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~~How to Calculate HVAC System BTU~~
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Cheat Sheet

SENSIBLE HEAT FORMULA

(Furnaces): BTU/hr. – Specific Heat X

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Specific Density X 60 min./hr. = X CFM
X T .24 X .075 X 60 X CFM X T =
1.08 X CFM X T. ENTHALPHY =
Sensible heat and Latent heat . TOTAL
HEAT FORMULA (for cooling,
humidifying or dehumidifying) BTU/hr. =
Specific Density X 60 min./hr. X CFM X
H = 0.75 x 60 x CFM x H

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HVACR FORMULAS

Cheat Sheet / Formulas / Calculations.

REMEMBER - check for flame interference when the fan comes on - interference is an indication of a cracked heat exchanger. Fuse - 1.25 times total amperage of all the furnace components

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and should be rated for time delay or slow burn. HVAC Cheat Sheet - Google Sites:
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HVACR FORMULAS TON OF REFRIGERATION - The amount of heat required to melt a ton (2000 lbs) of ice at 32 ° F 288,000 BTU/24 hr 12,000 BTU/hr APPROXIMATELY 2 inches Hg (mercury) = 1 psi WORK = Force (energy exerted) X Distance Example: A 150 lb man climbs a flight of stairs 100 ft

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high

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Note: CO₂% is calculated based on the O₂% utilizing the following formula. $(20.9 - \%O_2) \times \text{Max CO}_2 \text{ produced by fuel} / 20.9$. Nat Gas Max CO₂ = 11.9. LP Gas Max CO₂ = 13.9. Draft Measurements...

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HVAC Cheat Sheet - HVAC TRAINING

Useful HVAC Formulas For conditions

other than standard air: Total Heat

$$(\text{BTU/hr}) = 4.5 \times \text{cfm} \times \Delta h \text{ (std. air)}$$

$$\text{Sensible Heat (BTU/hr)} = 1.1 \times \text{cfm} \times \Delta t$$

$$\text{(std. air) Latent Heat (BTU/hr)} = 0.69 \times$$

$$\text{cfm} \times \Delta \text{gr. (std. air) Other Formulas.}$$

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Total Heat (BTU/hr) = 500 x gpm x Δt
(water) GPM cooler = (24 x TONS) / Δt
(water)

Your Guide to HVAC Formulas - HVAC
Training 101

Percent unbalance = (0.03636363636) x
100. Percent unbalance = 3.636363636%.

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Step Five – Square the unbalance percentage and multiply it by two to determine the percentage increase in winding temperature. This step allows your technician to determine the actual impact of this imbalance on the temperature of the motor.

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HVAC Formulas - Calculations for the
HVAC Industry in 2020

Useful HVAC Formulas. – BTU/hr =
3.413 x watts = HP x 2546 = Kg Cal x
3.97. – HP (air) = cfm x p (in.H 2
O)/6350 x Eff. – HP (water) = gpm x
p (ft.)/3960 x Eff. – Gal. = FT³ /7.48
= 3.785 Liters = 8.33 lb. (water) = 231 in.

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³ . – Therm = 100,000 BTU =
MJ/105.5. NOTE: Liter/sec is the proper
SI term for liquid flow.

Useful HVAC Formulas - REA HVAC
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Useful HVAC Formulas. For conditions other than standard air: Total Heat

$$(\text{BTU/hr}) = 4.5 \times \text{cfm} \times \Delta t \text{ (std. air)}$$

$$\text{Sensible Heat (BTU/hr)} = 1.1 \times \text{cfm} \times \Delta t$$

$$\text{(std. air) Latent Heat (BTU/hr)} = 0.69 \times$$

$$\text{cfm} \times \Delta \text{gr. (std. air) Other Formulas.}$$

$$\text{Total Heat (BTU/hr)} = 500 \times \text{gpm} \times \Delta t$$

$$\text{(water) GPM cooler} = (24 \times \text{TONS}) / \Delta t$$

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(water)

A Complete Guide To HVAC Formulas
Commonly Used HVAC Formulae and
Conversions
Air Side Q Total = CFM x (h
i - h f) x 4.5 Btuh
Q Sensible = CFM x (t
i - t f) x 1.085 Btuh
Q Latent = CFM x
(Gr i - Gr f) x .068 Btuh
Humidification

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= CFM x (Gr f - Gr i) / 1,555 lbs/hr

CFM = I/s x 2.12 Air Pressure Drop (in.

Commonly Used HVAC Formulae and
Conversions

Hvac Formula Cheat Sheet SENSIBLE
HEAT FORMULA (Furnaces): BTU/hr.

- Specific Heat X Specific Density X 60

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min./hr. = X CFM X T .24 X .075 X
60 X CFM X T = 1.08 X CFM X T.

ENTHALPHY = Sensible heat and
Latent heat . TOTAL HEAT FORMULA
(for cooling, humidifying or
dehumidifying) BTU/hr. = Specific
Density

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Total = CFM x (h i - h f) x 4.5 Btuh Q

Sensible = CFM x (t i - t f) x 1.085 Btuh

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Q Latent = CFM x (Gr i - Gr f) x.068

Btuh Humidification = CFM x (Gr f - Gr

i) / 1,555 lbs/hr CFM = l/s x 2.12 Air

Pressure Drop (in. Commonly Used

HVAC Formulae and Conversions Excel

Formulas and Functions For

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The HVAC cheat sheet you need. Your home ' s HVAC system is probably the most important piece of equipment in your

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home. But do you know how it works? Or even what it stands for? Use this cheat sheet to make sure that you understand the basics about how your home ' s heating, cooling and ventilation system works. ...

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catalog.drapp.com.ar • The measure of energy the HVAC system needs to add or remove from a space to provide the desired level of comfort – Btu/h • Not the . size. of the HVAC system – First piece of information needed – 12,000

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Btu/h = 1 Ton Cooling • Can be. highly
...

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pcibe-1.pledgecamp.com

PE Reference Guide (Mechanical HVAC
& Refrigeration) www.energy350.com

Revised 10/18/14 Properties of Water

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Latent Heat of Vaporization = 970 Btu/lb

1 lb = 7,000 grains density = 62.4 lb/ft³

1 gallon = 8.3 lb 31 ft = 7.48 gallons

Heat Exchanger Calculations where h Heat

Wheel Effectiveness Calculation S

Efficiency = $(T_2 - T_1) / (T_3 - T_1)$

PE Reference Guide (Mechanical HVAC)

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& Refrigeration)

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