

$$bhp = \left(\frac{Flow \times Static}{6,356 \times Efficiency_{Fan}} \right)$$

Where:

Flow = Flow produced by the fan in cfm

Static = Static produced by the fan in inches water column

6,356 = A units conversion constant that will work for air

at the temperatures and pressures typically encountered

in HVAC systems for up to about 2,000 - 3,000 feet in altitude.

$Efficiency_{Fan}$ = Fan efficiency, read from the fan curve, equipment schedule or

estimated from past experience; .40 - .65 for small fans or

propeller or forward curved fans, .60 - .70 for plenum

fans, .70 - .80 for backward included or airfoil fans.