

DRYER / FILTERS



CD25-2D3M



CD36-3D3M



CD38-3D1M



CD418-8D3M



CD625-12D3M



CD832-16D4M

**Clean, Dry Air
for Compressed
Air Systems**

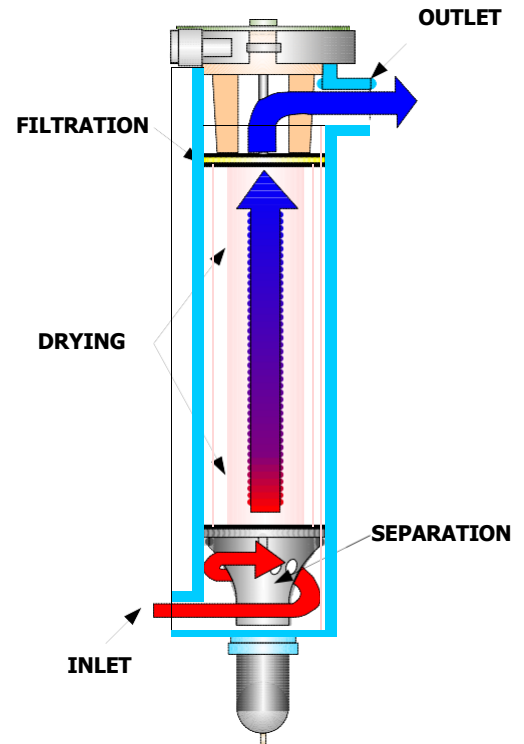
Point of use Dryer / Filters

Many compressed air systems require **point of use** cleaning and drying to supplement a central system. Dryer/Filter units succeed where conventional dryers and filters fail by reducing the dew point because of their triple action cleaning process. Where temperatures vary and / or applications are critical, M/P - **clean air** products are designed to filter air, drop the pressure dew point and remove oil mist.

1. Entering air is spun around a stationary cone coalescing water and oil droplets, breaking up brittle scale, and discharging the mixture through the drain mechanism.
2. Water vapor is removed through the desiccant drying section. Pressure dew points of below zero Fahrenheit are achieved at most flow rates using MS desiccant. Oil aerosols will be removed by the clay - activated carbon (CD/C) desiccant.
3. Particulate scale and other solids are removed through the final filtration steps. A multiple layer disc pack of final filters removes particles to 1 micron in size.

A single housing which saves in three ways:

1. The initial cost is reduced with a single housing.
2. Installation cost is reduced because only one break needs to be made in the pipeline, saving parts and labor.
3. Maintenance is reduced. The dryer/filter is easily serviced with a replacement element kit, restoring all three functions quickly and economically, saving labor and downtime. **NO TOOLS REQUIRED.**



Dryer/Filter units are unique and are supported by a nationwide network of distributors:

1. System Design - Distributors provide the support that will allow you to make quick and economical installations.
2. Rapid Service - Replacement element kits are available for shipment within twenty-four hours from our distributors or from our factory. In most cases, complete Dryer/Filter units are in stock for shipment within forty eight hours.

MORE DESICCANT - BETTER BAG - NO TOOLS - NO MESS

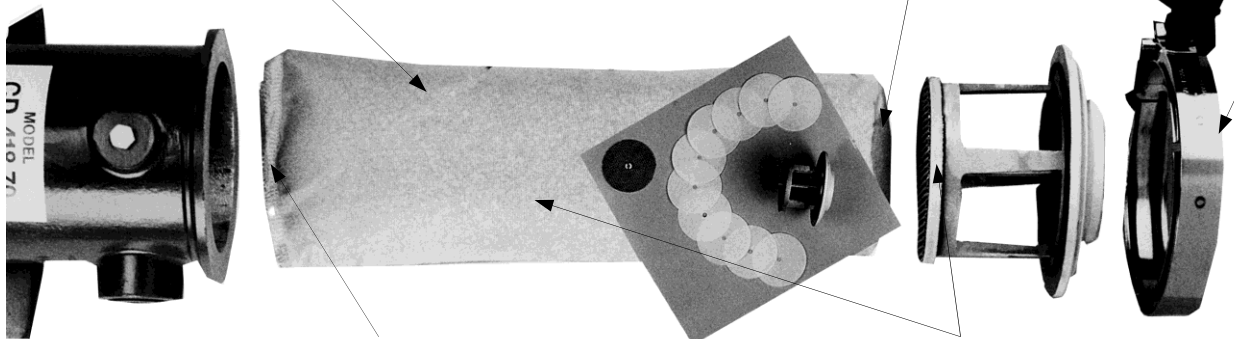
Bag redesigned with a new rounded shape is easier to install because it conforms to the housing. The bag features a stitched flat top and holds 10 - 15% more desiccant.

HEAVY DUTY STRAP FOR QUICK REMOVAL

Just reach in and lift with the new removal strap.

EASY CLAREMOVAL

Simple knob requires NO TOOLS or special skills.



DOUBLE STITCHED CLOSURE FOR LONGER BAG LIFE.

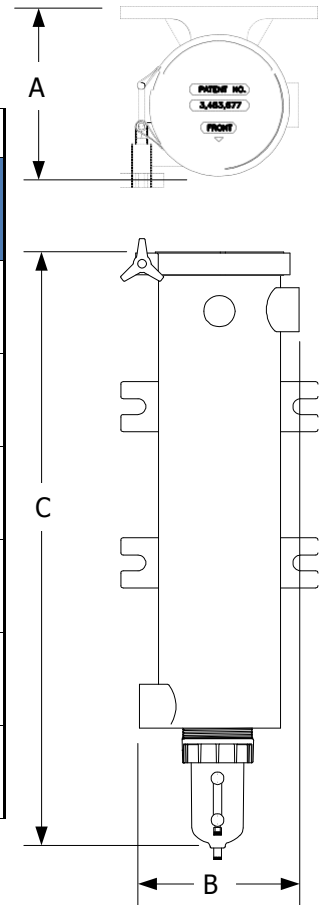
The new closure makes a better bag profile with more desiccant volume. *IT LASTS LONGER!*

BETTER PERFORMANCE - EASY FILTER INSTALLATION / REMOVAL

Positive filter attachment to cover / spacer is easily done by routine maintenance workers and improves filtration.

Dryer / Filters Specifications

DIMENSIONS: INCHES (cm)			With Attached Drain					
Product Number	'A'	'B'	'C' No Drain	'C' D1, D2, D3, D4	'C' D5	'C' D6	'C' D7	'C' D8
CD25-2 MS25-2 CDC25-2	3 1/2 (8.89)	2 5/8 (6.67)	7 (17.78)	12 1/4 (31.12)	9 1/2 (24.13)	10 1/2 (26.67)	11 5/8 (29.53)	9 1/2 (24.13)
CD36-3 MS36-3 CDC36-3	5 (12.7)	4 (10.16)	9 1/2 (24.13)	13 1/2 (34.29)	12 3/8 (31.44)	12 1/4 (31.12)	13 3/8 (33.97)	12 3/8 (31.44)
CD38-4 MS38-4 CDC38-4	5 (12.7)	4 1/2 (11.43)	11 1/2 (29.21)	15 1/2 (13.97)	14 3/8 (36.52)	14 1/4 (36.20)	15 3/8 (39.06)	14 3/8 (36.52)
CD418-8 MS418-8 CDC418-8	6 1/2 (16.51)	6 (15.24)	20 (50.8)	24 (60.96)	22 7/8 (58.11)	22 3/4 (57.79)	23 7/8 (60.65)	22 7/8 (58.11)
CD625-12 MS625-12 CDC625-12	8 (20.32)	8 1/2 (21.59)	21 1/4 (53.98)	25 1/4 (64.14)	24 1/8 (61.60)	24 (60.96)	25 1/8 (63.82)	24 1/8 (61.60)
CD832-16 MS832-16 CDC832-16	10 1/2 (26.67)	10 (25.4)	34 (86.36)	38 (96.52)	37 5/8 (95.57)	37 1/2 (95.25)	39 5/8 (100.65)	37 5/8 (95.57)



Maximum Pressure: 150 P.S.I. (10 Bar)
Maximum Temperature: 125 Degree F. (52 Degree C.)

This applies to all M/P filter / dryers. Consult Factory for products requiring increase in Maximum Pressure.

Not all dryer/ filters have attached brackets as shown above.

Lbs. (Kg)	CD25-2	MS25-2	CDC25-2	CD36-3	MS36-3	CDC36-3
Approx. Weight	3 (1.37)	3 (1.37)	3 (1.37)	5 (2.27)	5 (2.27)	5 (2.27)
	CD38-4	MS38-4	CDC38-4	CD418-8	MS418-8	CDC418-8
Approx. Weight	8 (3.63)	8 (3.63)	8 (3.63)	18 (8.17)	18 (8.17)	18 (8.17)
	CD625-12	MS625-12	CDC625-12	CD832-16	MS832-16	CDC832-16
Approx. Weight	35 (15.88)	35 (15.88)	35 (15.88)	70 (31.76)	70 (31.76)	70 (31.76)

PRODUCT	S.C.F.M. (LPS)	MOISTURE INDICATOR PORT	INLET / OUTLET PORT
CD25-2*	7 (3.33)	3/8 NPTF (with Tee handle adaptor)	1/4 NPTF, BSPP
CD36-3*	18 (8.57)	3/8 NPTF	3/8 NPTF, BSPP
CD38-4*	30 (14.28)	3/8 NPTF	1/2 NPTF, BSPP
CD418-8*	70 (33.33)	3/4 NPTF	1 NPTF, BSPP
CD625-12*	150 (71.42)	3/4 NPTF	1-1/2 NPTF, BSPP
CD832-16*	300 (142.85)	3/4 NPTF	2 NPTF, BSPP

* = if ordering BSPP add suffix 'W'

Dryer / Filters Specifications

These products are intended for industrial compressed air systems only. Do not use where pressures or temperatures can exceed those listed on the label. Except as otherwise specified by the manufacturer, this product is specifically designed for compressed air service and use with any other fluid (liquid or air) is a misapplication. For example, use with or injection of certain hazardous liquids or gases in the system (such as alcohol or liquid petroleum gas) could be harmful to the unit or result in a combustible condition or hazardous external leakage.

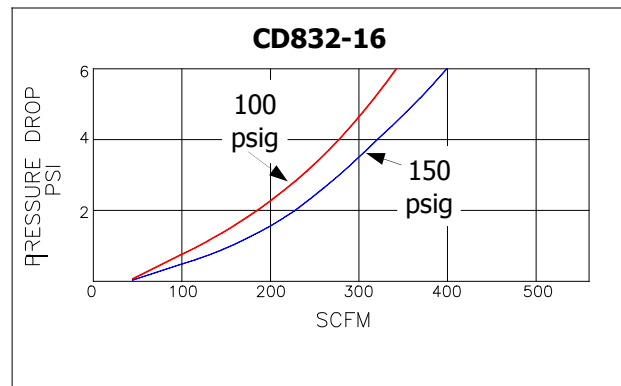
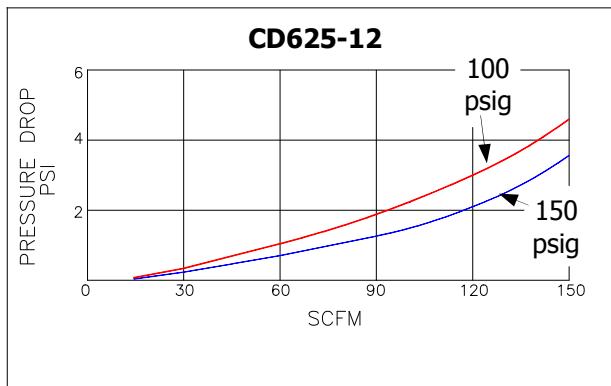
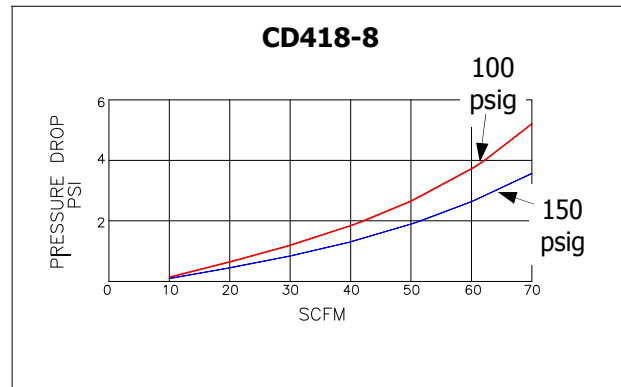
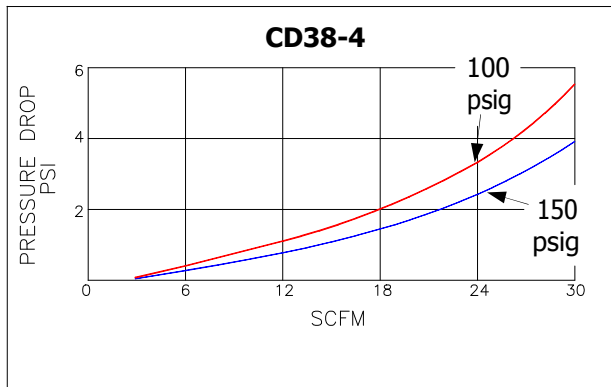
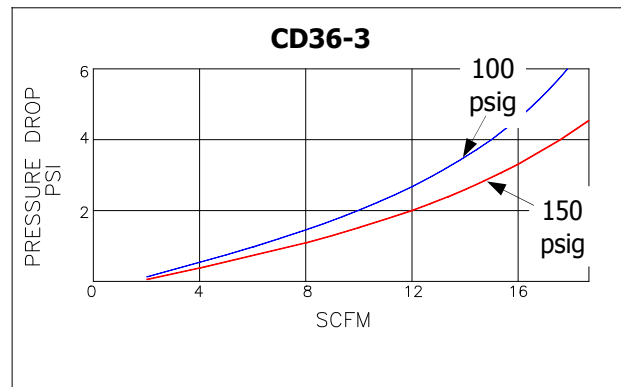
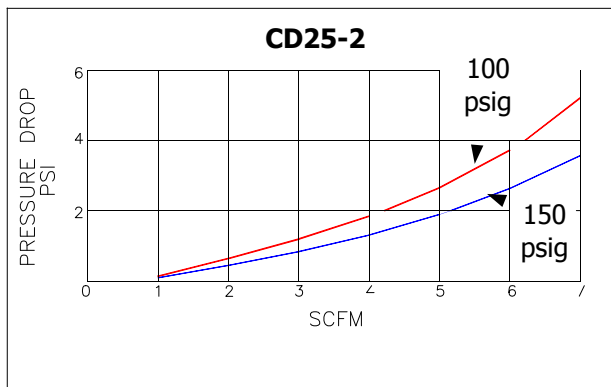
Before using for non-industrial applications, life-support systems, with fluids other than those specified, or other applications not within published specifications, consult the manufacturer for written approval.
Components used on fluid power system can fail in various

modes through misuse, age, inadequate maintenance, or malfunction. The system designer is warned to consider failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such a failure.

System designers must provide a warning to end users in the instructions if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found on product labels and in instruction sheets packed with these products.

M/P suggests metal bowl drains (option D4) as standard.



Desiccant Materials

M/P Dryer / Filters add the ability to drop the pressure dew point preventing the recurrence of water in the air system and systematically adsorbing sulfuric acid compounds that form into abrasive gummy varnish or shellac. Three choices of desiccant are available:

CD - CLAY DESICCANT

Effective for both water and oil removal. Requires no coalescing or air preparation. A general purpose desiccant which produces initial dew point depressions (pressure dew points) of 20 to 25 degrees F. Life expectancy is up to three months depending on humidity, flow rate and frequency of operation.

CDC - CLAY DESICCANT WITH ACTIVATED CARBON

A layer of activated carbon following the clay desiccant produces slightly lower initial dew points. It provides better removal of noxious gasses and oil aerosols. It is to be used where a higher degree of purification is required.

MS - MOLECULAR SIEVE DESICCANTS

Highly porous Alumina-silicate complexes produce exceptionally low dew points - as much as a 80 degree F initial pressure dew point depression. Molecular sieve material will be coated with oil passing through the system thereby reducing efficiency and life expectancy. They are generally used with oil less compressors or a coalescing filter is used to remove the oil before the air enters the Dryer/Filters. The addition of a general purpose filter will extend the life of the coalescing filter element, further reducing Cost. **"Always install filters before the MS models".**



Photo shown above reflects No: BMFFC70-4 along with No: MS38-4D3M.

Available Options



D1 OPTION
Manual drain
Polycarbonate bowl with
plastic bowl guard.



D2 OPTION
Float drain
Polycarbonate bowl with
plastic bowl guard.



D3 OPTION
Manual Metal Bowl with
sight glass.



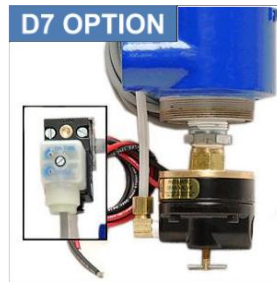
D4 OPTION
Float Drain Metal bowl.



D5 OPTION
Spartan Electronic
Controlled drain 110v.



D6 OPTION
Air poppet (*actuator re-
quired*). Heated drain
Temperature
controlled 24v.



D7 OPTION
Air poppet Heated drain
Temperature
controlled (**24v**) with fixed
cycle electronic timer.
(**24v**).



D8 OPTION
Warrior electronic
Controlled drain 110v.



MI375

MOISTURE INDICATORS

Cobalt chloride impregnated paper changes color in three different color coded sections at three different humidities on the **MI750** - as the system approaches saturation. The reversible color change occurs at a single humidity on the **MI375**. Units can be mounted in the body of the dryer / filter or in a tee placed at the exit from the dryer / filter.



MI750

Dryer Filter Product Numbering Chart

CD625-12D4M

CODE	DESCRIPTION
CD	Clay Desiccant
MS	Molecular Sieve
CDC	Clay Desiccant with Carbon

CODE	DESCRIPTION
---	Blank for no moisture indicator
M	With Moisture Indicator <i>(Standard)</i>

CODE	S.C.F.M.	PIPE PORT
25-2	7	1/4
36-3	18	3/8
38-4	30	1/2
418-8	70	1
625-12	150	1-1/2
832-16	300	2

CODE	DESCRIPTION
---	Blank for no filter bowl attachment
D1	PGM manual Polycarbonate bowl with plastic bowl guard.
D2	PGA Float drain Polycarbonate bowl with plastic bowl guard.
D3	MSM Manual Metal Bowl with sight glass.
D4	MBA Float Drain Metal bowl.
D5	(REPLACES OLD AD-10, AD-10/E550 AND AD-10/E600) Spartan Electronic Controlled drain 110v. NO LONGER AVAILABLE Use Option D8
D6	AD-5 AIR POPPET (ACTUATOR REQUIRED). HEATED DRAIN—TEMPERATURE CONTROLLED. 24v.
D7	AD-5/E550 AIR POPPET (24v) WITH FIXED CYCLE ELECTRONIC TIMER. (24v).
D8	Warrior Electronic Controlled Drain 110v.

Replacement Element Kits

KIT NUMBER	DESCRIPTION
CD-25NRE	Clay Desiccant Element Kit for '25' series <i>(Case of 4)</i>
CD-36NRE	Clay Desiccant Element Kit for '36' series <i>(Case of 4)</i>
CD-38NRE	Clay Desiccant Element Kit for '38' series <i>(Case of 4)</i>
CD-418NRE	Clay Desiccant Element Kit for '418' series <i>(Case of 4)</i>
CD-625NRE	Clay Desiccant Element Kit for '625' series <i>(Case of 2)</i>
CD-832NRE	Clay Desiccant Element Kit for '832' series <i>(Case of 1)</i>
MS-25NRE	Molecular Sieve Element Kit for '25' series <i>(Case of 4)</i>
MS-36NRE	Molecular Sieve Element Kit for '36' series <i>(Case of 4)</i>
MS-38NRE	Molecular Sieve Element Kit for '38' series <i>(Case of 4)</i>
MS-418NRE	Molecular Sieve Element Kit for '418' series <i>(Case of 4)</i>
MS-625NRE	Molecular Sieve Element Kit for '625' series <i>(Case of 2)</i>
MS-832NRE	Molecular Sieve Element Kit for '832' series <i>(Case of 1)</i>

KIT NUMBER	DESCRIPTION
CDC-25NRE	Clay Desiccant / Activated Carbon Element Kit for '25' series. <i>(Case of 4)</i>
CDC-36NRE	Clay Desiccant / Activated Carbon Element Kit for '36' series. <i>(Case of 4)</i>
CDC-38NRE	Clay Desiccant / Activated Carbon Element Kit for '38' series. <i>(Case of 4)</i>
CDC-418NRE	Clay Desiccant / Activated Carbon Element Kit for '418' series. <i>(Case of 4)</i>
CDC-625NRE	Clay Desiccant / Activated Carbon Element Kit for '625' series. <i>(Case of 2)</i>
CDC-832NRE	Clay Desiccant / Activated Carbon Element Kit for '832' series. <i>(Case of 1)</i>