

Cost of Ownership

The overall selection for specific applications should include the review of costs not only associated with the purchase, but also include the cost of installation, the cost of operation and the ease and cost of the maintenance. A key cost concern involves the utilities being used to operate the equipment. Electrical energy, replacement filters and compressed air are the main cost factors. Using media style air cleaners takes the cost of electrical consumption down and eliminates the use of compressed air. The filter service cycle can be greatly reduced by ensuring the air to cloth ratio is correct and the air velocity through the filters is low enough for them to function correctly. A cost comparison chart can be found on our website at www.industrial-maid.com. Enter the data fields and the program will offer a cost comparison for media style air cleaners, cartridge style air cleaners, ventilation fans and central systems (cartridge style).

Yearly Motor Electrical Cost Savings Formula

$$\text{Energy Cost} = \frac{\text{Cost Per kWh}}{\text{kWh}} \times \frac{0.746 \text{ kW}}{\text{HP}} \times \frac{\text{kWh per Year}}{\text{Year}} \times \frac{1}{0.9} = \frac{\text{Energy Cost}}{\text{Per HP Per Year}}$$