

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 fpm

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

Legend: Q_s =Sensible cooling load ; Q_l =Latent cooling load ; Q_t =Total cooling load ; \dot{m} =Volumetric flow ; ΔT =Temperature difference ; Δx =Humidity difference ; ΔH =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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