$$= W \left(H^{2} P_{\text{atm}} + \frac{H^{3} P_{8}}{2} - \frac{P_{\text{atm}} H^{2} - P_{8} H^{3}}{2}\right)$$

$$T_{jet} = T_{\text{water}}$$

$$\Rightarrow U = \left(\frac{W}{PA} \left(\frac{W}{PA} + \frac{W}{2} - \frac{PamH}{2} - \frac{PaH^{2}}{2} \right) \right)$$

mistake: Parm acts on both sides. So we should I somere Parm from this expression

$$= \frac{H}{d} \sqrt{\frac{29W}{3\pi}}$$

$$U(N=1) = 29.1346 m$$

 $U(N=0.5) = 14.5673 m$
 $U(N=0.25) = 7.28365 m$

dn ~ 27.46 kgs-1