

Bruest Catalytic Heaters EQUIPMENT ENCLOSURES

Equipment Enclosures (Bruest Heater Enclosures)

- Enclosures provide spot heating for valves, instruments and regulators that require heat to function in cold weather.
- Enclosures are made of 304 stainless steel.
- Two-piece construction facilitates field installation.
- Enclosures protect the heaters from wind, rain and snow.

Applications

Standard designs are available to fit a wide selection of equipment manufactured by the following companies:

CHOKES

Best
Merla
OCT
Willis
K-F

REGULATORS

American
Fisher
Grove
Kimray
Equimeter
Sprague
Mooney

METERS

American
Equimeter
Roots
Sprague

ORIFICE FITTINGS

Daniel
Peco

DUMP VALVES

Fisher
Kimray
Merla
Norriseal

LEVEL CONTROLLERS

Fisher
Norriseal



Enclosure - Fisher 630

Custom designs have also been produced for a variety of special applications. Contact us for more information.

Heater Sizing Formula:

Heat Input

$$*Q = M C_p \Delta T$$

Q = Heat input required, in BTU/HR

M = Gas Flow rate in LBS/HR

LBS/HR = (0.0764) (Specific Gravity) (SCFH)

C_p = Specific heat of Gas, BTU/LB/F.

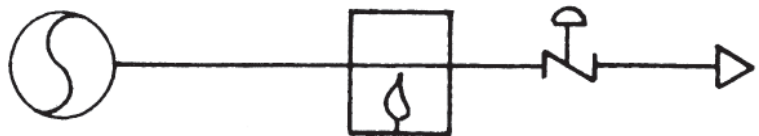
= 0.55 (adjusted for typical natural gas)

ΔT = Temperature drop due to Regulation, in °F

= 1°F/15 PSI of pressure drop.

Heat Input

$$Q = M C_p \Delta T$$



* Typically a design factor of 1.3 will be applied to the calculated Q to arrive at final heat input required.

General Information

- Most enclosure applications involving 1" piping require two model SR-8 heaters.
- Most larger enclosure applications involving 2" piping require two model SR-12 heaters.
- Applications on 6" and larger valves/equipment generally require two S12-24 heaters.
- Fuel gas manifolds for pressure and temperature regulation are optional. Consult factory.

