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 FC380-E9 units have either polycarbonate plastic or aluminum bowls and 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/m^3 or 0.008 ppm.

MP-FILENCO DRYER/FILTERS

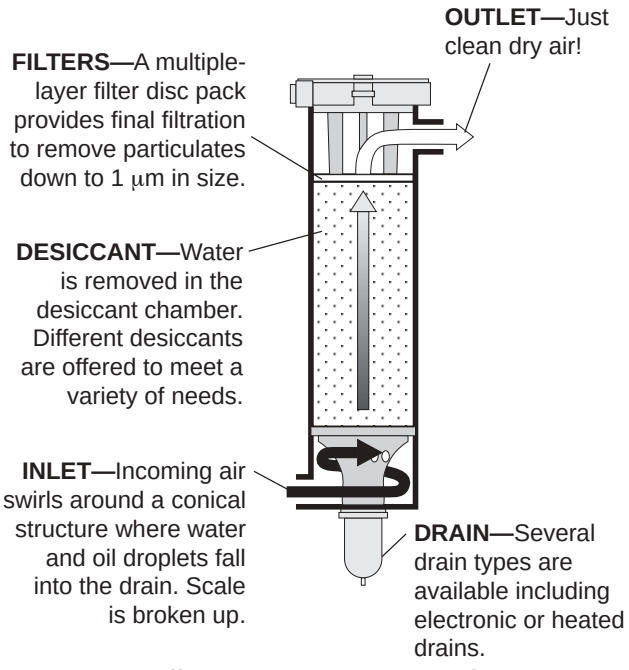
Many compressed air systems require point-of-use cleaning and drying of the air to supplement a central system. Dryer/filters do this extremely well because of their triple-action cleaning process and their ability to substantially reduce pressure dew points.

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.

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	X	X	X					**84-85**
FC380-E9		X	X	X				**88-89**
DRYER/FILTERS								
MP-Filenco								
Series 25	X							**92-93**
Series 36		X						**94-95**
Series 38			X					**94-95**
Series 418					X			**96-97**
Series 625						X		**98-99**
Series 832							X	**98-99**
Membrane type								
Series 600-603		X	X					**100-101**
Series 604				X	X			**102-103**
Series 605				X	X			**104-105**
Series 606, 607					X			**106-107**
Series 608					X			**108-109**
CLEAN AIR PACKAGES								
BFC70-E9 filters	X	X	X					**86-87**
FC380-E9 filters		X	X	X				**90-91**
Membrane dryer/filters	X	X	X	X				**100-109**



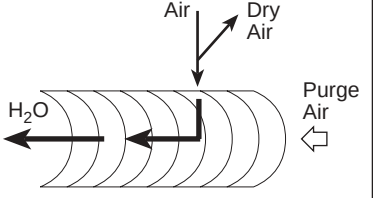
MP-Filenco Dryer Cross Section

MEMBRANE DRYER/FILTER CLEAN AIR PACKAGE

LOW-COST, POINT-OF-USE COMPRESSED AIR DRYING. The Membrane Compressed Air Dryer/Filter Package provides state-of-the-art, low cost, high quality, point-of-use compressed air drying. The Membrane Dryers are available in 16 models with flow rates up to 112 scfm (52,900 cm^3/s) from a single module. They can dry air down to -40°F (-40°C) pressure dew point. ISO Air Purity Class ISO 8573-1 1 2 1

The Membrane Dryer has no moving parts and requires no electricity. The package is environmentally sound, and eliminates the need for desiccant replacement in pressure swing dryers, and refrigerant replacement in refrigerating dryers.

TECHNICALLY ADVANCED DRY AIR PRODUCTION. The key to dry air production is the technicaly advanced bundle of hollow-fiber membranes. The membranes separate water molecules from the air by selective permeation.



Cross-Section of Hollow-Fiber Membrane

When compressed air, already cleaned by particulate and coalescing pre-filters, comes in contact with the hollow membrane fibers, water molecules permeate rapidly and are safely purged to the atmosphere. The dried air then enters the user's distribution system. Air flow and pressure are controlled by valves and regulators. The simplicity and effectiveness of membrane dryers makes them excellent alternatives to refrigeration or desiccant dryers.

SIMPLE INSTALLATION. Installation is quick and easy. The Membrane Dryer/Filter Package can be placed in the process piping. This "in-line" installation greatly simplifies process piping, and offers considerable space savings by eliminating the need for floor space. Mounting brackets are available to simplify installation.

SELECTIVE PURGE. For larger quantity orders Master Pneumatic offers *Selective Purge.* Within the Membrane Compressed Air Dryer Master Pneumatic can install purge custom orifices that are sized to closely match the user's feed air availablility and dry air needs. Contact your Master Pneumatic representative for further details.

CUSTOM ASSEMBLIES. The Membrane Compressed Air Dryer/Filter is ideal for equipment manufacturers wishing to incorporate conditioned air into a process or their equipment. Incorporating the Dryer/Filter module into equipment eliminates the need for the Original Equipment Manufacturer's customer to purchase a separate drying system or use compressed air cylinders.

TYPICAL APPLICATIONS FOR MEMBRANE DRYER/FILTER PACKAGES

◊ Low-dew-point instrument-quality air
◊ Pressurizing electronic cabinets
◊ Analytical instrumentation
◊ Dry air for hazardous areas
◊ General laboratory supply air
◊ Air for electrostatic painting
◊ Coordinate measuring machines
◊ Photo processing equipment
◊ NEMA 7 hazardous environments
◊ Graphic arts equipment
◊ Silk screening
◊ Air for air bearings
◊ Laboratory instruments
◊ Fluid agitation
◊ Distilling equipment
◊ Dental air
◊ Freeze-up prevention
◊ Ozone generators
◊ Dust collectors
◊ Paint spray booths
◊ Air logic applications
◊ Air for air brakes

GUARDSMAN II Modular Oil Vapor Removal (Adsorbing) Filters

BFC70-E9 Models
Port Sizes: 1/4, 3/8, 1/2

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

An adsorbing filter must be preceded by a coalescing filter, and these filters should be preceded by a general purpose filter. Such a trio of filters constitutes a *Clean Air Package* that will provide air with no more than 0.01 mg of oil per cubic meter. For such clean air assemblies see following pages.

- ◊ **Modular or inline mounting.**
- ◊ **Filter cartridge contains activated carbon**
- ◊ **Aluminum bowl. Optional extended bowl with higher flow cartridge.**
- ◊ **Manual drain.**
- ◊ **NPTF port threads; optional SAE or BSPP threads.**

SPECIFICATIONS

Ambient/Media Temperature:
40° to 175°F (4° to 79°C).

Body: Zinc.

Bowl: 6-Ounce (180-ml) capacity aluminum. Optional 10-ounce (300-ml) extended aluminum bowl has higher flow filter cartridge.

Bowl Drain: Manual.

Bowl Ring: Nylon.

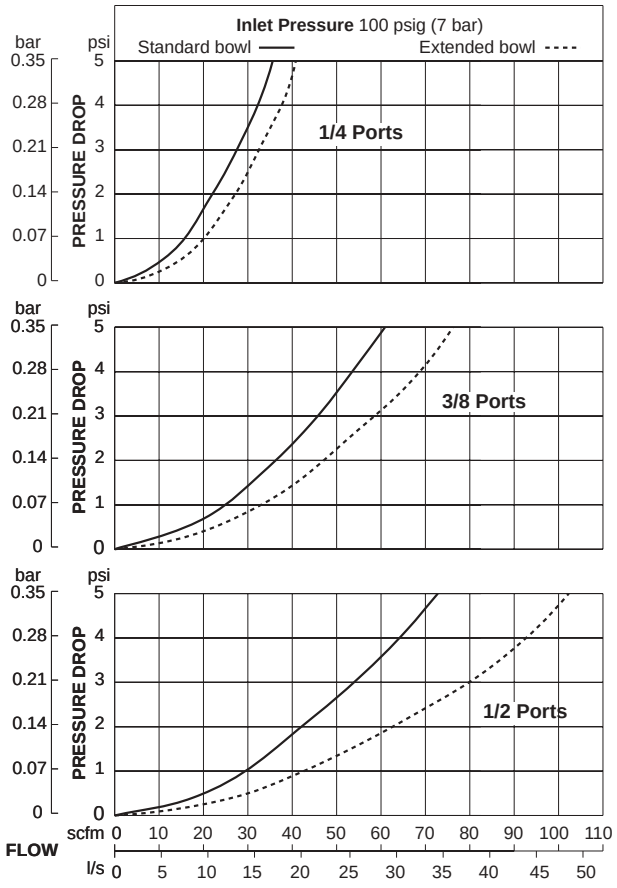
Filter Cartridge: Activated carbon.

Fluid Media: Compressed air.

Inlet Pressure: 200 psig (14 bar) maximum.

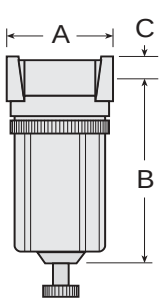
Seals: Nitrile.

FLOW CHARTS

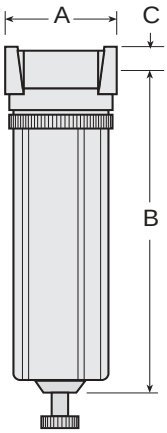


DIMENSIONS inches (mm)

Bowl	A	B	C	Depth	Weight lb (kg)
Standard	2.7 (67)	5.1 (129)	0.63 (16)	2.4 (60)	1.50 (0.68)
Extended	2.7 (67)	8.1 (206)	0.63 (16)	2.4 (60)	1.75 (0.80)

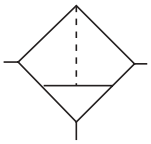


Standard Bowl



Extended Bowl

ISO Filter Symbol



Manual Drain

REPLACEMENT FILTER ELEMENT KITS

Bowl	Kit Number
Standard (Std cartridge)	A60F-29E9
Extended	A60F-32E9

ORDERING INFORMATION

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

BFC 70 – 2E9 ☆

BOWL SIZE
Standard 6-ounce bowl 70
Extended 10-ounce bowl with higher flow filter cartridge 70H

For BSPP port threads add W to the end of the model number.

PORT SIZE
1/4 NPTF 2E9
3/8 NPTF 3E9
1/2 NPFT 4E9
9/16-18 UNF SAE S6E9

GUARDSMAN II
Clean Air Package

BMFDFCDFC70-E9 Models
Port Sizes: 1/4, 3/8, 1/2

- **Modular or inline mounting.**
- **5-μm-rated polyethylene general purpose filter element.**
- **0.3-μm-rated coalescing filter element; optional 0.01-μm element.**
- **Metal bowls. Clear nylon sight glasses on general purpose and coalescing filters. Bowls rotatable for easy readability.**
- **Optional extended bowls include higher capacity filter elements for coalescing and adsorbing filters.**
- **Internal automatic filter drain for general purpose and coalescing filters. Manual drain for adsorbing filter.**
- **Differential pressure gauge on coalescing filter to indicate when filter element needs changing.**
- **NPTF port threads; optional SAE or BSPP threads.**

These assemblies consist of three filters: a general purpose filter, a coalescing filter, and an adsorbing filter. The general purpose filter removes gross contaminants, while the coalescing filter removes oil mists, aerosols, and minute particles. Finally, the adsorbing filter virtually eliminates odors from Freons, alcohols, esters, ketones, and up to 99% of most hydrocarbons.

SPECIFICATIONS

Ambient/Media Temperature:
40° to 175°F (4° to 79°C).

Body: Zinc.

Bowls: 6-Ounce (180-ml) capacity aluminum. Clear nylon sight glasses on general purpose and coalescing filters. Bowls are rotatable for easy readability. Optional 10-ounce (300-ml) extended aluminum bowls have higher flow elements for coalescing and adsorbing filters.

Bowl Ring: Nylon.

Filter Bowl Drains:
Internal automatic drains for general purpose and coalescing filters; manual drain for adsorbing filter.

Filter Elements: *General purpose:* 5-μm-rated polyethylene; optional 5-μm sintered bronze.
Coalescing: 0.3-μm-rated borosilicate glass fiber; optional 0.01-μm-rated element.
Adsorbing: Activated carbon with urethane seals.

Fluid Media: Compressed air.

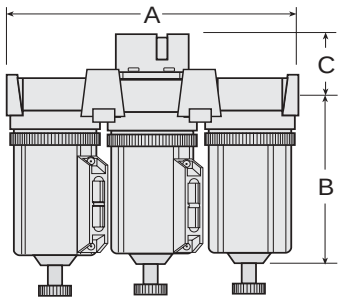
Inlet Pressure:
Minimum: 15 psig (1 bar).
Maximum: 200 psig (14 bar).

AIR FLOW and CONSTRUCTION DATA
See *Flow Charts* and *Specifications* for individual assembly components on preceding pages.

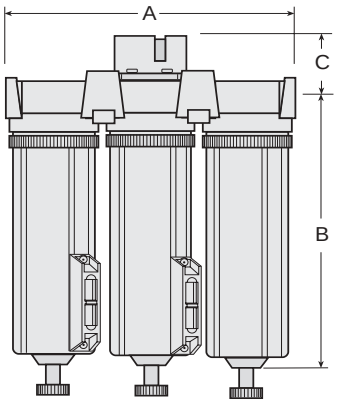
DIMENSIONS inches (m)

Bowl	A	B	C	Depth	Weight lb (kg)
Standard	8.4 (213)	5.1 (129)	1.8 (45)	2.4 (60)	5.00 (2.27)
Extended	8.4 (213)	8.1 (206)	1.8 (45)	2.4 (60)	5.25 (2.39)

Standard Bowls



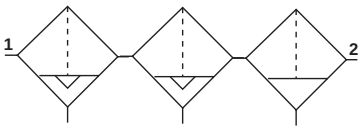
Extended Bowls



REPLACEMENT FILTER ELEMENT KITS

Element	Model Usage	Kit Number
5-μm Plastic (Std)	General purpose filter	A60F-03PE5
5-μm Bronze	General purpose filter	KA60F-03E5
0.3-μm (Std) Coalescing	Standard bowl Extended bowl	A60F-29 A60F-32
0.01-μm Coalescing	Standard bowl Extended bowl	A60F-29E8 A60F-32E8
Adsorbing	Standard bowl Extended bowl	A60F-29E9 A60F-32E9

ISO Clean Air Package Symbol



ORDERING INFORMATION

Change the letters in the sample model number below to specify the *Clean Air Package* you want.

BMFDFCDFC 70 – 2E9 Y ✲

BOWL SIZE
Standard 6-ounce bowls 70
Extended 10-ounce bowls 70H

PORT SIZE
1/4 NPTF 2E9
3/8 NPTF 3E9
1/2 NPTF 4E9
9/16-18 UNF SAE S6E9

For BSPP port threads add W to the end of the model number.

OPTIONS
None ..... Remove Y
5-μm sintered bronze general purpose filter element E5
0.01-μm coalescing filter element E8

Full-Size SERIES 380 Modular Oil Vapor Removal (Adsorbing) Filters

SPECIFICATIONS

Ambient/Media Temperature:
Plastic bowl: 40° to 125°F (4° to 52°C).
Metal bowl: 40° to 175°F (4° to 79°C).

Body: Zinc.

Bowl: 9-Ounce (270-ml) capacity polycarbonate plastic with steel shatterguard; optional aluminum bowl. Optional 15-ounce (450-ml) extended aluminum bowl includes a higher capacity adsorbing cartridge.

Bowl Drain: Manual.

Bowl Ring: Nylon.

Cap Color: Accent grey. Yellow, red, and blue optional.

Filter Cartridge: Activated carbon with urethane seals.

Fluid Media: Compressed air.

Inlet Pressure:
Plastic bowl: 150 psig (10 bar) maximum.
Metal bowl: 200 psig (14 bar) maximum.

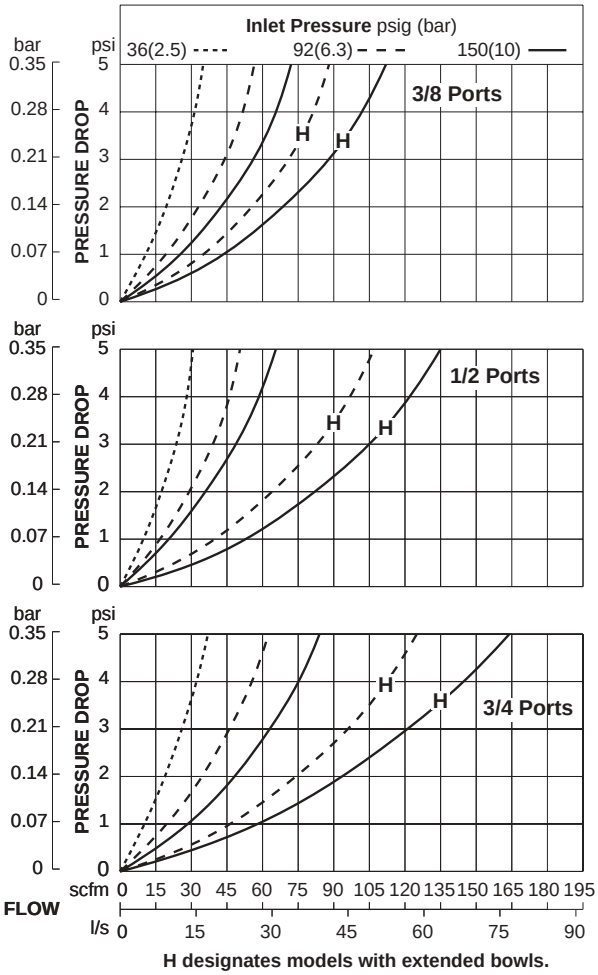
Seals: Nitrile.

FC380-E9 Models Port Sizes: 3/8, 1/2, 3/4

The adsorbing filter is designed to remove vapors from the air line that cannot be removed by a coalescing filter. It produces air free of oil and hydrocarbons as required by industries such as food processing, electronics, and instrumentation. An adsorbing filter preceded by a coalescing filter and a general purpose filter constitute a *Clean Air Package* as shown on the following pages.

- **Modular or inline mounting.**
- **Filter cartridge contains activated carbon.**
- **Polycarbonate plastic bowl with steel shatter-guard; optional aluminum bowl. Optional extended aluminum bowl with higher flow filter cartridge.**
- **Manual drain.**
- **NPTF port threads; optional SAE or BSPP threads.**

FLOW CHARTS

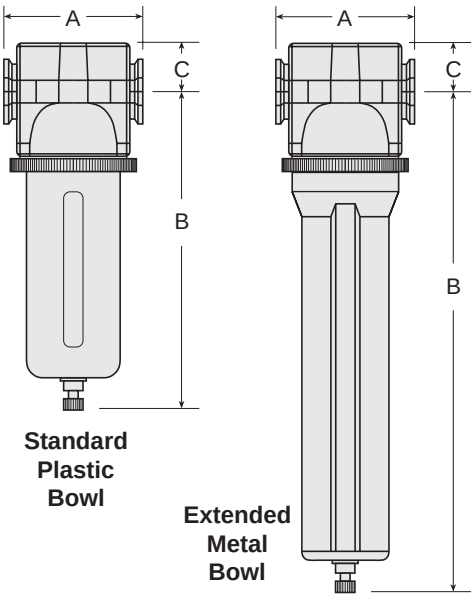


H designates models with extended bowls.

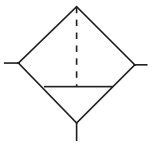
DIMENSIONS inches (mm)

Bowl	A	B †	C	Depth	Weight lb (kg)
Polycarbonate	3.5 (88)	7.7 (195)	1.1 (28)	2.9 (73)	2.13 (0.97)
9-Ounce Metal	3.5 (88)	7.6 (193)	1.1 (28)	3.1 (79)	2.13 (0.97)
Extended Metal	3.5 (88)	11.2 (284)	1.1 (28)	3.1 (79)	2.31 (1.05)

† Bowl removal clearance: add 3.1 (79) for 9-ounce bowl; 6.1 (155) for extended bowl.



ISO Filter Symbols



Manual Drain

REPLACEMENT FILTER ELEMENT KITS

Bowl Size	Kit Number
Standard (Std element)	A115-117E9
Extended	A115-118E9

ORDERING INFORMATION

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

B FC 380 – 3E9 Y ✲

BOWL TYPE
Plastic with guard ..... Remove B
Metal ..... B

BOWL SIZE
Standard 9-ounce bowl 380
Extended 15-ounce high-flow (metal only) 380H

For BSPP port threads add W to the end of the model number.

OPTIONS
None ..... Remove Y
Cap color: Grey is standard.
MP yellow C1
Red C2
Mid blue C3

PORT SIZE
3/8 NPTF 3E9
1/2 NPTF 4E9
3/4 NPTF 6E9
3/4-16 UNF SAE S8E9
7/8-14 UNF SAE S10E9

Full-Size SERIES 380 Modular Clean Air Package

The general purpose filter in this assembly removes gross contaminants, while the coalescing filter removes oil mists, aerosols, and minute particles. Finally, the adsorbing filter effectively eliminates odors from Freons, alcohols, esters, ketones, and up to 99% of most hydrocarbons.

SPECIFICATIONS

Ambient/Media Temperature:
Plastic bowls: 40° to 125°F (4° to 52°C).
Metal bowls: 40° to 175°F (4° to 79°C).

Bowls: 9-Ounce (270-ml) capacity polycarbonate plastic bowls with steel shatterguards. Optional aluminum bowls; clear nylon sight glasses on general purpose and coalescing units. Optional 15-ounce (450-ml) extended aluminum bowls with higher flow elements for coalescing and adsorbing filters.

Cap Color: Accent grey. Yellow, red, blue optional.

Filter Drains:
Internal automatic drains for general purpose and coalescing filters; manual drain for adsorbing filter.

Filter Elements:
General Purpose: 5-μm-rated polyethylene.
Coalescing: 0.3-μm-rated borosilicate glass-fiber; optional 0.01-μm-rated element.
Adsorbing: Activated carbon with urethane seals.

Fluid Media: Compressed air.

Inlet Pressure:
15 psig (1 bar) minimum with automatic drain.
Plastic bowls: 150 psig (10 bar) maximum.
Metal bowls: 200 psig (14 bar) maximum.

AAM1D0A1A9 Models Port Sizes: 3/8, 1/2, 3/4

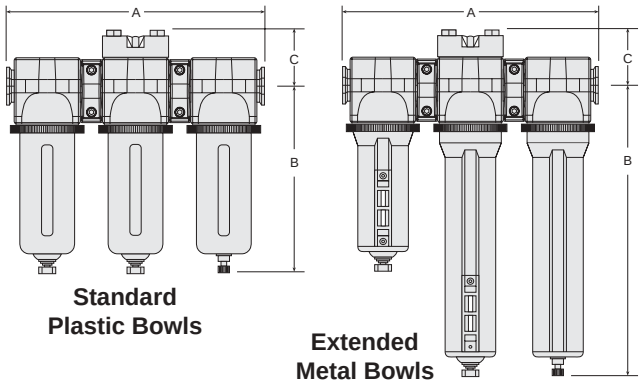
- **General purpose filter (FD380) with 5-μm-rated polyethylene filter element.**
- **Coalescing filter with 0.3-μm-rated coalescing element; optional 0.01-μm element.**
- **Adsorbing filter with activated carbon element.**
- **Modular or inline mounting.**
- **Polycarbonate plastic bowls with steel shatterguards; optional metal bowls.**
- **Optional extended metal bowls for coalescing and adsorbing filters include higher flow filter elements.**
- **Internal automatic drains for general purpose and coalescing filters. Manual drain for adsorbing filter.**
- **Differential pressure gauge on coalescing filter to indicate when element needs changing.**
- **NPTF port threads; optional SAE or BSPP threads.**

AIR FLOW and CONSTRUCTION DATA
See *Flow Charts* and *Specifications* for individual assembly components on preceding pages.

DIMENSIONS inches (mm)

Bowls	A	B †	C	Depth	Weight lb (kg)
Standard	10.9 (276)	7.7 (195)	2.2 (55)	2.9 (73)	6.63 (3.01)
Extended	10.9 (276)	11.2 (284)	2.2 (55)	2.9 (73)	7.00 (3.18)

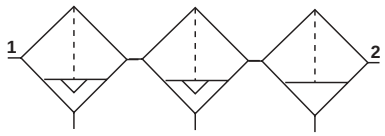
† Bowl removal clearance: add 3.4 (86) for 9-ounce bowl; 6.1 (155) for extended bowl.



Standard Plastic Bowls

Extended Metal Bowls

ISO Clean Air Package Symbol



REPLACEMENT FILTER ELEMENT KITS

Element Type	Kit Number
General Purpose	
5-μm (Std element)	A115-106PE5
Coalescing:	
0.3 μm Standard bowl (Std element)	A115-117
0.3 μm Extended bowl	A115-118
0.01 μm Standard bowl	A115-117E8
0.01 μm Extended bowl	A115-118E8
Adsorbing:	
Standard bowl (Std cartridge)	A115-117E9
Extended bowl	A115-118E9

ORDERING INFORMATION

Change the letters in the sample model number below to specify the *Clean Air Package* you want.

A A M 1 D 0 A 1 A 9 ✲

CAP COLOR
Accent grey ..... A
MP yellow ..... B
Red C
Mid blue ..... D

BOWL TYPE
9-Ounce plastic ..... A
9-Ounce metal ..... B
Metal: 9-ounce general purpose filter; 15-ounce coalescing and adsorbing filters ..... D

COALESCING FILTER ELEMENT
0.3-μm element (Std) ..... D
0.01-μm element ..... E

DRAIN TYPES
Manual drain for general purpose and coalescing filters 0
Internal automatic drain for general purpose and coalescing filters 1

PORT SIZE
3/8 NPTF 3
1/2 NPTF 4
3/4 NPTF 6
3/8 BSPP C
1/2 BSPP ..... D
3/4 BSPP ..... E
3/4-16 UNF SAE ..... F
7/8-14 UNF SAE ..... G

DIFFERENTIAL PRESSURE GAUGES: For additional gauge options see page 243.
No gauge on coalescing filter ... 0
Small gauge (K103-151) on coalescing filter (standard) ... 9
Large gauge (106-35) on coalescing filter ..... A

PORTS & MOUNTING BRACKETS
No end ports or brackets ..... A
Mounting brackets only ..... J
Female end ports with mounting brackets ..... K

MP-FILENCO Dryer/Filters

Series 25
Port Size: 1/4

Shown with piping for moisture indicator, and automatic float drain.

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.

Mounting Flanges

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 82 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 dessicants 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.

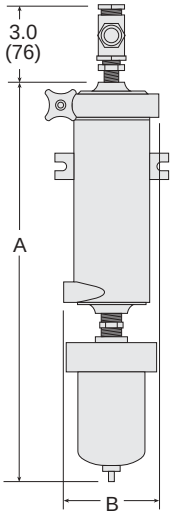
CLAY DESICCANT (CD) — This is a general purpose desiccant which produces initial dew point depressions of 20 to 25 degrees Fahrenheit. It is effective for removing both water and oil, and requires no air preparation. Life expectancy is up to three months, depending on humidity, flow rate, and frequency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

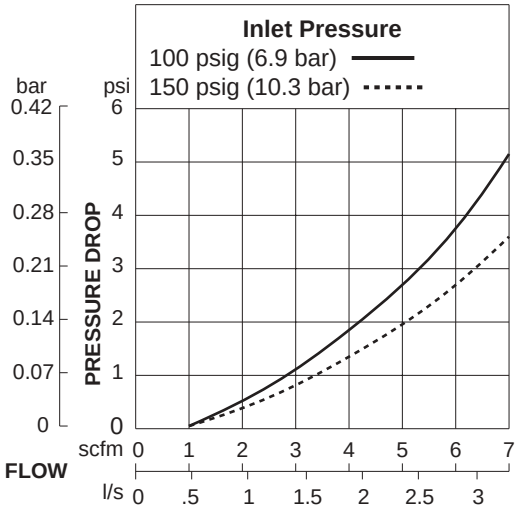
MOLECULAR SIEVE DESICCANTS (MS) — Highly porous alumina-silicate complexes in this desiccant produce exceptionally low pressure dew points, as much as 80 Fahrenheit degrees initially. A dryer/filter with this desiccant must be preceded by a coalescing filter. The presence of oil in the air will contaminate 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 No Drain	A with Drain D1, D2 D3, D4	D5	D6	D7	D8	B	Depth
25	7.0 (178)	12.3 (311)	9.5 (241)	10.5 (267)	11.6 (295)	9.5 (241)	2.6 (67)	3.5 (89)



FLOW CHART



REPLACEMENT DESICCANT ELEMENT KITS

Description	Quantity	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 ✲

DESICCANT
Clay ..... CD
Clay with carbon ..... CDC
Molecular seive ..... MS

DRAIN
None ..... Remove D1
Polycarbonate bowl; plastic bowl guard:
Manual drain D1
Automatic float drain D2
Metal bowl:
Manual drain with sight glass D3
Automatic float drain D4
Air poppet (actuator required);
24v heated drain; temperature controlled D6
Air poppet with 24v fixed cycle electronic timer D7
Warrior electronic 24v drain D8

For BSPP port threads add W to the end of the model number.

MOISTURE INDICATOR
None ..... Remove M
With moisture indicator ..... M

MP-FILENCO Dryer/Filters

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

Series 36 **Series 38**

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 82 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.

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.

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.

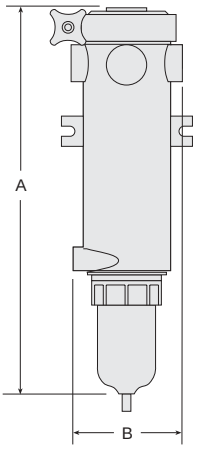
CLAY DESICCANT (CD) — This is a general purpose desiccant which produces initial dew point depressions of 20 to 25 degrees Fahrenheit. It is effective for removing both water and oil, and requires no air preparation. Life expectancy is up to three months, depending on humidity, flow rate, and frequency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

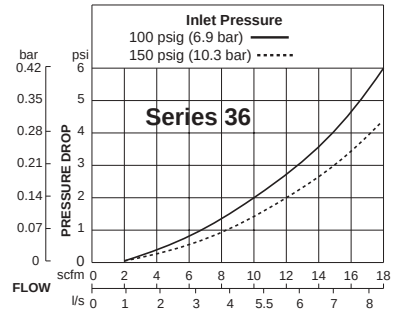
MOLECULAR SIEVE DESICCANTS (MS) — Highly porous alumina-silicate complexes in this desiccant produce exceptionally low pressure dew points, as much as 80 Fahrenheit degrees initially. A dryer/filter with this desiccant must be preceded by a coalescing filter. The presence of oil in the air will contaminate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

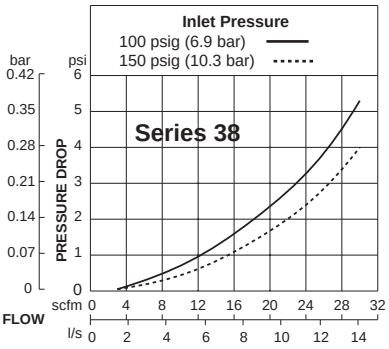
DIMENSIONS inches (mm)

Series	A No Drain	A with Drain D1, D2 D3, D4	D5	D6	D7	D8	B	Depth
36	9.5 (241)	13.5 (343)	12.4 (314)	12.3 (311)	13.4 (295)	12.4 (314)	4.0 (102)	5.0 (127)
38	11.5 (178)	15.5 (311)	14.4 (365)	14.3 (362)	15.4 (391)	14.4 (314)	4.5 (114)	5.0 (127)



FLOW CHARTS





REPLACEMENT DESICCANT ELEMENT KITS

Description	Quantity	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 ☆

DESICCANT
Clay ..... CD
Clay with carbon ..... CDC
Molecular seive ..... MS

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

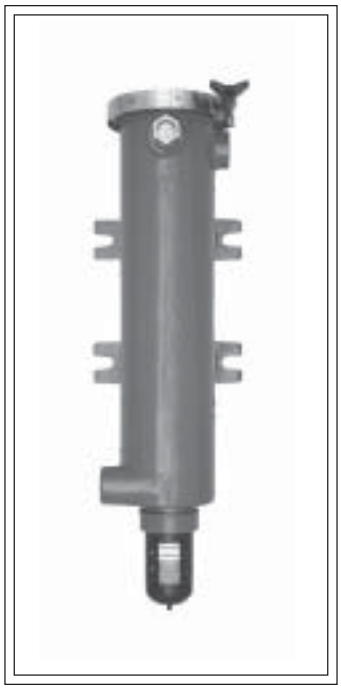
For BSPP port threads add W to the end of the model number.

MOISTURE INDICATOR
None ..... Remove M
With moisture indicator ..... M

DRAIN
None ..... Remove D1
Polycarbonate bowl; plastic bowl guard:
Manual drain D1
Automatic float drain D2
Metal bowl with sight glass:
Manual drain D3
Automatic float drain D4
Air poppet (actuator required); 24v heated drain; temperature controlled D6
Air poppet with 24v fixed cycle electronic timer D7
Warrior electronic 24v drain D8

MP-FILENCO Dryer/Filters

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 82 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.

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.

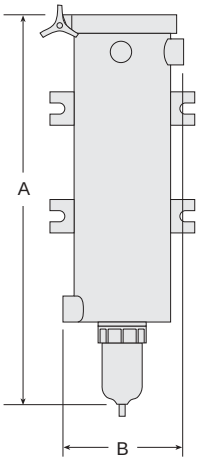
CLAY DESICCANT (CD) — This is a general purpose desiccant which produces initial dew point depressions of 20 to 25 degrees Fahrenheit. It is effective for removing both water and oil, and requires no air preparation. Life expectancy is up to three months, depending on humidity, flow rate, and frequency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

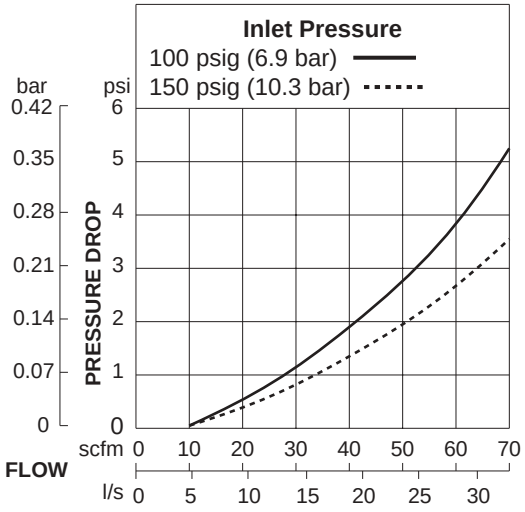
MOLECULAR SIEVE DESICCANTS (MS) — Highly porous alumina-silicate complexes in this desiccant produce exceptionally low pressure dew points, as much as 80 Fahrenheit degrees initially. A dryer/filter with this desiccant must be preceded by a coalescing filter. The presence of oil in the air will contaminate 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 No Drain	A with Drain D1, D2 D3, D4	D5	D6	D7	D8	B	Depth
418	20 (508)	24 (610)	22.9 (581)	22.8 (578)	23.9 (606)	22.9 (581)	6.0 (152)	6.5 (165)



FLOW CHARTS



REPLACEMENT DESICCANT ELEMENT KITS

Description	Quantity	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 ✲

For BSPP port threads add W to the end of the model number.

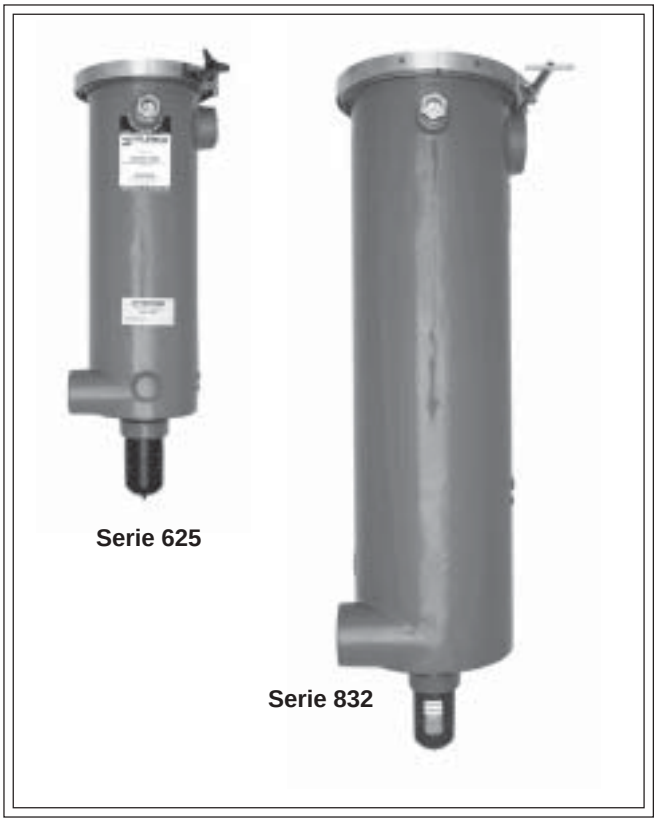
DESICCANT
Clay ..... CD
Clay with carbon ..... CDC
Molecular seive ..... MS

MOISTURE INDICATOR
None ..... Remove M
With moisture indicator ..... M

DRAIN
None ..... Remove D1
Polycarbonate bowl; plastic bowl guard:
Manual drain D1
Automatic float drain D2
Metal bowl with sight glass:
Manual drain D3
Automatic float drain D4
Air poppet (actuator required);
24v heated drain; temperature controlled D6
Air poppet with 24v fixed cycle electronic timer D7
Warrior electronic 24v drain D8

MP-FILENCO Dryer/Filters

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



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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.

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.

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.

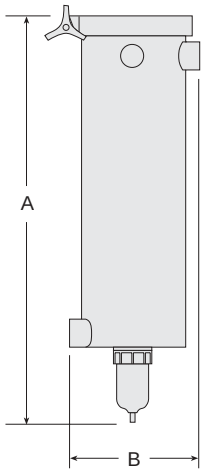
CLAY DESICCANT (CD) — This is a general purpose desiccant which produces initial dew point depressions of 20 to 25 degrees Fahrenheit. It is effective for removing both water and oil, and requires no air preparation. Life expectancy is up to three months, depending on humidity, flow rate, and frequency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

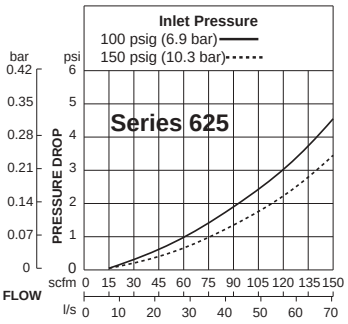
MOLECULAR SIEVE DESICCANTS (MS) — Highly porous alumina-silicate complexes in this desiccant produce exceptionally low pressure dew points, as much as 80 Fahrenheit degrees initially. A dryer/filter with this desiccant must be preceded by a coalescing filter. The presence of oil in the air will contaminate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

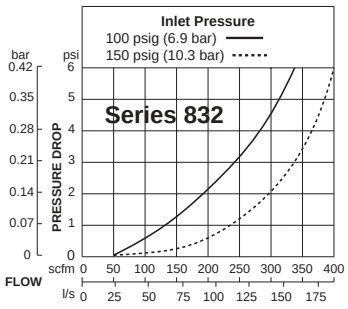
DIMENSIONS inches (mm)

Series	A No Drain	A with Drain D1, D2 D3, D4	D5	D6	D7	D8	B	Depth
625	21.3 (540)	25.3 (641)	24.1 (616)	24.0 (610)	25.1 (638)	24.1 (616)	8.5 (216)	8.0 (203)
832	34 (864)	38 (965)	37.6 (956)	37.5 (953)	39.6 (1007)	37.6 (956)	10 (254)	10.5 (267)



FLOW CHARTS





REPLACEMENT DESICCANT ELEMENT KITS

Description	Quantity	Kit Number
Clay Desiccant Elements		
Series 625	4	CD-625NRE
Series 832	4	CD-832NRE
Clay with Activated Carbon		
Series 625	4	CDC-625NRE
Series 832	4	CDC-832NRE
Molecular Sieve Elements		
Series 625	4	MS-625NRE
Series 832	4	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 ✲

DESICCANT
Clay ..... CD
Clay with carbon ..... CDC
Molecular seive ..... MS

SIZE
1-1/2 NPTF — 150 scfm .. 625-12
2 NPTF — 300 scfm ... 832-16

For BSPP port threads add W to the end of the model number.

MOISTURE INDICATOR
None ..... Remove M
With moisture indicator ..... M

DRAIN
None ..... Remove D1
Polycarbonate bowl; plastic bowl guard:
Manual drain D1
Automatic float drain D2
Metal bowl with sight glass:
Manual drain D3
Automatic float drain D4
Air poppet (actuator required); 24v heated drain; temperature controlled D6
Air poppet with 24v fixed cycle electronic timer D7
Warrior electronic 24v drain D8

Membrane Dryer/Filter Clean Air Packages

Dryer Series 600 to 603 Port Sizes: 3/8, 1/2

- **Package consists of a membrane air dryer preceded by a general purpose filter and a coalescing filter.**
- **Four dryer models; outlet flow rates up to 8.7 scfm (4110 cm³/s) at 40°F pressure dew point.**
- **Air can be dried down to a pressure dew point of -40°F (-40°C).**
- **Dryer has no moving parts and uses no electricity.**
- **There is no desiccant or refrigerant to replace.**
- **NPTF port threads; optional BSPP threads.**
- **Can meet ISO purity class ISO 8573-1 1 2 1**

PRE-FILTRATION MAINTENANCE KITS

(Membrane dryer element not included.)

Dryer Series	Port Size	Adsorbing Filter	Kit Number
600	3/8, 1/2		
601	3/8, 1/2	Without	CP-ELM-1A
602	3/8, 1/2	With	CP-ELM-1B
603	3/8, 1/2		

SPECIFICATIONS

Ambient/Media Temperature:
40° to 150°F (4° to 66°C).

Check Valves: Model V60 optional. For use as the first element and/or the last element in the package.

Pre-Filters: 9-Ounce (270-ml) aluminum bowls with sight glasses and internal float drains.
General Purpose: BF3A380-C4 with 5-μm element.
Coalescing: BFC3A380-C4E8 with 0.01-μm element; without differential pressure gauge.
Optional Adsorbing Filter: Manual drain BFC380-C4E9.

Lockout Valve: Model V380 optional.

Flow Rates: See chart below.

Fluid Media: Compressed air.

Inlet Pressure: 200 psig (13.8 bar) maximum.

FLOW RATES scfm (cm^3/s)

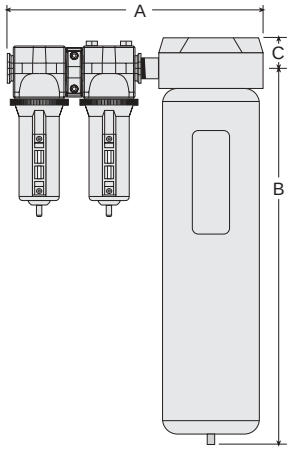
Dryer Series	Port Size	Dew Point: 40°F (4.4°C) Inlet	Dew Point: 40°F (4.4°C) Outlet	Dew Point: -40°F (-40°C) Inlet	Dew Point: -40°F (-40°C) Outlet
600	3/8, 1/2	1.15 (543)	0.94 (444)	0.38 (179)	0.16 (75.5)
601	3/8, 1/2	3.56 (1680)	2.99 (1410)	1.51 (713)	0.94 (444)
602	3/8, 1/2	7.84 (3700)	6.43 (3030)	3.72 (1760)	1.86 (878)
603	3/8, 1/2	10.5 (4960)	8.7 (4110)	4.7 (2220)	2.8 (1320)

Flow capacities are established in accordance with CAGI Standard ADF700: *Membrane Compressed Air Dryers—Methods for Testing and Rating.* Maximum operating pressure is 200 psig (1379 kPa), and maximum operating temperature is 150°F (65.6°C). Inlet compressed air is at 100°F (37.8°C) dew point and 100 psig (689.5 kPa). Conforms to ANSI/CAGI Standard ADF700—1998.

DIMENSIONS inches (mm)

Dim	Dryer Series 600*	601*	602*	603*
A (3/8)	12.3 (311)	12.3 (311)	12.3 (311)	12.3 (311)
A (1/2)	12.6 (321)	12.6 (321)	12.6 (321)	12.6 (321)
B	10.3 (260)	14.3 (362)	18.3 (464)	26.1 (664)
C	1.5 (38)	1.5 (38)	1.5 (38)	1.5 (38)
Depth	3.8 (95)	3.8 (95)	3.8 (95)	3.8 (95)

* Add 2.5 (64) to the A dimension for V380 lockout valve; 4.4 (111) for adsorbing filter. For each check valve add 3.8 (96) with 3/8 ports, 4.3 (109) with 1/2 ports.



ORDERING INFORMATION

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

CP- M 0 B 1 A 0 A 0 A 3

CONNECTION:
Modular connectors ..... M
Pipe nipples ..... P

LOCKOUT VALVE
No lockout valve 0
Lockout valve (V380) 1

DRYER SERIES
600 ..... A
601 ..... B
602 C
603 ..... D

ADSORBING FILTER:
None 0
BFC380-C4E9 filter 1

DIFFERENTIAL PRESSURE GAUGES
(N.O.- normally open; N.C.- normally closed)

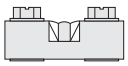
G.P. Filter	Coalescing Filter	
None	None	A
None	Small gauge	B
None	Large gauge	C
None	Large gauge with N.O. reed switch	D
Small gauge	Small gauge	F
Large gauge	Large gauge	G
Large gauge with N.O. reed switch	Large gauge with N.O. reed switch	H
None	Large gauge with N.C. reed switch	J
Large gauge with N.C. reed switch	Large gauge with N.C. reed switch	K

PORT SIZE
3/8 NPTF 3
1/2 NPTF 4
3/8 BSPP C
1/2 BSPP ..... D

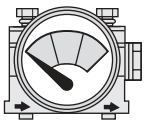
DRYER MOUNTING BRACKET
None ..... A
Appropriate assembly ..... B

CHECK VALVES
No check valve 0
Check valves before inlet port and after dryer 1
Check valve only after dryer 2

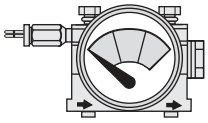
DIFFERENTIAL PRESSURE GAUGES



Small Slide Gauge
K103-151



Large Dual Face Gauge
106-35



Large Dual Face Gauge with Reed Switch
106-35E (Normally Open)
106-35EC (Normally Closed)

Membrane Dryer/Filter Clean Air Packages

Dryer Series 604 Port Sizes: 3/4, 1

- **Package consists of a membrane air dryer preceded by a general purpose filter and a coalescing filter.**
- **Outlet flow rate up to 16.1 scfm (7600 cm³/s) at 40°F pressure dew point.**
- **Air can be dried down to a pressure dew point of -40°F (-40°C).**
- **Dryer has no moving parts and uses no electricity.**
- **There is no desiccant or refrigerant to replace.**
- **NPTF port threads; optional BSPP threads.**
- **Can meet ISO purity class ISO 8573-1 1 2 1**

SPECIFICATIONS

Ambient/Media Temperature:
40° to 150°F (4° to 66°C).

Check Valves: Model V60 optional. For use as the first element and/or the last element in the package.

Pre-Filters: Aluminum bowls with sight glasses and internal float drains.
General Purpose: With 5-µm element; BF3A380-C4 with 3/4 ports; BF3A100 with 1 ports.
Coalescing: With 0.01-µm element; BFC3A380-C4E8 with 3/4 ports; BFC3A201-E8NG with 1 ports. Without differential pressure gauge.
Optional Adsorbing Filter: Manual drain BFC380-C4E9; with 3/4 ports only.

Lockout Valve: Optional. Model V380 for 3/4 ports. Model V45 with M200 muffler for 1 ports.

Flow Rates: See chart below.

Fluid Media: Compressed air.

Inlet Pressure: 200 psig (13.8 bar) maximum.

PRE-FILTRATION MAINTENANCE KITS

(Membrane dryer element not included.)

Dryer Series	Port Size	Adsorbing Filter	Kit Number
604	3/4	Without	CP-ELM-1A
	3/4	With	CP-ELM-1B
	1	Without	CP-ELM-2A

FLOW RATES scfm (cm³/s)

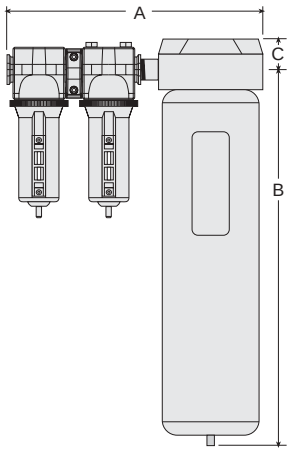
Dryer Series	Port Size	Dew Point: 40°F (4.4°C) Inlet	Dew Point: 40°F (4.4°C) Outlet	Dew Point: -40°F (-40°C) Inlet	Dew Point: -40°F (-40°C) Outlet
604	3/4, 1	19.4 (9160)	16.1 (7600)	8.3 (3920)	5.0 (2360)

Flow capacities are established in accordance with CAGI Standard ADF700: *Membrane Compressed Air Dryers—Methods for Testing and Rating.* Maximum operating pressure is 200 psig (1379 kPa), and maximum operating temperature is 150°F (65.6°C). Inlet compressed air is at 100°F (37.8°C) dew point and 100 psig (689.5 kPa). Conforms to ANSI/CAGI Standard ADF700—1998.

DIMENSIONS inches (cm)

A (3/4)	**A** (1)	**B**	**C**	**Depth**
13.6 † (346)	16.4 * (418)	18.6 (473)	1.6 (41)	5.0 (127)

† Add 2.5 (64) to the A dimension for V380 lockout valve; 4.8 (121) for adsorbing filter. For each check valve add 5.7 (145) with 3/4 ports, 5.6 (142) with 1 ports.
* Add 7.0 (38) to the A dimension for V45 lockout valve.



Model with 3/4 ports shown.

ORDERING INFORMATION

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

CP- M 0 B 1 E 0 A 0 A 6

CONNECTION: Pipe nipples *required* for 1" ports.
Modular connectors ..... M
Pipe nipples ..... P

LOCKOUT VALVE
No lockout valve 0
V380 lockout (3/4 ports only) ... 1
V45 lockout (1 ports only) 2

GENERAL PURPOSE FILTER
See *Specifications* on facing page.
3/4 Ports ..... B
1 Ports C

COALESCING FILTER
See *Specifications* on facing page.
3/4 Ports 1
1 Ports 2

PORT SIZE
3/4 NPTF 6
1 NPTF 8
3/4 BSPP ..... H
1 BSPP ..... J

DRYER MOUNTING BRACKET
None ..... A
Appropriate bracket ..... B

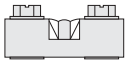
CHECK VALVES
No check valve 0
Check valves before inlet port and after dryer 1
Check valve only after dryer 2

DIFFERENTIAL PRESSURE GAUGES
(N.O.- normally open; N.C.- normally closed)

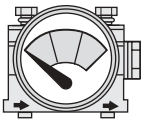
G.P. Filter	Coalescing Filter	
None	None	A
None	Small gauge	B
None	Large gauge	C
None	Large gauge with N.O. reed switch	D
Small gauge	Small gauge	F
Large gauge	Large gauge	G
Large gauge with N.O. reed switch	Large gauge with N.O. reed switch	H
None	Large gauge with N.C. reed switch	J
Large gauge with N.C. reed switch	Large gauge with N.C. reed switch	K

ADSORBING FILTER: Only with 3/4 ports.
None 0
BFC380-C4E9 filter 1

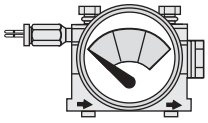
DIFFERENTIAL PRESSURE GAUGES



Small Slide Gauge
K103-151



Large Dual Face Gauge
106-35



Large Dual Face Gauge with Reed Switch
106-35E (Normally Open)
106-35EC (Normally Closed)

Membrane Dryer/Filter Clean Air Packages

Dryer Series 605 Port Sizes: 3/4, 1

- **Package consists of a membrane air dryer preceded by a general purpose filter and a coalescing filter.**
- **Outlet flow rate up to 25.1 scfm (11800 cm³/s) at 40°F pressure dew point.**
- **Air can be dried down to a pressure dew point of -40°F (-40°C).**
- **Dryer has no moving parts and uses no electricity.**
- **There is no desiccant or refrigerant to replace.**
- **NPTF port threads; optional BSPP threads.**
- **Can meet ISO purity class ISO 8573-1 1 2 1**

SPECIFICATIONS

Ambient/Media Temperature:
40° to 150°F (4° to 66°C).

Check Valves: Model V60 optional. For use as the first element and/or the last element in the package.

Pre-Filters: Aluminum bowls with sight glasses and internal float drains.
General Purpose: With 5-µm element; BF3A380-C4 with 3/4 ports; BF3A100 with 1 ports.
Coalescing: With 0.01-µm element; extended bowl BFC3A380H-C4E8 with 3/4 ports; BFC3A201-E8NG with 1 ports. Without differential pressure gauge.
Optional Adsorbing Filter: Extended bowl, manual drain BFC380H-C4E9; with 3/4 ports only.

Lockout Valve: Optional. Model V380 for 3/4 ports. Model V45 with M200 muffler for 1 ports.

Flow Rates: See chart below.

Fluid Media: Compressed air.

Inlet Pressure: 200 psig (13.8 bar) maximum.

PRE-FILTRATION MAINTENANCE KITS

(Membrane dryer element not included.)

Dryer Series	Port Size	Adsorbing Filter	Kit Number
605	3/4	Without	CP-ELM-3A
	3/4	With	CP-ELM-3B
	1	Without	CP-ELM-4A

FLOW RATES scfm (cm³/s)

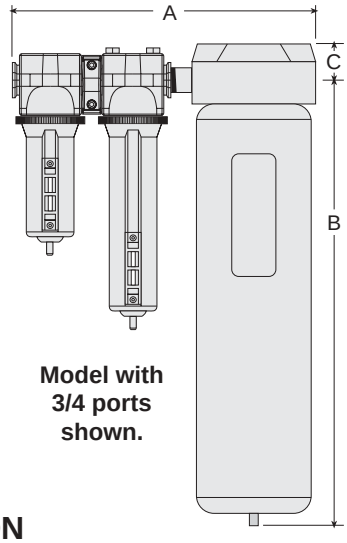
Dryer Series	Port Size	Dew Point: 40°F (4.4°C) Inlet	Dew Point: 40°F (4.4°C) Outlet	Dew Point: -40°F (-40°C) Inlet	Dew Point: -40°F (-40°C) Outlet
605	3/4, 1	30.4 (14300)	25.1 (11800)	13.4 (6320)	8.0 (3780)

Flow capacities are established in accordance with CAGI Standard ADF700: *Membrane Compressed Air Dryers—Methods for Testing and Rating.* Maximum operating pressure is 200 psig (1379 kPa), and maximum operating temperature is 150°F (65.6°C). Inlet compressed air is at 100°F (37.8°C) dew point and 100 psig (689.5 kPa). Conforms to ANSI/CAGI Standard ADF700—1998.

DIMENSIONS inches (cm)

A (3/4)	**A** (1)	**B**	**C**	**Depth**
13.6 † (346)	16.4 * (418)	26.4 (670)	1.6 (41)	5.0 (127)

† Add 2.5 (64) to the A dimension for V380 lockout valve; 4.8 (121) for adsorbing filter. For each check valve add 5.7 (145) with 3/4 ports, 5.6 (142) with 1 ports.
* Add 7.0 (38) to the A dimension for V45 lockout valve.



Model with 3/4 ports shown.

ORDERING INFORMATION

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

CP- M 0 B 3 F 0 A 0 A 6

CONNECTION: Pipe nipples *required* for 1" ports.
Modular connectors ..... M
Pipe nipples ..... P

LOCKOUT VALVE
No lockout valve 0
V380 lockout (3/4 ports only) ... 1
V45 lockout (1 ports only) 2

GENERAL PURPOSE FILTER
See *Specifications* on facing page.
3/4 Ports ..... B
1 Ports C

COALESCING FILTER
See *Specifications* on facing page.
3/4 Ports 3
1 Ports 2

PORT SIZE
3/4 NPTF 6
1 NPTF 8
3/4 BSPP ..... H
1 BSPP ..... J

DRYER MOUNTING BRACKET
None ..... A
Appropriate bracket ..... B

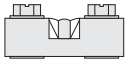
CHECK VALVES
No check valve 0
Check valves before inlet port and after dryer 1
Check valve only after dryer 2

DIFFERENTIAL PRESSURE GAUGES
(N.O.- normally open; N.C.- normally closed)

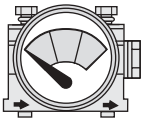
G.P. Filter	Coalescing Filter	
None	None	A
None	Small gauge	B
None	Large gauge	C
None	Large gauge with N.O. reed switch	D
Small gauge	Small gauge	F
Large gauge	Large gauge	G
Large gauge with N.O. reed switch	Large gauge with N.O. reed switch	H
None	Large gauge with N.C. reed switch	J
Large gauge with N.C. reed switch	Large gauge with N.C. reed switch	K

ADSORBING FILTER: Only with 3/4 ports.
None 0
BFC380H-C4E9 filter 3

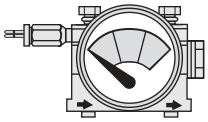
DIFFERENTIAL PRESSURE GAUGES



Small Slide Gauge K103-151



Large Dual Face Gauge 106-35



Large Dual Face Gauge with Reed Switch
106-35E (Normally Open)
106-35EC (Normally Closed)

Membrane Dryer/Filter Clean Air Packages

Dryer Series 606, 607 Port Size: 1

- **Package consists of a membrane air dryer preceded by a general purpose filter and a coalescing filter.**
- **Two dryer models; outlet flow rates up to 71.8 scfm (33900 cm³/s).**
- **Air can be dried down to a pressure dew point of -40°F (-40°C).**
- **Dryer has no moving parts and uses no electricity.**
- **There is no desiccant or refrigerant to replace.**
- **NPTF port threads; optional BSPP threads.**
- **Can meet ISO purity class ISO 8573-1 1 2 1**

SPECIFICATIONS

Ambient/Media Temperature:
40° to 150°F (4° to 66°C).

Check Valves: Model V60 optional. For use as the first element and/or the last element in the package.

Pre-Filters: Aluminum bowls with sight glasses and internal float drains.
General Purpose: BF3A100 with 5-µm filter element.
Coalescing: BFC3A201-E8NG with 0.01-µm filter element. Without differential pressure gauge.
Adsorbing: None available.

Lockout Valve: Optional. Model V45 with M200 muffler.

Flow Rates: See chart below.

Fluid Media: Compressed air.

Inlet Pressure: 200 psig (13.8 bar) maximum.

PRE-FILTRATION MAINTENANCE KITS

(Membrane dryer element not included.)

Dryer Series	Port Size	Adsorbing Filter	Kit Number
606, 607	1	Without	CP-ELM-4A

FLOW RATES scfm (cm^3/s)

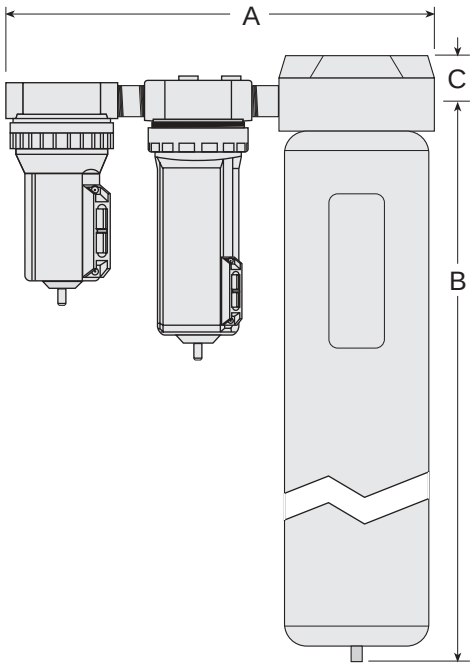
Dryer Series	Port Size	Dew Point: 40°F (4.4°C) Inlet	Dew Point: 40°F (4.4°C) Outlet	Dew Point: -40°F (-40°C) Inlet	Dew Point: -40°F (-40°C) Outlet
606	1	57.2 (27000)	47.1 (22200)	24.6 (11600)	14.5 (6840)
607	1	85.9 (40500)	71.8 (33900)	40.0 (18900)	25.8 (12200)

Flow capacities are established in accordance with CAGI Standard ADF700: *Membrane Compressed Air Dryers—Methods for Testing and Rating.* Maximum operating pressure is 200 psig (1379 kPa), and maximum operating temperature is 150°F (65.6°C). Inlet compressed air is at 100°F (37.8°C) dew point and 100 psig (689.5 kPa). Conforms to ANSI/CAGI Standard ADF700—1998.

DIMENSIONS inches (cm)

Dryer Series	A *	B	C	Depth
606	16.4 (118)	28.3 (718)	1.8 (44)	5.5 (140)
607	19.5 (495)	33.1 (840)	2.3 (57)	6.4 (162)

* Add 7.0 (38) to the A dimension for V45 lockout valve. For each check valve add 5.6 (142).



ORDERING INFORMATION

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

CP- P 0 C 2 G 0 A 0 A 8

LOCKOUT VALVE
No lockout valve 0
V45 lockout 2

DRYER SERIES
606 ..... G
607 ..... H

DIFFERENTIAL PRESSURE GAUGES
(N.O.- normally open; N.C.- normally closed)

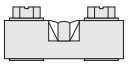
G.P. Filter	Coalescing Filter	
None	None	A
None	Small gauge	B
None	Large gauge	C
None	Large gauge with N.O. reed switch	D
Small gauge	Small gauge	F
Large gauge	Large gauge	G
Large gauge with N.O. reed switch	Large gauge with N.O. reed switch	H
None	Large gauge with N.C. reed switch	J
Large gauge with N.C. reed switch	Large gauge with N.C. reed switch	K

CHECK VALVES
No check valve 0
Check valves before inlet port and after dryer 1
Check valve only after dryer 2

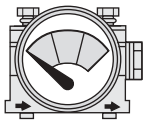
DRYER MOUNTING BRACKET
None ..... A
Appropriate bracket ..... B

PORT SIZE
1 NPTF 8
1 BSPP ..... J

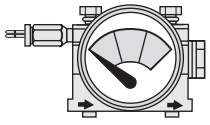
DIFFERENTIAL PRESSURE GAUGES



Small Slide Gauge
K103-151



Large Dual Face Gauge
106-35



Large Dual Face Gauge with Reed Switch
106-35E (Normally Open)
106-35EC (Normally Closed)

Membrane Dryer/Filter Clean Air Packages

Dryer Series 608 Port Size: 1

- **Package consists of a membrane air dryer preceded by a general purpose filter and a coalescing filter.**
- **Outlet flow rate up to 91.8 scfm (43300 cm³/s) at 40°F pressure dew point.**
- **Air can be dried down to a pressure dew point of -40°F (-40°C).**
- **Dryer has no moving parts and uses no electricity.**
- **There is no desiccant or refrigerant to replace.**
- **NPTF port threads; optional BSPP threads.**
- **Can meet ISO purity class ISO 8573-1 1 2 1**

SPECIFICATIONS

Ambient/Media Temperature:
40° to 150°F (4° to 66°C).

Check Valves: Model V60 optional. For use as the first element and/or the last element in the package.

Pre-Filters: Aluminum bowls with sight glasses and internal float drains.
General Purpose: BF3A100 with 5-μm filter element.
Coalescing: Extended bowl BFC3A201H-E8NG; 0.01-μm filter element. Without differential pressure gauge.
Adsorbing: None available.

Lockout Valve: Optional. Model V45 with M200 muffler.

Flow Rates: See chart below.

Fluid Media: Compressed air.

Inlet Pressure: 200 psig (13.8 bar) maximum.

PRE-FILTRATION MAINTENANCE KITS

(Membrane dryer element not included.)

Dryer Series	Port Size	Adsorbing Filter	Kit Number
608	1	Without	CP-ELM-5A

FLOW RATES scfm (cm^3/s)

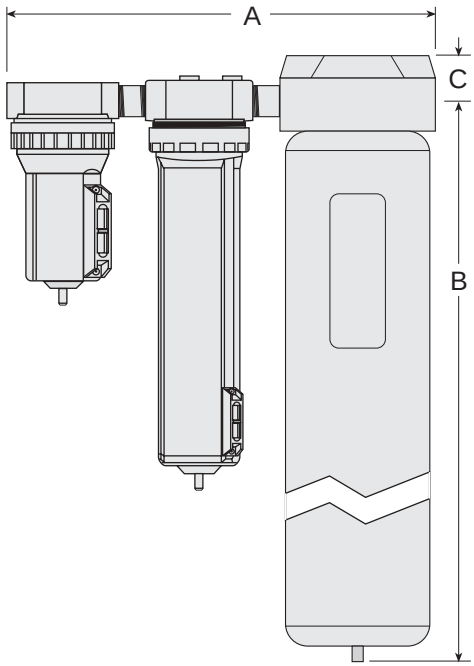
Dryer Series	Port Size	Dew Point: 40°F (4.4°C) Inlet	Dew Point: 40°F (4.4°C) Outlet	Dew Point: -40°F (-40°C) Inlet	Dew Point: -40°F (-40°C) Outlet
608	1	112 (52900)	91.8 (43300)	52.0 (24500)	32.2 (15200)

Flow capacities are established in accordance with CAGI Standard ADF700: *Membrane Compressed Air Dryers—Methods for Testing and Rating.* Maximum operating pressure is 200 psig (1379 kPa), and maximum operating temperature is 150°F (65.6°C). Inlet compressed air is at 100°F (37.8°C) dew point and 100 psig (689.5 kPa). Conforms to ANSI/CAGI Standard ADF700—1998.

DIMENSIONS inches (cm)

A †	B	C	Depth
19.5 (495)	39.3 (997)	2.3 (57)	6.4 (162)

† Add 7.0 (178) to the A dimension for V45 lockout valve. For each check valve add 5.6 (142).



ORDERING INFORMATION

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

CP- P 0 C 4 J 0 A 0 A 8

LOCKOUT VALVE
No lockout valve 0
V45 lockout 2

DIFFERENTIAL PRESSURE GAUGES
(N.O.- normally open; N.C.- normally closed)

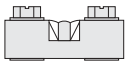
G.P. Filter	Coalescing Filter	
None	None	A
None	Small gauge	B
None	Large gauge	C
None	Large gauge with N.O. reed switch	D
Small gauge	Small gauge	F
Large gauge	Large gauge	G
Large gauge with N.O. reed switch	Large gauge with N.O. reed switch	H
None	Large gauge with N.C. reed switch	J
Large gauge with N.C. reed switch	Large gauge with N.C. reed switch	K

PORT SIZE
1 NPTF 8
1 BSPP ..... J

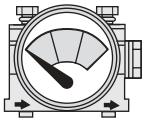
DRYER MOUNTING BRACKET
None ..... A
Appropriate assembly ..... B

CHECK VALVES
No check valve 0
Check valves before inlet port and after dryer 1
Check valve only after dryer 2

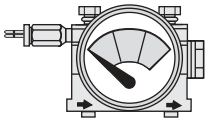
DIFFERENTIAL PRESSURE GAUGES



Small Slide Gauge
K103-151



Large Dual Face Gauge
106-35



Large Dual Face Gauge with Reed Switch
106-35E (Normally Open)
106-35EC (Normally Closed)