

# MP-FILENCO Dryer/Filters

**Series 418**  
**Port Size: 1**



Model Shown: CD418-8D1M

## SPECIFICATIONS

**Ambient/Media Temperature:**

40° to 125°F (4° to 52°C).

**Drain:** Automatic drain; optional manual or electronic drains.

**Desiccant:** Choice of three.

**Flow Rate:** 70 scfm.

**Fluid Media:** Compressed air.

**Inlet Pressure:** 150 psig (10 bar) maximum. Consult Master Pneumatic for higher pressure ratings.

**Mounting:** Flanges and front ports for flush mounting.

Many compressed air systems require point-of-use cleaning and drying of the air to supplement a central system. MP-Fileenco dryer/filter units perform superbly because of their triple-action cleaning process and their ability to reduce the pressure dew point. See the sketch on page 95 for a cross-section view of a typical dryer/filter.

The filtering and drying functions result in super clean, super dry air. Several drain options and choices of desiccants are available to suit various operating needs. Units have flanges and front ports for flush mounting.

## DESICCANTS

The desiccants in **MP-Fileenco** dryer/filters have the ability to drop the pressure dew point thereby preventing the recurrence of water in the air system. They also adsorb sulfur compounds that form abrasive, gummy varnish or shellac. Three different desiccants are available.

**CLAY DESICCANT (CD)** — This is a general purpose desiccant which produces initial dew point depressions of 20 to 25 degrees Fahrenheit. It is effective for removing both water and oil, and requires no air preparation. Life expectancy is up to three months, depending on humidity, flow rate, and frequency of use.

**CLAY DESICCANT WITH ACTIVATED CARBON (CDC)** — This desiccant provides a higher degree of air purification than the plain clay desiccant. A layer of activated carbon produces slightly lower initial dew points, and also provides better removal of noxious gases and oil aerosols.

**MOLECULAR SIEVE DESICCANT (MS)** — Highly porous alumina-silicate complexes in this desiccant produce exceptionally low pressure dew points, as much as 80 Fahrenheit degrees initially. A dryer/filter with this desiccant must be preceded by a coalescing filter. The presence of oil in the air will contaminate the molecular sieve material and greatly reduce its efficiency. The coalescing pre-filter, of course, should be preceded by a general purpose filter.



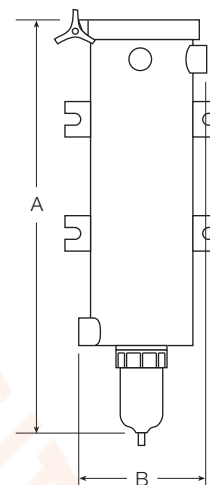
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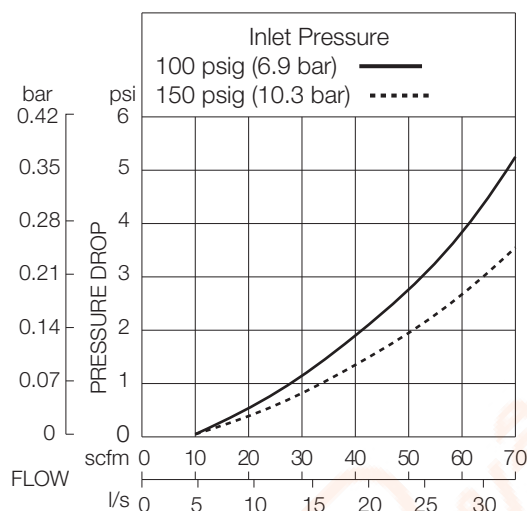
# **DIMENSIONS** inches (mm)

Series	A with Drain						Depth
	A	D1, D2 D3, D4	D6	D7	D8	B	
418	20	24	22.8	23.9	22.9	6.0	6.5
	(508)	(610)	(578)	(606)	(581)	(152)	(165)

Lbs (Kg)	CD418	MS418	CDC418
Approx. Weight	15.4 (7)	15.4 (7)	15.4 (7)



## **FLOW CHARTS**



## **REPLACEMENT DESICCANT ELEMENT KITS**

Description	Quantity (per case)	Kit Number
Clay Desiccant Elements Series 418.....	4	CD-418NRE
Clay with Activated Carbon Series 418.....	4	CDC-418NRE
Molecular Sieve Elements Series 418.....	4	MS-418NRE

Note: Replacement kits include parts for both the older and current designs of filter discs.

## **ORDERING INFORMATION**

Change the letters in the sample model number below to specify the dryer/filter you want.

**CD 418-8 D1 M W**

### **DESICCANT**

Clay CD  
Clay with carbon..... CDC  
Molecular sieve..... MS

### **DRAIN**

NoneRemove D1  
Polycarbonate bowl; plastic bowl guard:  
Manual drain PGM ..... D1  
Automatic float drain ..... D2  
PGA  
Metal bowl with sight glass:  
Manual drain MSM..... D3  
Automatic float drain MBA..... D4  
Air poppet (actuator required); ..... D6  
24v heated drain; temperature  
controlled  
Air poppet with 24v adjustable ..... D7  
cycle heated electronic timer  
Warrior electronic 115vac drain ..... D8

### **PORT TYPE**

NPTF threads ..... Leave Blank  
BSPP threads ..... W

### **MOISTURE INDICATOR**

None.. ..... Leave Blank  
With moisture indicator ..... M  
MI750



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