

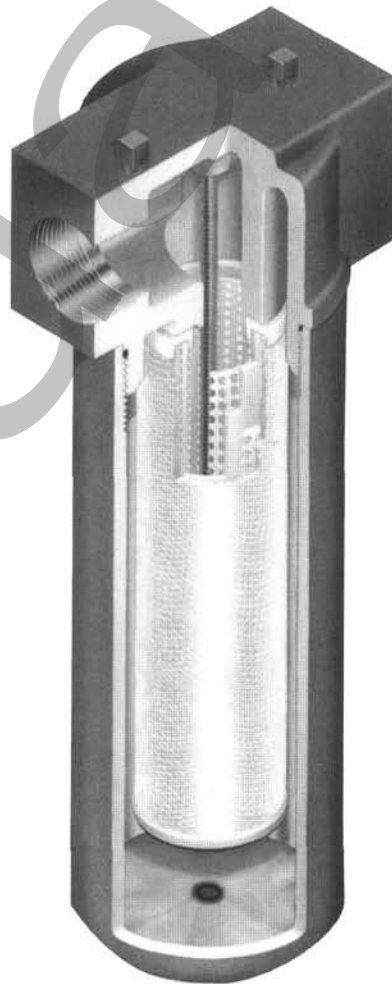
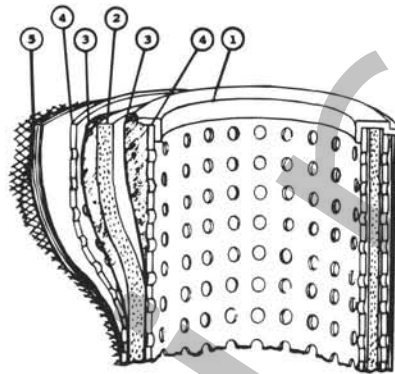
A coalescing filter functions in a different way from a standard particulate filter. Air flows from inside to outside through a coalescing media. Coalescing, by definition, means "to come together". It is a continuous process by which small aerosols come in contact with the fibers in the filter media, uniting with other collected aerosols and growing to emerge as a droplet on the downstream surface of the media which by its weight is gravitationally drained away. For maximum performance and efficiency, coalescing filters should be preceded by an F3 particulate filter.

**F4 oil removing filters** offer general industrial filtration with low pressure drop and long element life. They are often used with older compressors where downstream oil carryover is excessive and when longer element life and low pressure drop are a concern.

**F5 coalescing filters** are used for high filtration of oil aerosols and sub micron particles. They are often used with critical instrumentation; paint spraying equipment; more sophisticated air systems; blow molding bottling; in the food industry, and where air blows on a finished product. The .01 micron grade "A" element is offered for the most critical filtration applications, such as those found in clean rooms.

**F6 adsorber filters** were engineered specifically for those critical applications that will not tolerate the presence of oil vapors and associated odors. The core consists of multi wrapped layers of impregnated 40 micron activated charcoal particles to increase its purification qualities. If the compressed air has been prepared by a suitable refrigerated dryer and F5 oil removing filter, the F6 Adsorber will insure oil concentrations of .01 PPM by weight. In all cases, an F5A coalescing filter must precede an F6 Adsorber filter. To prevent any particle migration downstream, an F3 with 3 micron element should be installed downstream for total system protection.

## COALESCING FILTERS



- 1) Molded, bonded urethane rubber end seals, seal on face and bore to ensure that all aerosols will pass through media.
- 2) High efficiency borosilicate glass fiber media coalesces and removes finest oil aerosols, Arrows unique tapered layer structure reduces wet pressure drop and extends element life.
- 3) The borosilicate core is additionally protected by polyester wraps before and after the core to prevent bulging through the support ribs under load.
- 4) Chemical resistant plastic inner and outer support ribs strengthen element structure and prevent damage to the element under high differential pressures and reverse flow conditions.
- 5) Fiberglass drain layer provides drainage vehicle, prevents reentrainment of droplets, and is not affected by synthetic oils and high temperatures. Outer netting prevents drain layer bulging and is color coded to identify element type.

**IMPORTANT:** Oil captured by Arrow Coalescing Filters will not retrain and move downstream.

# ARROW

# Tri-Star Oil Removing Filters



## SPECIFICATIONS

### Metal Bowl

- Zinc, black coated
- Max. supply pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with Sight

- Zinc, black coated
- Max. supply pressure 250 psig
- Operating temperature range 40°F to 160°F

**Internal Float Drain** Note: limits bowl temperature and pressure rating.

- Operating pressure range 30 to 175 psig
- Operating temperature range 40°F to 120°F

### Element

- .9 micron borosilicate glass fiber
- D.O.P. Efficiency: 95%, Particle size removal, Remaining oil content by wt.: 2.5 PPM

**Body** black coated aluminum

**Baffle** plastic

**Seals** Buna N

## KITS

- Internal float drain. . . . . 5200

### Bowl Kits

- Metal bowl without sight. . . . BKF45M
- Metal bowl with sight . . . . . BKF45W

### Element Kit

- .9 micron 2-pack. . . . . EK45
- Orange netting or dot

### Repair Kits

- Repair kit . . . . . RKF45
- Replacement sight kit . . . . . WK45
- Indicator pop-up kit . . . . . DPK-05

**Mounting Bracket** see page 60

- FBK5

## FEATURES

- .9 micron element
- Low pressure drop
- Long element life
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- 6 oz. black coated metal bowl with liquid level sight
- Manual drain
- In-line or modular installation

## OPTIONS

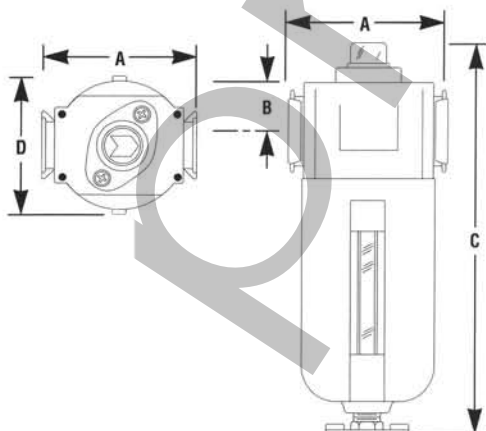
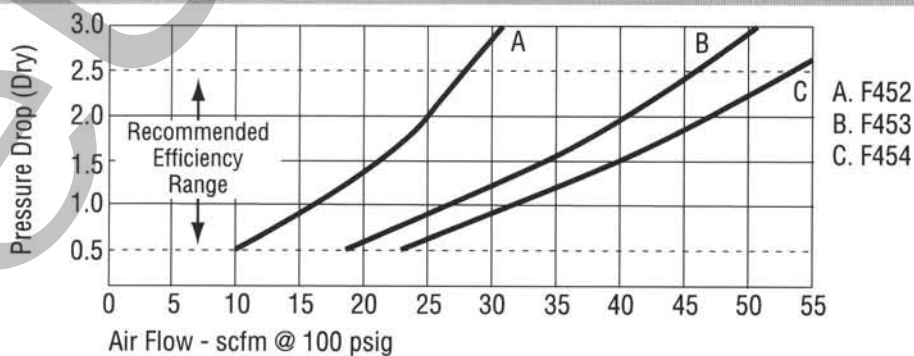
add suffix to part number in alpha order

### Float Drain

F Internal float drain . . . . . F452FW

For Metal Bowl without sight delete W

## PERFORMANCE CHARACTERISTICS



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES)				WEIGHT (LBS.)
				A	B	C	D	
1/4"	F452W	27	6 oz.	2 <sup>3</sup> / <sub>4</sub>	3/4	7 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	1.0
3/8"	F453W	45	6 oz.	2 <sup>3</sup> / <sub>4</sub>	3/4	7 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	1.0
1/2"	F454W	53	6 oz.	2 <sup>3</sup> / <sub>4</sub>	3/4	7 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	2.1

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.

# MidFlow Oil Removing Filters



## SPECIFICATIONS

### Metal Bowl

- Zinc, black coated
- Max. supply pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with Sight

- Zinc, black coated
- Max. supply pressure 250 psig
- Operating temperature range 40°F to 160°F

### Internal Float Drain

Note: limits bowl temperature and pressure rating.

- Operating pressure range 30 to 175 psig
- Operating temperature range 40°F to 120°F

**Body** black coated aluminum

**Baffle** plastic

**Seals** Buna N

## Elements

- .9 micron borosilicate glass filter  
D.O.P. Efficiency: 95%, Particle size removal, Remaining oil content by wt.: 2.5 PPM

## KITS

- Internal float drain. . . . . 5200

## Bowl Kits

- 10 oz. with sight . . . . . BKF47W
- 10 oz. without sight. . . . . BKF47M
- 20 oz. with sight . . . . . BKF48W
- 20 oz. without sight . . . . . BKF48M

## Element Kits

- .9 micron . . . . . EK47
- Orange netting or dot . . . . . EK48

## Repair Kits

- Repair kit . . . . . RKF47  
RKF48
- Replacement sight kit . . . . . WK47
- Indicator pop-up kit . . . . . DPK-05

## Mounting Bracket see page 60

- FBK7

## FEATURES

- .9 micron element
- Low pressure drop
- Long element life
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- 10 oz. or 20 oz. black coated metal bowl with liquid level sight
- Manual twist drain

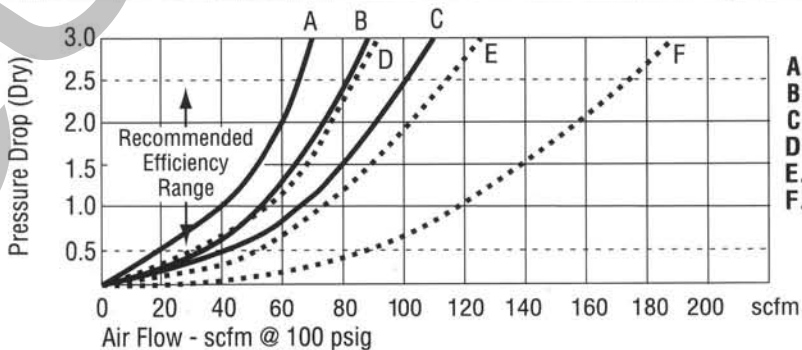
## OPTIONS

add suffix to part number in alpha order

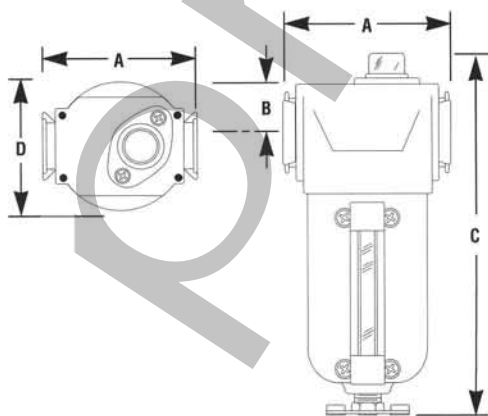
### Float Drain

- F** Internal float drain . . . . . F473FW
- M** Metal bowl without sight glass . . . . . F473M

## PERFORMANCE CHARACTERISTICS



- A. F473
- B. F474
- C. F476
- D. F483
- E. F484
- F. F486



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES)				WEIGHT (LBS.)
				A	B	C	D	
3/8"	F473W	66	10 oz.	3 3/4	1 1/8	8 1/4	3	2.7
3/8"	F483W	84	20 oz.	3 3/4	1 1/8	11 1/2	3	3.6
1/2"	F474W	83	10 oz.	3 3/4	1 1/8	8 1/4	3	2.7
1/2"	F484W	116	20 oz.	3 3/4	1 1/8	11 1/2	3	3.6
3/4"	F476W	98	10 oz.	3 3/4	1 1/8	8 1/4	3	2.7
3/4"	F486W	172	20 oz.	3 3/4	1 1/8	11 1/2	3	3.6

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.

# High Flow Oil Removing Filters



## SPECIFICATIONS

### Metal Bowl

- Steel black coated
- Max. supply pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with sight

- Steel black coated
- Max. supply pressure 250 psig
- Operating temperature range 40°F to 160°F

### Internal Float Drain

- Buna N float
- Note: limits bowl temperature and pressure rating
- Operating pressure range 30 to 175 psig
  - Operating temperature range 40°F to 120°F

**Body** black coated aluminum  
(Note: F408 Series blue coated aluminum)

**Baffle** aluminum

**Seals** Buna N

## Elements

- .9 micron borosilicate glass fiber  
D.O.P. Efficiency: 95%, Particle size removal, Remaining oil content by wt.: 2.5 PPM

## KITS

- Internal float drain kit . . . . . 5200

## Bowl Kits

- Metal with sight F405 . . . . . BKF329W
- Metal without sight F405 . . . . . BKF329M
- Metal with sight F408 . . . . . BKF364W
- Metal without sight F408 . . . . . BKF364

## Element Kits

- .9 micron F405 . . . . . EKF405
  - .9 micron F408 . . . . . EKF408
- Orange netting or dot

## Repair Kits

- Repair kit . . . . . RKF505
- Repair kit . . . . . RKF508
- Replacement sight kit 405 . . . . . WK35
- Replacement sight kit 408 . . . . . WK35

## FEATURES

- .9 micron element
- Manual twist drain
- Low pressure drop
- Long element life

## OPTIONS

add suffix to part number in alpha and numeric order

**D** Differential pressure gauge . F405-06DW

### Float Drain

An internal float rises as condensate accumulates in a filter bowl to activate the drain.

**F** Internal float drain . . . . . F405-06FW  
F408-08FW

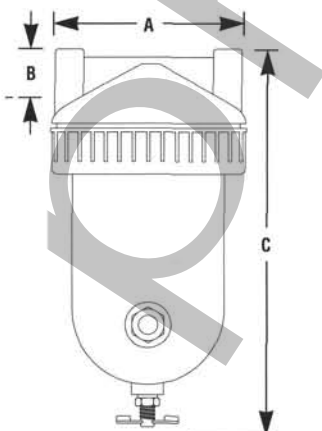
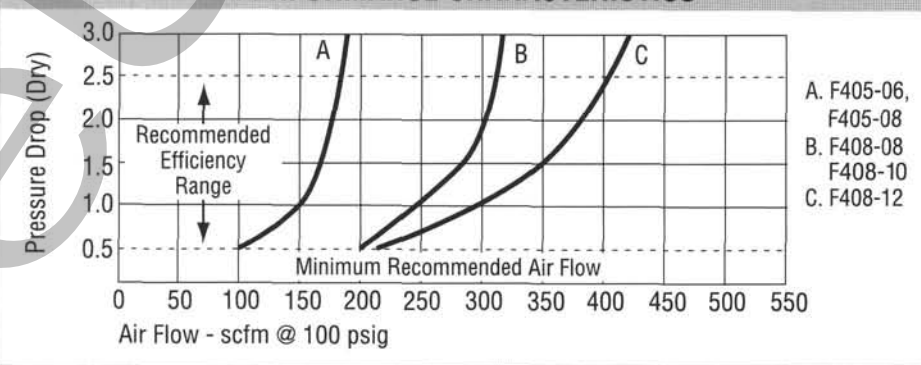
### Overnight Drains

An overnight drain operates when a compressed air system is shut down. It clears accumulated condensate from a filter bowl when pressure falls to 3 psig or less. It then closes when pressure rises to 6 psi.

**K** Overnight drain . . . . . F405-06KW  
Twist to manually drain F408-08KW

For Metal Bowl without sight delete W

## PERFORMANCE CHARACTERISTICS



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	DIMENSIONS (INCHES)			WEIGHT (LBS.)
			A	B	C	
3/4"	F405-06W	185	4 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>16</sub>	8 <sup>7</sup> / <sub>8</sub>	3.7
1"	F405-08W	185	4 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>16</sub>	8 <sup>7</sup> / <sub>8</sub>	3.7
1"	F408-08W	300	4 <sup>7</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	13 <sup>1</sup> / <sub>2</sub>	6.0
1 <sup>1</sup> / <sub>4</sub> "	F408-10W	300	5 <sup>5</sup> / <sub>32</sub>	1 <sup>5</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>8</sub>	6.3
1 <sup>1</sup> / <sub>2</sub> "	F408-12W	400	5 <sup>5</sup> / <sub>32</sub>	1 <sup>5</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>8</sub>	6.3

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.



# High Flow Oil Removing Filters



## SPECIFICATIONS

- Metal Bowl**
- Max. supply pressure 250 psig
  - Operating temperature range 40°F to 200°F

- Metal Bowl with sight**
- Aluminum
  - Max. supply pressure 250 psig
  - Operating temperature range 40°F to 160°F

**Body** blue coated aluminum  
**Baffle** plastic  
**Seals** Buna N

## Element

- .9 micron borosilicate glass filter
- D.O.P. Efficiency: 95%, Particle size removal, Remaining oil content by wt.: 2.5 PPM

## KITS

- Float for External Drain . . . . . 5200
- Bowl Kits**
- Metal without sight F410 . . . . . BKF510
  - Metal with sight F410 . . . . . BKF510W
  - Metal without sight F418 . . . . . BKF518
  - Metal with sight F418 . . . . . BKF518W
  - Metal without sight F428 . . . . . BKF528
  - Metal with sight F428 . . . . . BKF528W

## Element Kit

- .9 micron . . . . . EKF410, EKF418, EKF428
- Orange netting or dot . . . . . EKF428

## Repair Kits

- Repair kit . . . . . RKF511
- Replacement sight kit . . . . . BSF510

## FEATURES

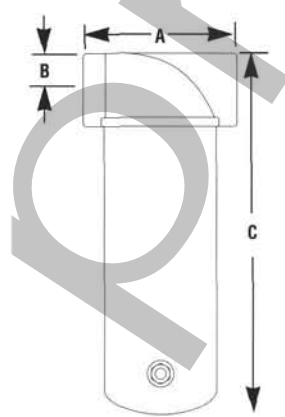
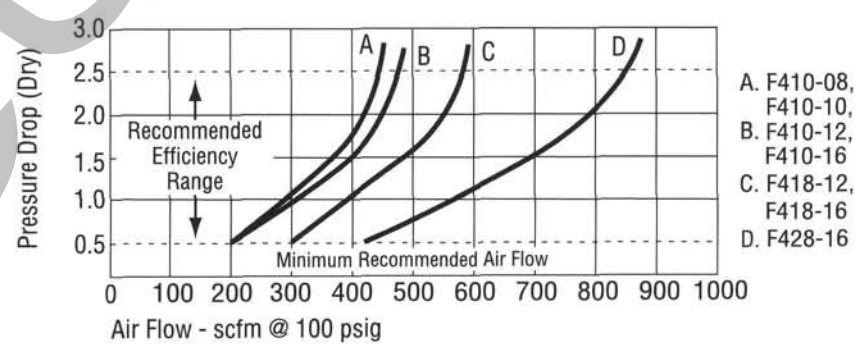
- .9 micron element
- Low pressure drop
- Long element life

## OPTIONS

add suffix to part number in alpha order

- C** Arrowlight differential pressure light . . . . . F410-08C
- D** Differential pressure gauge . F410-08D
- T** External Float Drain . . . . . F410-08T
- W** Metal bowl with sight glass . . . . . F410-08W

## PERFORMANCE CHARACTERISTICS



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	DIMENSIONS (INCHES)			WEIGHT (LBS.)
			A	B	C	
1"	F410-08	420	6½	2	18½	16
1¼"	F410-10	420	6½	2	18½	16
1½"	F410-12	475	6½	2	18½	16
1½"	F418-12	590	6½	2	26¼	19
2"	F410-16	475	6½	2	18½	16
2"	F418-16	590	6½	2	26¼	19
2"	F428-16	840	6½	2	36½	23

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.

# High Flow Oil Removing Filters



## SPECIFICATIONS

### Metal Bowl

- Max. supply pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with sight

- Aluminum
- Max. supply pressure 250 psig
- Operating temperature range 40°F to 160°F

**Body** blue coated aluminum

**Baffle** plastic

**Seals** Buna N

**Vane** plastic

## Element

- .9 micron borosilicate glass filter
- D.O.P. Efficiency: 95%, Particle size removal, Remaining oil content by wt.: 2.5 PPM

## KITS

- Float for External Drain . . . . . 5200

## Bowl Kits

- Metal without sight F411 . . . . . BKF510
- Metal with sight F411 . . . . . BKF510W
- Metal without sight F419 . . . . . BKF518
- Metal with sight F419 . . . . . BKF518W
- Metal without sight F429 . . . . . BKF528
- Metal with sight F429 . . . . . BKF528W

## Element Kit

- .9 micron . . . . . EKF411, EKF419, Orange netting or dot . . . . . EKF429

## Repair Kits

- Repair kit . . . . . RKF511, RKF519, RKF529
- Replacement sight kit . . . . . BSF510

## FEATURES

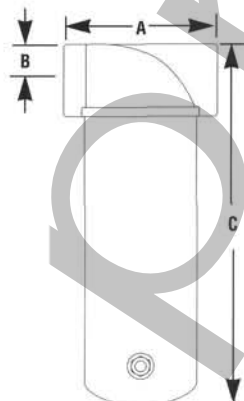
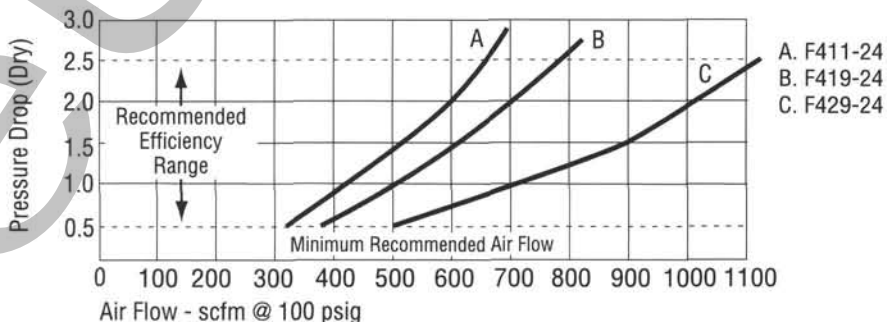
- .9 micron element
- Low pressure drop
- Long element life

## OPTIONS

add suffix to part number in alpha order

- C** Arrowlight differential pressure light . . . . . F411-24C
- D** Differential pressure gauge . F411-24D
- T** External Float Drain . . . . . F411-24T
- W** Metal bowl with sight glass . . . . . F411-24W

## PERFORMANCE CHARACTERISTICS



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	DIMENSIONS (INCHES)			WEIGHT (LBS.)
			A	B	C	
3"	F411-24	620	7 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	20 <sup>3</sup> / <sub>16</sub>	21
3"	F419-24	770	7 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	28 <sup>11</sup> / <sub>16</sub>	24
3"	F429-24	1100	7 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	38 <sup>15</sup> / <sub>16</sub>	28

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.

# Miniature Coalescing Filters



## SPECIFICATIONS

### Polycarbonate Bowl

- Max. pressure 150 psig
- Operating temperature range 40°F to 120°F

### Metal Bowl

- Aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

### Piston Drain

Note: Z option is differential drain which opens & ejects water only when a differential pressure is created at the start of air flow. The piston drain lifts up (approx. 1 second) & closes, it will not operate again until the flow stops, then starts back up again.

- Operating pressure range 30 to 175 psig
- Operating temperature range 40°F to 120°F

### Body

- Nickel plated

## Elements

- .03 micron borosilicate glass fiber D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM
- .01 micron borosilicate glass fiber D.O.P. Efficiency: 99.999%, Particle removal size, Remaining oil content by wt.: .0005 PPM

## KITS

- Piston drain . . . . . PKF300
- Overnight Metal (K) . . . . . CKFK

## Bowl Kits

- 1 oz. poly. bowl . . . . . BKF300
- 1 oz. poly. bowl with piston drain . . . . . BKF300J
- 1 oz. metal bowl . . . . . BKF300M
- 1 oz. metal bowl with overnight drain . . . . . BKF300KM

## Element Kits

- .03 micron 2-pack . . . . . EKF500 Clear net or no color
- .01 micron 2-pack . . . . . EKF500A Red net or dot

## FEATURES

- .03 micron fiber element
- 1 oz. polycarbonate bowl
- Manual twist drain

## OPTIONS

add suffix to part number in alpha order

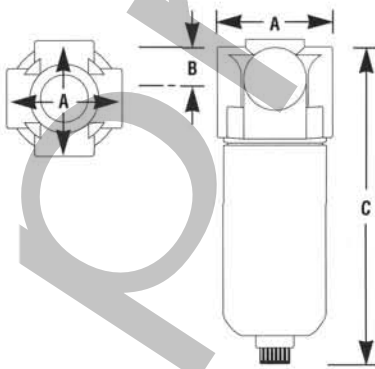
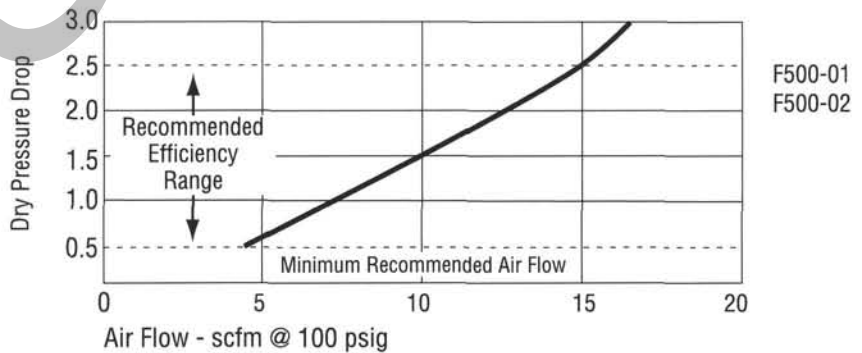
- A .01 micron element . . . . . F500-02A

### Overnight Drains

When a compressed air system is shut down, an overnight drain clears accumulated condensate from a filter bowl when the pressure falls to 3 psig or less.

- J Overnight drain poly. bowl . . F500-02J
- K Overnight drain metal bowl . . F500-02KM
- M Metal bowl . . . . . F500-02M
- Z Piston drain . . . . . F500-02Z

## PERFORMANCE CHARACTERISTICS



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES)			WEIGHT (LBS.)
				A	B	C	
1/8"	F500-01	15	1 oz.	1 1/2	1/2	4 1/2	.5
1/4"	F500-02	15	1 oz.	1 1/2	1/2	4 1/2	.5

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.

# Tri-Star Coalescing Filters



## SPECIFICATIONS

### Metal Bowl

- Zinc, black coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with Sight nickel plated zinc

- Zinc, black coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°F

### Internal Float Drain

plastic, metal, brass, Buna N seal  
Note: limits bowl temperature and pressure rating

- Operating pressure range 30 to 175 psig
- Operating temperature range 40°F to 120°F

### Elements

- .03 micron borosilicate glass fiber  
D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM

- .01 micron borosilicate glass fiber  
D.O.P. Efficiency: 99.999%, Particle size removal, Remaining oil content by wt.: .0005 PPM

### KITS

- Internal float drain kit . . . . . 5200

### Bowl Kits

- Metal without sight . . . . . BKF45M
- Metal with sight . . . . . BKF45W

### Element Kits

- .03 micron 2-pack. . . . . EK55  
Clear net no color
- .01 micron 2-pack. . . . . EK55A  
Red net or dot

### Repair Kits

- Repair kit . . . . . RKF45
- Replacement sight kit . . . . . WK35
- Indicator Pop-up kit . . . . . DPK-05

### Mounting Bracket see page 60

- FBK5

## FEATURES

- .03 micron fiber element
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- Low pressure drop
- 6 oz. black coated metal bowl with liquid level sight
- Black coated aluminum housing
- Manual drain
- In line or modular installation

## OPTIONS

add suffix to part number in alpha order  
A .01 micron element . . . . . F552AW

### Float Drain

F Internal float drain . . . . . F552FW

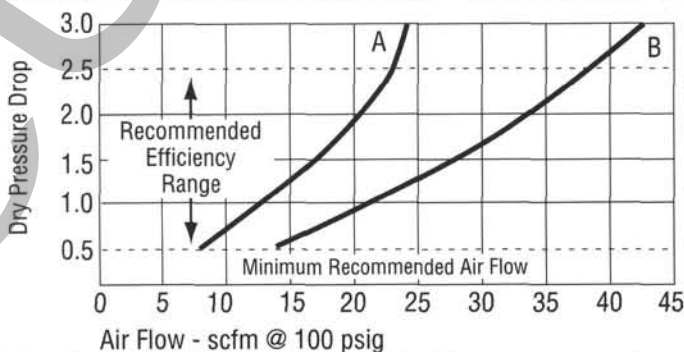
For Metal Bowl without sight delete W

**Body** Black coated aluminum

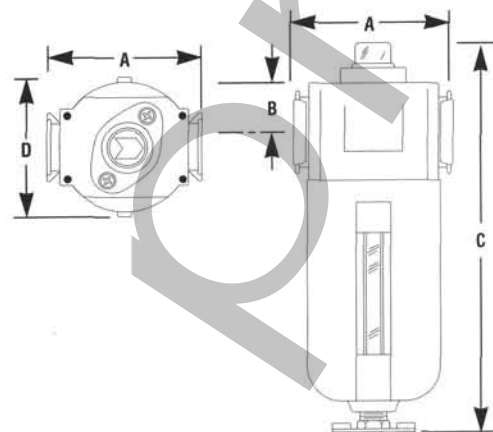
**Baffle** plastic

**Seals** Buna N

## PERFORMANCE CHARACTERISTICS



A. F552  
B. F553  
F554



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES)				WEIGHT (LBS.)
				A	B	C	D	
1/4"	F552W	24	6 oz.	2 <sup>3</sup> / <sub>4</sub>	3/4	6 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	1.7
3/8"	F553W	37	6 oz.	2 <sup>3</sup> / <sub>4</sub>	3/4	6 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	1.7
1/2"	F554W	37	6 oz.	2 <sup>3</sup> / <sub>4</sub>	3/4	6 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	1.7

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.



# MidFlow Coalescing Filters



## SPECIFICATIONS

### Metal Bowl

- Zinc, black coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with Sight

- Zinc, black coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°F

**Internal Float Drain Note:** limits bowl temperature and pressure ratings

- Operating pressure range 30 to 175 psig
- Operating temperature range 40°F to 120°F

**Body** Black coated aluminum

**Baffle** plastic

**Seals** Buna N

### Elements

- .03 micron borosilicate glass fiber  
D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM

- .01 micron borosilicate glass fiber, D.O.P. Efficiency: 99.999%, Particle size removal, Remaining oil content by wt.: .0005 PPM

## KITS

- Internal float drain kit . . . . . 5200
- Overnight Metal (K) . . . . . CKFK

### Bowl Kits

- 10 oz. with sight . . . . . BKF47W
- 10 oz. without sight. . . . . BKF47M
- 20 oz. with sight . . . . . BKF48W
- 20 oz. without sight . . . . . BKF48M

### Element Kits

- .03 micron . . . . . EK57  
Clear net no color . . . . . EK58
- .01 micron . . . . . EK57A  
Red net or dot . . . . . EK58A

### Repair Kits

- Repair kit . . . . . RKF47, RKF48
- Replacement sight kit . . . . . WK37
- Indicator Pop-up kit . . . . . DPK-05

**Mounting Bracket** FBK7, see page 60

## FEATURES

- .03 micron fiber element
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- Low pressure drop
- 10 oz. or 20 oz. black coated metal bowl with liquid level sight
- Manual drain

## OPTIONS

add suffix to part number in alpha order

**A** .01 micron element . . . . . F573AW

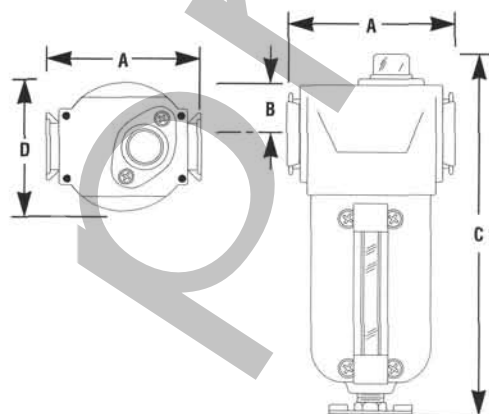
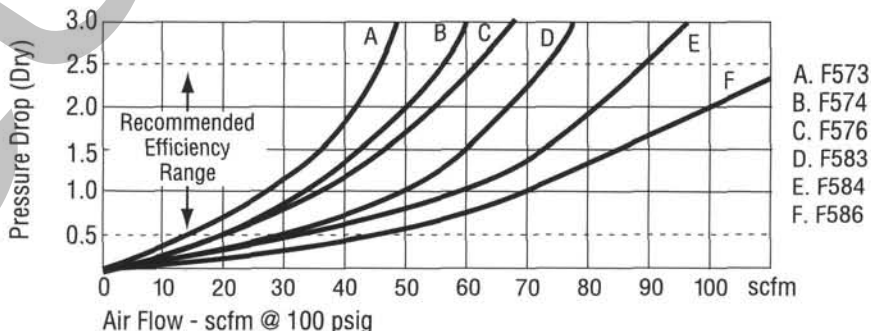
### Float Drain

**F** Internal float drain . . . . . F573FW

**K** Overnight drain . . . . . F573KW

**M** Black coated metal bowl . . . F573M

## PERFORMANCE CHARACTERISTICS



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES)				WEIGHT (LBS.)
				A	B	C	D	
3/8"	F573W	48	10	3 3/4	1 1/4	8 1/4	3	2.7
3/8"	F583W	72	20	3 3/4	1 1/4	11 1/2	3	3.6
1/2"	F574W	55	10	3 3/4	1 1/4	8 1/4	3	2.7
1/2"	F584W	90	20	3 3/4	1 1/4	11 1/2	3	3.6
3/4"	F576W	60	10	3 3/4	1 1/4	8 1/4	3	2.7
3/4"	F586W	110	20	3 3/4	1 1/4	11 1/2	3	3.6

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.

# High Flow Coalescing Filters

## Elements

- .03 micron borosilicate glass filter  
D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM
- .01 micron borosilicate glass filter  
D.O.P. Efficiency: 99.999%, Particle size removal, Remaining oil content by wt.: .0005 PPM

## KITS

- Internal float drain kit . . . . . 5200
- Overnight Drain Kit (K) . . . . . CKFK

## Bowl Kits

- Metal with sight F505 . . . . . BKF329W
- Metal without sight F505 . . . . . BKF329M
- Metal with sight F508 . . . . . BKF364W
- Metal without sight F508 . . . . . BKF364M

## Element Kits

- .03 micron 505 (Clear net) . . . . . EKF505
- .01 micron 505 (Red net) . . . . . EKF505A
- .03 micron 508 (Clear net) . . . . . EKF508
- .01 micron 508 (Red net) . . . . . EKF508A

## Repair Kits

- Repair kit 505 . . . . . RKF505
- Repair kit 508 . . . . . RKF508
- Replacement sight kit . . . . . WK35

## SPECIFICATIONS

### Metal Bowl

- Zinc, black coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with sight

- Zinc, black coated
- Max. supply pressure 250 psig
- Operating temperature range 40°F to 160°F

### Internal Float Drain

- Buna N float
- Note: limits bowl temperature and pressure rating
- Operating pressure range 30 to 175 psig
- Operating temperature range 40°F to 120°F

**Body** black coated aluminum  
(Note: F508 Series blue coated aluminum)

**Baffle** aluminum

**Seals** Buna N



## FEATURES

- .03 micron fiber element
- Manual drain
- Low pressure drop

## OPTIONS

add suffix to part number in alpha and numeric order

**A** .01 micron element . . . . . F505-06A

**D** Differential pressure gauge . F505-06D

### Float Drain

**F** Internal float drain . . . . . F505-06FW

### Overnight Drains

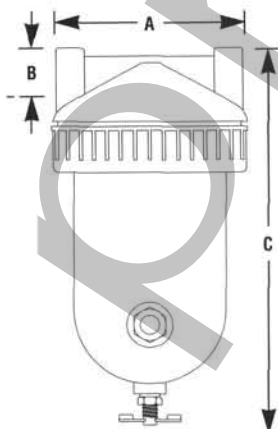
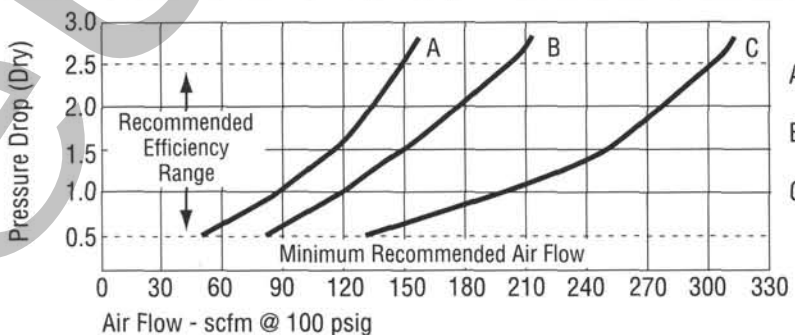
An overnight drain operates when a compressed air system is shut down. It clears accumulated condensate from a filter bowl when pressure falls to 3 psig or less. It then closes when pressure rises to 6 psi.

**K** Overnight drain . . . . . F505-06KW

*Twist to manually drain . . . . . F508-08KW*

For Metal Bowl without sight delete W

## PERFORMANCE CHARACTERISTICS



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	DIMENSIONS (INCHES)			WEIGHT (LBS.)
			A	B	C	
3/4"	F505-06W	150	4 7/8	1 3/16	8 7/8	3.7
1"	F505-08W	150	4 7/8	1 3/16	8 7/8	3.7
1"	F508-08W	200	4 7/8	1 5/16	13 1/2	6.0
1 1/4"	F508-10W	200	4 7/8	1 5/16	14 5/8	6.3
1 1/2"	F508-12W	310	4 7/8	1 5/16	14 5/8	6.3

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.

# High Flow Coalescing Filters



## SPECIFICATIONS

### Metal Bowl

- Aluminum blue coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with Sight

- Aluminum blue coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°F

**Body** Blue aluminum

**Baffle** plastic

**Seals** Buna N

### Elements

- .03 micron borosilicate glass fiber  
D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM
- .01 micron borosilicate glass fiber  
D.O.P. Efficiency: 99.999%, Particle size removal, Remaining oil content by wt.: .0005 PPM

## KITS

- Float for External Drain . . . . .5200

### Bowl Kit

- Metal with sight . . . . . BKF510W
- Metal without sight . . . . . BKF510
- Metal with sight . . . . . BKF518W
- Metal without sight . . . . . BKF518
- Metal with sight . . . . . BKF528W
- Metal without sight . . . . . BKF528

### Element Kits

- .03 micron . . . . . EKF510,  
Clear net no color . . . . . EKF518, EKF528
- .01 micron . . . . . EKF510A,  
Red net or dot . . . . . EKF518A, EKF528A

### Repair Kits

- Repair kit . . . . . RKF511, RKF519,  
RKF529
- Replacement sight kit . . . . . BSF510

## FEATURES

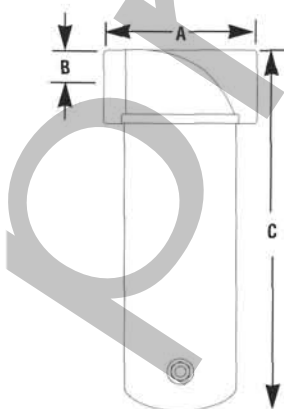
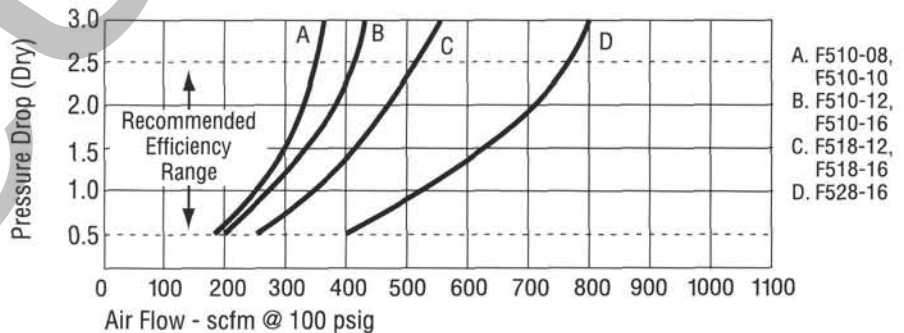
- .03 micron fiber element
- Low pressure drop
- Manual drain

## OPTIONS

add suffix to part number in alpha order

- A** .01 micron element . . . . . F510-08A
- C** Arrowlight differential pressure light . . . . . F510-08C
- D** Differential pressure gauge . . . . . F510-08D
- T** External Float Drain . . . . . F510-08T
- W** Metal bowl with sight glass . . . . . F510-08W

## PERFORMANCE CHARACTERISTICS



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	DIMENSIONS (INCHES)			WEIGHT (LBS.)
			A	B	C	
1"	F510-08	310	6½	2	18½	16
1¼"	F510-10	310	6½	2	18½	16
1½"	F510-12	415	6½	2	18½	16
1½"	F518-12	515	6½	2	26¼	19
2"	F510-16	415	6½	2	18½	16
2"	F518-16	515	6½	2	26¼	19
2"	F528-16	765	6½	2	36½	23

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.

# High Flow Coalescing Filters



## SPECIFICATIONS

### Metal Bowl

- Aluminum blue coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with Sight

- Aluminum blue coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°F

Body Aluminum

Baffle plastic

Seals Buna N

### Elements

- .03 micron borosilicate glass fiber  
D.O.P. Efficiency: 99.97%, Particle size removal, Remaining oil content by wt.: .015 PPM
- .01 micron borosilicate glass fiber  
D.O.P. Efficiency: 99.999%, Particle size removal, Remaining oil content by wt.: .0005 PPM

## KITS

- Float for External Drain . . . . .5200

### Bowl Kits

- Metal with sight . . . . . BKF510W
- Metal without sight . . . . . BKF510
- Metal with sight . . . . . BKF518W
- Metal without sight . . . . . BKF518
- Metal with sight . . . . . BKF529W
- Metal without sight . . . . . BKF529

### Element Kits

- .03 micron . . . . . EKF511  
Clear net no color . . . . . EKF519  
EKF529
- .01 micron . . . . . EKF511A  
Red net or dot . . . . . EKF519A  
EKF529A

### Repair Kits

- Repair kit . . . . . RKF511  
RKF519  
RKF529
- Replacement sight kit . . . . . BSF510

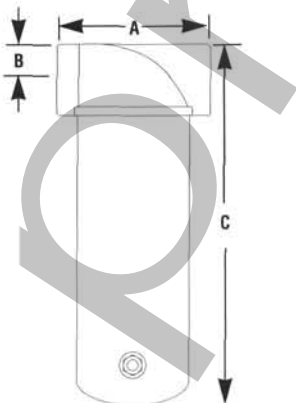
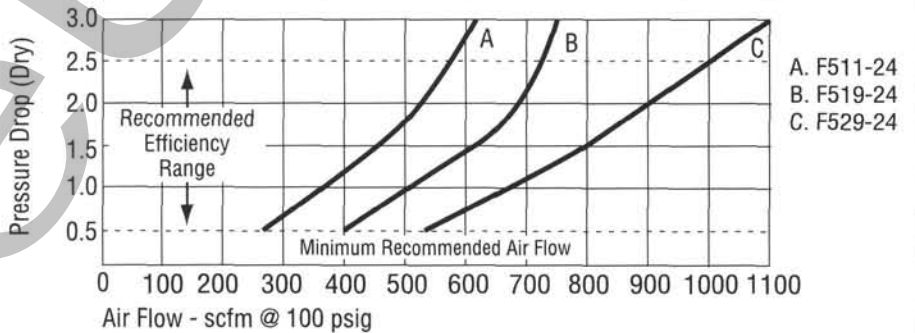
## FEATURES

- .03 micron fiber element
- Low pressure drop
- Manual drain

## OPTIONS

- add suffix to part number in alpha order
- A .01 micron element . . . . . F511-24A
  - C Arrowlight differential pressure light . . . . . F511-24C
  - D Differential pressure gauge . F511-24D
  - T External Float Drain . . . . . F511-24T
  - W Metal bowl with sight glass . . . . . F511-24W

## PERFORMANCE CHARACTERISTICS



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	DIMENSIONS (INCHES)			WEIGHT (LBS.)
			A	B	C	
3"	F511-24	560	7 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	20 <sup>3</sup> / <sub>16</sub>	21
3"	F519-24	710	7 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	28 <sup>11</sup> / <sub>16</sub>	24
3"	F529-24	1000	7 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	38 <sup>15</sup> / <sub>16</sub>	28

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.

# Tri•Star Adsorber Filters



## SPECIFICATIONS

### Metal Bowl

- Zinc, black coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with Sight

- Zinc black coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°F

### Element

- Multi-wrapped layers of impregnated activated charcoal particles to increase purification qualities. If the compressed air has been prepared by a suitable refrigerated dryer and F5A Oilesceer filter, the F6 Absorber will insure oil concentrations of .0015 PPM by weight. In all cases, an F5 Oilesceer must precede an F6 Absorber. To prevent any particle migration downstream an F3 with 3 micron element should be installed downstream for total system protection.

**Body** Black coated aluminum

**Baffle** plastic

**Seals** Buna N

### Bowl Kits

- Metal bowl without sight . . . . . BKF45M
- Metal bowl with sight . . . . . BKF45W

### Element Kits

- Charcoal wrapped 2-pack . . . . . EK67
- Clear net no color

### Repair Kits

- Repair kit . . . . . RKF45
- Replacement sight kit . . . . . WK35
- Indicator Pop-up kit . . . . . DPK-05

### Mounting Bracket see page 60

- FBK5

### APPLICATIONS

- Food plants
- Pharmaceutical
- Instrumentation

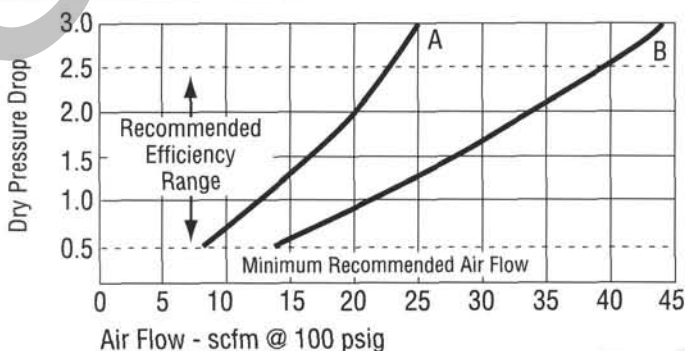
## FEATURES

- Protects end processes from gaseous oil contamination and rids compressed air of offensive oily odors
- Removes hydrocarbons for use in analytical instruments
- Low pressure drop
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- 6 oz. black coated metal bowl with liquid level sight
- Black coated aluminum housing
- Manual drain
- In-line or modular installation

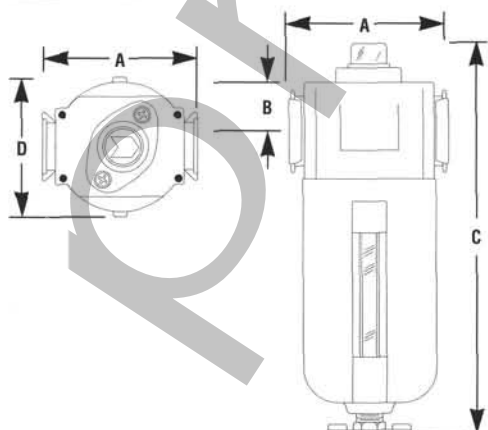
## OPTIONS

For Metal Bowl without sight delete W

## PERFORMANCE CHARACTERISTICS



A. F652  
B. F653  
F654



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES)				WEIGHT (LBS.)
				A	B	C	D	
1/4"	F652W	24	6 oz.	2 3/4	3/4	6 3/4	2 1/2	1.0
3/8"	F653W	37	6 oz.	2 3/4	3/4	6 3/4	2 1/2	1.0
1/2"	F654W	37	6 oz.	2 3/4	3/4	6 3/4	2 1/2	1.0

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.

# MidFlow Adsorber Filters



## SPECIFICATIONS

### Metal Bowl

- Zinc black coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with Sight

- Zinc black coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°F

### Element

- Multi-wrapped layers of impregnated activated charcoal particles to increase purification qualities. If the compressed air has been prepared by a suitable refrigerated dryer and F5A Oilesco filter, the F6 Absorber will insure oil concentrations of .0015 PPM by weight. In all cases, an F5 Oilesco must precede an F6 Absorber. To prevent any particle migration downstream an F3 with 3 micron element should be installed downstream for total system protection.

**Body** Black coated aluminum

**Baffle** plastic

**Seals** Buna N

### Bowl Kits

- Metal bowl without sight . . . BKF47M
- Metal bowl with sight . . . . . BKF47W

### Element Kits

- Charcoal wrapped 2-pack . . . EK67, EK68
- Clear net no color

### Repair Kits

- Repair kit . . . . . RKF47, RKF48
- Replacement sight kit . . . . . WK37
- Indicator Pop-up kit . . . . . DPK-05

**Mounting Bracket** see page 60

- FBK7

## APPLICATIONS

- Food plants
- Pharmaceutical
- Instrumentation

## FEATURES

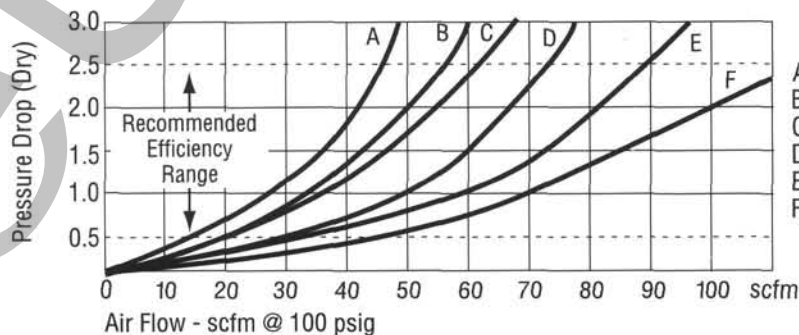
- Protects end processes from gaseous oil contamination and rids compressed air of offensive oily odors
- Removes hydrocarbons for use in analytical instruments
- Low pressure drop
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- 10 oz./20 oz. black coated metal bowl with liquid level sight
- Black coated aluminum housing
- Manual drain

## OPTIONS

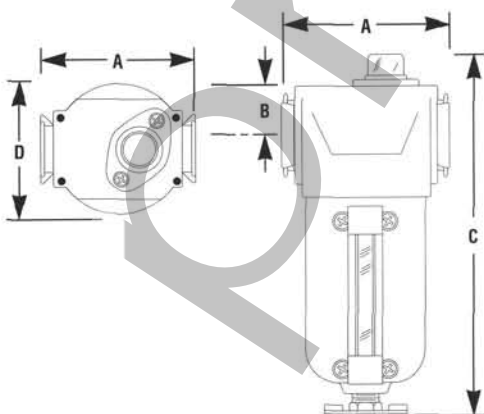
add suffix to part number in alpha order

- M** Metal bowl without sight glass . . . . . F673M

## PERFORMANCE CHARACTERISTICS



- A. F673
- B. F674
- C. F676
- D. F683
- E. F684
- F. F686



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMENSIONS (INCHES)				WEIGHT (LBS.)
				A	B	C	D	
3/8"	F673W	48	10 oz.	3 3/4	1 1/8	8 1/4	3	2.7
3/8"	F683W	72	20 oz.	3 3/4	1 1/8	11 1/2	3	3.8
1/2"	F674W	56	10 oz.	3 3/4	1 1/8	8 1/4	3	2.7
1/2"	F684W	90	20 oz.	3 3/4	1 1/8	11 1/2	3	3.8
3/4"	F676W	60	10 oz.	3 3/4	1 1/8	8 1/4	3	2.7
3/4"	F686W	110	20 oz.	3 3/4	1 1/8	11 1/2	3	3.8

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.



# High Flow Adsorber Filters

**F6**

## SPECIFICATIONS

### Metal Bowl

- Steel black coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with sight

- Steel black coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°F

### Element

- Multi-wrapped layers of impregnated activated charcoal particles to increase purification qualities. If the compressed air has been prepared by a suitable refrigerated dryer and F5A Oilesco filter, the F6 Absorber will insure oil concentrations of .0015 PPM by weight. In all cases, an F5 Oilesco must precede an F6 Absorber. To prevent any particle migration downstream an F3 with 3 micron element should be installed downstream for total system protection.

**Body** Black coated aluminum

(Note: F608 Series blue aluminum)

**Baffle** aluminum

**Seals** Buna N

### Bowl Kits

- Metal bowl with sight . . . . . BKF329W
- Metal bowl without sight . . . . . BKF329M
- Metal bowl with sight . . . . . BKF364W
- Metal bowl without sight . . . . . BKF364

### Element Kits

- Charcoal wrapped 605 . . . . . EKF605
- Clear net no color
- Charcoal wrapped 608 . . . . . EKF608

### Repair Kit

- Repair kit . . . . . RKF505
- . . . . . RKF508
- Replacement sight kit . . . . . WK35

### APPLICATIONS

- Food plants
- Pharmaceutical
- Instrumentation

## FEATURES

- Protects end processes from gaseous oil contamination and rids compressed air of offensive oily odors
- Removes hydrocarbons for use in analytical instruments
- Low pressure drop
- Black coated bowl
- Manual drain

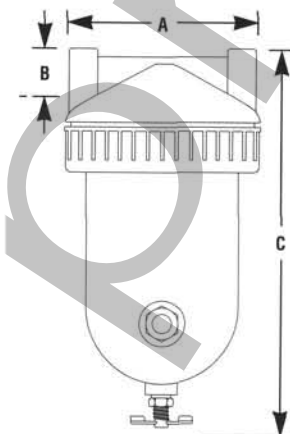
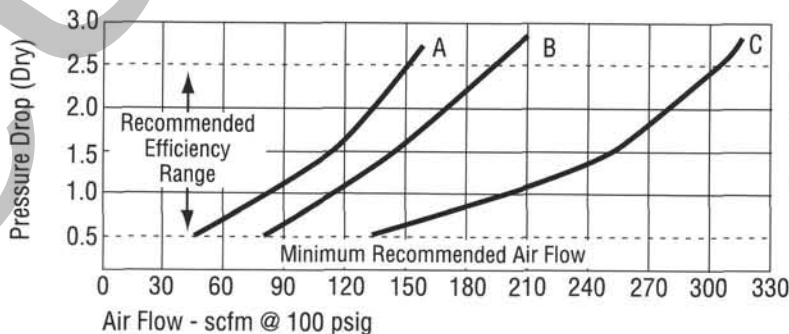
## OPTIONS

add suffix to part number in alpha order

**D** Differential pressure gauge . . F605-06D

For Metal Bowl without sight delete W

## PERFORMANCE CHARACTERISTICS



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	DIMENSIONS (INCHES)			WEIGHT (LBS.)
			A	B	C	
3/4"	F605-06W	150	4 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>16</sub>	8 <sup>7</sup> / <sub>8</sub>	3.7
1"	F605-08W	150	4 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>16</sub>	8 <sup>7</sup> / <sub>8</sub>	3.7
1"	F608-08W	200	4 <sup>7</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	13 <sup>1</sup> / <sub>2</sub>	6.0
1 <sup>1</sup> / <sub>4</sub> "	F608-10W	200	4 <sup>7</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>8</sub>	6.3
1 <sup>1</sup> / <sub>2</sub> "	F608-12W	310	4 <sup>7</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>8</sub>	6.3

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.

# High Flow Adsorber Filters



## SPECIFICATIONS

### Metal Bowl

- Aluminum blue coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with Sight

- Aluminum blue coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°F

**Body** Blue coated aluminum

**Baffle** plastic

**Seals** Buna N

### Element

- Multi-wrapped layers of impregnated activated charcoal particles to increase purification qualities. If the compressed air has been prepared by a suitable refrigerated dryer and F5A Oilesco filter, the F6 Absorber will insure oil concentrations of .0015 PPM by weight. In all cases, an F5 Oilesco must precede an F6 Absorber. To prevent any particle migration downstream an F3 with 3 micron element should be installed downstream for total system protection.

## KITS

- Float for External Drain . . . . .5200

### Bowl Kits

- Metal bowl with sight . . . . . BKF510W
- Metal bowl without sight . . . . . BKF510M
- Metal bowl with sight . . . . . BKF518W
- Metal bowl without sight . . . . . BKF518M
- Metal bowl with sight . . . . . BKF528W
- Metal bowl without sight . . . . . BKF528M

### Element Kits

- Charcoal wrapped 2-pack . . . . . EKF610, EKF618, Clear net no color . . . . . EKF628

### Repair Kits

- Repair kit . . . . . RKF511  
RKF519  
RKF529
- Replacement sight kit . . . . . BSF510

## APPLICATIONS

- Food plants
- Pharmaceutical
- Instrumentation

## FEATURES

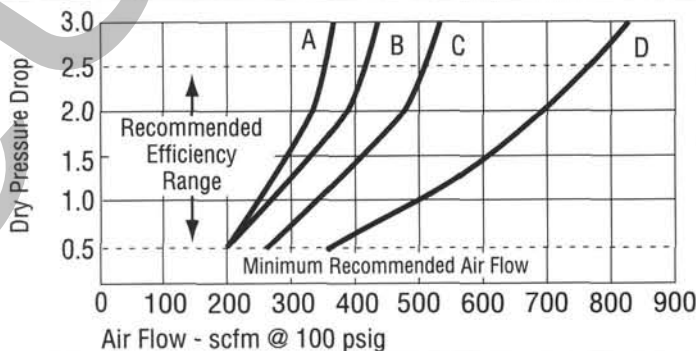
- Protects end processes from gaseous oil contamination and rids compressed air of offensive oily odors
- Removes hydrocarbons for use in analytical instruments
- Low pressure drop
- Manual drain

## OPTIONS

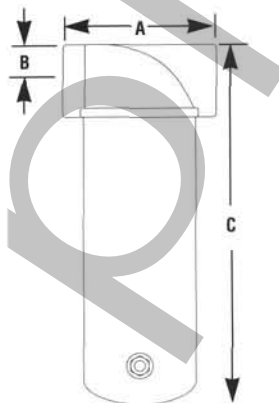
add suffix to part number in alpha order

- C** Arrowlight differential pressure light . . . . . F610-10C
- D** Differential pressure gauge . . . . . F610-10D
- T** External Float Drain . . . . . F610-10T
- W** Metal bowl with sight glass . . . . . F610-10W

## PERFORMANCE CHARACTERISTICS



- A. F610-10
- B. F610-12, F610-16
- C. F618-12, F618-16
- D. F628-16



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	DIMENSIONS (INCHES)			WEIGHT (LBS.)
			A	B	C	
1 1/4"	F610-10	310	6 1/2	2	18 1/2	16
1 1/2"	F610-12	415	6 1/2	2	18 1/2	16
1 1/2"	F618-12	515	6 1/2	2	26 1/4	19
2"	F610-16	415	6 1/2	2	18 1/2	16
2"	F618-16	515	6 1/2	2	26 1/4	19
2"	F628-16	765	6 1/2	2	36 1/2	23

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.



# High Flow Adsorber Filters

**F6**



## SPECIFICATIONS

### Metal Bowl

- Aluminum blue coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

### Metal Bowl with Sight

- Aluminum blue coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°F

**Body** Blue coated aluminum

**Baffle** plastic

**Seals** Buna N

### Element

- Multi-wrapped layers of impregnated activated charcoal particles to increase purification qualities. If the compressed air has been prepared by a suitable refrigerated dryer and F5A Oilescer filter, the F6 Absorber will insure oil concentrations of .0015 PPM by weight. In all cases, an F5 Oilescer must precede an F6 Absorber. To prevent any particle migration downstream an F3 with 3 micron element should be installed downstream for total system protection.

## KITS

- Float for External Drain . . . . .5200

### Bowl Kits

- Metal bowl with sight . . . . . BKF510W
- Metal bowl without sight . . . . . BKF510M
- Metal bowl with sight . . . . . BKF518W
- Metal bowl without sight . . . . . BKF518M
- Metal bowl with sight . . . . . BKF528W
- Metal bowl without sight . . . . . BKF528M

### Element Kits

- Charcoal wrapped 2-pack . . . . . EKF611, EKF619, Clear net no color . . . . . EKF629

### Repair Kits

- Repair kit . . . . . RKF511 RKF519 RKF529
- Replacement sight kit . . . . . BSF510

## APPLICATIONS

- Food plants
- Pharmaceutical
- Instrumentation

## FEATURES

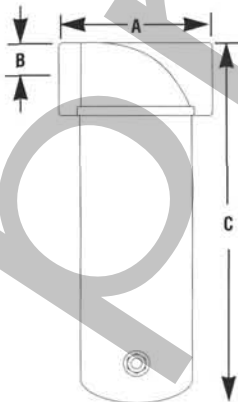
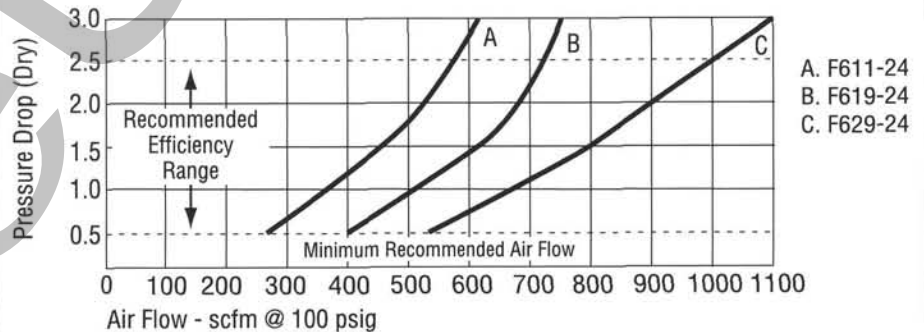
- Protects end processes from gaseous oil contamination and rids compressed air of offensive oily odors
- Removes hydrocarbons for use in analytical instruments
- Low pressure drop
- Manual drain

## OPTIONS

add suffix to part number in alpha order

- C** Arrowlight differential pressure light . . . . . F611-24C
- D** Differential pressure gauge . . . . . F611-24D
- T** External Float Drain . . . . . F611-24T
- W** Metal bowl with sight glass . . . . . F611-24W

## PERFORMANCE CHARACTERISTICS



## DIMENSIONS

PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	DIMENSIONS (INCHES)			WEIGHT (LBS.)
			A	B	C	
3"	F611-24	560	7 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	20 <sup>3</sup> / <sub>16</sub>	21
3"	F619-24	710	7 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	28 <sup>11</sup> / <sub>16</sub>	24
3"	F629-24	1000	7 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	38 <sup>15</sup> / <sub>16</sub>	28

\* Flow scfm based on 2.5 psi Δ p @ 100 psig inlet.