

SYNCHRONOUS SPEED BY NUMBER OF POLES

POLES	60 CYCLES	50 CYCLES
2	3600	3000
4	1800	1500
6	1200	1000
8	900	750
10	720	600

CONVERSIONS - SOLID OR CUBIC MEASURE

1728 cubic inches = 1 cu. ft.
27 cu. ft = 1 cu. yd

28 cu. ft = 1 cord
24-3/4 cu ft. = 1 perch.

Liquid Volume

1 US gallon = 3.785 liters
1 US quart = .9463 liters
1 liter = .2642 US gallons

1 liter = 1.057 US quarts
1 US barrel = 42 US gallons

Power

1 horsepower = 746 watts
1 horsepower = .746 kilowatts
1 horsepower = 550 ft-lbs/sec
1 horsepower = 33000 ft-lbs/min
1 horsepower hr. = 2545 Btu
1 kilowatt hr. = 3412 Btu

1 watt = 3.413 Btu/hr
1 Btu/hour = .293 watts
1 Btu = 252 gram-calories
1 Btu = 778.3 ft-lbs
1 kilowatt = 1.341 horsepower
1 Therm = 100,000 Btu

Liquid Pressures

(inches and feet of water are measured at 62°F (16.7°C)
and inches and millimeters of mercury at 32°F (0°C))

1 atmosphere = 14.7 pounds per square inch absolute (psia)

1 atmosphere = 760 mm (29.92 in.) mercury with density of 13.6 grams per cubic centimeter

1 pound per square inch = 2.04 inches head of mercury

1 pound per square inch = 2.31 feet head of water

1 inch head of water = 5.20 pounds per square foot

1 foot head of water = 0.433 pound per square inch

1 Btu = heat required to raise the temp of 1 pound of water by 1°F

1 ton of refrigeration = 12,000 Btu per hr

1 standard cubic foot is at standard conditions of 60°F and 14.7 psia