

SENSIBLE HEAT FORMULA (Furnaces):

BTU/hr. - Specific Heat X Specific Density X 60 min./hr. =
X CFM X ΔT

$$.24 \times .075 \times 60 \times \text{CFM} \times \Delta T = \underline{1.08 \times \text{CFM} \times \Delta T}$$

ENTHALPHY = Sensible heat and Latent heat

TOTAL HEAT FORMULA

(for cooling, humidifying or dehumidifying)

$$\begin{aligned} \text{BTU/hr.} &= \text{Specific Density} \times 60 \text{ min./hr.} \times \text{CFM} \times \Delta H \\ &= 0.75 \times 60 \times \text{CFM} \times \Delta H \\ &= \underline{4.5 \times \text{CFM} \times \Delta H} \end{aligned}$$

$$\text{RELATIVE HUMIDITY} = \frac{\text{Moisture present}}{\text{Moisture air can hold}}$$

DEW POINT = when wet bulb equals dry bulb

TOTAL PRESSURE (Ductwork) = Static Pressure plus
Velocity Pressure

CFM = Area (sq. ft.) X Velocity (ft. min.)

HOW TO CALCULATE AREA

Rectangular Duct

$$A = \underline{L \times W}$$

Round Duct

$$A = \frac{\pi D^2}{4} \quad \text{OR} \quad \underline{\frac{\pi r^2}{4}}$$

RETURN AIR GRILLES - Net free area = about 75%

3 PHASE VOLTAGE UNBALANCE =

$$\frac{100 \times \text{maximum deg. from average volts}}{\text{Average Volts}}$$

NET OIL PRESSURE = Gross Oil Pressure - Suction Pressure

$$\text{COMPRESSION RATIO} = \frac{\text{Discharge Pressure Absolute}}{\text{Suction Pressure Absolute}}$$

HEAT PUMP AUXILIARY HEAT - sized at 100% of load

ARI HEAT PUMP RATING POINTS (SEER Ratings) 47° 17°

NON-BLEND REFRIGERANTS:

Constant Pressure = Constant Temperature during
Saturated Condition

BLEND - Rising Temperature during Saturated Condition

Hvac Formula Cheat Sheet

Yicheng Fang

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Hvac Formula Cheat Sheet:

Hvac Formula Cheat Sheet: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Hvac Formula Cheat Sheet : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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