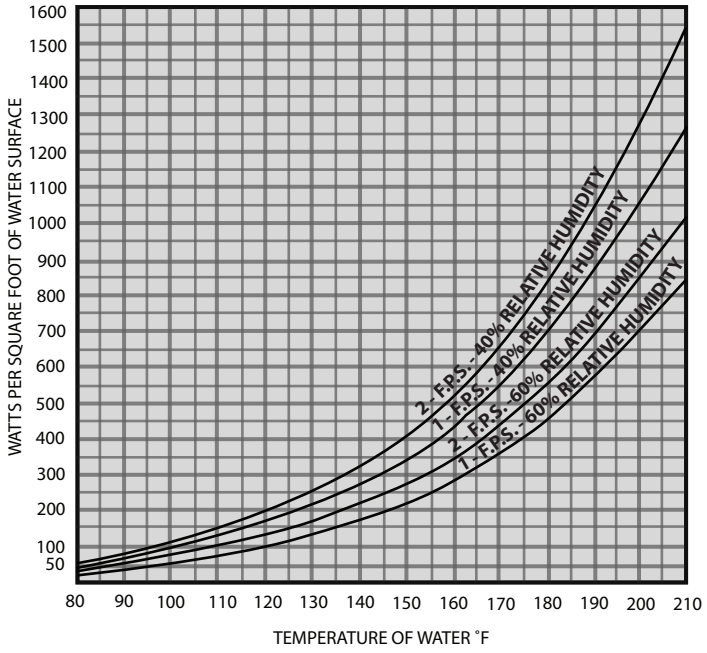
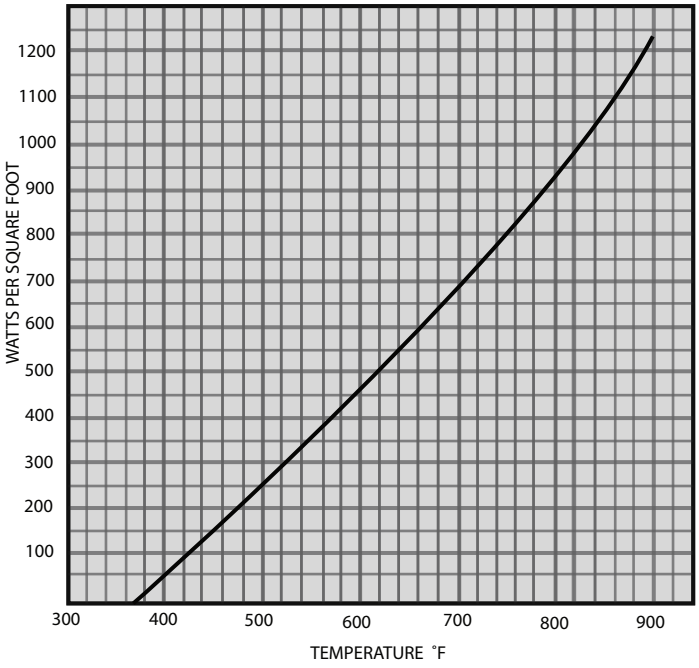
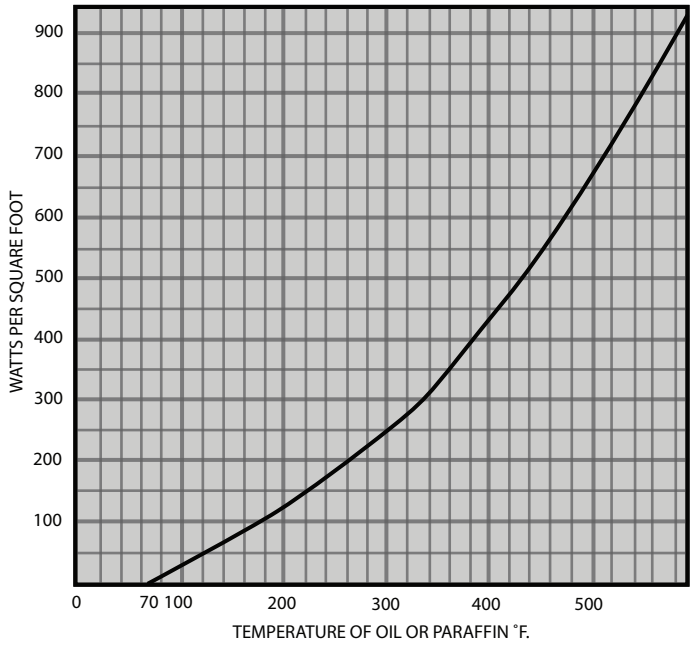
HEAT LOSS INFORMATION



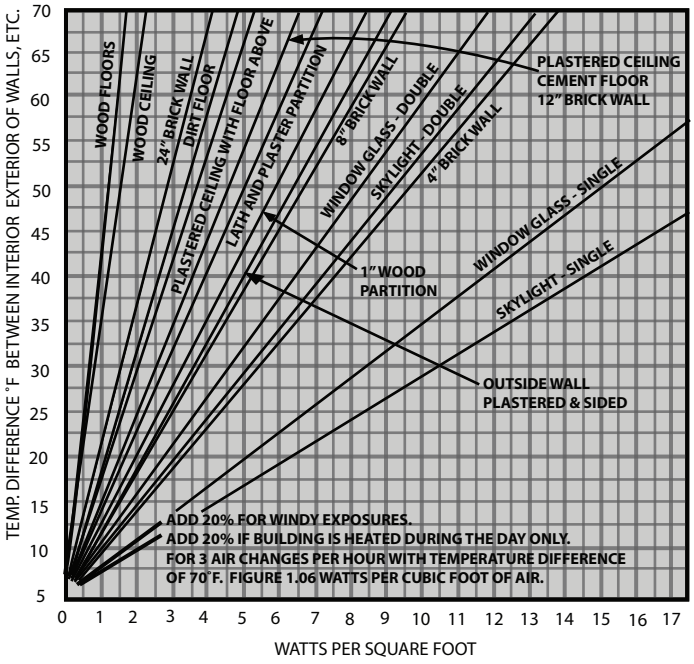
HEAT LOSSES FROM WATER SURFACE



HEAT LOSSES FROM MOLTEN METAL SURFACES
(LEAD, BABBITT, TYPE METAL, TIN, ETC.)



HEAT LOSSES FROM OIL AND PARAFFIN SURFACES



HEAT LOSSES THROUGH WALLS, ETC.

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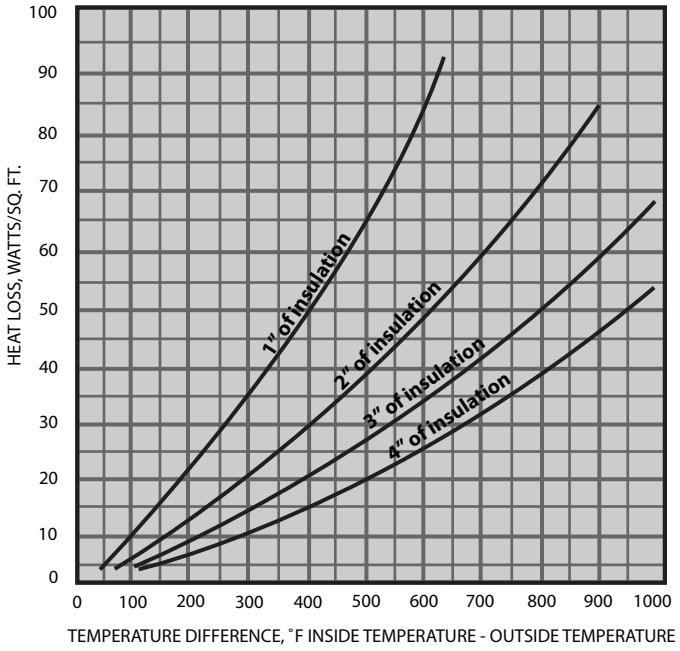
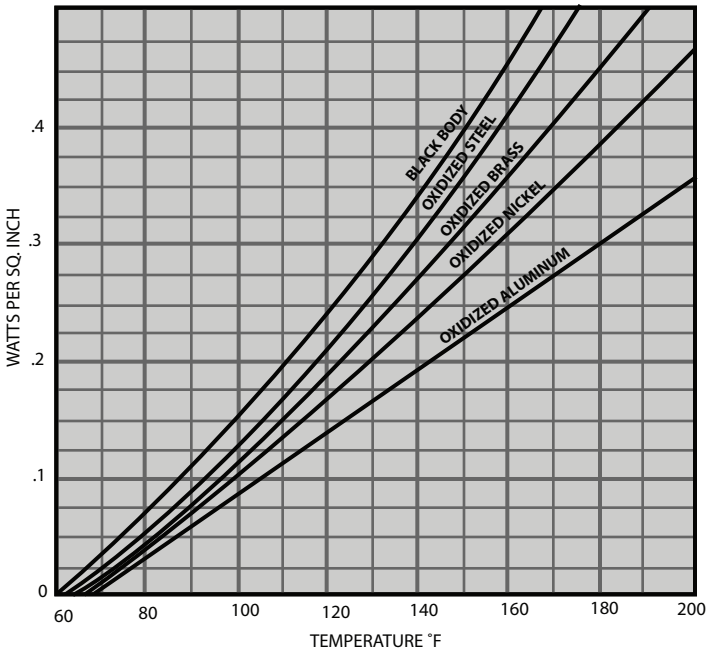
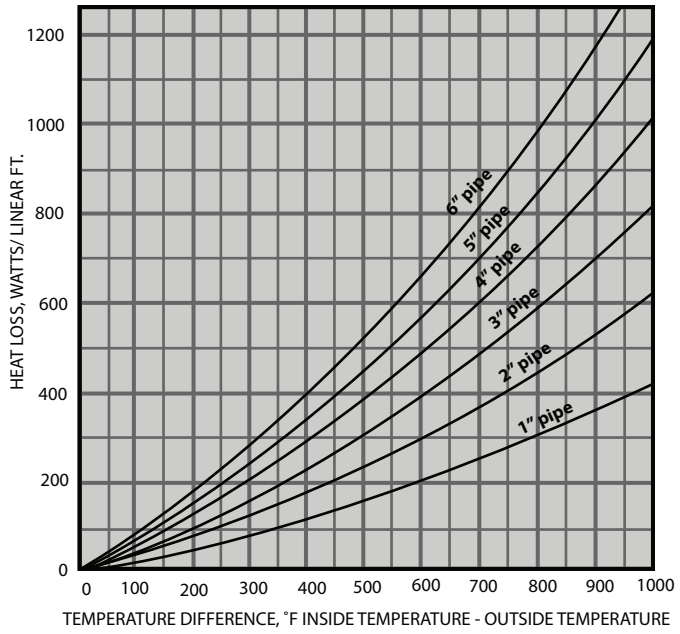
HEAT LOSS INFORMATION



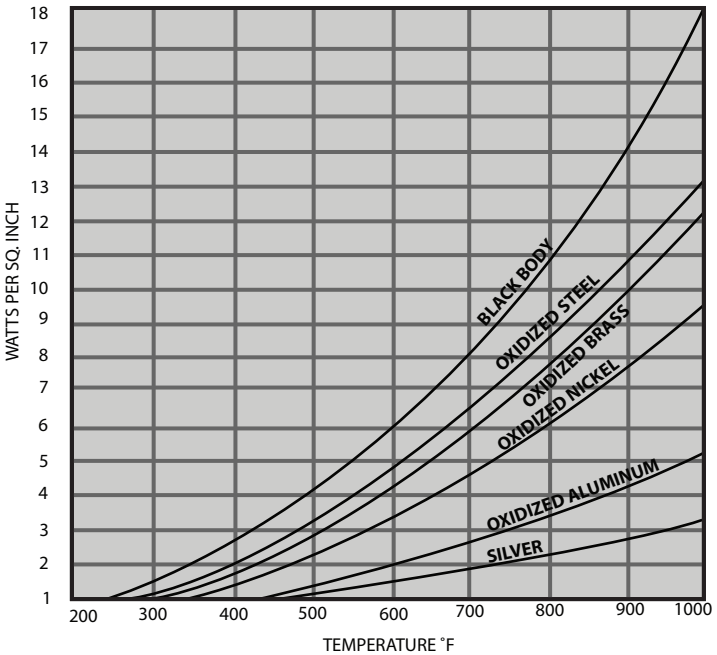
HEAT LOSSES FROM INSULATED WALLS
Curves are for standard high-grade material, such as 85% magnesia, Rockwood, etc.



HEAT LOSSES FROM UNINSULATED SMOOTH SOLID SURFACES
Assumed external ambient temperarture of 70˚F.
Temperaures from 60˚ to 200˚F.

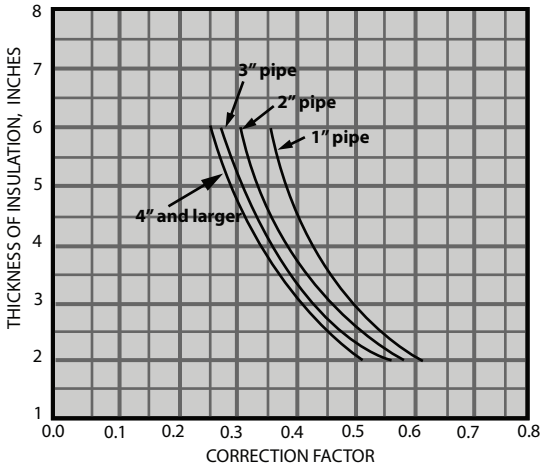


HEAT LOSSES FROM INSULATED PIPE LINES
Curves are for pipe lines covered with 1 inch of standard high-grade insulation.

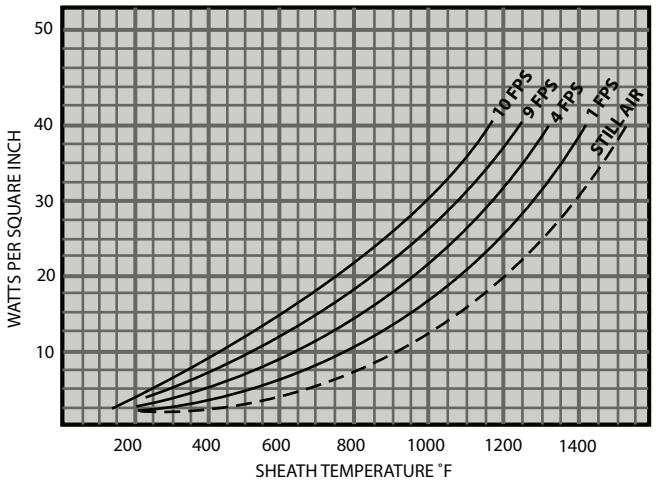


HEAT LOSSES FROM UNINSULATED SMOOTH SOLID SURFACES
Assumed external ambient temperature of 70˚F.
Temperatures from 200˚ to 1000˚F.

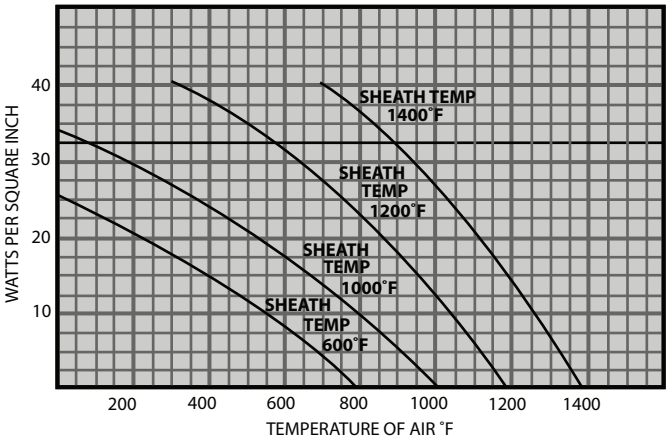
HEAT LOSS INFORMATION



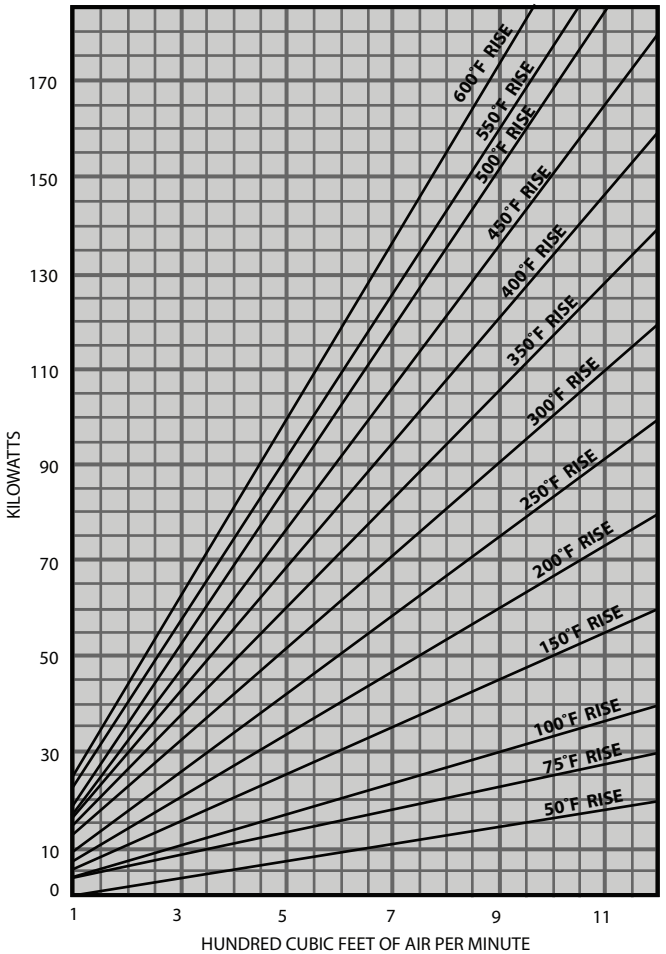
CORRECTION FACTORS FOR INSULATED PIPELINE HEAT LOSSES
where more than 1 inch of insulation is applied to pipe lines, obtain the heat loss from HEAT LOSSES FROM INSULATED PIPE LINES and multiply by the appropriate factor from the above curves to determine the proper heat loss.



SHEATH TEMPERATURE OF TUBULAR UNITS
at various watt densities in free or forced air at 80˚F



ALLOWABLE WATT DENSITY ON TUBULAR UNITS OPERATING AT 800˚F TO 1400˚F
Sheath temperature for various temperatures in distributed air velocity of 16 fps



HEAT REQUIREMENTS FOR AIR (.08 LBS./CU. FT
weight and specific heat .237 Btu/Lbs./˚F

NOTE:

Varying circumstances can effect the accuracy of any figures obtained from these charts. They should be used as a guide only in determining requirements for electrical heating elements.

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