



HEAT LOSS FACTORS AND GRAPHS

Heat Losses at 70°F Ambient

How to use the graph for more accurate calculations

Convection curve correction factors:

For losses from top surfaces or from horizontal pipes:
Multiply convection curve value by 1.29

For side surfaces and vertical pipes:
Use convection curve directly

For bottom Multiply surfaces:
Multiply convection curve value by 0.63

Radiation Curve Correction Factors

The radiation curve shows losses from a perfect blackbody and are not dependent upon position. Commonly used block materials lose less heat by radiation than a blackbody, so correction factors are applied. These corrections are the emissivity (e) values listed to the right:

Total Heat Losses =

Radiation losses
(curve value times e)
+ Convection losses (top)
+ Convection losses (sides)
+ Convection losses (bottom)
= Conduction losses
(where applicable)

