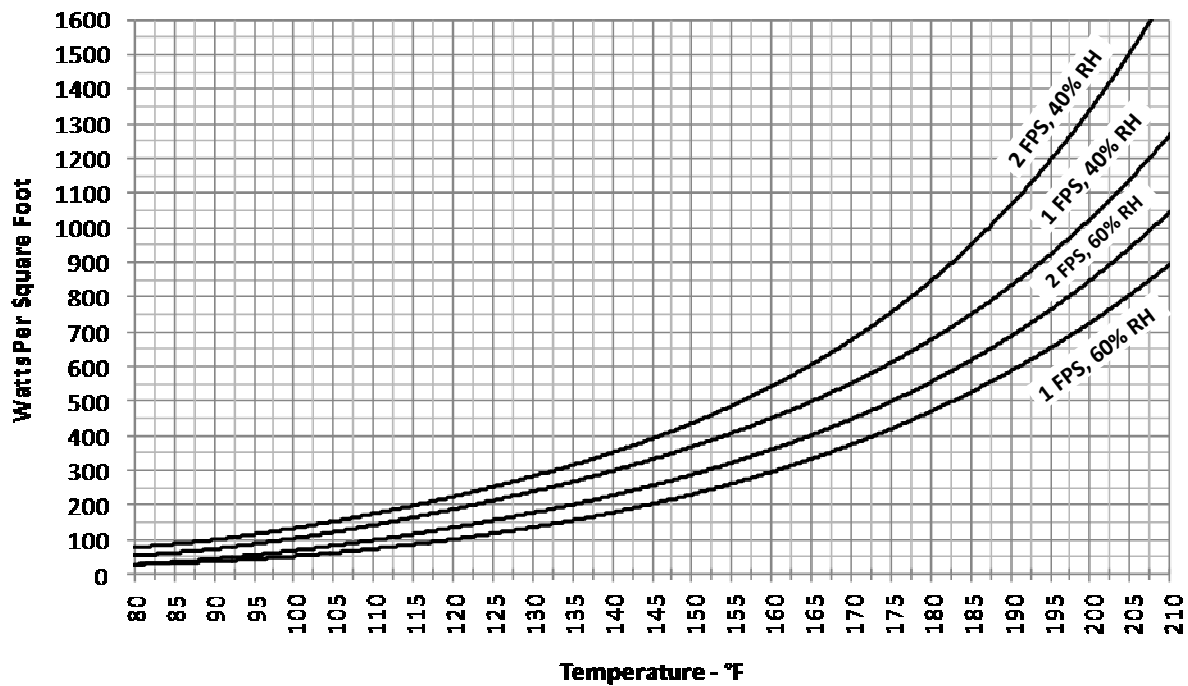
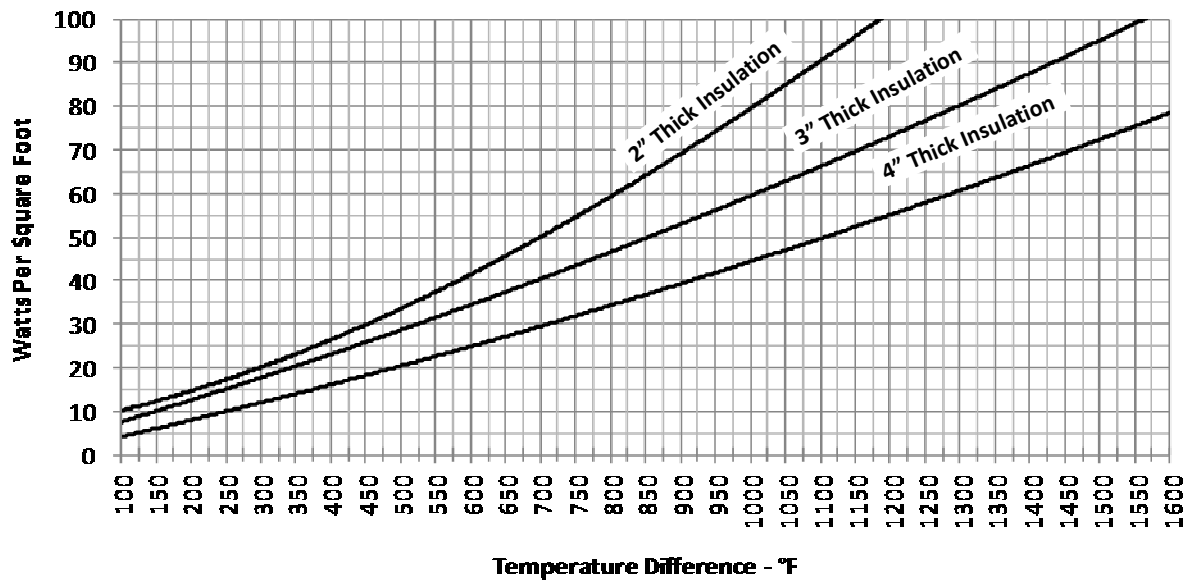


HEAT LOSS CURVES

Heat losses from Water Surface

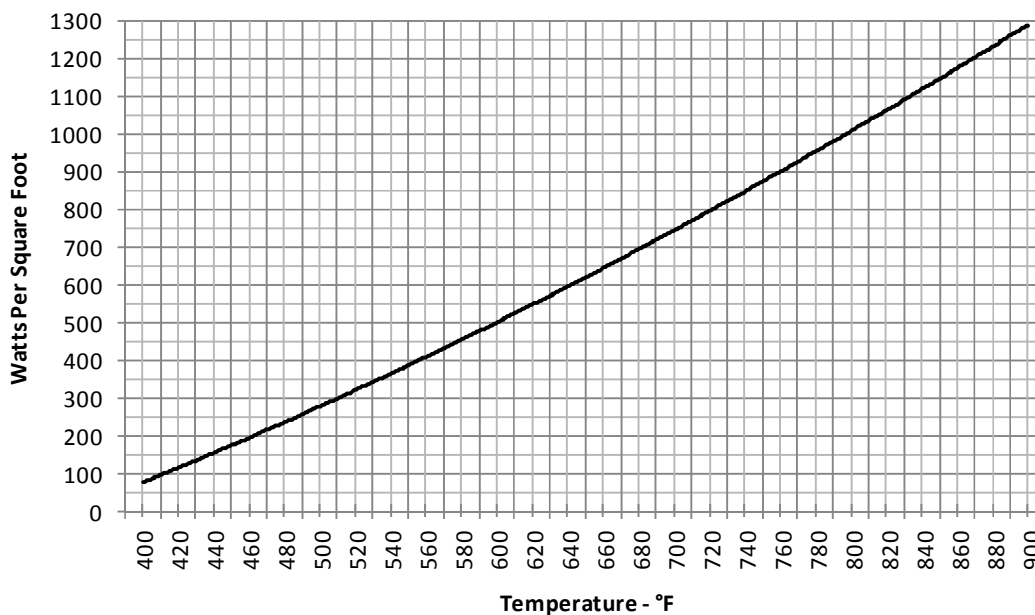


Heat losses from Insulated Walls

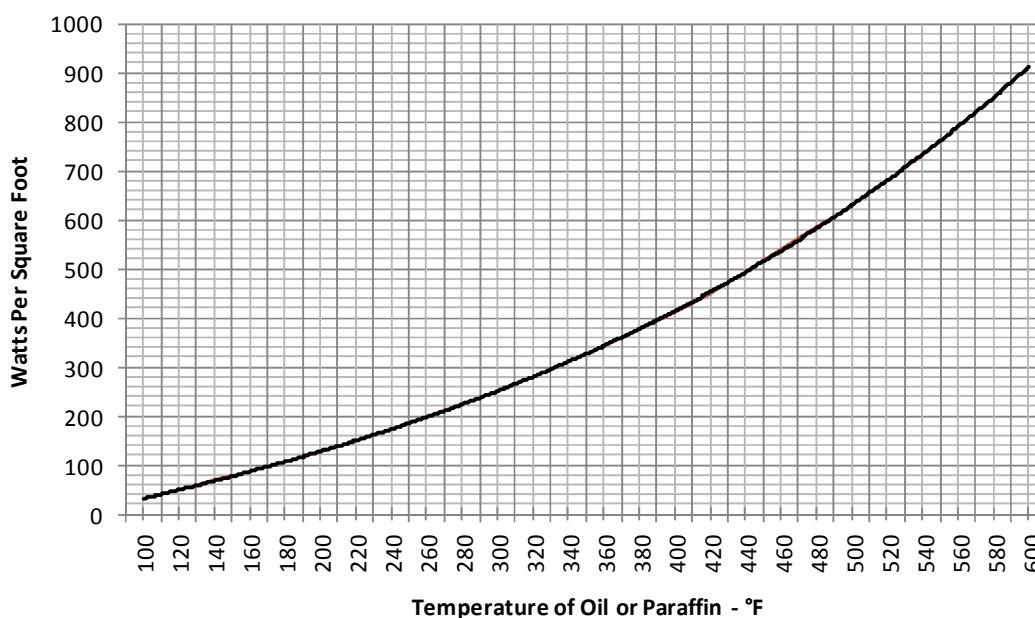


HEAT LOSS CURVES

Heat losses from Molten Metal Surface

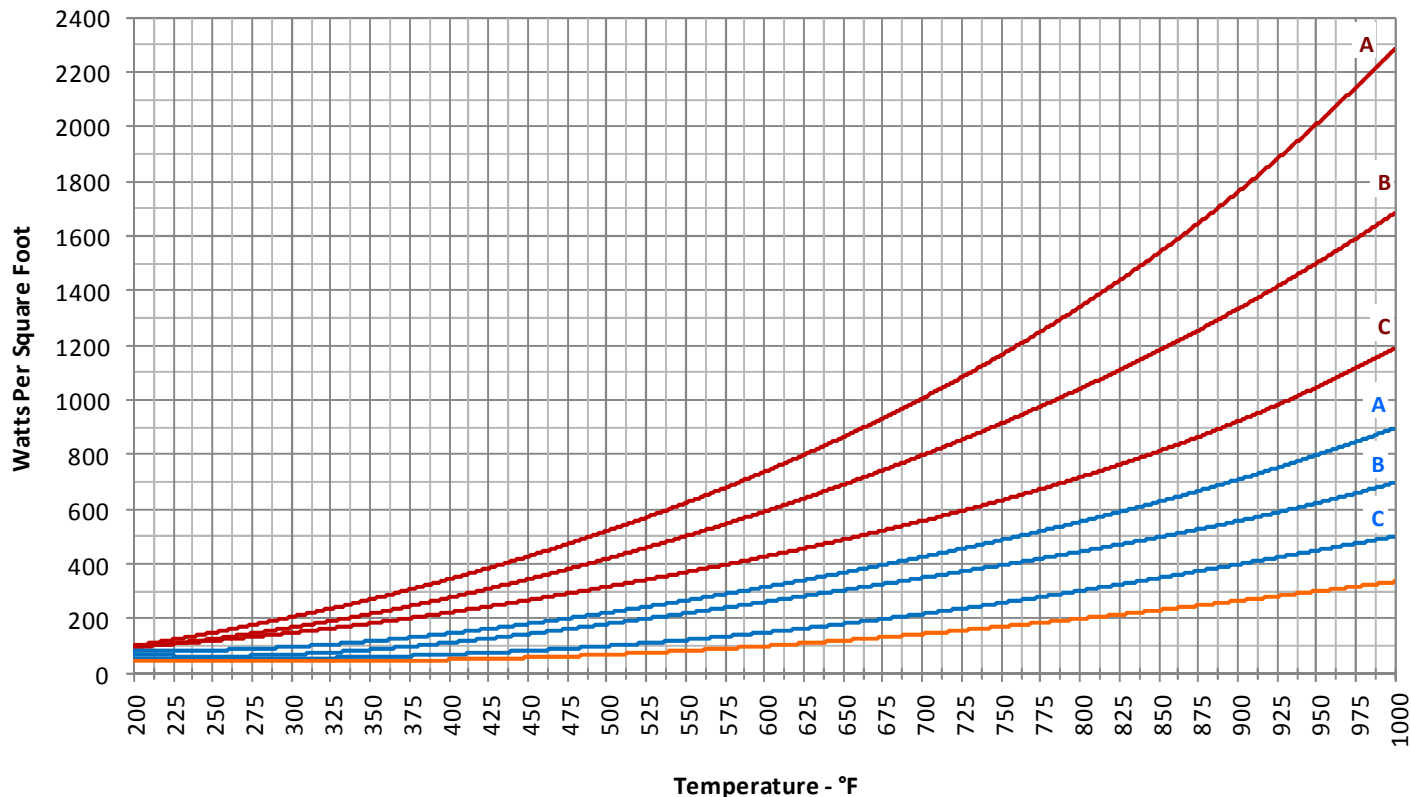


Heat losses from Oil or Paraffin Surfaces



HEAT LOSS CURVES

Heat losses from Uninsulated Metal Surfaces



Oxidized Steel — Oxidized Aluminum — Semi-Dull Copper

A : Heat loss from vertical surfaces and top surface loss of horizontal surface

B : Average heat loss from top and bottom of horizontal surface

C : Heat loss from bottom of horizontal surface

WATT DENSITY CALCULATIONS

BAND HEATERS

Wattage

(Diameter x 3.1416 x Width) - (Cold Area)

MICA STRIP HEATERS

Wattage

Heated Length x Width

CARTRIDGE AND TUBULAR HEATERS

Wattage

Diameter x 3.1416 x Heated Length