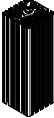

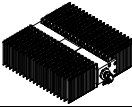



Guidelines for the Use of INTERTEC Heaters

3 For Freeze Protection or Temperature Control

3.1 Freeze protection to +20°C

For these applications use the standard convection heaters with TS thermostats

Type		preferred application
MULTITHERM		Vertical next to the transmitter
MINITHERM		Horizontal under the transmitter
VARITHERM		Horizontal under the transmitter
MICROTHERM		Vertical if there is no room for MULTITHERM

Calculation of power according to the data sheet Heater Selection for INTERTEC Enclosures

3.2 Temperature Maintenance +20 to +40 °C

For this application use TS20 , TS30 or TS 40 thermostats
For IEC / ATEX etc. applications there are also more options:

TAE External Thermostat

TC Electronic Temperature Controller

3.3. Temperature Control over +40 °C

For this application we do recommend

SMART HEATER

Regarding to 3.2 and 3.3.

The higher the control temperature the more accurate the temperature control must be as the maintain temperature approaches the T rated temperature.

FOR THESE APPLICATIONS PLEASE CONTACT THE FACTORY.

In many applications a combination of conduction and convection heaters can be used to meet desired temperatures:

(For example: [Cabinet to maintain +120°C with EXP heater](#))

4 Temperature Control

Controlling temperatures has different goals:

- Energy savings
- Constant surrounding air temperature control for accurate instrument measurement
- Plant safety considerations

4.1 TS External Thermostat.

If attached to heater with the junction box and nipples provided, will give control to +/- 7 degs. F

Temperature set points available:

+20, +30, and +40 °C

4.2 XT Temperature Controller

The filled system controllers have several different models to choose from and several unique features:

- Approvals for all classifications
- Remote or local temperature sensing
- Ratings to 600v, S.P.S.T. and D.P.S.T.
- Multiple conduit entries
- Externally adjustable with a tamper-proof feature
- Two temperature ranges, dual scale, F + C
- Includes connection box

4.3 SMART HEATER

These heaters are specifically designed for high temperature maintenance. They are controlled with an integrated digital electronic controller and switch that

- controls enclosure temperature
- keeps the temperature below T rating
- controls the operation