

To calculate ρ_{air} use the following relation

$$\rho_{air} = \frac{1.01325 \times 10^5}{287 \times (273 + T_a)} \text{ in Kg/m}^3$$

3. Brake Horse Power (BHP) = $\frac{V \times I}{1000 \times \eta_g}$ in KW

Where,

V = Voltmeter reading

I = Ammeter reading

η_g = Efficiency of Generator = 0.75

4. Air - Fuel Ratio = $\frac{m_a}{m_f}$

5. Heat input Q = $m_f \times C V$ in kW

where m_f is the mass of fuel supplied in kg/s

C V is the calorific value of the fuel in kJ/kg

6. Specific fuel consumption (SFC) = $\frac{m_f \times 3600}{BP}$ in kg/kWhr

7. Volumetric efficiency $\eta_{vol} = \frac{\text{actual vol of air supplied } V_{act}}{\text{Theoretical air supply } V_{th}} \times 100$

Theoretical air supply V_{th} = Swept volume = $L \times A \times N$ in m^3/min

where $A = \pi D^2/4$ in m^2 L and D are the stroke and bore of the engine.

V_{act} = Actual Volume of air supplied in m^3/min

8. Brake thermal efficiency $\eta_{br} = \frac{BP}{\text{Heat input Q}} \times 100$

HEAT BALANCE SHEET:

Heat input	KW	in %	Heat Output	KW	in %
Heat supplied by the fuel			a) Heat equivalent to BP b) Heat carried by exhaust gases = $m_g \times C_{pg} (T_g - T_a)$ $m_g = m_a + m_f$ c) Heat unaccountable 1-(a+b)		
Total input			Total output		

Specific heat of air = $C_{pg} = 1.005 \text{ KJ/Kg}^\circ\text{C}$

m_a = Mass of air supplied in Kg/s

m_f = mass of fuel supplied in Kg/s

Energy Conversion Engineering Lab

Lei Shi



Energy Conversion Engineering Lab :

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