# DHM 0020 55F

## 19.1 scfm membrane air dryer

The nano M[1] membrane compressed air dryer provides clean dry air for a wide range of industrial applications. Designed for minimal pressure drop and the highest drying efficiency, the dryers contain thousands of hollow fibers with a unique inner coating. As the wet compressed air enters the dryer, the membrane coating causes water vapor to permeate and collect between the fibers, while the clean, dry air continues through the dryer to its application.

| general characteristics | |
|---|---|
| rated flow (scfm) (1) | 19.1 |
| purge air consumption (%) | 15 |
| pressure drop over dryer (psi) (2) | 2.5 |
| pressure suppression dew point (3) | 57.6 |
| **operating limits** | |
| design operating pressure range (psig) | 58 to 203 |
| design operating temperature range (°F) | 33.8 to 150.8 |
| minimum/maximum ambient temperature (°F) | 33.8 to 150.8 |
| maximum inlet temperature (°F) | 150.8 |
| **standard pre-filtration** | |
| prefilter part nos | NF 0050 M1/ NF 0050 M01 |
| **air circuit** | |
| air circuit connections (NPT) | ½" |

(1) rated flow capacity: compressed air dryer inlet: 101.5 psig and 95°F; ambient air temperature: 77°F: 100% RH. For all other conditions, contact support@n-psi.com
(2) pressure drop does not include inlet pre-filters
(3) with respect to pressure dew point at the inlet to the membrane dryer

# features

- 1 micron and 0.01 micron pre-filters with all interconnecting components included as standard
- flexible end cap configuration allows for horizontal or vertical installation
- multiple purge nozzles included for optimizing performance at higher pressures (101.5 installed / 145 / 188.8 psig)
- requires no electricity for operation
- broad operating range allows for operation in widely fluctuating temperatures
- suitable for use in systems with high vibration
- quiet operation allows for installation at point of use
- unique membrane coating increases the separation efficiency producing the lowest purge air loss

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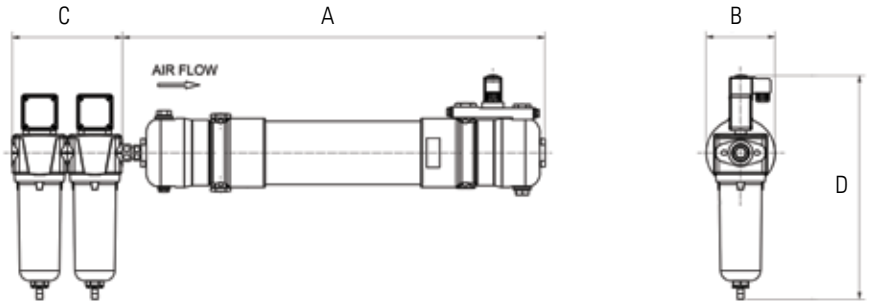
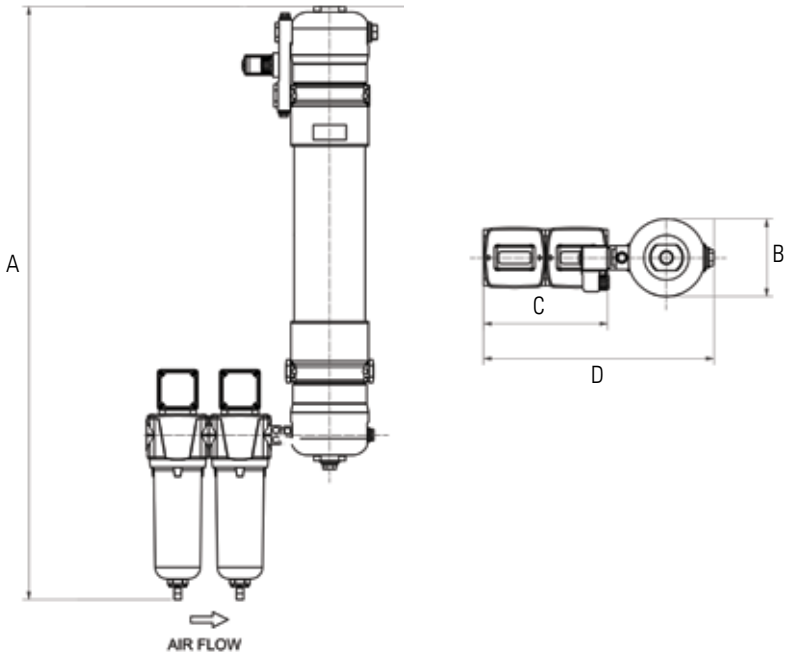
# technical specification

| dimensions and weights | horizontal | vertical |
|---|---|---|
| A (in) | 36.6 | 35.2 |
| B (in) | 12.3 | 12.3 |
| C (in) | 7.9 | 7.9 |
| D (in) | 13.9 | 10.4 |
| weight (lbs) | 8.8 | 8.8 |

Horizontal




Vertical

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