

# IMPORTANT FORMULAS FOR HVAC ENGINEERS

## SENSIBLE COOLING LOAD

$$Q_s \text{ (Kw)} = 1.2 \times \dot{m}_{air} \text{ (m}^3\text{/s)} \times \Delta T \text{ (}^\circ\text{C)}$$

$$Q_s \text{ (Btu/hr)} = 1.075 \times \dot{m}_{air} \text{ (cfm)} \times \Delta T \text{ (}^\circ\text{F)}$$

## LATENT COOLING LOAD

$$Q_l \text{ (Kw)} = 2963.6 \times \dot{m}_{air} \text{ (m}^3\text{/s)} \times \Delta x \text{ (Kg/Kg)}$$

$$Q_l \text{ (Btu/hr)} = 4770 \times \dot{m}_{air} \text{ (cfm)} \times \Delta x \text{ (lb/lb)}$$

## TOTAL COOLING LOAD

$$Q_t \text{ (Kw)} = 1.2 \times \dot{m}_{air} \text{ (m}^3\text{/s)} \times \Delta H \text{ (Kj/Kg)}$$

$$Q_t \text{ (Btu/hr)} = 4.5 \times \dot{m}_{air} \text{ (cfm)} \times \Delta H \text{ (Btu/lb)}$$

$$Q_t = Q_s + Q_l$$

## SENSIBLE HEAT LOAD OF WALLS

$$Q_w \text{ (W)} = A \text{ (m}^2\text{)} \times U \text{ (W/m}^2\text{.}^\circ\text{K)} \times \Delta T \text{ (}^\circ\text{C)}$$

$$Q_w \text{ (Btu/hr)} = A \text{ (ft}^2\text{)} \times U \text{ (Btu/hr.ft}^2\text{.}^\circ\text{F)} \times \Delta T \text{ (}^\circ\text{F)}$$

## CHILLED WATER FLOW

$$\dot{m}_w \text{ (L/s)} = \frac{Q_t \text{ (Kw)}}{4.1855 \times \Delta T \text{ (}^\circ\text{C)}}$$

$$\dot{m}_w \text{ (GPM)} = \frac{Q_t \text{ (Ton)} \times 24}{\Delta T \text{ (}^\circ\text{F)}}$$

For  $\Delta T = 16 \text{ }^\circ\text{F} = 9 \text{ }^\circ\text{C}$

$$\dot{m}_w \text{ (GPM)} = Q_t \text{ (Ton)} \times 1.5$$

For  $\Delta T = 10 \text{ }^\circ\text{F} = 5.5 \text{ }^\circ\text{C}$

$$\dot{m}_w \text{ (GPM)} = Q_t \text{ (Ton)} \times 2.4$$

## EXHAUST AIR FLOW

$$\dot{m}_{air} \text{ (L/s)} = \frac{V \text{ (m}^3\text{)} \times \text{ACH} \text{ (/hr)}}{3.6}$$

$$\dot{m}_{air} \text{ (cfm)} = \frac{V \text{ (ft}^3\text{)} \times \text{ACH} \text{ (/hr)}}{60}$$

## DUCT SIZING

$$Q \text{ (m}^3\text{/s)} = A \text{ (m}^2\text{)} \times v \text{ (m/s)}$$

$$Q \text{ (cfm)} = A \text{ (ft}^2\text{)} \times v \text{ (fpm)}$$

Rectangular area :  $A = W \times H$

Circular area :  $A = 3.14 \times R^2$

## LOUVERS SIZING

$$Q \text{ (m}^3\text{/s)} = \text{F.A.} \times A \text{ (m}^2\text{)} \times v \text{ (m/s)}$$

$$Q \text{ (cfm)} = \text{F.A.} \times A \text{ (ft}^2\text{)} \times v \text{ (fpm)}$$

Recommended  $v_{max}$  for sand trap louvers :  $v_{max} = 1 \text{ m/s}$  or  $200 \text{ fpm}$

Recommended  $v_{max}$  for exhaust louvers :  $v_{max} = 2.5 \text{ m/s}$  or  $500 \text{ fpm}$

**Legend:**  $Q_s$ =Sensible cooling load ;  $Q_l$ =Latent cooling load ;  $Q_t$ =Total cooling load ;  $\dot{m}$ =Volumetric flow ;  $\Delta T$ =Temperature difference ;  $\Delta x$ =Humidity difference ;  $\Delta H$ =Enthalpy difference ;  $A$ =Area ;  $U$ =Thermal transmittance;  $v$ =Velocity ;  $W$ =Width ;  $H$ =Height ;  $R$ =Radius ;  $F.A.$ =Free area rate ;  $Q$ =Air volumetric flow ;  $V$ =Volume ;  $ACH$ =Air change per hour

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