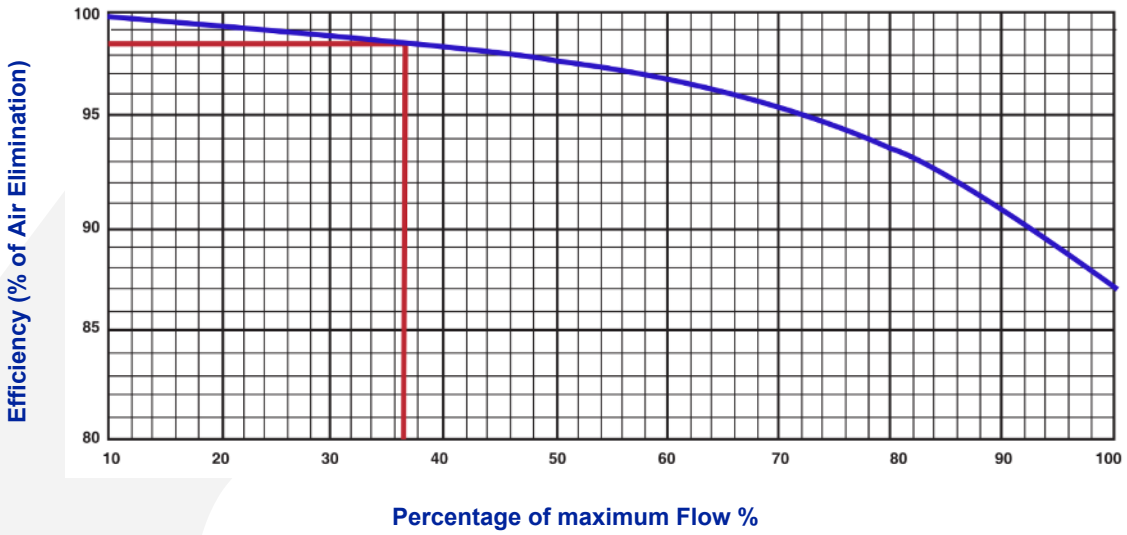
AMERICAN WHEATLEY

# Tangential Air Separators Determining Air Elimination Efficiency

1. Determine system flow rate in gallons per minute - GPM.
2. Determine the maximum GPM capacity of the air separator.
3. Formula:

$$\frac{\text{Step 1}}{\text{Step 2}} \times 100 = \%\text{ of maximum flow}$$

4. Draw a vertical line from the bottom x-axis on the Air Elimination Efficiency chart below to where it intersects the efficiency curve, follow to the left to determine the % of air Elimination per pass.




Example: System flow rate is 60 GMP Wheatley TASS-002 has a maximum flow rate of 165 GPM.

$$\frac{60\text{ GPM}}{165\text{ GPM}} \times 100 = 36.3\%\text{ of maximum flow} = 97\%\text{ air elimination per pass}$$

Applied to curve above determines that a TASS-002 at 60 GPM, or 36.3% of maximum flow, has an Air Elimination Efficiency of 97%, meaning that 97% of entrained air is removed per pass. .

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