

ADSORBING FILTERS, DRYERS, CLEAN AIR PACKAGES

OIL REMOVAL ADSORBING FILTERS



The adsorbing filters are designed to remove vapors from the air line that cannot be removed by a coalescing filter. They produce air that is virtually free of oil and hydrocarbons as required by industries such as food processing, electronics, and instrumentation.

The filter cartridges contain activated carbon to adsorb hydrocarbon vapors and odors from alcohols, esters, and ketones. An optional extended bowl includes a higher capacity adsorbing cartridge which allows as much as 50 percent greater air flow.

Series **BFC70-E9** adsorbing filters have aluminum bowls and are offered with 1/4, 3/8, or 1/2 ports. Series **FC350-E9** and the **FC380-E9** units have either polycarbonate plastic or aluminum bowls. The **FC350-E9** are offered with 1/4, 3/8, or 1/2 ports. The **FC380-E9** are offered with 3/8, 1/2, or 3/4 ports.

An adsorbing filter should always be preceded by a particulate filter and a coalescing filter. Such an assembly is one of Master Pneumatic's Clean Air Packages which will provide air with no more oil than 10 mg/m³ or 0.008 ppm.

CLEAN AIR PACKAGES



In critical applications when vapor impurities a are a potential problem, the installation of a Clean Air Package provides the solution. Ultra clean air is provided by using the particulate filters as the first line of defense against gross contaminants found in all air lines. Elements remove solid particles larger than 5 micron, while automatic drains eliminate liquid water and oil emulsions that collect in the sump area. The particulate filter serves as a pre-filter to extend the life of the more costly coalescing element used for the next stage of filtration.

The coalescing filter element will further clean the air of residual oil mists, aerosols, and minute particles, larger than 0.3 micron. A standard differential pressure gauge warns when the pressure drop exceeds 8 to 10 psi, indicating that the coalescing element should be changed.

Finally, the adsorber filter will provide air, virtually free of oil and most hydrocarbons. It effectively eliminates odors from freons, alcohols, esthers, ketones, and up to 99% of most hydrocarbons.

Clean Air Packages are available with port sizes ranging from 1/4 to 1.

MP-FILENCO DRYER/FILTERS

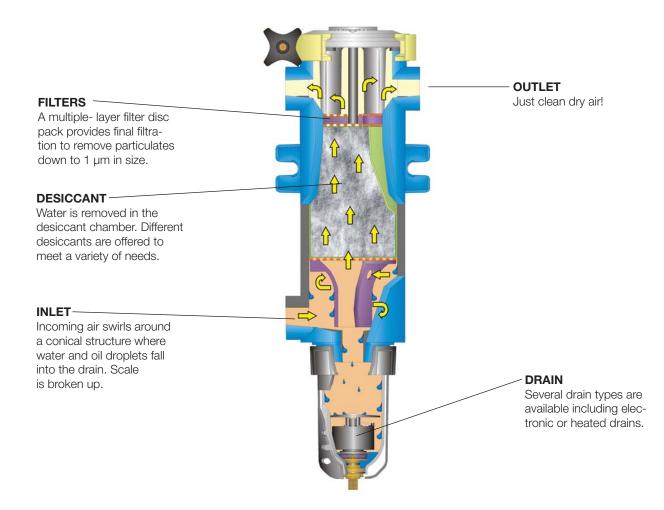


Many compressed air systems require point-of-use cleaning and drying of the air to supplement a central system. Dryer/filters do this extremely well because of their triple-action cleaning process and their ability to substantially reduce pressure dew points.

Available desiccants for these units include clay, clay with activated carbon, and molecular sieves for as much as 80° dew point suppression.

Automatic drains are strongly recommended, although there are a variety options offered — from simple manual drains to the Warrior electronic drain.

MP-FILENCO DRYER CROSS SECTION



GUIDE to ADSORBING FILTERS, DRYERS and CLEAN AIR PACKAGES

	Port Sizes							
Product	1/4	3/8	1/2	3/4	1	1-1/2	2	Pages
ADSORBING FILTERS								
BFC70-E9	Х	Х	Х					106-107
FC350-E9	Х	Х	Х					108-109
FC380-E9		Х	Х	Х				110-111
CLEAN AIR PACKAGES								
Guardsman II	Х	Х	Х					112-113
Series 350	Х	Х	Х					114-115
Series 380		Х	Х	Х				116-117
High-flow BFDFCD100				Х	Х			118-119
350-4SA447 (2 Drop)			Х					112-113
380-4SA446 (4 Drop)			Х					114-115
MP-FILENCO DRYER/FILTERS								
Series 25	Х							120-121
Series 36		Х						122-123
Series 38			Х					122-123
Series 418					Х			124-125
Series 625						Х		126-127
Series 832							Х	126-127

Series 25 Port Size: 1/4



Many compressed air systems require point-of-use cleaning and drying of the air to supplement a central system. MP-Filenco 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.

DESICCANTS

The desiccants in **MP-Filenco** 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 dessicants 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.

Model Shown: CD25-2D3M

SPECIFICATIONS

Ambient/Media Temperature:

40° to 125°F (4° to 52°C).

Drain: Automatic drain; optional manual or electronic drains.

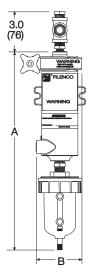
Dessicant: Choice of three.

Flow Rate: 7 scfm (3.3 l/s).

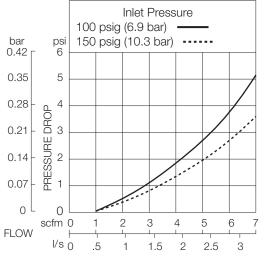
Fluid Media: Compressed air.

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

DIMENSIONS inches (mm)							
		A with Drain					
Series	A No Drain	D1, D2 D3, D4	D6	D7	D8	В	Depth
05	7.0	12.3	10.5	11.6	9.5	2.6	3.5
25	(178)	(311)	(267)	(295)	(241)	(67)	(89)
Lbs (Kg)	CD25	MS25	CDC25	_		
Approx.	Weight	2.11 (0.96)	2.11 (0.96)	2.11 (0.96)	-		



FLOW CHART



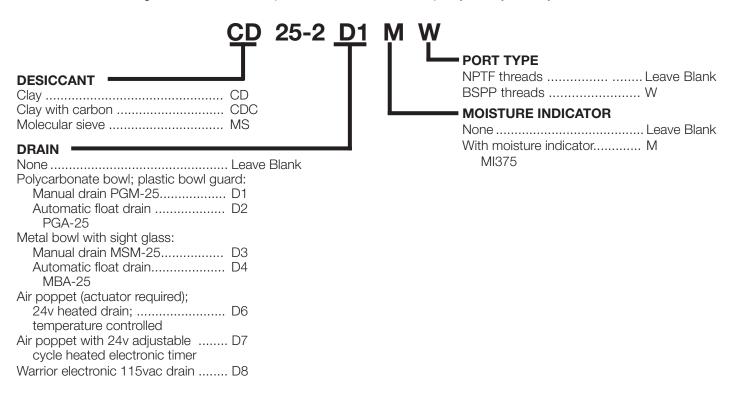
REPLACEMENT DESICCANT ELEMENT KITS

Description	Quantity (per case)	Kit Number
Clay Desiccant Elements Series 25	4	CD-25NRE
Clay with Activated Carbon Series 25	4	CDC-25NRE
Molecular Sieve Elements Series 25	4	MS-25NRE
Note: Replacement kits inclu	de parts for bo	th 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.





Series 36 and 38 Port Sizes: 3/8 and 1/2

Many compressed air systems require point-of-use cleaning and drying of the air to supplement a central system. MP-Filenco 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-Filenco 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.

Model Shown: CD38-4D1M

SPECIFICATIONS

Ambient/Media Temperature:

40° to 125°F (4° to 52°C).

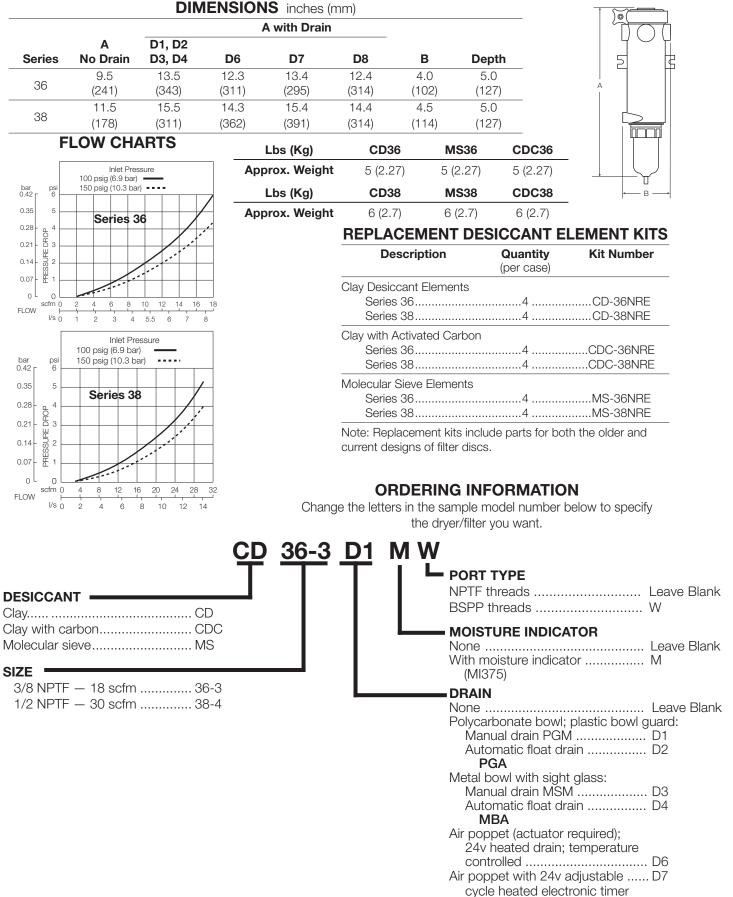
Drain: Automatic drain; optional manual or electronic drains.

Dessicant: Choice of three.

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.



Series 418 Port Size: 1



Many compressed air systems require point-of-use cleaning and drying of the air to supplement a central system. MP-Filenco 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.

Model Shown: CD418-8D1M

SPECIFICATIONS

Ambient/Media Temperature:

40° to 125°F (4° to 52°C).

Drain: Automatic drain; optional manual or electronic drains.

Dessicant: 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.

DESICCANTS

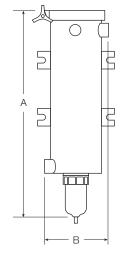
The desiccants in **MP-Filenco** dryer/filters have the ability to drop the pressure dew point thereby preventing the recurrence of water in the air system. They also adsorb sulfur compounds that form abrasive, gummy varnish or shellac. Three different desiccants are available.

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.

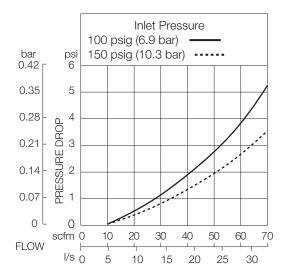
CLAY DESICCANT WITH ACTIVATED CARBON (CDC) — This desiccant provides a higher degree of air purification than the plain clay desiccant. A layer of activated carbon produces slightly lower initial dew points, and also provides better removal of noxious gases and oil aerosols.

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.

DIMENSIONS inches (mm)							
		A with Drain					
	Α	D1, D2					
Series	No Drain	D3, D4	D6	D7	D8	В	Depth
418	20	24	22.8	23.9	22.9	6.0	6.5
410	(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

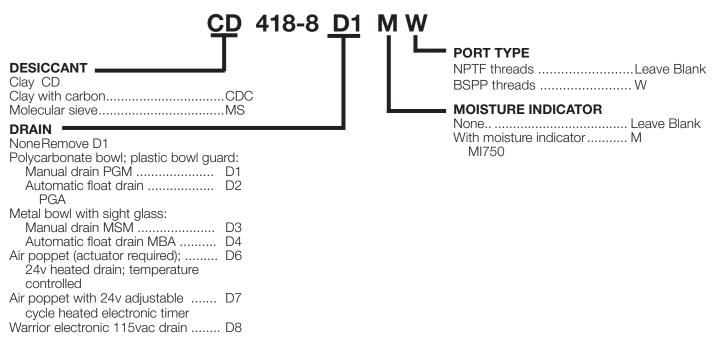


REPLACEMENT DESICCANT ELEMENT KITS

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 inclu current designs of filter discs		h the older and

ORDERING INFORMATION

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



WWW.FLUTECH.CO.TH SALES@FLUTECH.CO.TH 🗘 + 66 (0) 2384-6060 + 66 (0) 2384-5701



Series 625 and 832 Port Sizes: 1-1/2 and 2

Many compressed air systems require point-of-use cleaning and drying of the air to supplement a central system. MP-Filenco 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-Filenco 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.

SPECIFICATIONS

Ambient/Media Temperature:

40° to 125°F (4° to 52°C).

Drain:

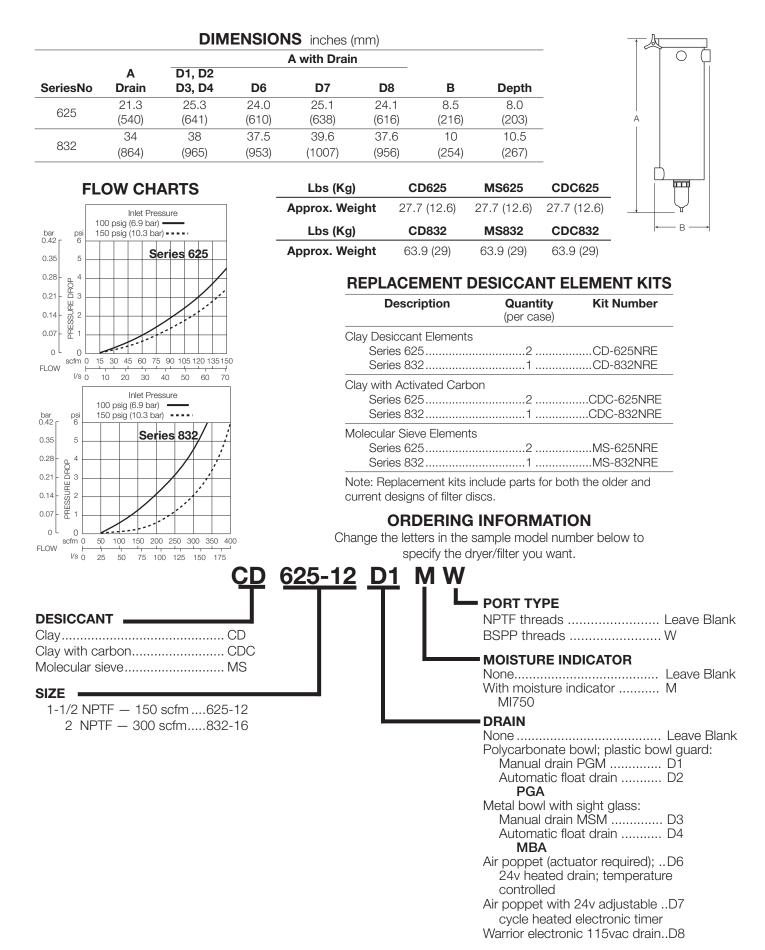
Automatic drain; optional manual or electronic drains.

Dessicant: Choice of three.

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.





845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270

845/3-4 Thepharak RD., T.Thepharak, A.Muang, Samutprakarn 10270 THAILAND Tel. 0 2384 6060, Fax 0 2384 5701, Email : pneumatic@flutech.co.th, www.flutech.co.th