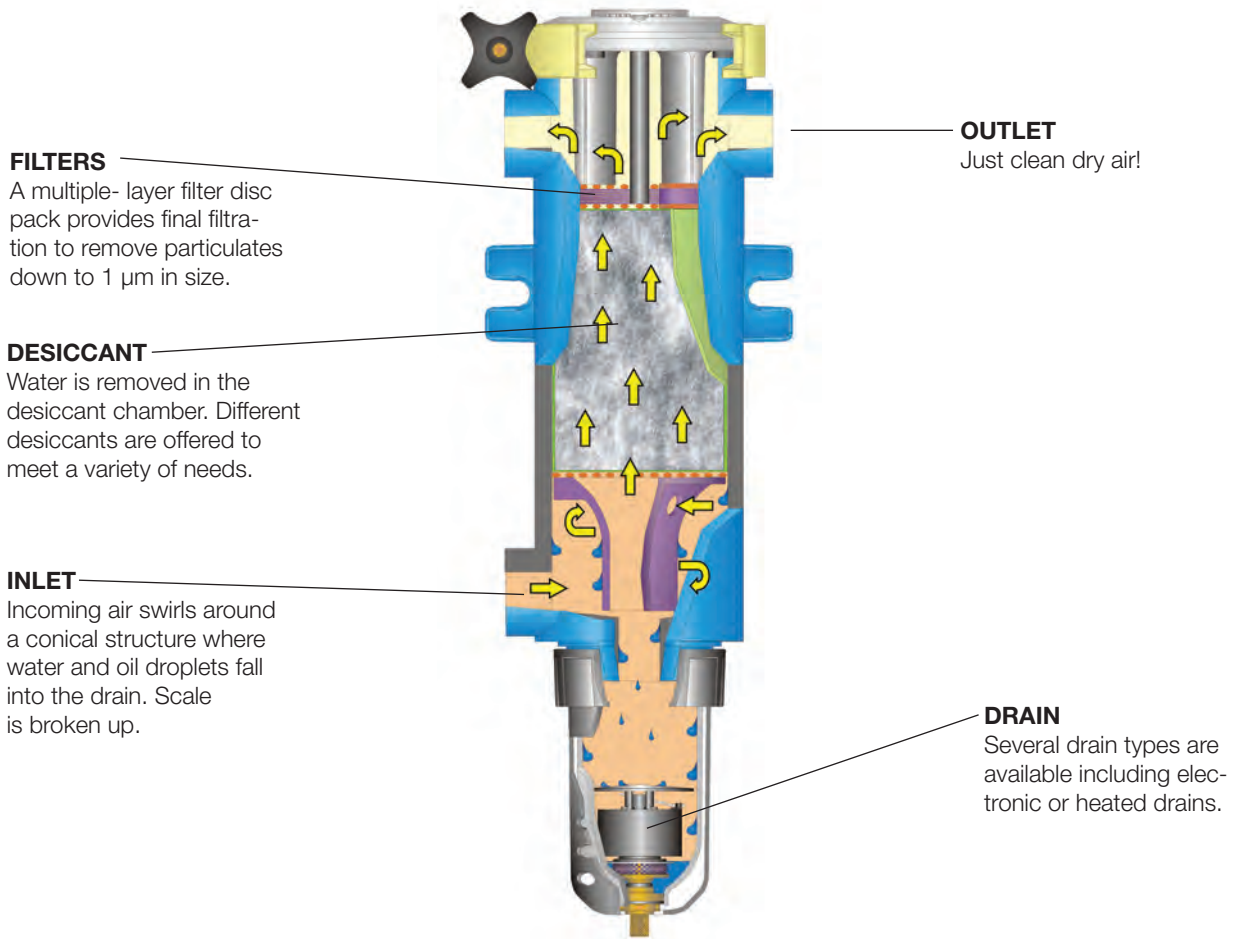


MP-FILENCO DRYER CROSS SECTION



GUIDE to ADSORBING FILTERS, DRYERS and CLEAN AIR PACKAGES

Product	Port Sizes							Pages
	1/4	3/8	1/2	3/4	1	1-1/2	2	
ADSORBING FILTERS								
BFC70-E9	X	X	X					102-103
FC380-E9		X	X	X				104-105
CLEAN AIR PACKAGES								
Guardman II	X	X	X					106-107
Series 380		X	X	X				110-111
High-flow BFDLCD100				X	X			108-109
MP-FILENCO DRYER/FILTERS								
Series 25	X							112-113
Series 36		X						114-115
Series 38			X					114-115
Series 418					X			116-117
Series 625						X		118-119
Series 832							X	118-119

MP-FILENCO Dryer/Filters

Series 25
Port Size: 1/4

Model Shown: CD25-2D3M



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: 7 scfm (3.3 l/s).

Fluid Media: Compressed air.

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

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 desiccants are available.

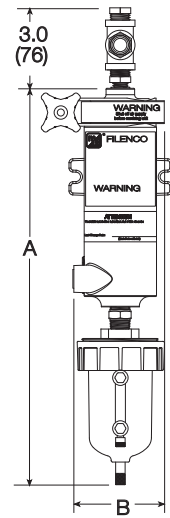
CLAY DESICCANT (CD) — This is a general purpose desiccant which produces initial dew point depressions of 20 to 25 degrees Fahrenheit. It is effective for removing both water and oil, and requires no air preparation. Life expectancy is up to three months, depending on humidity, flow rate, and frequency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

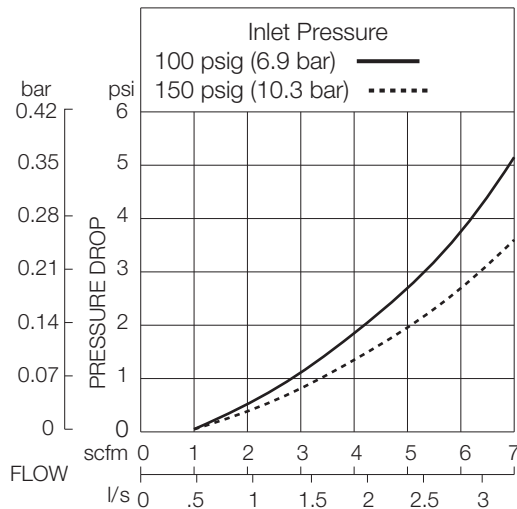
DIMENSIONS inches (mm)

Series	A with Drain						
	A No Drain	D1, D2 D3, D4	D6	D7	D8	B	Depth
25	7.0 (178)	12.3 (311)	10.5 (267)	11.6 (295)	9.5 (241)	2.6 (67)	3.5 (89)



MP-Filenco Dryer/Filter 25 Series

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 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 25-2 D1 M W

DESICCANT

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

DRAIN

- None Leave Blank
- Polycarbonate bowl; plastic bowl guard:
 - Manual drain PGM-25 D1
 - Automatic float drain D2
 - PGA-25
- Metal bowl with sight glass:
 - Manual drain MSM-25 D3
 - Automatic float drain D4
 - MBA-25
- Air poppet (actuator required);
 - 24v heated drain; D6
 - temperature controlled
- Air poppet with 24v adjustable D7
- cycle heated electronic timer
- Warrior electronic 115vac drain D8

PORT TYPE

- NPTF threads Leave Blank
- BSPF threads W

MOISTURE INDICATOR

- None Leave Blank
- With moisture indicator M
- MI375

MP-FILENCO Dryer/Filters

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



Model Shown: CD36-3D1M



Model Shown: CD38-3D1M

SPECIFICATIONS

Ambient/Media Temperature:

40° to 125°F (4° to 52°C).

Drain: Automatic drain; optional manual or electronic drains.

Desiccant: 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.

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.

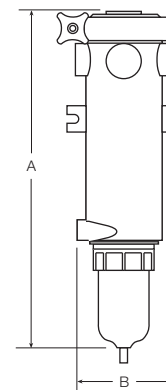
CLAY DESICCANT (CD) — This is a general purpose desiccant which produces initial dew point depressions of 20 to 25 degrees Fahrenheit. It is effective for removing both water and oil, and requires no air preparation. Life expectancy is up to three months, depending on humidity, flow rate, and frequency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

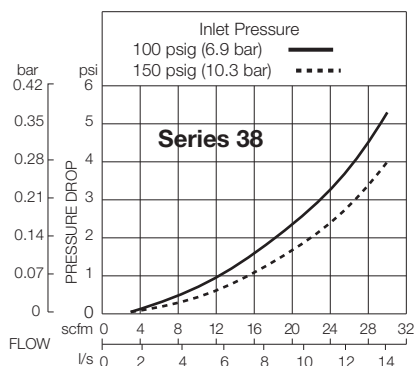
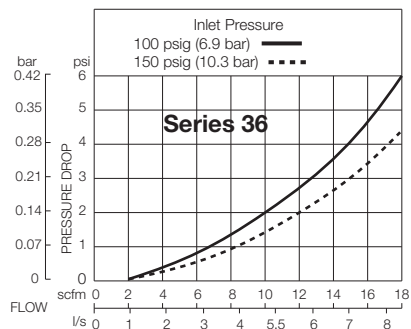
MOLECULAR SIEVE DESICCANT (MS) — Highly porous alumina-silicate complexes in this desiccant produce exceptionally low pressure dew points, as much as 80 Fahrenheit degrees initially. A dryer/filter with this desiccant must be preceded by a coalescing filter. The presence of oil in the air will contaminate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

DIMENSIONS inches (mm)

Series	A with Drain						Depth
	A No Drain	D1, D2 D3, D4	D6	D7	D8	B	
36	9.5 (241)	13.5 (343)	12.3 (311)	13.4 (295)	12.4 (314)	4.0 (102)	5.0 (127)
38	11.5 (178)	15.5 (311)	14.3 (362)	15.4 (391)	14.4 (314)	4.5 (114)	5.0 (127)



FLOW CHARTS



REPLACEMENT DESICCANT ELEMENT KITS

Description	Quantity (per case)	Kit Number
Clay Desiccant Elements		
Series 36	4	CD-36NRE
Series 38	4	CD-38NRE
Clay with Activated Carbon		
Series 36	4	CDC-36NRE
Series 38	4	CDC-38NRE
Molecular Sieve Elements		
Series 36	4	MS-36NRE
Series 38	4	MS-38NRE

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 36-3 D1 M W

PORT TYPE
 NPTF threads Leave Blank
 BSPP threads W

MOISTURE INDICATOR
 None Leave Blank
 With moisture indicator M
 (MI375)

DRAIN
 None Leave Blank
 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 D4
 MBA
 Air poppet (actuator required);
 24v heated drain; temperature
 controlled D6
 Air poppet with 24v adjustable D7
 cycle heated electronic timer
 Warrior electronic 115vac drain D8

DESICCANT

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

SIZE

3/8 NPTF — 18 scfm 36-3
 1/2 NPTF — 30 scfm 38-4

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.

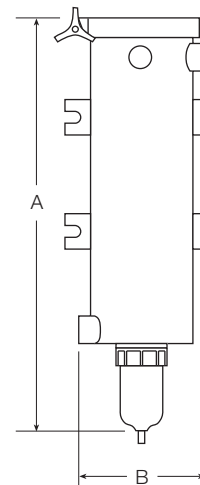
CLAY DESICCANT (CD) — This is a general purpose desiccant which produces initial dew point depressions of 20 to 25 degrees Fahrenheit. It is effective for removing both water and oil, and requires no air preparation. Life expectancy is up to three months, depending on humidity, flow rate, and frequency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

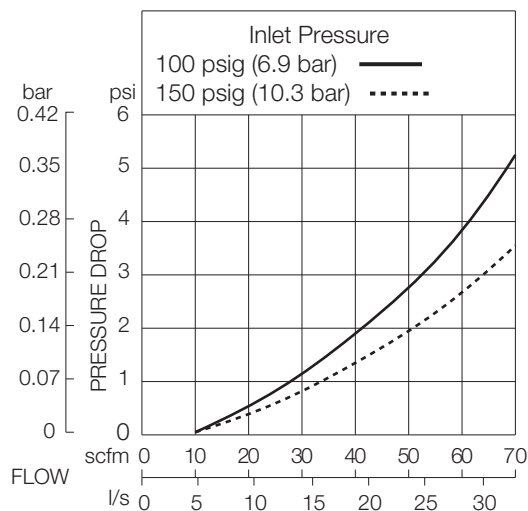
MOLECULAR SIEVE DESICCANT (MS) — Highly porous alumina-silicate complexes in this desiccant produce exceptionally low pressure dew points, as much as 80 Fahrenheit degrees initially. A dryer/filter with this desiccant must be preceded by a coalescing filter. The presence of oil in the air will contaminate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

DIMENSIONS inches (mm)

Series	A with Drain						
	A No Drain	D1, D2 D3, D4	D6	D7	D8	B	Depth
418	20 (508)	24 (610)	22.8 (578)	23.9 (606)	22.9 (581)	6.0 (152)	6.5 (165)



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
- BSPF threads W

MOISTURE INDICATOR

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

MP-FILENCO Dryer/Filters

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



Model Shown: CD625-12D1M

Model Shown: CD832-16D1M

SPECIFICATIONS

Ambient/Media Temperature:

40° to 125°F (4° to 52°C).

Drain:

Automatic drain; optional manual or electronic drains.

Desiccant: 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.

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.

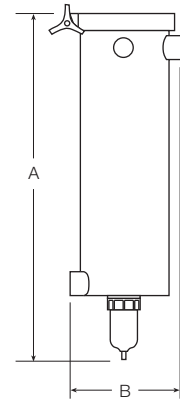
CLAY DESICCANT (CD) — This is a general purpose desiccant which produces initial dew point depressions of 20 to 25 degrees Fahrenheit. It is effective for removing both water and oil, and requires no air preparation. Life expectancy is up to three months, depending on humidity, flow rate, and frequency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

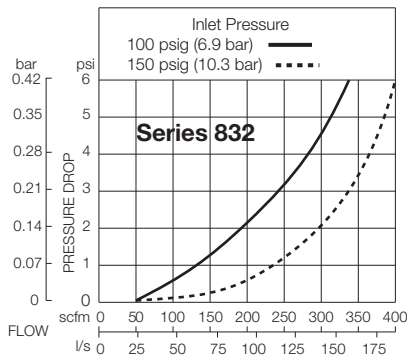
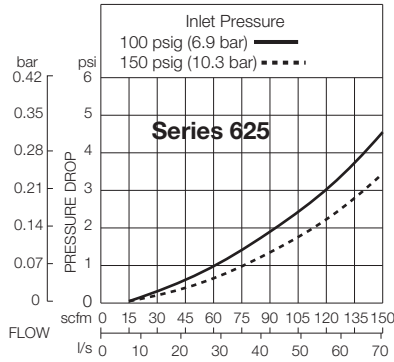
MOLECULAR SIEVE DESICCANT (MS) — Highly porous alumina-silicate complexes in this desiccant produce exceptionally low pressure dew points, as much as 80 Fahrenheit degrees initially. A dryer/filter with this desiccant must be preceded by a coalescing filter. The presence of oil in the air will contaminate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

DIMENSIONS inches (mm)

SeriesNo	A Drain	A with Drain					B	Depth
		D1, D2 D3, D4	D6	D7	D8			
625	21.3 (540)	25.3 (641)	24.0 (610)	25.1 (638)	24.1 (616)	8.5 (216)	8.0 (203)	
832	34 (864)	38 (965)	37.5 (953)	39.6 (1007)	37.6 (956)	10 (254)	10.5 (267)	



FLOW CHARTS



REPLACEMENT DESICCANT ELEMENT KITS

Description	Quantity (per case)	Kit Number
Clay Desiccant Elements		
Series 625.....	2	CD-625NRE
Series 832.....	1	CD-832NRE
Clay with Activated Carbon		
Series 625.....	2	CDC-625NRE
Series 832.....	1	CDC-832NRE
Molecular Sieve Elements		
Series 625.....	2	MS-625NRE
Series 832.....	1	MS-832NRE

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
625-12
D1
M
W

DESICCANT

Clay.....CD

Clay with carbon.....CDC

Molecular sieve.....MS

SIZE

1-1/2 NPTF — 150 scfm625-12

2 NPTF — 300 scfm.....832-16

PORT TYPE

NPTF threads Leave Blank

BSPP threads W

MOISTURE INDICATOR

None Leave Blank

With moisture indicatorM

MI750

DRAIN

None Leave Blank

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 D4

MBA

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