



# SL VARITHERM CPA ...

# Electric heater



## 1 Application

Heating of instrument enclosures in hazardous areas, designed for

- freeze protection
- condensation protection
- temperature maintenance
- preferably horizontal installation

## 2 Special Features & Advantages

- Horizontal design allows for optimum installation of the heater underneath the instruments in the enclosure
- Vertical installation is also possible
- High heat transfer capabilities due to large surface area of black anodized aluminum fins
- Heater fins can be removed and modified by INTERTEC, if necessary for installation purposes

## 3 Description

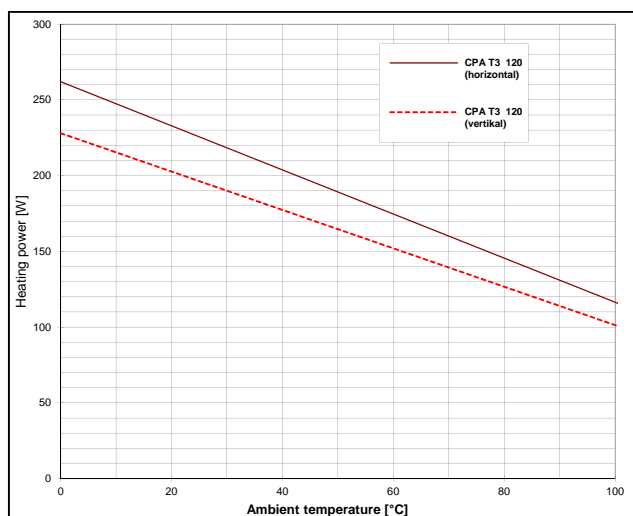
VARITHERM heaters are finned heaters, heating the air in the enclosure by convection.

The SL VARITHERM is heated by a self-limiting PTC-cartridge. Make sure that the minimum installation distances will be met as described under item 8.

This is essential to achieve the necessary free thermal convection inside the enclosure. The Heater fins must not be covered!

## 4 Performance

The output of an explosion-proof PTC heater depends on the temperature. The diagram below shows the output at different internal air temperatures.



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

## 5 Technical Data

CSA Certificate	1655545 (LR 43674)
CSA Type of Protection	Cl. I, Div. 1, Grp ABCD T3/ T4 Cl. II, Grp EFG

## 6 Types

Ingress Protection	IP 68
Nominal voltage	110 bis 265 Volt
Operating temp. range	-50°C bis 180°C
Connection cable	3x AWG16; Ø 0,37"/ 9,4 mm
Conduit connection	1/2" NPT
Length of connect. cable	39.4"/ 1 m
Length, width	8.7"/ 220 mm, 8.4"/ 213 mm
Material	seawater-proof aluminum, black anodized

SL VARITHERM CPA ...	T3 120
Nominal power	250 W
Temperature class	T3
Height	4.7"/ 120 mm

(Other types upon request)

All INTERTEC explosion-proof heaters can also be supplied

- to European standard (ATEX)  
Ordering Example: SL VARITHERM **D**PA T3 120
- as Bi-Standard (see datasheet HD508)
- in a less expensive, **non**-explosion-proof design  
Ordering Example: SL VARITHERM **N**PA 120

## 7 Options

AM	Failure alarm opening at < 5 °C
3M	Connection cable 118.1"/ 3 m long
TSxx JC	Thermostat kit with 3 port junction box

Not all options can be combined

Ordering Example: SL VARITHERM **C**PA T3 120 **AM**



## SL VARITHERM CPA ...

## Electric heater

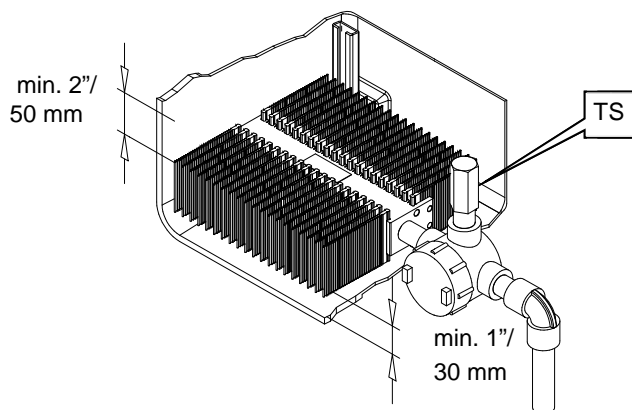


### 8 Installation

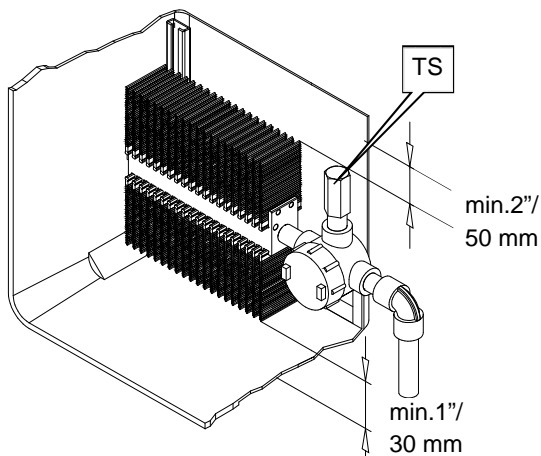
Trouble-free installation, e.g. on a mounting plate or the INTERTEC mounting system (C-rails) in the instrument enclosures or protective cabinets, is possible. During installation, attention should be paid to the following:

- Follow the installation and operating instructions supplied with the VARITHERM heater.
- The fins must be positioned vertically
- Please note minimum clearances to the enclosure, as per 8.1 and 8.2
- The label must be clearly legible

#### 8.1. Horizontal Installation

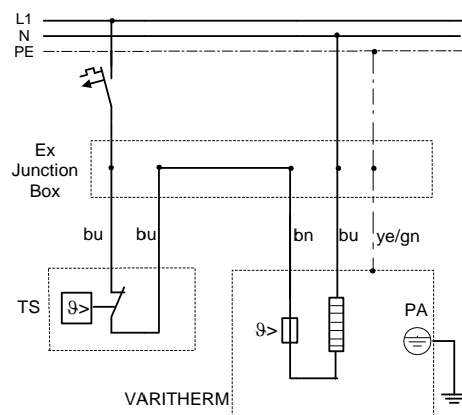


#### 8.2. Vertical Installation



The brackets in zinc coated steel and fixing bolts illustrated above are included with the heater.

### 9 Electric Wiring Option TS thermostat



bu=blue bn=brown ye/gn=yellow/green bk=black gy=grey