	39" / 1 m
Dimensions	see drawings page 2
Material	seawater-proof aluminium, black anodized

All INTERTEC explosion-proof heaters can also be provided in IEC, ATEX and GOST Standard.

## 6 Types

Varitherm	CFA 120/40	CDA 120/ 40	CDA 200/ 40
Temperature Class	T3		
Nominal power [W]	120	120	200

## 7 Options

TSxx JC	Thermostat kit with 3 port junction box
AM	Failure alarm opening at < 5 °C
3M	Connection cable 3 m long
S	Material: stainless steel, 1.4571

### Ordering examples:

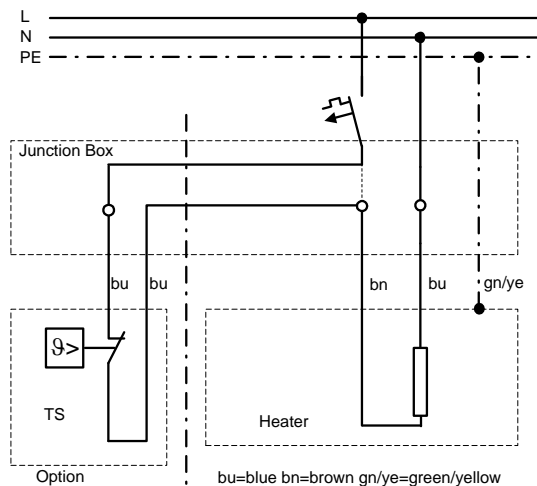
VARITHERM CDA 200/40 T3 3M or

VARITHERM CFA 120/40 T3 TS10 JC

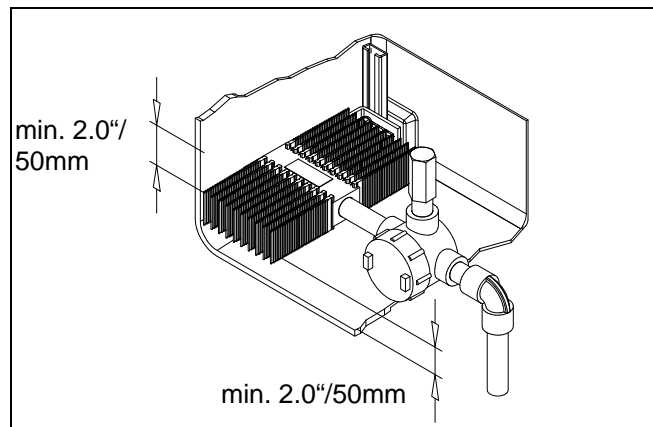


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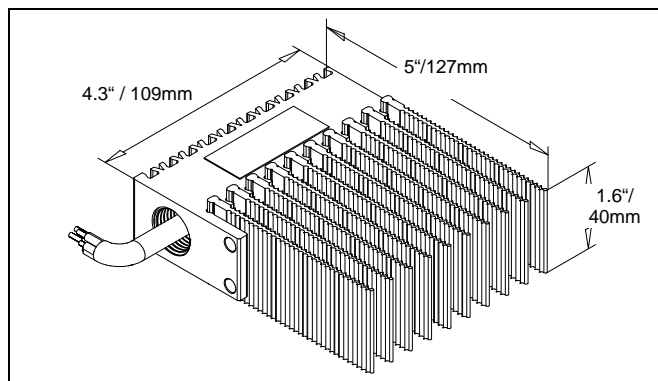
## 8 Electric Wiring



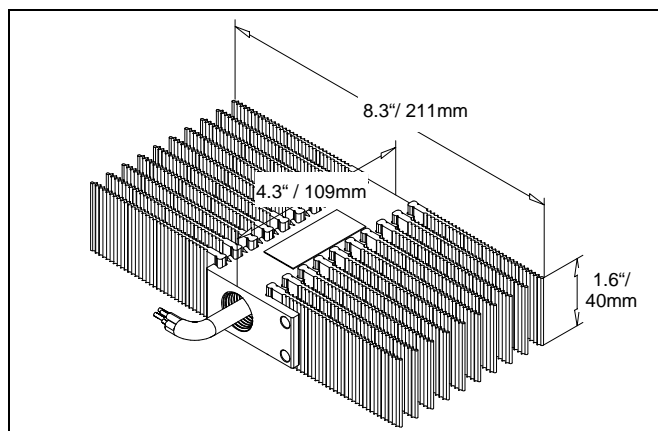
## 10 Inside Clearances



## 9 Dimensions

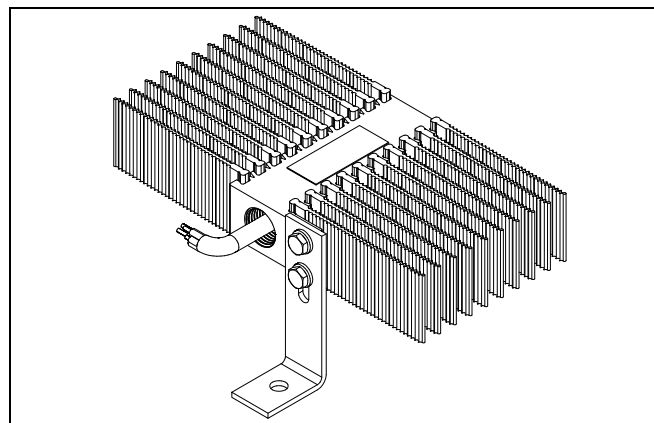


VARITHERM CFA



VARITHERM CDA

## 11 Installation



The mounting bracket can be installed on either end of the block.