

AmericanAirFilter®

DynaPure®

Mist Collector

The American Air Filter DynaPure® is a unique self-contained filtration system for source capture of mist generated by wet machining, spraying, and lubrication systems. The DynaPure provides increased flexibility and lower maintenance than competitive designs.

Features

- Backward inclined aluminum fan – provides steep fan curve for optimum performance at minimum noise levels
- One-piece fan/drum assembly – simplifies liner replacement
- Prefilter and final filter options – ideal for difficult combinations of mist and sub- micron smoke. Can be factory-installed or retrofitted in the field
- Standard off-the-shelf motors – explosion-proof models available plus optional voltages, including 50 Hz
- Options – prefilter, final filter

Advantages

- Cleaning Efficiency – The DynaPure system captures mist down to submicron particle size. Filtered air may then be recirculated to the work area, eliminating the need for makeup air, reducing heating and cooling cost.
- Compact Size – The largest DynaPure is only 27⁵/₁₆"L x 20¹/₈"W x 23³/₈"H and weighs 145 pounds.
- Installation Simplified – The DynaPure collector can be easily installed on or adjacent to the machine generating the mist. The unit's simplicity and compactness makes "do-it-yourself" installation feasible for most customers.
- Quiet Operation – All models conform to OSHA noise standards.
- Ease of Maintenance – In the majority of cases, servicing of DynaPure units is confined to periodically changing the throwaway filter liner and cleaning the impeller.



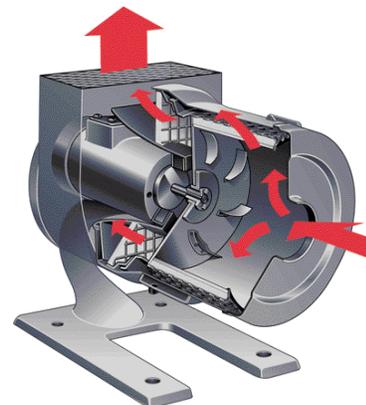
Applications

- Metalworking
Screw machines, bar machines, chuckers, gear hobs, grinders, cold forming machines, EDM machines, lathes and punch presses.
- Food Processing
Vegetable oil sprayers, bun extruders
- Original Equipment
Compressors, vacuum pumps, turbine drives, mist lubricators and transfer systems.

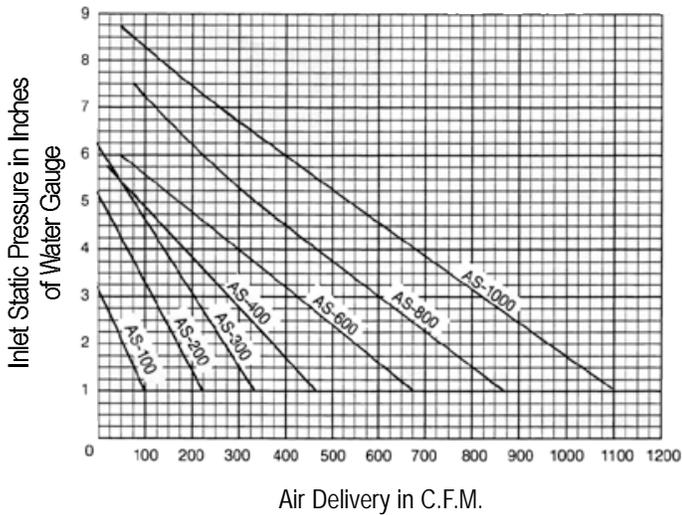
How the DynaPure® Operates

Mist-laden air is drawn into the DynaPure where a rotating drum collects and agglomerates the mist particles – even submicron particles – in its filtering element. Centrifugal force then drives these particles from the air stream.

The collected mist is drained from the DynaPure and may be returned directly to the machine or collected for disposal. Clean air is returned to the plant atmosphere through the built-in stack discharge.

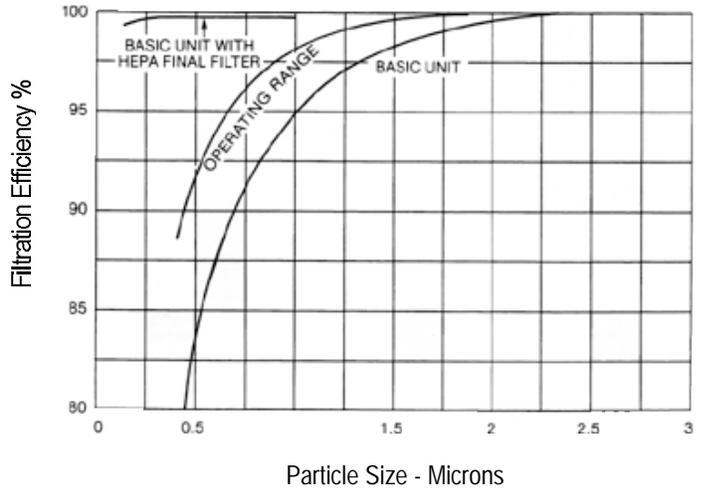


Performance Characteristics

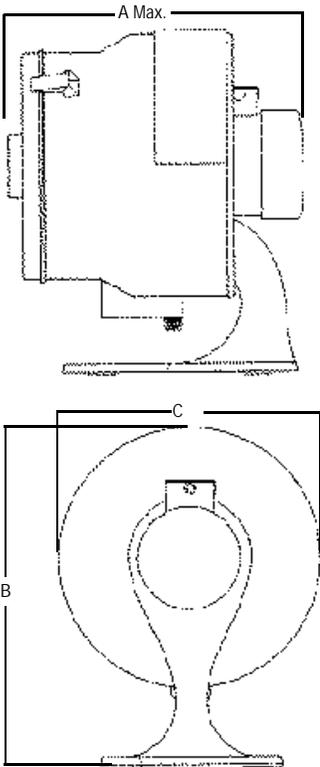


Efficiency Characteristics

Efficiency Curve



Dimensions



| Size | Weight Inc. Motor | A | B | C | H.P. |
|---------|-------------------|-------------------------------------|----------------------------------|------------------------------------|------|
| A-1 | 40 lbs. | 22 ⁷ / ₈ " | 11 ³ / ₄ " | 11 ³ / ₄ " | 1/3 |
| AS-100 | 49 lbs. | 21 ⁹ / ₁₆ " | 17" | 13 ¹⁹ / ₃₂ " | 1/3 |
| AS-200 | 49 lbs. | 21 ⁹ / ₁₆ " | 17" | 13 ¹⁹ / ₃₂ " | 1/3 |
| AS-300 | 51 lbs. | 21 ⁹ / ₁₆ " | 17" | 13 ¹⁹ / ₃₂ " | 3/4 |
| AS-400 | 75 lbs. | 21 ¹ / ₄ " | 21 ⁵ / ₈ " | 16 ⁵ / ₈ " | 3/4 |
| AS-600 | 75 lbs. | 21 ¹ / ₄ " | 21 ⁵ / ₈ " | 16 ⁵ / ₈ " | 3/4 |
| AS-800 | 120 lbs. | 2' 3 ⁵ / ₁₆ " | 23 ³ / ₈ " | 20 ¹ / ₈ " | 3 |
| AS-1000 | 125 lbs. | 2' 3 ⁵ / ₁₆ " | 23 ³ / ₈ " | 20 ¹ / ₈ " | 3 |

Note: Picture not representative of all sizes

Unit rated in an actual working condition with the filter element saturated with oil. Due to the centrifugal action, the collection media is continuously cleaned and there is no appreciable pressure drop, as in the case of static media type devices.