

CONVERSION FACTORS

1 Btu	= Heat or Cool 1 # H ₂ O 1° F	1 pound	= 7,000 grains
1 # steam	1,000 Btu	1" Mercury (Hg)	= 1.133 ft H ₂ O = 13.4" H ₂ O
1 boiler HP	= 33,475 Btu/hr 34 #/hr steam	1Psi	= 2.31 ft H ₂ O = 27.72" H ₂ O
1 ft² radiation	= 240 Btu/hr	1 Atmosphere	= 29.92" Hg = 14.7 psi = 34 ft H ₂ O
8.345 # steam	= 1 gal cond		
500 #/hr steam	= 1 GPM cond		
1 ft³ natural gas	1,000 Btu	1 acre	= 43,560 ft ²
1 gal #2 oil	139,000 Btu	1 ft³/sec	= 447 GPM
1 gal propane	91,600 Btu	1 ft³ of water	= 62.4 # = 7.45 gal
1 therm	= 100,000 Btu 100 ft ³ nat gas 0.72 gal #2 oil	1 gal of water	= 8.34 #
		Latent Heat	970 Btu/#
1 hp electric	= 0.75 kW/eff	Fusion Heat	144 Btu/#
1 kW electric	= 3,412 Btu/hr	1 ton refrigeration	= 12,000 Btu/hr
1 inch	= 25.4 millimeters	1 boiler horsepower	= 33,476 Btu/hr
1 Psi	= 6.895 kilopascal	1 Btu	= 1,055 joule
1 ft³	= 28.32 liters	1 #	= .4536 kg