$$\frac{(V_0)}{(V_0)} = \frac{(H_0)}{(H_0)}^{0.15}$$

$$\frac{6.5}{V_0} = (\frac{10}{70})^{0.18}$$

$$\vdots V_0 = 9.226 \text{ m/s}$$

$$\frac{1}{7} = \frac{1}{2} (1.225) \cdot A \cdot (9.226^3)$$

$$\frac{1}{7} = 481.00 \text{ W/m}^2$$

$$P_R = SOOkW$$

$$D = 40 m$$

$$\bar{v} = 7.5 m/s$$

$$Armal Pout = ?$$

$$N = 0.31 = Po$$

$$P$$

$$\frac{\bar{p}}{A} = \frac{6}{41} \cdot \frac{1}{2} p v^3$$

$$= \frac{6}{413} \cdot \frac{1}{2} (1.225) (7.5)^3$$

$$= 493.505 W/m^2$$