

Indiana Line Card

PRODUCTS & SYSTEMS SOLUTIONS



Affiliated Products

ArctiChill

Modular Chillers / Magnetic Bearing Chillers

www.arcticchillergroup.com

Calmac

Thermal Battery Storage Systems

www.calmac.com

ClimaCool

Modular Chiller Systems

www.climacool.com

Energy Labs

Custom HVAC Units

www.energylabs.com

enVerid

HEPA Air Purifier

www.enverid.com

Genesis Air

Photo Catalytic Oxidation (PCO) IAQ Solutions

www.genesisair.com

KCC

DX DOAS Air Handlers

www.kcccompanies.com

MicroMetl

Adaptor Curbs, ERVs, Custom Sheetmetal and Accessories

www.micrometl.com

MJC Air Rotation

Air Rotation Units, WC Modular Self Contained Units, Specialty Coatings

www.mjcinc.com/products

YOUR SINGLE SOURCE SOLUTIONS PROVIDER

Trane Indiana

8100 E 106th St
Fishers, IN 46038

6602 Innovation Boulevard
Fort Wayne, IN 46818

3725 Cleveland Road, Suite 300
South Bend, IN 46628

Trane.com

Contact Us

317-255-8777

Office Hours

Monday - Friday
7:00 AM - 4:00 PM

Affiliated Products (Continued)

Morganizer

Dehumidification System
www.morganizer.com

PoolPak

Pool Units
www.poolpak.com

Temspec

Classroom Units
www.temspec.com

Napps

Compact Scroll Chillers
www.nappstech.com

Synexis

DHP Virus & Bacteria IAQ Solutions
www.synexis.com

Thybar

Curbs, Custom Accessories
www.thybar.com

Nimbus

Adiabatic Coolers
www.nimbus.cool

Systecon

Packaged Pumping Systems / Chiller Plants
www.systecon.com

Formulas

$$\text{Sensible Load (Btu/hr)} = 1.08 \times \text{cfm} \times \Delta T(\text{db})$$

(1.08 = Density x Specific Heat x 60 min/hr)

$$\text{Latent Load (Btu/hr)} = 0.68 \times \text{cfm} \times \Delta \text{ gr/lb(da)}$$

(0.68 = Density x Latent Heat of Vaporization
 x 60 (min/hr) / 7000 gr/lbw)

Total Refrigeration Load

$$\text{(Tons)} = \frac{4.5 \times \text{cfm} \times \Delta r \text{ (btu/lb(da))}}{12,000}$$

(4.5 = Density x 60 min/hr)

$$\text{Coil Load (Btu/hr)} = 500 \times \text{gpm} \times \Delta T$$

(500 = Specific Heat x Density x 60 min/hr)

$$\text{Pump Head (ft)} = \frac{2.31 \times \text{Pressure Drop (psi)}}{\text{Specific Gravity of fluid}}$$

$$\text{Pump Power (hp)} = \frac{\text{gpm} \times \text{Head (ft)} \times \text{S.G. of fluid}}{3960 \times \text{Efficiency}}$$

$$\text{Fan Power (hp)} = \frac{\text{cfm} \times \text{Static Pressure (in w.g.)}}{6356 \times \text{Efficiency}}$$

Conversions

1 Therm = 100,000 Btu = 100 cu ft of Natural Gas

1,000,000 Btu = 1,000 MBtu = 1 MMBtu

1 MCF = 10 CCF = 1,000 cu ft = 1,000,000 Btu

1 Ton = 12,000 Btu/hr

1 Therm = 29.3 kWh

1 kW = 3,413 Btu/hr = 3.413 MBh = 1,000 W

1 lb of steam = 1000 Btu

1 kWh = 3,413 Btu

1 Gallon of Fuel Oil #2 = 140,000 Btu

1 HP = 0.746 kW = 2,544 Btu/hr

7000 grains = 1lb mass water

1 lb of water vapor = 1076 Btu (latent heat of water vapor)

1 psi = 2.31 ft H₂O = 27.72 in. H₂O = 2.04 in Hg



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit trane.com or tranetechnologies.com.