

# MOTOR GUARD CORPORATION

## MODEL DD-1008 DISPOSABLE INLINE MINI DESICCANT DRYER

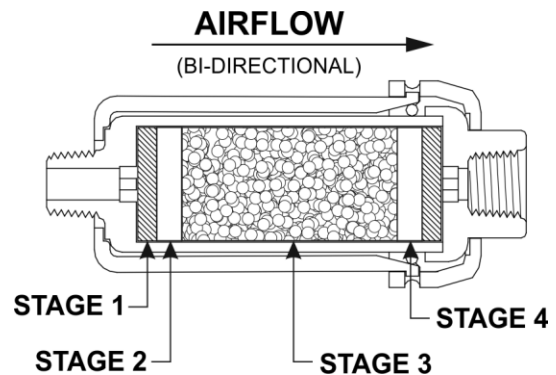
### APPLICATION & FEATURES

The Motor Guard DD-1008 Mini Desiccant Dryer is a disposable, inline filter/dryer designed to remove all traces of water vapor, oil aerosols and particulate from the compressed air stream. The unit is designed for installation at the point of use, directly upstream of the component being protected. Applications include paint spray equipment, blow guns, pneumatic control and instrumentation and any other devices requiring clean, ultra-dry air. The DD-1008 is bi-directional and will function equally well installed in either direction.

A unique feature of the Motor Guard Mini Desiccant Dryer is the visible color change desiccant, which changes color from blue to pink, indicating when it is time to change the filter.

#### 4-STAGE FILTRATION

- STAGE 1** 40 Micron Sintered Bronze Element Removes Fine Particulates
- STAGE 2** 5 Micron Polyester Coalescing Media Removes Oil Aerosols
- STAGE 3** Color Change Silica Gel Desiccant Removes Water Vapor
- STAGE 4** 5 Micron Polyester Media Traps Desiccant Dust



### SPECIFICATIONS

#### PHYSICAL DATA

Dimensions: 1.69 in Wide x 3.75 in Long  
(43 mm Wide x 95 mm Long)  
Port Size: 1/4 NPT(M) x 1/4 NPT(F)  
Construction:  
Housing: Clear Polycarbonate  
Guard: Nylon  
Operating Weight: 2.8 oz. (79 g)

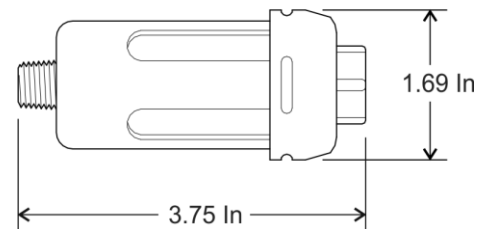
#### OPERATING DATA

Maximum Airflow Rate: 20 ft<sup>3</sup>/min (570 L/min)  
Maximum Inlet Pressure: 125 lb/in<sup>2</sup> (860 kPa)  
Operating Temperature Range: 40 – 130 °F (4 – 55 °C)

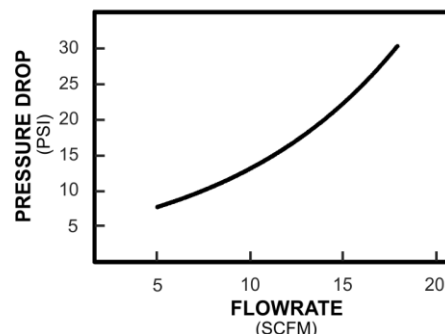
#### PERFORMANCE DATA

Nominal Filtration Rating: 5 Microns (120 μm)  
Pressure Drop at 15 SCFM Flowrate: 22 lb/in<sup>2</sup> 150 kPa  
Nominal Moisture Holding Capacity: 1.5 oz. (43 g)

#### DIMENSIONS



#### PERFORMANCE



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## INSTALLATION & OPERATION

**WARNING: Shut off air supply and drain residual pressure before attempting to service any part of the compressed air system!**

### INSTALLATION

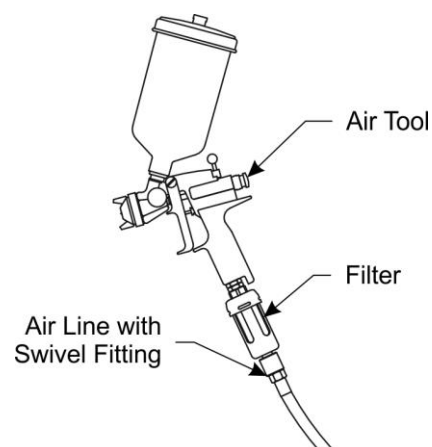
Plastic plugs should remain in place until the filter is ready for use. Before installation, remove and discard the plugs. Filter may be installed in either direction and should be installed as close as possible to the actual point of use, downstream of other filters and water traps. In no case should the filter be installed within 20 feet of supply line length of the compressor. Failure to maintain this distance will cause excessive water vapor to pass through unit.

This filter is designed for installation on a 1/4 inch line, use appropriate fittings for installation on other line sizes. Do not apply thread sealing compound or Teflon tape to threads on filter or mating pipe as doing so can cause the fittings to crack during tightening. When installing filter, grasp the housing by hand and tighten in a clockwise manner. Do not use a vise, pliers or other mechanical means as doing so may damage the threads or housing, leading to injury.

The filter is protective cage and view slots. Do not tamper with or remove the cage as serious injury could result. Remove and discard the filter immediately if the cage becomes damaged.

After installation, pressurize slowly to avoid high-pressure surge. Check for leaks and re-tighten fittings as needed.

**WARNING: This product is intended for use in industrial compressed air systems only. Do not install where pressures or temperatures can exceed those listed above.**



### OPERATION

Filter should be operated within the parameters listed above. During operation and before each use, inspect filter for signs of leaking or damage. Remove and discard filter immediately if any damage is noted.

Do not clean with or expose the filter to solvents, ketones, etc. as use of such chemicals will adversely affect the filter housing and could lead to serious injury.

When used on a flexible air hose, keep hose free of snags as extra tension could lead to failure at the connection ports.

Filter should be replaced when desiccant beads have completely changed from deep blue to light pink. At this point, filter will cease to trap moisture vapor which will pass through the filter. If color change occurs very rapidly, air supply should be evaluated for excessive moisture content.

Dispose of spent filter in accordance with local regulations.

**NOTICE: This Product has a One-Year Shelf Life**

## LIMITED WARRANTY

Motor Guard Corporation assumes the responsibility of providing equipment that is free from defects in workmanship and material. Should this product fail due to a defect in workmanship or material, Motor Guard Corporation will repair or, at its option, replace the product without charge, other than the transportation charges, provided that the product is returned to the factory, transportation prepaid, within one year of the date of purchase. Please contact Motor Guard Corporation for return authorization and shipping instructions.

This limited warranty does not cover damage to the product due to neglect, misuse or accident, nor does it cover any loss, damage or expense, either direct, indirect or consequential, arising from the non-function of this product. This limited warranty notice replaces any other warranty information, implied or otherwise, enclosed with this product or appearing in literature referring to this product.