

## Hvac Formula Cheat Sheet

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### Hvac Formula Cheat Sheet

SENSIBLE HEAT FORMULA (Furnaces):  $\text{BTU/hr.} = \text{Specific Heat} \times \text{Specific Density} \times 60 \text{ min./hr.} = X \text{ CFM} \times \Delta T .24 \times .075 \times 60 \times \text{CFM} \times \Delta T = 1.08 \times \text{CFM} \times \Delta T$ . ENTHALPHY = Sensible heat and Latent heat . TOTAL HEAT FORMULA (for cooling, humidifying or dehumidifying)  $\text{BTU/hr.} = \text{Specific Density} \times 60 \text{ min./hr.} \times \text{CFM} \times \Delta H = 0.75 \times 60 \times \text{CFM} \times \Delta H$

### HVACR FORMULAS

Percent unbalance =  $(0.03636363636) \times 100$ . Percent unbalance = 3.636363636%. 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.

### HVAC Formulas - Calculations for the HVAC Industry in 2020

Commonly Used HVAC Formulae and Conversions Air Side  $Q \text{ Total} = \text{CFM} \times (h_i - h_f) \times 4.5 \text{ Btuh}$   $Q \text{ Sensible} = \text{CFM} \times (t_i - t_f) \times 1.085 \text{ Btuh}$   $Q \text{ Latent} = \text{CFM} \times (Gr_i - Gr_f) \times .068 \text{ Btuh}$  Humidification =  $\text{CFM} \times (Gr_f - Gr_i) / 1,555 \text{ lbs/hr}$   $\text{CFM} = \text{l/s} \times 2.12$  Air Pressure Drop (in.

### Commonly Used HVAC Formulae and Conversions

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HVAC Cheat Sheet. Heating Worksheet Download. 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 and should be rated for time delay or slow burn.

### HVAC Cheat Sheet - HVAC TRAINING

Useful HVAC Formulas. -  $\text{BTU/hr} = 3.413 \times \text{watts} = \text{HP} \times 2546 = \text{Kg Cal} \times 3.97$ . -  $\text{HP (air)} = \text{cfm} \times \Delta p \text{ (in.H 2 O)}/6350 \times \text{Eff.}$  -  $\text{HP (water)} = \text{gpm} \times \Delta p$

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(ft.)<sup>3</sup>/3960 x Eff. - Gal. = FT<sup>3</sup>/7.48 = 3.785 Liters = 8.33 lb. (water) = 231 in. <sup>3</sup>. - Therm = 100,000 BTU = MJ/105.5. NOTE: Liter/sec is the proper SI term for liquid flow.

### Useful HVAC Formulas - REA HVAC

To determine the residential home or commercial building's heating and cooling loads, you'll need to incorporate many figures. The first is the structure's square footage. In our HVAC calculator square footage cheat sheet, we'll walk you through how to find the precise square footage of the space you're working with.

### Cheat Sheet: How to Calculate HVAC Square Footage

Useful HVAC Formulas. For conditions other than standard air: Total Heat (BTU/hr) = 4.5 x cfm x Δh (std. air) Sensible Heat (BTU/hr) = 1.1 x cfm x Δt (std. air) Latent Heat (BTU/hr) = 0.69 x cfm x Δgr. (std. air) Other Formulas. Total Heat (BTU/hr) = 500 x gpm x Δt (water) GPM cooler = (24 x TONS) / Δt (water)

### A Complete Guide To HVAC Formulas

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### Hvac Formula Cheat Sheet - [experience.sojourncellars.com](http://experience.sojourncellars.com)

Excel Formulas and Functions For Dummies Cheat Sheet By Ken Bluttman It's easy to use Excel for many of your day-to-day number-crunching tasks, like determining your business's average sale, computing classroom grades, or forecasting college expenses.

### Excel Formulas and Functions For Dummies Cheat Sheet

Hvac Formula Cheat Sheet- BTU/hr = 3.413 x watts = HP x 2546 = Kg Cal x 3.97. - HP (air) = cfm x Δp (in.H<sup>2</sup> O)/6350 x Eff. - HP (water) = gpm x Δp (ft.)/3960 x Eff. - Gal. = FT<sup>3</sup>/7.48 = 3.785 Liters = 8.33 lb. (water) = 231 in. <sup>3</sup>. - Therm = 100,000 BTU = MJ/105.5. NOTE: Liter/sec is the proper SI term for liquid flow. Useful HVAC Formulas - REA Page 11/25

### Hvac Formula Cheat Sheet - [builder2.hpd-collaborative.org](http://builder2.hpd-collaborative.org)

Where 13.33 is the specific volume of standard air (cu.ft./lb.) and .075 is the density (lbs./cu.ft.) 4.5 = 60 min./hr. 13.33 or 60 X .075. Required Airflow Entering Air Temperature (T1) (Mixed Air) CFMT T = NT V 60 min./hr. HT = CFMT x 4.5 x (h 1 - h2) = Btuh H = CFMT x 1.08 x (T 1 - T2) = Btuh HL = CFMT x .68 x (W 1 - W2) = Btuh T2 = T1 - = °F.D.B. Refer to Enthalpy Table and read W.B. temperature corresponding to enthalpy of leaving air (h 2) (see #17).

### Basic Air Conditioning Formulas Figure 5

PE Reference Guide (Mechanical HVAC & Refrigeration) [www.energy350.com](http://www.energy350.com) Revised 10/18/14 Properties of Water Latent Heat of Vaporization = 970 Btu/lb 1 lb = 7,000 grains density = 62.4 lb/ft<sup>3</sup> 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 & Refrigeration)

TOTAL HEAT FORMULA (for cooling, humidifying or dehumidifying) BTU/hr. = Specific Density X 60 min./hr. X CFM X Δ H = 0.75 x 60 x CFM x Δ H =

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$4.5 \times \text{CFM} \times \Delta H$  RELATIVE HUMIDITY= \_\_Moisture present\_\_ Moisture air can hold SPECIFIC HUMIDITY = grains of moisture per dry air 7000 GRAINS in 1 lb. of water

### **HVAC FORMULAS TON OF REFRIGERATION - The amount of heat ...**

Yes, some of the equations apply. It should also be helpful for your morning session exam. From my experience, the morning session problems that deal with HVAC & Refrigeration have been somewhat straight forward and sometimes are completed by simply using the correct equation.

### **Key Equations and Terms for HVAC & Refrigeration ...**

hvac formula cheat sheet SENSIBLE HEAT FORMULA (Furnaces):  $\text{BTU/hr.} = \text{Specific Heat} \times \text{Specific Density} \times 60 \text{ min./hr.} = \text{X CFM} \times \Delta T \times .24 \times .075 \times 60$   
 $60 \times \text{CFM} \times \Delta T = 1.08 \times \text{CFM} \times \Delta T$ . ENTHALPHY = Sensible heat and Latent heat .

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Costs for large improvements like appliances, HVAC equipment, roofing, etc. Capitalization Rate :  $\text{Cap Rate} = \text{NOI} \div \text{Purchase Price} = \text{Cap Rate}$  . A rate of return that reflects the investor's desired ROI. The cap rate may be determined in three ways:  $\text{NOI/Cap Rate} = \text{Value}$ ,  $\text{NOI/Value} = \text{Cap Rate}$ ,  $\text{Value} \times \text{Cap Rate} = \text{NOI}$  . Cash Accounting

### **CAM Financial Terms and Formulas Quick Reference Guide**

Excel formulas cheat sheet. If you want to become a master of Excel financial analysis and an expert on building financial models then you've come to the right place. We've built an Excel formulas cheat sheet of the most important formulas and functions required to become a spreadsheet power user.