CATALOGS CATALOGS







FRL CATALOG FRL CATALOG

FILTERS REGULATORS LUBRICATORS ACCESSORIES



ARROW PNEUMATICS

Arrow Pneumatics manufactures a broad range of air preparation products. They include: particulate, oil removing, coalescing and absorbing filters; regulators; lubricators; sintered bronze exhaust mufflers, speed controls and in-line filters; aftercoolers, refrigerated and regenerative air dryers.

Technology expertise, patented design features, high quality standards and timely reaction to industry demands have established Arrow Pneumatics as a leader in the compressed air preparation field.

Arrow Pneumatics has a staff of qualified sales engineers to assist you with solutions to compressed air system needs and is committed to the future of compressed air technology.

COMPRESSED AIR SYSTEMS

Compressed air powered equipment and machinery are critical elements in the productivity, efficiency and economy of today's industry, and quality air is the essential ingredient. High speed pneumatic production lines operate efficiently because of air dryers and filters that remove moisture and impurities from the air and regulators and lubricators which help eliminate downtime.

AIR DRYERS

Water in a compressed air system, if not removed, can damage production machinery, rust pipes, shorten component life, clog air lines and reduce air flow, resulting in costly downtime and defective product. Dryers remove water vapor from the air. Installing a dryer removes this water vapor before it condenses in the line or in downstream equipment.

FILTERS

Particulate filters remove harmful oil and water condensate, pipe scale, dirt and rust from your compressed air system. This prevents corrosive damage to compressed air equipment and finished products. Typically, particulate filters are installed upstream of regulators to prevent valve failure. They are also used as pre-filters to oil removing and coalescing filters to insure high efficiency and long element life in applications such as paint spraying, instrumentation and pharmaceuticals.

Certain pneumatic systems require air virtually free of oil and oil vapors. In these instances, oil removal may be achieved with the use of a coalescing filter.

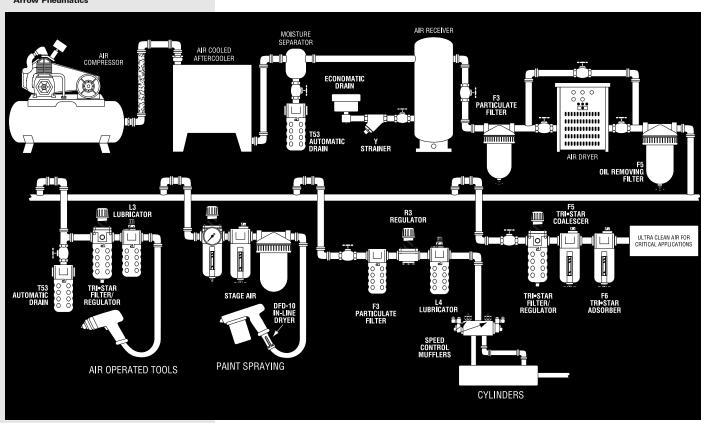
REGULATORS

Pneumatic equipment that operates at higher than recommended pressure can cause excess torque, force and wear and can waste compressed air. Operating below specified pressure can cause machines to fail to meet their design performance specifications. Therefore, precise air pressure control is essential to efficient operation of air-powered equipment. An air line regulator is a specialized control valve which reduces upstream supply pressure level to a specified constant downstream pressure.

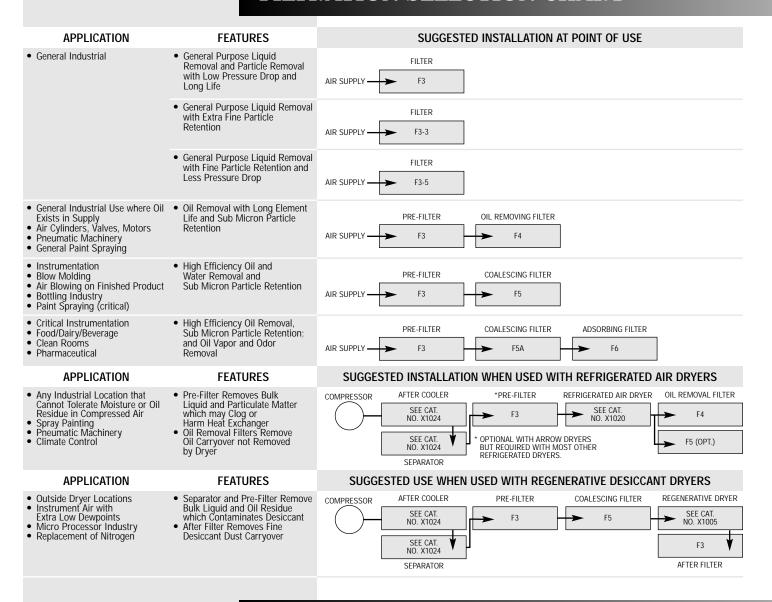
LUBRICATORS

Most pneumatic system components and most pneumatic tools require oil lubrication for proper operation and long service life. Too little oil can cause excessive wear and premature failure. Too much oil is wasteful and can become a contaminant, particularly when carried over with the air exhaust. Pneumatic equipment can be lubricated by the use of an air-line lubricator. Filtered and regulated air enters the lubricator and is mixed with oil in an aerosol mist. The lubricated air is then routed to the operating system.





FILTRATION SELECTION CHART



TECHNICAL DATA

ARROW FILTER SERIES	USAGE	S	UFFIX	PARTICLE SIZE REMOVAL	D.O.P. EFFICIENCY	REMAINING OIL CONTENT BY WEIGHT (Intake of 50 ppm)	DRY PRESSURE DROP	MATERIAL
Series F3 Particulate	Bulk Liquid (Water, Oil) and Particle Removal	3 5 Std	Extra Fine Fine General	3 μ ABSOLUTE 5 μ NOMINAL 40 μ NOMINAL			5 psig at Nominal Rated Flow for Std. Element	Cellulose Porous Bronze Porous Bronze
Series F4 Oil Removal Coalescing Style	Economical Liquid Oil and Oil Aerosol Removal	Std	General	.9 μ	95%	2.5 ppm	.5 to 2.5 psig	Borosilicate Micro Glass Fibers
Series F5 Coalescing Style	High Efficiency Removal of Water, Oil Aerosols; Plus Sub Micron Particle Retention	A Std	Extra High Efficiency High Efficiency	.01 μ .03 μ	99.9999% 99.97%	.0005 ppm .015 ppm	.5 to 2.5 psig	Borosilicate Micro Glass Fibers
Series F6 Adsorbing, Charcoal Impregnated Coalescing Style	Removal of Oil Vapors and Oil Associated Odors as well as Solid Particulate Contaminates. Requires F5A Pre-Filter	Std			90%	.0001 ppm	.5 to 2.5 psig	Borosilicate Micro Glass Fibers Impregnated with Activated Charcoal Particles



PARTICULATE FILTERS

Arrow F3 series particulate filters remove harmful oil/water condensate, pipe scale, dirt and rust from your compressed air system. This prevents corrosive damage to compressed air equipment and finished products. Typically, particulate filters are installed upstream of regulators to prevent valve failure. They are also used as pre-filters to oil removing and coalescing filters to insure high efficiency and long element life in applications such as paint spraying, instrumentation and pharmaceuticals.

Each filter is equipped with a highly efficient baffling system for maximum bulk liquid and dirt particle removal. The Arrow heavy-duty, cleanable porous bronze element removes fine particles. Particle removal can be tailored to specific needs with either the 40 or 5 micron bronze element. An optional 3 micron absolute pleated fiber element is also offered for extra-fine particle removal.

The Arrow 3 micron absolute element is a high efficiency filter element with solid particulate removal in the 90% efficiency range down to .28 microns. The Beta efficiency rating is 99.5%. The element is constructed of pleated cloth fibers and rib supports for strength. Both ends have urethane 50 durometer elastomer seals to insure particulate entrapment. The pleated fiber design gives this element 10 times the surface area of similar nominal rated elements. This increased surface area provides a long element life and the same pressure drop characteristics as our current 40 micron element. When used as a pre-filter to a coalescing filter, it will increase the life of the coalescing element by 4 to 6 times.



LEGEND



 Air Containing Liquid and Particulate

- Clean Air

- Liquid and Particulate

IMPORTANT: Particulate filters only remove water in its liquid state. Water vapors will pass through a particulate filter and condense into liquid as the temperature in the air line drops. Liquid condensation may have a harmful effect on certain applications. We recommend installing an ARROW dryer for complete removal of liquid condensation from the system.





Miniature Particulate Filters

SPECIFICATIONS

WARNING! Polycarbonate plastic bowls could rupture if exposed to incompatible chemicals whether inside or outside the bowl. If such chemicals are present, use a metal bowl.

Polycarbonate Bowl

- Max. pressure 150 psig
- Operating temperature range 40°F to 125°F

Metal Bowl

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 175°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.

- Max. pressure 175 psig
- Operating temperature range 40°F to175°F

Body black coated zinc Baffle plastic Seals Buna N

Elements

- 20 micron sintered bronze
- 5 micron sintered bronze

KITS

Bowl Kits

•	PolycarbonateBKF300
•	Polycarbonate with
	overnight drain BKF300J
•	Metal BKF300M

Element Kits

•	20 micron 2-pack	EKF300
•	5 micron 2-pack	EKF300-5

Drain Kit

,	Piston	drain	kit										PKF300
	1 13(011	ululli	IXIL .	٠	٠	٠	•	٠	•	٠	٠	٠	1 10 300

• Mounting Bracket FBK3

OPTIONS

FEATURES

add suffix to part number in alpha and numeric order

20 micron sintered bronze elementHigh strength, recleanable

• 1 oz. polycarbonate bowl

· Manual twist drain

Overnight Drains

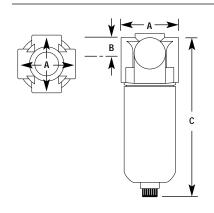
An overnight drain operates when a compressed air system is shut down. It clears accumulated condensate from a filter bowl when pressure falls to 3 psig or less. It then closes when pressure rises to 6 psig.

J	Overnight drain for	
	polycarbonate bowl	F300-01 J
	Push to manually drain.	

Κ	Overnight drain for	
	metal bowl	F300-01 KM
	Twist to manually drain.	
М	Metal howl	F300-01 M

IVI	Metal Dowl
Z	Piston drain F300-01 Z
-5	5 micron element F300-01-5

PERFORMANCE CHARACTERISTICS FOR 20 MICRON ELEMENT 5.0 4.0 3.0 2.0 1.0 4 ir Flow - scfm @ 100 psig * 5 micron element calculate a 10% less flow.



DIMENSIONS							
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMEN A	ISIONS (IN	ICHES) C	WEIGHT (LBS.)
1/8"	F300-01	27	1 oz.	11/2	1/2	4 ⁵ / ₈	.5
1/4"	F300-02	27	1 oz.	11/2	1/2	4 ⁵ / ₈	.5

^{*} Flow scfm based on 5.0 psi \triangle p @ 100 psig inlet.



Tri•Star Particulate Filters

OPTIONS

add suffix to part number in alpha and numeric order

Float Drain

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

F Internal float drain......F352F

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.

- J Overnight drain for polycarbonate bowl F352J Push to manually drain.
- K Overnight drain for metal bowl F352KM *Twist to manually drain.*
- M Black coated metal bowl F352M
 W Black coated
- metal bowl with sight F352**W**-5 5 micron element F352-5
- -3 3 micron absolute element . F352-3

SPECIFICATIONS

WARNING! Polycarbonate plastic bowls could rupture if exposed to incompatible chemicals whether inside or outside the bowl. If such chemicals are present, use a metal bowl.

Polycarbonate Bowl

- Max. supply pressure 150 psig
- Operating temperature range 40°F to 125°F

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

Buna N float

Seals Buna N

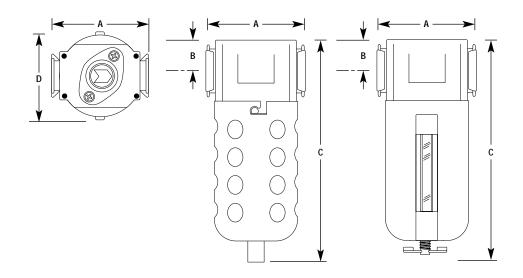
Note: limits bowl temperature and pressure rating

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

Body black coated aluminum Bowl Guard nickel plated steel Baffle plastic Vane plastic



- 40 micron sintered bronze element offers depth filtration. High strength, recleanable
- 5 oz. polycarbonate bowl with nickel plated steel bowl guard
- Manual push drain on polycarbonate bowl
- In-line or modular installation





Elements

- 40 micron sintered bronze standard
- 5 micron sintered bronze
- 3 micron absolute pleated fiber

KITS

• Internal float drain kit 5200

Bowl Kits

- Polycarbonate with guard . . . BKF35Black coated metal BKF45M
- Black coated metal
- with sight BKF45W

Element Kits

40 micron 2-pack EK35
 5 micron 2-pack EK35-5
 3 micron absolute 2-pack . . EK35-3

Repair Kits

Repair kit RKF35Replacement sight kit WK45

Mounting Kit see page 65

• Mounting kit FBK5

PERFORMANCE CHARACTERISTICS FOR 40 MICRON ELEMENT 5.0 4.0 Pressure Drop A. F352 B. F353 3.0 C. F354 2.0 1.0 20 30 50 70 60 80 90 100 Air Flow - scfm @ 100 psig

* 5 micron element reduces flow by 10%

	DIMENSIONS							
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIM A	ENSION B	IS (INCI C	WEIGHT (LBS.)	
1/4"	F352	48	5 oz.	23/4	3/4	61/4	21/2	1.2
3/8"	F353	75	5 oz.	23/4	3/4	61/4	21/2	1.2
1/2"	F354	100	5 oz.	23/4	3/4	61/4	21/2	1.2
1/4"	F352W	48	6 oz.	23/4	3/4	67/8	21/2	1.7
3/8"	F353W	75	6 oz.	23/4	3/4	67/8	21/2	1.7
1/2"	F354W	100	6 oz.	23/4	3/4	67/8	21/2	1.7

^{*} Flow scfm based on 5.0 psi \triangle p @ 100 psig inlet.

3 Micron Absolute

The new Arrow 3 micron absolute element is a high efficiency particulate removal element. Unlike nominal rated particulate elements, the 3 micron absolute is qualified to an efficiency rating of 99.5% solid particulate removal at 3 microns, and maintains 95% efficiency ratings to .3 microns.

PARTICLE	REMOVAL EFFICIENCY RATING*					
SIZE	5 MICRON NOMINAL	ARROW 3 MICRON ABSOLUTE				
.3 μ	19.2%	95.0%				
.5 μ	28.8%	97.6%				
1.0 μ	35.1%	97.6%				
3.0 μ	89.7%	99.5%				

^{*} Beta Filtration Rating $\beta 3 = 200$

Features:

- Element media is cellulous and synthetic fibers with a resin binder.
 The pleated design has 10 times the surface area of sintered nominal rated elements and increases particle collection.
- End seals consist of 50 durometer Urethane to prevent solid particulate leakage past the element.
- Solid rib supports add extra strength and prevent element collapse under high differential pressure loads.
- Flow and pressure drop identical to 40 micron element.

Applications:

- Air gauging equipment
- Instrument air
- After filter for desiccant dryer





MidFlow Particulate 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

• 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 Baffle plastic Seals Buna N Vane plastic

Elements

- 40 micron sintered bronze
- 5 micron sintered bronze
- 3 micron absolute pleated fiber

KITS

• Internal float drain kit 5200

Bowl Kits

•	Metal with sight	BKF47W
	_	BKF48W
•	Metal without sight	BKF47M
	•	BKF48M

Element Kits

•	40 micron	EK37, EK38
•	5 micron	EK37-5, EK38-5
•	3 micron absolute	FK37-3 FK38-3

Repair Kits

•	Repair kit	. RKF37
		RKF38
•	Replacement sight kit	. WK47

Mounting Kit see page 65

• Mounting kit FBK7

FEATURES

- 40 micron sintered bronze element offers depth filtration. High strength, recleanable
- 10 oz. or 20 oz. black coated metal bowl with liquid level sight
- Manual twist drain
- High Flow, low pressure drop

OPTIONS

add suffix to part number in alpha and numeric order

Float Drain

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

F. Internal float drain. F373FW

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.

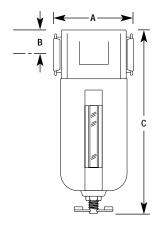
K Overnight drain F373KW Twist to manually drain.

M Metal bowl

without sight glass F373M

5 5 micron element F373W5

3 micron absolute element . F373W3



DIMENSIONS							
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMEN A	WEIGHT (LBS.)		
3/8"	F373W	110	10 oz.	33/4	13/32	75/8	2.7
3/8"	F383W	110	20 oz.	33/4	13/32	107/8	3.8
1/2"	F374W	160	10 oz.	33/4	13/32	7 ⁵ / ₈	2.7
1/2"	F384W	165	20 oz.	33/4	13/32	107/8	3.8
3/4"	F376W	230	10 oz.	33/4	13/32	7 ⁵ / ₈	2.7
3/4"	F386W	245	20 oz.	33/4	13/32	10 ⁷ /8	3.8

^{*} Flow scfm based on 5.0 psi \triangle p @ 100 psig inlet.



FEATURES

- 40 micron sintered bronze element offers depth filtration. High strength, recleanable.
- Metal bowl is standard with liquid level sight
- Manual twist drain

OPTIONS

add suffix to part number in alpha and numeric order

D Differential pressure gauge . F329-10 DWFloat Drain

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

F Internal float drain......F329-08FW 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 for metal bowl F329-08KW

Twist to manually drain

5 5 micron element F329-08W5 3 micron absolute element . F329-08W3

For Metal Bowl without sight delete W

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

Body black coated aluminum Baffle plastic Seals Buna N Vane aluminum

Elements

- 40 micron sintered bronze
- 5 micron sintered bronze
- 3 micron absolute pleated fiber

KITS

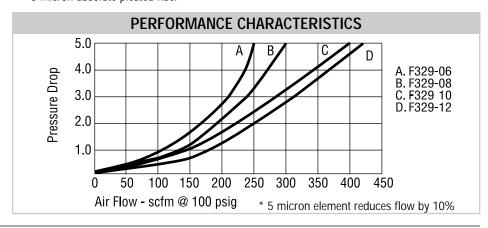
• Internal float drain. 5200

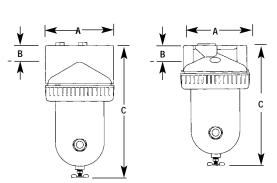
Bowl Kits

Metal with sight BKF329WMetal without sight BKF329M

Element Kits

Repair Kits





F329-06W, F329-08W

F329-10W, F329-12W

	DIMENSIONS							
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMEN A	WEIGHT (LBS.)			
3/4"	F329-06W	260	29 oz.	5 ⁵ / ₃₂	13/16	9 ¹³ / ₃₂	3.7	
1"	F329-08W	300	29 oz.	55/32	15/16	9 ¹³ / ₃₂	3.7	
11/4"	F329-10W	400	29 oz.	5 ¹ / ₄	11/2	1011/32	6.3	
11/2"	F329-12W	425	29 oz.	5 ¹ / ₄	11/2	1011/32	6.3	

^{*} Flow scfm based on 5.0 psi △ p @ 100 psig inlet.



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

Body black coated aluminum Baffle plastic Seals Buna N Vane aluminum

Elements

- 40 micron pleated fiber
- 5 micron pleated fiber
- 3 micron absolute pleated fiber

KITS

Internal float drain. 5200

Bowl Kits

 Metal with sight BKF364W Metal without sight BKF364

Element Kits

• 40 micron. EKF358 3 micron EKF358-3

Repair Kits

Replacement sight kit WK35

FEATURES

- · 40 micron pleated fiber element offers depth filtration. High strength, recleanable.
- Metal bowl is standard
- Twist drain

OPTIONS

add suffix to part number in alpha and numeric order

D Differential pressure gauge . F358HF-08D Float Drain

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

F Internal float drain......F358HF-08F **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.

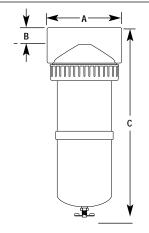
- Overnight drain F358HF-08K Twist to manually drain.
- Metal bowl

with sight glass......F358HF-08W

-3 3 micron

absolute element F358HF-08-3

PERFORMANCE CHARACTERISTICS FOR 40 MICRON ELEMENT 5.0 4.0 A. F358HF-08 Pressure Drop B. F358HF-10 3.0 C. F358HF-12 2.0 1.0 100 150 200 250 50 300 350 400 450 500 Air Flow - scfm @ 100 psig * 5 micron element reduces flow by 10%



	DIMENSIONS							
PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMEN: A	SIONS (IN B	ICHES) C	WEIGHT (LBS.)	
1"	F358HF-08	50 oz.	460	5 ¹ / ₄	11/2	14 ¹ / ₂	11	
11/4"	F358HF-10	50 oz.	500	5 ¹ / ₄	11/2	141/2	9	
11/2"	F358HF-12	50 oz.	550	5 ¹ / ₄	11/2	141/2	7.8	

^{*} Flow scfm based on 5.0 psi △ p @ 100 psig inlet.



High Flow Particulate Filters

SPECIFICATIONS

Metal Bowl

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

Metal Bowl with sight

- · Black coated aluminum
- Max. supply pressure 250 psig
- Operating temperature range 40°F to 160°F

Body black coated aluminum Baffle plastic Seals Buna N

KITS

• Float for External Drain 5200

Bowl Kits

•	Metal with sight	RKF210M
•	Metal without sight	BKF510
•	Metal with sight	BKF518W
•	Metal without sight	BKF518

Element Kits

•	40 micron EKF3N1
•	3 micron EKF3N1-3
•	40 micron EKF3NHF
•	3 micron EKF3NHF-3

Repair Kits

•	Repair kit	RKF3N1
		RKF519
•	Replacement sight kit	. BSF510

recleanable. · Metal bowl is standard

Twist drain

FEATURES

OPTIONS

add suffix to part number in alpha and numeric order

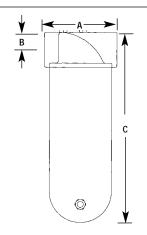
• 40 micron standard element offers depth

filtration for 11/2" and 2". High strength,

D Differential pressure gauge . F3N1-12D External Float Drain F3N1-12T W Metal bowl with sight glass. F3N1-12 \boldsymbol{W}

-**3** 3 micron absolute elementF3N1-12-3

PERFORMANCE CHARACTERISTICS FOR 40 MICRON ELEMENT 5.0 4.0 A. F3M-12, Pressure Drop F3M-16 3.0 B. F3MHF-24 2.0 1.0 150 300 450 600 750 900 1050 1200 1350 1500 Air Flow - scfm @ 100 psig * 5 micron element reduces flow by 10%



	DIMENSIONS							
PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMENSIONS (INCHES) A B C			WEIGHT (LBS.)	
11/2"	F3N1-12	100 oz.	910	61/2	2	173/4	13	
2"	F3N1-16	100 oz.	910	61/2	2	173/4	13	
3"	F3NHF-24	200 oz.	1300	75/8	21/4	27 ¹ / ₂	18	

^{*} Flow scfm based on 5.0 psi \triangle p @ 100 psig inlet.

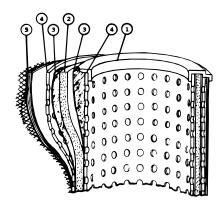
A coalescing filter functions in a different way from a standard particulate filter. Air flows from inside to outside through a coalescing media. Coalescing, by definition, means "to come together". It is a continuous process by which small aerosols come in contact with the fibers in the filter media, 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.

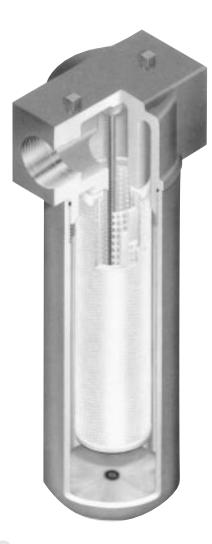
F4 oil removing filters offer general industrial filtration with low pressure drop and long element life. They are often used with older compressors where downstream oil carryover is excessive and when longer element life and low pressure drop are a concern.

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 critical applications that will not tolerate the presence of oil vapors. 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.





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

• .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 Kit see page 65

• Mounting kit 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

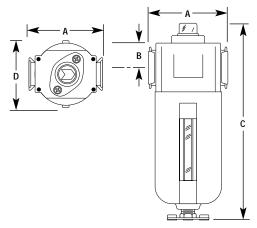
add suffix to part number in alpha order

Float Drain

F Internal float drain F452FW

For Metal Bowl without sight delete W

	PERFORMANCE CHARACTERISTICS
ressure Drop (Dry)	3.0 2.5 2.0 Recommended 1.5 1.0 0.5 0 5 10 15 20 25 30 35 40 45 50 55 Air Flow - scfm @ 100 psig



	DIMENSIONS							
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIM A	ENSION B	IS (INCI C	HES) D	WEIGHT (LBS.)
1/4"	F452W	27	6 oz.	23/4	3/4	75/8	21/2	1.7
3/8"	F453W	45	6 oz.	23/4	3/4	75/8	21/2	1.7
1/2"	F454W	53	6 oz.	23/4	3/4	75/8	21/2	1.7

^{*} Flow scfm based on 2.5 psi △ 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 Kit see page 65

• Mounting kit FBK7

FEATURES

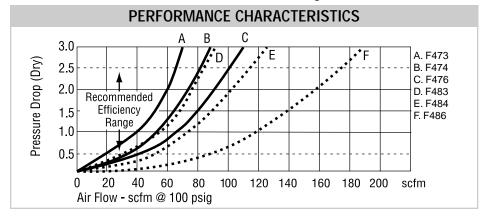
- .9 micron element
- Low pressure drop
- Long element life
- Pop-up indicator indicates abnormal condition such as plugged element or excessive flow. Critical protection requires changing element at regular intervals.
- 10 oz. or 20 oz. black coated metal bowl with liquid level sight
- Manual twist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

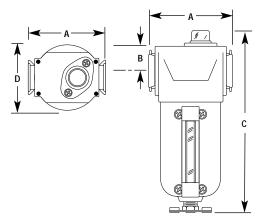
OPTIONS

add suffix to part number in alpha order

Float Drain

F Internal float drain F473FWM Metal bowl without sight glass F473M





DIMENSIONS								
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIN A	DIMENSIONS (INCHES) A B C D			
3/8"	F473W	66	10 oz.	33/4	11/8	81/4	3	2.7
3/8"	F483W	84	20 oz.	33/4	11/8	11 ¹ / ₂	3	3.6
1/2"	F474W	83	10 oz.	33/4	11/8	81/4	3	2.7
1/2"	F484W	116	20 oz.	33/4	11/8	11 ¹ / ₂	3	3.6
3/4"	F476W	98	10 oz.	33/4	1 ¹ /8	81/4	3	2.7
3/4"	F486W	172	20 oz.	33/4	1 ¹ /8	11 ¹ / ₂	3	3.6

^{*} Flow scfm based on 2.5 psi △ 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 Baffle aluminum Seals Buna N

Elements

• .9 micron borosilicate glass fiber D.O.P. Efficiciency: 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	

Panair Vita

K,	epaii kiis
•	Repair kit RKF505
•	Repair kit RKF508
•	Replacement sight kit 405 WK35
•	Replacement sight kit 408 WK35

Low pressure drop · Long element life

FEATURES

• .9 micron element

Manual twist drain

OPTIONS add suffix to part number in alpha and

D Differential pressure gauge . F408-10D

Float Drain

numeric order

An internal float rises as condensate accumulates in a filter bowl to activate the drain. F Internal float drain......F405-06FW F408-08**F**W

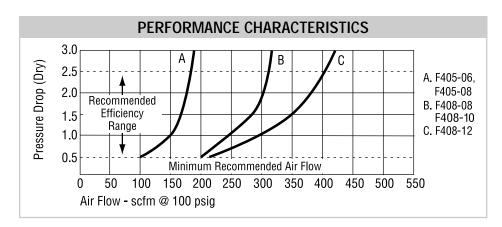
Overnight Drains

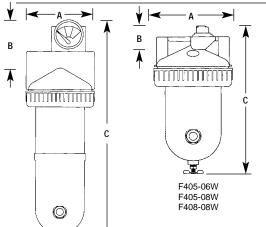
F408-10DW, F408-12DW

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

twist to manually drain F408-08KW

For Metal Bowl without sight delete W





DIMENSIONS									
PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMEN A	DIMENSIONS (INCHES) A B C				
3/4"	F405-06W	29 oz.	185	47/8	13/16	9 ¹³ / ₃₂	3.7		
1"	F405-08W	29 oz.	185	47/8	13/16	913/32	3.7		
1"	F408-08W	60 oz.	300	47/8	13/16	1413/32	6.0		
11/4"	F408-10DW	60 oz.	300	5 ⁵ / ₃₂	33/4	16³/ ₄	6.3		
11/2"	F408-12DW	60 oz.	400	5 ⁵ / ₃₂	33/4	16³/ ₄	6.3		

^{*} Flow scfm based on 2.5 psi △ p @ 100 psig inlet.







FEATURES

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

OPTIONS

add suffix to part number in alpha order

D Differential pressure gauge . F410-08D

T External Float Drain F410-08T

W Metal bowl

SPECIFICATIONS

Metal Bowl

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

Metal Bowl with sight

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

Body black coated aluminum Baffle plastic Seals Buna N

Element

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

KITS

• Float for External Drain 5200

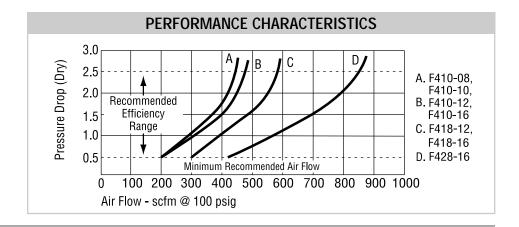
Bowl Kits

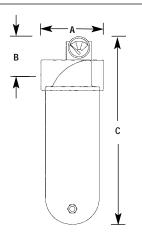
Metal without sight F410....BKF510
Metal with sight F410....BKF510W
Metal without sight F418...BKF518
Metal with sight F418...BKF518W
Metal without sight F428...BKF528
Metal with sight F428...BKF528W

Element Kit

Repair Kits

Repair kit RKF511Replacement sight kit BSF510





DIMENSIONS							
PIPE SIZE	MODEL NO.	BOWL Capacity	MAX. FLOW SCFM*	DIMENS A	WEIGHT (LBS.)		
1"	F410-08	100 oz.	420	61/2	2	21	16
11/4"	F410-10	100 oz.	420	61/2	2	21	16
11/2"	F410-12	100 oz.	475	61/2	2	21	16
11/2"	F418-12	200 oz.	590	61/2	2	283/4	19
2"	F410-16	100 oz.	475	61/2	2	21	16
2"	F418-16	200 oz.	590	61/2	2	283/4	19
2"	F428-16	300 oz.	840	61/2	2	39	23

^{*} Flow scfm based on 2.5 psi △ p @ 100 psig inlet.



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 F500-02**A**

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 for polycarbonate bowl F500-02J Push to manually drain.
- K Overnight drain for metal bowlF500-02KM Twist to manually drain.

Miniature Coalescing Filters

SPECIFICATIONS

Polycarbonate Bowl

- Max. pressure 150 psig
- Operating temperature range 40°F to 125°F

Metal Bowl

- Black coated Aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 175°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

Rody

· Black coated aluminum

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
В	owl Kits
•	1 oz. poly. bowl BKF300
•	1 oz. poly. bowl
	with piston drain BKF300J
•	1 oz. metal bowl BKF300M

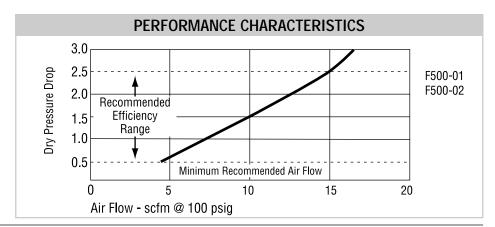
 1 oz. metal bowl with overnight drain BKF300KM

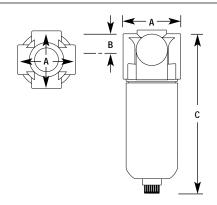
Element Kits

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

Mounting Kit see page 65

• Mounting kit FBK3





DIMENSIONS								
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMEN A	DIMENSIONS (INCHES) A B C			
1/8"	F500-01	15	1 oz.	11/2	1/2	41/2	.5	
1/4"	F500-02	15	1 oz.	11/2	1/2	41/2	.5	

^{*} Flow scfm based on 2.5 psi \triangle p @ 100 psig inlet.





Tri•Star Coalescing Filters

SPECIFICATIONS

Body Black coated aluminum Baffle plastic Seals Buna N

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 Kit see page 65

• Mounting kit FBK3

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

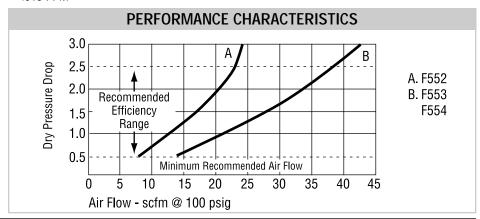
OPTIONS

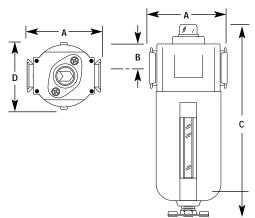
add suffix to part number in alpha order A .01 micron element F552AW

Float Drain

Internal float drain F552FW

For Metal Bowl without sight delete W





	DIMENSIONS							
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIM A	ENSION B	WEIGHT (LBS.)		
1/4"	F552W	24	6 oz.	23/4	3/4	75/8	21/2	1.7
3/8"	F553W	37	6 oz.	23/4	3/4	75/8	21/2	1.7
1/2"	F554W	37	6 oz.	23/4	3/4	75/8	21/2	1.7

^{*} Flow scfm based on 2.5 psi △ p @ 100 psig inlet.



FEATURES

• .03 micron fiber element

Low pressure drop

Manual drain

OPTIONS

• Pop-up indicator indicates abnormal

condition such as plugged element or

changing element at regular intervals.

10 oz. or 20 oz. black coated metal

bowl with liquid level sight

excessive flow. Critical protection requires

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	. BKF4/W
•	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

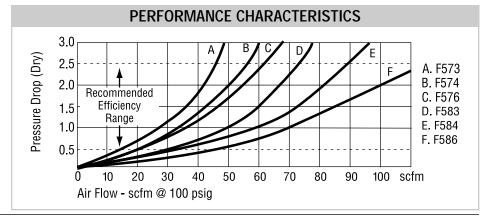
• Repair kit	RKF47, RKF48
• Replacement sight kit	WK37
• Indicator Pop-up kit	DPK-05

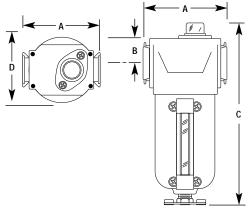
Mounting Kit see page 65

• Mounting kit FBK7

A .01 micron element ... F573AW Float Drain F Internal float drain ... F573FW K Overnight drain ... F573KW M Black coated metal bowl ... F573M

add suffix to part number in alpha order





DIMENSIONS								
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DII A	DIMENSIONS (INCHES) A B C D			WEIGHT (LBS.)
3/8"	F573W	48	10	33/4	1 ¹ /8	81/4	3	2.7
3/8"	F583W	72	20	33/4	11/8	11 ¹ / ₂	3	3.6
1/2"	F574W	55	10	33/4	11/8	81/4	3	2.7
1/2"	F584W	90	20	33/4	1 ¹ / ₈	11 ¹ / ₂	3	3.6
3/4"	F576W	60	10	33/4	1 ¹ / ₈	81/4	3	2.7
3/4"	F586W	110	20	33/4	11/8	11 ¹ / ₂	3	3.6

^{*} Flow scfm based on 2.5 psi △ p @ 100 psig inlet.



High Flow Coalescing Filters

F5

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 Baffle aluminum Seals Buna N

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

	opan into	
•	Repair kit 505	RKF505
•	Repair kit 508	RKF508
•	Replacement sight kit	WK35

Float Drain

FEATURES

Manual drain

OPTIONS

numeric order

Low pressure drop

.03 micron fiber element

F Internal float drain F505-06FW Overnight Drains

A .01 micron element F505-06AD Differential pressure gauge . F508-10D

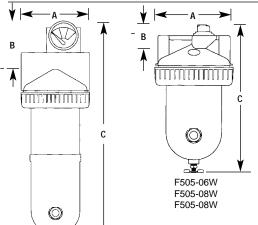
add suffix to part number in alpha and

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.

Twist to manually drain F508-08KW

For Metal Bowl without sight delete W

PERFORMANCE CHARACTERISTICS
3.0 2.5 2.0 Recommended Efficiency Range 0.5 Minimum Recommended Air Flow 0 30 60 90 120 150 180 210 240 270 300 330 Air Flow - scfm @ 100 psig



F508-10DW, F508-12DW

DIMENSIONS							
PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMEN A	ISIONS (IN B	ICHES) C	WEIGHT (LBS.)
3/4"	F505-06W	29 oz.	185	47/8	13/16	913/32	3.7
1"	F505-08W	29 oz.	185	47/8	13/16	913/32	3.7
1"	F508-08W	60 oz.	300	47/8	13/16	1413/32	6.0
11/4"	F508-10W	60 oz.	300	55/32	33/4	16³/ ₄	6.3
11/2"	F508-12W	60 oz.	400	5 ⁵ / ₃₂	33/4	16³/ ₄	6.3

^{*} Flow scfm based on 2.5 psi △ p @ 100 psig inlet.



Gauge Optional

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

D Differential pressure gauge . F510-08D

T External Float Drain F510-08T

W Metal bowl
with sight glass F510-08W

High Flow Coalescing Filters

SPECIFICATIONS

Metal Bowl

- · Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

Metal Bowl with Sight

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°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

• 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 ... BKF528W

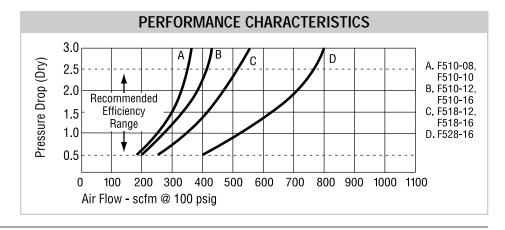
Element Kits

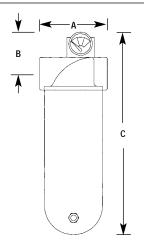
 .03 micron EKF510, Clear net no color EKF518, EKF528
 .01 micron EKF510A,

Red net or dot EKF518A, EKF528A

Repair Kits

• Replacement sight kit BSF510





	DIMENSIONS						
PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMEN A	ISIONS (IN B	ICHES) C	WEIGHT (LBS.)
1"	F510-08	100 oz.	310	61/2	2	21	16
11/4"	F510-10	100 oz.	310	61/2	2	21	16
11/2"	F510-12	100 oz.	415	61/2	2	21	16
11/2"	F518-12	200 oz.	515	61/2	2	283/4	19
2"	F510-16	100 oz.	415	61/2	2	21	16
2"	F518-16	200 oz.	515	61/2	2	283/4	19
2"	F528-16	300 oz.	765	61/2	2	39	23

^{*} Flow scfm based on 2.5 psi △ p @ 100 psig inlet.



Gauge Optional

FEATURES

• .03 micron fiber element

Low pressure drop

Manual drain

OPTIONS

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

High Flow Coalescing Filters

SPECIFICATIONS

Metal Bowl

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

Metal Bowl with Sight

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°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

• Float for External Drain 5200

Bowl Kits

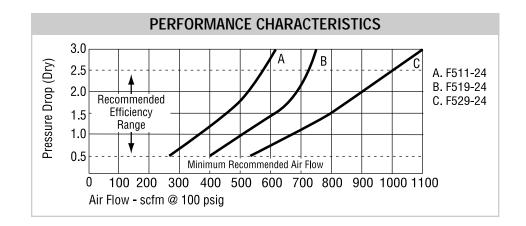
• Metal with sight BKF510W • Metal without sight BKF510 • Metal with sight BKF518W • Metal without sight BKF518 • Metal with sight BKF529W • Metal without sight BKF529

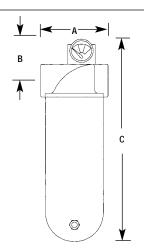
Element Kits

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

Repair Kits

Nopuli Kits	
Repair kit	RKF511
	RKF519
	RKF529
Replacement sight kit	. BSF510





	DIMENSIONS									
PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMEN A	WEIGHT (LBS.)					
3"	F511-24	100 oz.	620	75/8	21/4	2211/16	21			
3"	F519-24	200 oz.	770	75/8	21/4	313/16	24			
3"	F529-24	300 oz.	1100	7 ⁵ /8	21/4	417/16	28			

^{*} Flow scfm based on 2.5 psi \triangle p @ 100 psig inlet.

^{**} Add 3/4" to height (c) if ordered with gauge



• Protects end processes from gaseous oil

· Removes hydrocarbons for use in

Pop-up indicator indicates abnormal

excessive flow. Critical protection

· 6 oz. black coated metal bowl with

· Black coated aluminum housing

condition such as plugged element or

requires changing element at regular

contamination and rids compressed air of

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 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. Body Black coated aluminum Baffle plastic Seals Buna N

Bowl Kits

Metal bowl without sight BKF45MMetal bowl with sight BKF45W

Element Kits

 Charcoal wrapped 2-pack . . . EK65 Clear net no color

Repair Kits

Mounting Kit see page 65

• Mounting kit FBK5

APPLICATIONS

- Food plants
- Pharmaceutical
- Instrumentation

In-line or modular installation OPTIONS

intervals.

FEATURES

offensive oily odors

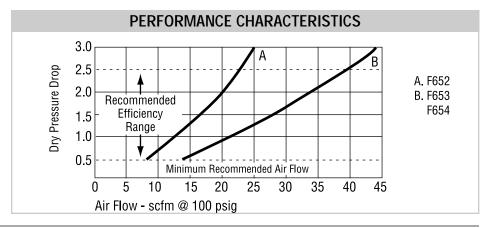
Low pressure drop

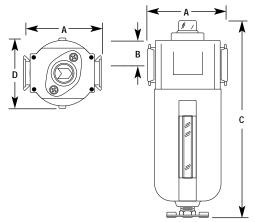
liquid level sight

Manual drain

analytical instruments

For Metal Bowl without sight delete W





	DIMENSIONS									
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIM A	ENSION B	WEIGHT (LBS.)				
1/4"	F652W	24	6 oz.	23/4	3/4	75/8	21/2	1.7		
3/8"	F653W	37	6 oz.	23/4	3/4	75/8	21/2	1.7		
1/2"	F654W	37	6 oz.	23/4	3/4	7 ⁵ / ₈	21/2	1.7		

^{*} Flow scfm based on 2.5 psi \triangle p @ 100 psig inlet.



Protects end processes from gaseous oil

• Removes hydrocarbons for use in

Pop-up indicator indicates abnormal

condition such as plugged element or

changing element at regular intervals. • 10 oz./20 oz. black coated metal bowl

excessive flow. Critical protection requires

contamination and rids compressed air of

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 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.

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

• Replacement sight kit WK37 • Indicator Pop-up kit DPK-05

Mounting Kit see page 65

• Mounting kit FBK7

APPLICATIONS

- Food plants
- Pharmaceutical
- Instrumentation

Manual drain **OPTIONS**

FEATURES

offensive oily odors

analytical instruments

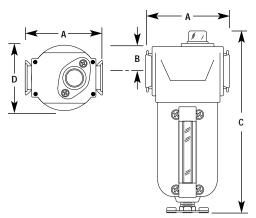
with liquid level sight Black coated aluminum housing

Low pressure drop

add suffix to part number in alpha order M Metal bowl

without sight glass F673M

PERFORMANCE CHARACTERISTICS 3.0 Pressure Drop (Dry) 2.5 A. F673 B. F674 2.0 Recommended C. F676 Efficiency 1.5 D. F683 Range E. F684 1.0 F. F686 0.5 60 70 20 Air Flow - scfm @ 100 psig



	DIMENSIONS										
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DII A	DIMENSIONS (INCHES) A B C D						
3/8"	F673W	48	10 oz.	33/4	1 ¹ / ₈	81/4	3	2.7			
3/8"	F683W	72	20 oz.	33/4	11/8	11 ¹ / ₂	3	3.8			
1/2"	F674W	56	10 oz.	33/4	1 ¹ / ₈	81/4	3	2.7			
1/2"	F684W	90	20 oz.	33/4	1 ¹ /8	11 ¹ / ₂	3	3.8			
3/4"	F676W	60	10 oz.	33/4	1 ¹ / ₈	81/4	3	2.7			
3/4"	F686W	110	20 oz.	33/4	1 ¹ / ₈	11 ¹ / ₂	3	3.8			

^{*} Flow scfm based on 2.5 psi \triangle p @ 100 psig inlet.



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 orderD Differential pressure gauge . . F608-10D

For Metal Bowl without sight delete W

High Flow Adsorber Filters

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 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. Body Black coated aluminum (Note: F608 Series blue aluminum) Baffle aluminum Seals Buna N

Bowl Kits

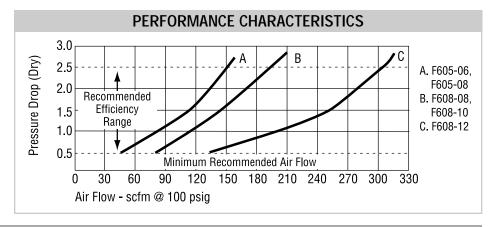
•	Metal bowl with sight	BKF329W
•	Metal bowl without sight	BKF329M
•	Metal bowl with sight	BKF364W
•	Metal bowl without sight	BKF364

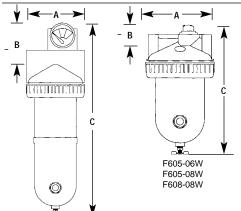
Element Kits

•	Charcoal wrapped 605	EKF605
•	Clear net no color Charcoal wrapped 608	EKF608
R	epair Kit	
•	Repair kit	RKF505
		RKF508
•	Replacement sight kit .	WK35

APPLICATIONS

- Food plants
- Pharmaceutical
- Instrumentation





	DIMENSIONS									
PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMEN A	DIMENSIONS (INCHES) A B C					
3/4"	F605-06W	29 oz.	185	47/8	13/16	913/32	3.7			
1"	F605-08W	29 oz.	185	47/8	13/16	913/32	3.7			
1"	F608-08W	60 oz.	300	47/8	13/16	1413/32	6.0			
11/4"	F608-10W	60 oz.	300	5 ¹ / ₄	11/2	16³/ ₄	6.3			
11/2"	F608-12W	60 oz.	400	5 ¹ / ₄	11/2	16³/ ₄	6.3			

^{*} Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

F608-10DW, F608-12DW



Gauge Optional

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 D Differential pressure gauge . F610-10D External Float Drain F610-10T W Metal bowl with sight glass........... F610-10W

High Flow Adsorber Filters

SPECIFICATIONS

Metal Bowl

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

Metal Bowl with Sight

- · Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°F

Body Black 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

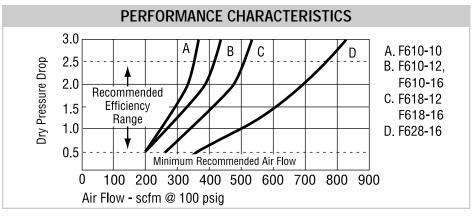
• Charcoal wrapped 2-pack . . . EKF610, EKF618, Clear net no color EKF628

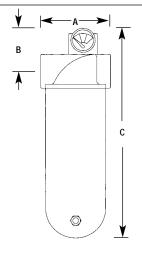
Repair Kits

•	Repair kit	RKF5TT
		RKF519
		RKF529
•	Replacement sight kit	BSF510

APPLICATIONS

- Food plants
- Pharmaceutical
- Instrumentation





	DIMENSIONS								
PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMEN A	DIMENSIONS (INCHES) A B C				
1"	F610-08	100 oz.	420	61/2	2	21	16		
11/4"	F610-10	100 oz.	420	61/2	2	21	16		
11/2"	F610-12	100 oz.	475	61/2	2	21	16		
11/2"	F618-12	200 oz.	590	61/2	2	283/4	19		
2"	F610-16	100 oz.	475	61/2	2	21	16		
2"	F618-16	200 oz.	590	61/2	2	283/4	19		
2"	F628-16	300 oz.	840	61/2	2	39	23		

^{*} Flow scfm based on 2.5 psi △ p @ 100 psig inlet.



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

D Differential pressure gauge . . F611-24D

T External Float Drain F611-24T

W Metal bowl
with sight glass F611-24W

High Flow Adsorber Filters

SPECIFICATIONS

Metal Bowl

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

Metal Bowl with Sight

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°F

Body Black 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 concentra tions 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

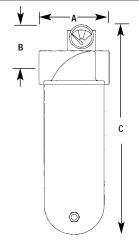
• Charcoal wrapped 2-pack . . . EKF611, EKF619, Clear net no color EKF629

Repair Kits

APPLICATIONS

- Food plants
- Pharmaceutical
- Instrumentation

PERFORMANCE CHARACTERISTICS
3.0 2.5 Recommended Efficiency Range



	DIMENSIONS								
PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMEN A	DIMENSIONS (INCHES) A B C				
3"	F611-24	100 oz.	620	75/8	21/4	2211/16	21		
3"	F619-24	200 oz.	770	75/8	21/4	313/16	24		
3"	F629-24	300 oz.	1100	75/8	21/4	417/16	28		

^{*} Flow scfm based on 2.5 psi △ p @ 100 psig inlet.



• 3 Micron absolute protection for .03

• Pop-up indicator indicates abnormal

condition such as plugged element or

changing element at regular intervals.

10 oz. or 20 oz. black coated metal

excessive flow. Critical protection requires

micron coalescing element

bowl with liquid level sight

Low pressure drop

MidFlow Two-in-One 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 with 3 micron absolute protection

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	EK77
	Clear net no color	FK78

Repair Kits

•	Repair kit	RKF47, RKF48
•	Replacement sight kit	WK37

• Indicator Pop-up kitDPK-05

Mounting Kit see page 65

Mounting kit FBK7

OPTIONS

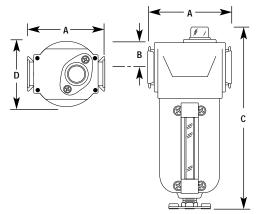
Manual drain

FEATURES

add suffix to part number in alpha order **Float Drain**

F Internal float drain F773FW
 K Overnight drain F773KW
 M Black coated metal bowl . . . F773M

PERFORMANCE CHARACTERISTICS MidFlow 2 in 1 Filter Elements A. F773W - 3/8" B. F774W - 1/2" C. F776W - 3/4" D. F783W - 3/8" E. F784W - 1/2" F. F786W - 3/4" Air Flow-scfm @100 psig



DIMENSIONS								
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DII A	MENSIOI B	WEIGHT (LBS.)		
3/8"	F773W	48	10	33/4	11/8	81/4	3	2.7
3/8"	F783W	72	20	33/4	11/8	11 ¹ / ₂	3	3.6
1/2"	F774W	55	10	33/4	11/8	81/4	3	2.7
1/2"	F784W	90	20	33/4	11/8	11 ¹ / ₂	3	3.6
3/4"	F776W	60	10	33/4	11/8	81/4	3	2.7
3/4"	F786W	110	20	33/4	1 ¹ / ₈	11 ¹ / ₂	3	3.6

^{*} Flow scfm based on 2.5 psi \triangle p @ 100 psig inlet.



High Flow Two-in-One Coalescing Filters

7

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 Baffle aluminum 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 with 3 micron absolute protection

•KITS

Internal float drain kit 5200Overnight 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) . . EKF705.03 micron 508 (Clear net) . . EK708

Repair Kits

Float Drain

OPTIONS

numeric order

FEATURES

Manual drain

Low pressure drop

F Internal float drain F705-06FW Overnight Drains

D Differential pressure gauge . F708-10D

• 3 Micron absolute protection for .03

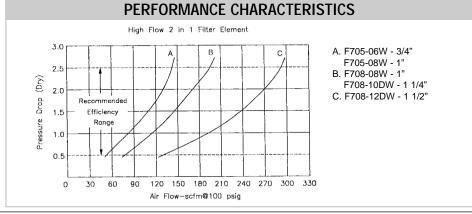
add suffix to part number in alpha and

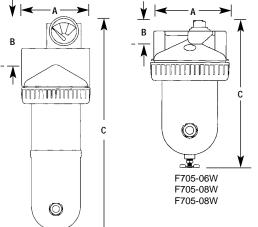
micron coalescing element

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.

Twist to manually drain F708-08KW

For Metal Bowl without sight delete W





DIMENSIONS									
PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMEN A	ISIONS (IN B	ICHES) C	WEIGHT (LBS.)		
3/4"	F705-06W	29 oz.	185	47/8	13/16	913/32	3.7		
1"	F705-08W	29 oz.	185	47/8	13/16	913/32	3.7		
1"	F708-08W	60 oz.	300	47/8	13/16	1413/32	6.0		
11/4"	F708-10W	60 oz.	300	55/32	33/4	16³/ ₄	6.3		
11/2"	F708-12W	60 oz.	400	55/32	33/4	16³/ ₄	6.3		

^{*} Flow scfm based on 2.5 psi \triangle p @ 100 psig inlet.

F708-10W, F708-12W



High Flow Two-in-One Coalescing Filters



SPECIFICATIONS

Metal Bowl

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

Metal Bowl with Sight

- Black Coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°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 with 3 micron absolute protection

KITS

• Float for External Drain 5200

Bowl Kit

•	Metal with sight	 RKF210M
•	Metal without sight	 BKF510
•	Metal with sight	 BKF518W
•	Metal without sight	 BKF518
•	Metal with sight	 BKF528W
•	Metal without sight	 BKF528

Element Kits

•	.03 micron	. EKF710,
	Clear net no color	. EKF718. EKF728

Repair Kits

	puii itits			
• [Repair kit	 	. RKF511,	RKF519,

• Replacement sight kit BSF510

FEATURES

3 Micron absolute protection for .03 micron coalescing element

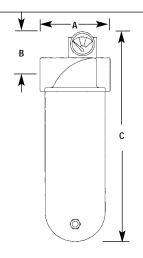
- Low pressure drop
- · Manual drain

OPTIONS

add suffix to part number in alpha order
 D Differential pressure gauge . F710-08D
 T External Float Drain F710-08T
 W Metal bowl

with sight glass..... F710-08W

PERFORMANCE CHARACTERISTICS High Flow 2 in 1 Flter Element A. F710-08 - 1" F710-10 - 1 1/4" B. F710-12 - 1 1/4" (Dry) F710-16 - 2" C. F718-12 - 1 1/2" Drop Recommended F718-16 - 2" Efficiency 1.5 D. F728-16 - 2" 100 200 300 400 500 600 700 800 900 1000 1100 Air Flow-scfm@100 psig



DIMENSIONS									
PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMEN A	DIMENSIONS (INCHES) A B C				
1"	F710-08	100 oz.	420	61/2	2	21	16		
11/4"	F710-10	100 oz.	420	61/2	2	21	16		
11/2"	F710-12	100 oz.	475	61/2	2	21	16		
11/2"	F718-12	200 oz.	590	61/2	2	283/4	19		
2"	F710-16	100 oz.	475	61/2	2	21	16		
2"	F718-16	200 oz.	590	61/2	2	283/4	19		
2"	F728-16	300 oz.	840	61/2	2	39	23		

^{*} Flow scfm based on 2.5 psi △ p @ 100 psig inlet.



DI/FF10W

High Flow Two-in-One Coalescing Filters Gauge Optional

SPECIFICATIONS

Metal Bowl

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 200°F

Metal Bowl with Sight

- Black coated aluminum
- Max. pressure 250 psig
- Operating temperature range 40°F to 160°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 with 3 micron absolute protection

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	EKF711
	Clear net no color	EKF719
		EKF729

Repair Kits

•	Repair k	it	 	 RKF511
				RKF519
				RKF529

• Replacement sight kit BSF510

FEATURES

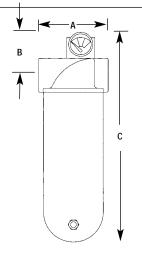
• 3 Micron absolute protection for .03 micron coalescing element

- Low pressure drop
- · Manual drain

OPTIONS

add suffix to part number in alpha order D Differential pressure gauge . SF711-24D T External Float Drain F711-24T W Metal bowl with sight glass F711-24W

PERFORMANCE CHARACTERISTICS High Flow 2 in 1 Filter Element 3.0 A. F711-24 - 3" B. F719-24 - 3" C. F729-24 - 3" (Dry) 2.0 Drop Efficiency 1.5 Range Pressure 100 200 300 400 500 600 700 800 900 1000 1100 Air Flow-scfm @ 100 psig



DIMENSIONS										
PIPE SIZE	MODEL NO.	BOWL CAPACITY	MAX. FLOW SCFM*	DIMEN A	DIMENSIONS (INCHES) A B C					
3"	F711-24	100 oz.	620	75/8	21/4	2211/16	21			
3"	F719-24	200 oz.	770	75/8	21/4	313/16	24			
3"	F729-24	300 oz.	1100	7 ⁵ /8	21/4	417/16	28			

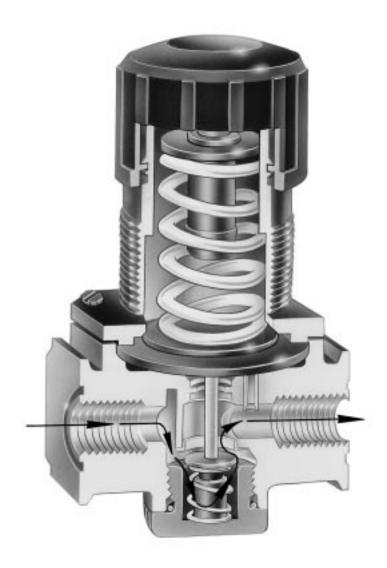
Flow scfm based on 2.5 psi △ p @ 100 psig inlet.

REGULATORS

Pneumatic devices are designed to work at a certain pressure. Most devices will operate at pressures in excess of that recommended. However, operating at higher pressures can cause excess torque, force and wear and can waste compressed air. The best operation and life of the device can be obtained by using the proper pressure level. A regulator is used to reduce and maintain the pressure at a level suitable for the device.

Arrow's quality Regulators include the Miniature Series which are high performance, low cost regulators for the O.E.M. market and low flow applications up to 25 scfm. Arrow's Tri•Star Series are compact, lightweight regulators engineered for superior performance in a wide range of applications where air flow does not exceed 100 scfm. Arrow's Midflow Series regulators are compact and available in 3/8", 1/2", 3/4" & 1" with air flows exceeding 200 SCFM. Arrow's High Flow Series heavy duty regulators are for rigorous applications requiring constant pressure for flows up to 700 scfm.

The General Purpose Precision Series features state-of-the-art engineering for precision control in critical tolerance applications. These regulators are available in standard and pilot operated models for both low and high flow applications. The Arrow Precision Regulator lineup can be tailored to fit your specific needs. All Arrow regulators are easily panel mounted. All Arrow regulators are designed with a micro seat finish to ensure no reduced pressure creep.





Miniature Air Regulators

SPECIFICATIONS

· Zinc, black coated

Bonnet

Glass filled nylon

Seals

Supply Pressure

Operating Pressure Range

Operating Temperature Range

• 40°F to 120°F

Gauge Ports

• Buna N

• 250 psig

- 5 to 125 psig standard
- 3 to 60 psig optional
- 3 to 20 psig optional

• 1/8" standard, full flow

KITS

Panel Mounting Kit

· Ring only, panel hole size 13/16" PK1611

Diaphragm Kits

•	Relieving							RK260
•	Non-relieving							RK260N

Bracket Kit see page 65

• Bracket and ring BR1611

OPTIONS

FEATURES

• Micro seat finish to ensure

• Diaphragm operation Relieving style standard

· Easily panel mounted

Tamper-proof cap included

no reduced pressure creep

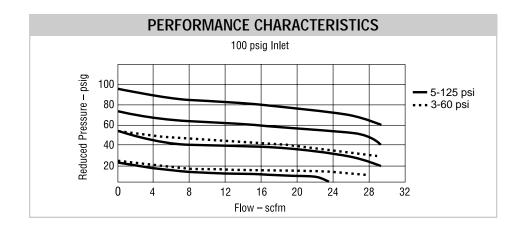
add suffix to part number in alpha order

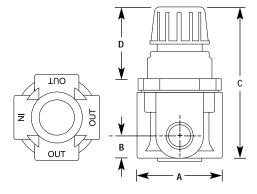
• Three position non-rising adjustment

knob; push to lock, pull to adjust, detach to make tamper resistant

2-Position mechanical					
Lock Knob R162 B					
Gauge (5-160 psi) R162 G					
Instrument pressure R162I					
3 to 20 psi adjustment					
Low pressure R162L					
3 to 60 psi adjustment					
Non-relieving R162N					
Panel mount R162P					

U No gauge ports R162U





	DIMENSIONS										
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	DI A	MENSION B	IS (INCHE C	S) D	WEIGHT (OZS.)				
1/8"	R161	25	11/2	1/2	23/4	11/4	6				
1/4"	R162	25	11/2	1/2	23/4	11/4	6				





Miniature Air Regulators

SPECIFICATIONS

3odv

Glass filled nylon

Bonnet

Glass filled nylon

Seals

Buna N

Supply Pressure

• 250 psig

Operating Pressure Range

- 5 to 125 psig standard
- 3 to 60 psig optional
- 3 to 20 psig optional

Operating Temperature Range

• 40°F to 120°F

Gauge Ports

• 1/8" standard, full flow

KITS

Panel Mounting Kit

• Ring only, panel hole size 13/16".....PK1611

Diaphragm Kits

Relieving RK260Non-relieving RK260N

Bracket Kit see page 65

• Bracket and ring BR1611

Applications

Non-relieving diaphragm can be used on liquid applications

LightweightOPTIONS

FEATURES

Micro seat finish to ensure

Diaphragm operationRelieving style standard

Easily panel mounted

• Tamper-proof cap included

no reduced pressure creep

add suffix to part number in alpha order

Three position non-rising adjustment

knob; push to lock, pull to adjust, detach to make tamper resistant

В	2-Position Mechanical
	11. I/I-

Lock Knob R262**B** Gauge (0-160 psi) R262**G**

I Instrument pressure R262I

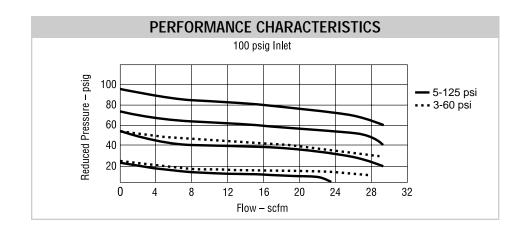
3 to 20 psi adjustment

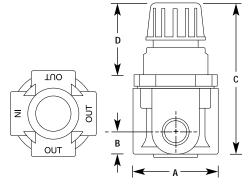
L Low pressure R262L 3 to 60 psi adjustment

V No gauge ports R262U
 V All '1/4" ports R262V

Y1 Viton diaphragm/valve set R262Y1

Y2 EDPM diaphragm/valve set R262Y2





	DIMENSIONS											
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	DI A	MENSION B	IS (INCHE C	S) D	WEIGHT (0ZS.)					
1/8"	R261	25	11/2	1/2	23/4	11/4	2					
1/4"	R262	25	11/2	1/2	23/4	11/4	2					





FEATURES

- Micro seat finish ensuring no reduced pressure creep
- Sonic welded, leak-tight, non-relieving diaphragm assembly
- Water hammer and vibration dampner
- Three position adjustment knob: "push" to lock, "pull" to adjust and "detach" to make tamper resistant
- Excellent flow characteristics due to the large open outlet orifice
- Flexibility of design, offering all stainless internals and three elastomer selections
- Plastic (glass-filled nylon) construction
- One standard gauge port full flow
- Tamper-proof cap included

B 2-Position Mechanical

OPTIONS

add suffix to part number in alpha order

	Lockout Knob	R362 B
G	Gauge (0-160 psi)	R362 G
I	Instrument pressure	R362 I
	3 to 20 psi adjustment	
L	Low pressure	R362 L
	3 to 60 psi adjustment	
Р	Panel mount	R362 P
U	No gauge port	R362 U
٧	All 1/4" ports	R362 V
Y1	Viton diaphragm/valve set I	R362 Y

Y2 EDPM diaphragm/valve set . R362Y2

Miniature Water Regulators

SPECIFICATIONS

Body

Glass filled nylon

Bonnet

Glass filled nylon

Seals

• Buna N elastomer standard

Spring

• 316 stainless steel

Valve

• 316 stainless steel

Flow

• 5 gpm

Supply Pressure

• 250 psig

Operating Pressure Range

• 5 to 125 psig

Operating Temperature Range

• 40°F to 120°F

Gauge Port

• (1) 1/8" standard, full flow

KITS

Panel Kit

• Ring only panel hole size 13/16".....PK1611

Diaphragm Kit

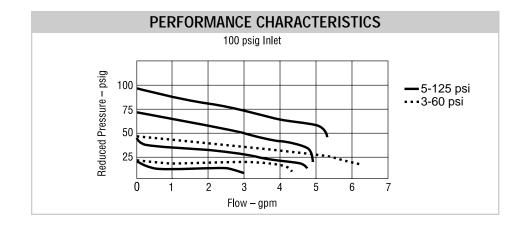
• Non-relieving RK260N

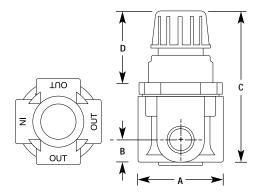
Mini Mounting Bracket see page 65

• Bracket and Ring BR1611

APPLICATIONS

- R360 series miniature water pressure regulator meets all pending restrictions on the use of brass in water systems.
- Prevent water hammer effect.
- Vending machines that require a water mixer
- Drinking fountains
- Home water filtration systems





		DIME	NSION	S				
PIPE SIZE	MODEL NO.	MAX. FLOW GPM						
1/8"	R361	5	11/2	1/2	23/4	11/4	3	
1/4"	R362	5	11/2	1/2	23/4	11/4	3	







FEATURES

- Fast installation time
- Eliminates inlet and outlet fittings
- No pipe sealant
- · Quick disconnect
- No tools needed
- Reduces potential leak points
- Micro-finish valve seat ensures no reduced creep
- · Reduces potential leak points
- · Easily panel mounted
- Tamper proof cap included
- Lightweight

OPTIONS

add suffix to part number in alpha order B 2 Position Mechanical R242B Lock Knob **G** Gauge (0-160 psi) R242**G** Instrument pressure (3-20psi). R242G Low Pressure (3 - 60 psi) R242L Non-relieving R242N Panel mount R242P Y1 Viton diaphragm/valve set R242Y1 Y2 EDPM diaphragm/valve set . . . R242Y2

SPECIFICATIONS

Body

Glass filled nylon

Bonnet

· Glass filled nylon

Buna N

Spring

• 316 Stainless Steel

Supply Pressure

• 250 psig

Operating Pressure Range

• 5 to 125 psig

Operating Temperature Range

• 40°F to 120°F

Gauge Ports

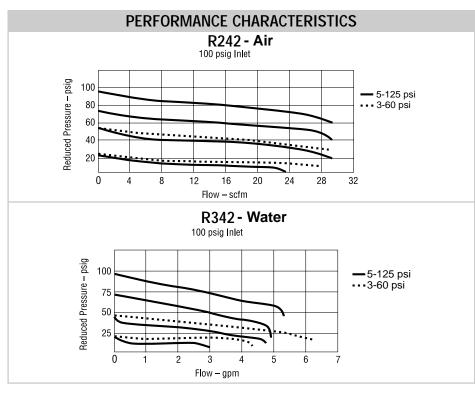
• (2) 1/8" Standard, full flow R240 only

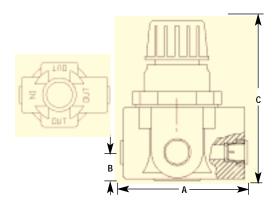
Diaphragm Kit

•	Relieving	RK260
•	Non-relieving	RK260N

Mounting Kits see page 65

•	Bracket & Ring				BR1611
•	Ring Only				PK1611





	DIMENSIONS					
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	DIM A	WEIGHT (OZ.)		
1/4"	R242	30	2³/ ₁₆	19/16	23/4	2.9
1/4"	R342	5	23/16	19/16	23/4	2.9



Tri•Star Regulators

SPECIFICATIONS

· Black coated aluminum

Bonnet

Glass filled nylon

Buna N Elastomer standard

Brass

Supply Pressure

• 250 psig

Operating Pressure Range

Operating Temperature Range

40°F to 120°

• 1/4" full flow

Body

Seat

• 5 to 125 psig

Gauge Port

• Micro finished brass seat to ensure no reduced pressure creep

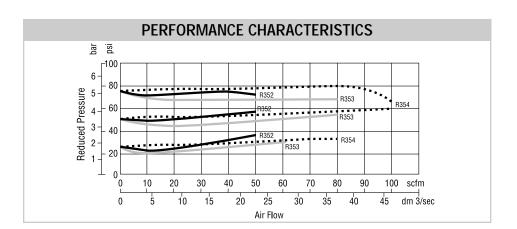
Reinforce diaphragm for repeated accuracy

FEATURES

- Minimal pressure droop due to efficient aspiration
- Three position non-rising adjustment knob; push to lock, pull to adjust, detach to make tamper resistant
- Relieving style standard
- In-line or modular installation Easily panel mounted
- Tamper-proof cap included
- High scfm flow due to efficient aspiration

OPTIONS

٠.	
ado	d suffix to part number in alpha order
G	Gauge (0-160 psi) R354 G
Н	High pressure R354H
	10 to 250 psi adjustment
ı	Instrument pressure R354I
	3 to 20 psi adjustment
L	Low pressure
	3 to 60 psi adjustment
N	Non-relieving
Р	Panel mount R354P
Т	Tee handle adjustment R354T



KITS Repair Kits

Diaphragm kit

Panel mount

Mounting Kits see page 65

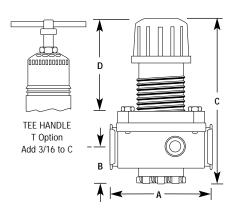
• Diaphragm kit relieving DK35

Panel mounting kit ring only

panel hole size 13/16" PKR35

bracket and ring PMKR35

Non-relieving DK35N Valve kit VK35



	DIMENSIONS							
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	А	DIMEN B	SIONS (IN C	CHES) D	E (WIDTH)	WEIGHT (LBS.)
1/4"	R352	50	221/32	17/32	53/8	23/4	21/4	1.0
3/8"	R353	80	221/32	17/32	53/8	23/4	21/4	1.0
1/2"	R354	100	221/32	17/32	53/8	23/4	21/4	1.0





MidFlow Regulators

SPECIFICATIONS

Body

Black coated aluminum

Bonnet

· Glass filled nylon

Seals

Buna N Elastomer standard

Seat

Brass

Supply Pressure

• 250 psig

Operating Pressure Range

• 5 to 125 psig

Operating Temperature Range

• 40°F to 120°

Gauge Port

• 1/4" full flow

- Micro finished brass seat to ensure no reduced pressure creep
- Reinforce diaphragm for repeated accuracy

FEATURES

- Minimal pressure droop due to efficient aspiration
- Three position non-rising adjustment knob; push to lock, pull to adjust, detach to make tamper resistant
- Relieving style standard
- Easily panel mounted
- Tamper-proof cap included
- High scfm flow due to efficient aspiration

OPTIONS

adc	I suffix to part number in alpha order
G	Gauge (0-160 psi) R373 G
Н	High pressure R373HT
	10 to 250 psi adjustment - Must use
	T-handle option
1	Instrument pressure R373I
	3 to 20 psi adjustment
L	Low pressure R373L
	3 to 60 psi adjustment
N	Non-relieving
Ρ	Panel mount R373P
T	Tee handle adjustment R373T

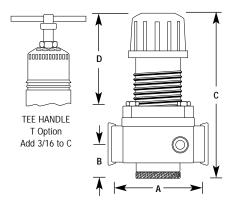
KITS

Repair Kits

 Diaphragm kit relieving ... DK35
 Diaphragm kit Non-relieving ... DK35N
 Valve kit ... VK37

Mounting Kits see page 65

 Panel mount bracket and ring PMKR35



DIMENSIONS									
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	А	A B C D E (WIDTH)					
3/8"	R373	170	37/16	113/32	57/8	23/4	21/4	1.3	
1/2"	R374	215	37/16	113/32	57/8	23/4	21/4	1.3	
3/4"	R376	220	37/16	113/32	57/8	23/4	21/4	1.3	
1"	R378	250	37/16	113/32	57/8	23/4	21/4	1.3	



• Micro finished brass seat to ensure

• High scfm flow due to efficient aspiration

• Available in 1", 1-1/4", 1-1/2" NPT sizes

add suffix to part number in alpha order

G Gauge (0-160 psi) R398**G** H High pressure R398H 10 to 250 psi adjustment

L Low pressure R398L

Panel mount R398P

3 to 60 psi adjustment

no reduced pressure creep

Relieving style piston standard

• Hard epoxy corrosion protection

FEATURES

OPTIONS

High Flow Regulators

SPECIFICATIONS

Body

· Black coated aluminum

• Die cast aluminum, black coated

Seals

• Buna N Elastomer standard

Seat

Brass

Supply Pressure

250 psig

Operating Pressure Range

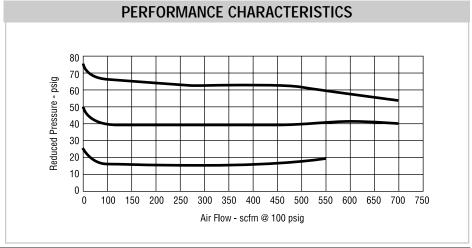
• 5 to 125 psig

Operating Temperature Range

• 40°F to 120°F

Gauge Ports

1/4"



KITS

Repair Kit

• Piston relieving DK39 • Piston non-relieving DK39N • Valve VK39

• Spring (5-125 psi) SK39 • Spring (3-60 psi) SK39L

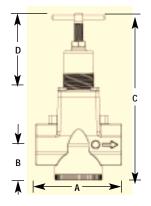
• Spring (10-200 psi) SK39H

· Panel mounting kit ring only . PKR35

• Spring cage SC39

Mounting Kits see page 65

panel hole size 1-3/16"



		DIME	NSION	IS				
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	Α	A B C D				
1"	R398	600	47/8	21/32	91/2	41/4	3.4	
11/4"	R3910	700	47/8	21/32	91/2	41/4	3.3	
11/2"	R3912	700	47/8	21/32	91/2	41/4	3.2	



Adjustable High Performance Regulators

D14 OC

P10 P14

FEATURES

- Micro finished brass seat to ensure no reduced pressure creep
- Reinforce diaphragm for repeated accuracy
- Minimal pressure droop due to efficient aspiration
- Relieving style standard
- In-line or modular installation
- Easily panel mounted
- High scfm flow due to efficient aspiration
- Continuous bleed

OPTIONS

G	Gauge (0-160 psi)	P14-0 G
Н	High pressure	P14-04 H
	P14 only: 10 to 250 psi adjus	tment
L	Low pressure	P14-04 L
	P14 Only: 3 to 60 psi adjustm	ent
NB	No bleed	P14-04NB
ςp	Std. prossure P10 only	$D10_{-}01SD$

SPECIFICATIONS

Body

Black coated aluminum

Bonnet

Glass filled nylon

Seals

 Buna N Elastomer standard Diaphragm

Reinforced Buna N

Valve

• Brass and Buna N Disc

Seat

Brass

Supply Pressure

• 250 psig Reduced Press Flow

• P10: 3 to 25 psig, P14: 5 to 125 psig

Operating Temperature Range

• 40°F to 120°F

Gauge Ports

• 1/4" npt

Bleed Rates

• Continuous 5.0 scfh or .08 scfm

KITS

Panel Mounting Kit

•	Panei mount kit
	9/16" bonnet PMKR35
•	Panel mounting ring PKR35

Diaphragm Kit

•	iapinagin kit
•	Diaphragm kit relieving
	P10
•	Diaphragm kit relieving
	P14-03, P14-04 RKP10R
•	Diaphragm kit P14-02 RKP14
_	

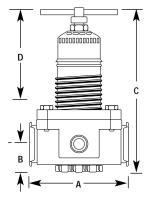
Mounting Kits see page 65

•	Mounting bracket					RBK5
•	Panel mount nut.					PKR35

Applications

- Pneumatic instrumentation
- Controllers and transmitters
- Valve operators, positioners
- Cylinder loading and braking pressure control
- Roll loading
- Air and force balance hoists
- Electric pneumatic proportional modules
- Precise torque control of air operated tools

Inverse Ratio Performance – P10											
Initial											
Pressure	-25	-20	-15	-10	-5	0	+5	+10	+15	+20	+25
Reduced											
Pressure											
Variance	+2	+1	+1	0	0	0	0	0	-1	-2	-3
	Inv	erse	Rati	io Pe	erfor	ma	nce	- P	14		
Reduced											
Pressure											
Variance	+1.5	+1.2	+1	+.6	+.4	0	3	7	-1	-1.3	-1.5



	DIMENSIONS												
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	MANUAL RANGE PSIG	A	DIMENS B	SIONS (II C	NCHES) D	E (WIDTH)	WEIGHT (LBS.)				
1/4"	P10-02	30	3-25	221/32	113/32	61/4	33/4	21/4	1.1				
3/8"	P10-03	30	3-25	221/32	113/32	61/4	33/4	21/4	1.1				
1/4"	P14-02	40	5-125	221/32	113/32	61/4	33/4	21/4	1.1				
3/8"	P14-03	50	5-125	221/32	113/32	61/4	33/4	21/4	1.1				
1/2"	P14-04	70	5-125	221/32	113/32	61/4	33/4	21/4	1.1				





FEATURES

- · Micro seat finish to ensure no reduced pressure creep
- · Diaphragm operation
- Relieving style standard
- Three position non-rising adjustment knob; push to lock, pull to adjust, detach to make tamper resistant
- · Easily panel mounted
- Tamper-proof cap included
- 20 micron filter

OPTIONS

add suffix to part number in alpha and numeric order

В	2-Position Mechanical
	Lockout Knob B742 B
G	Gauge (0-160 psi) B742 G
I	Instrument pressure B742I
	3 to 20 psi Adjustment
J	Overnight drain plastic bowl B742J
K	Overnight drain metal bowl B742K
L	Low pressure B742L
	3 to 60 psi adjustment
M	Metal bowl B742N
N	Non-relieving B742N
Р	Panel mount B742P
Z	Piston drain
5	5 Micron element B742 5

Miniature Integral Filter/Regulators

SPECIFICATIONS

Body

· Zinc, black coated

Bonnet

Glass filled nylon

Polycarbonate Bowl

- Max. pressure 150 psig
- Operating temperature range 40°F to 125°F

Metal Bowl aluminum

- Max. pressure 250 psig
- Operating temperature range 40°F to 175°F

Piston Drain metal

Note: limits bowl temperature and pressure rating

- Max. pressure 150 psig
- Operating temperature range 40°F to175°F

Body nickel plated zinc

Baffle plastic

Seals Buna N

Elements

- 20 micron sintered bronze
- 5 micron sintered bronze

KITS

Bowl Kits

• Polycarbonate bowl. BKF300 Metal bowl BKF300M

Element Kit

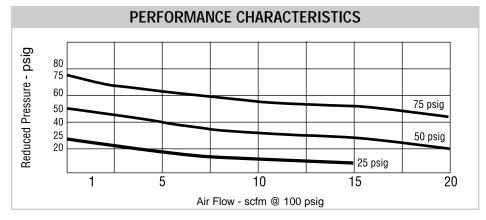
• 20 micron element 2-pack . . . EKF300 • Regulator bonnet repair RB260

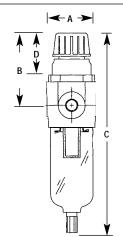
Diaphragm Kit

• Relieving diaphragm RK260

Mounting Kits see page 65

- Mounting bracket and ring ... BR1611Mounting bracket ring only ... PK1611





DIMENSIONS												
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	BOWL CAPACITY	DIM A	ENSION B	NS (INC	HES) D	WEIGHT (LBS.)				
1/8"	B741	20	1 oz.	15/8	23/16	61/4	11/4	.6				
1/4"	B742	20	1 oz.	1 ⁵ /8	23/16	61/4	11/4	.6				





Tri•Star Integral Filter/Regulators

SPECIFICATIONS

WARNING! Polycarbonate plastic bowls could rupture if exposed to incompatible chemicals whether inside or outside the bowl. If such chemicals are present, use a metal bowl. Refer to page 64 for details.

Black coated aluminum

Bonnet

Glass filled nylon

Seals

Buna N Elastomer standard

Polycarbonate Bowl

- Max. pressure 150 psi
- Operating temperature range 40°F to 125°F

Metal Bowl

- · Zinc, black epoxy coated
- Max. pressure 200 psi
- Operating temperature range 40°F to 175°F

Metal Bowl with Sight Gauge

- Max. pressure 250 psi
- Operating temperature range 40°F to 175°F

Internal Float Drain

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

- Operating pressure range 30 to 175 psi
- Operating temperature range 40°F to 125°F

KITS

• Internal float drain 5200
Bowl Kits
Polycarbonate BKF35Metal BKF45M
• Metal with sight BKF45W
Element Kits
• 40 micron 2-pack EK35
• 5 micron 2-pack EK35-5
• 3 micron absolute 2-pack EK35-3
Diaphragm Kits
• Relieving
Mounting Kits see page 65
Mounting bracket RBK5
• Panel mount nut PKR35

OPTIONS

FEATURES

Manual drain

40 micron element

· Relieving regulator

Tamper-proof cap included

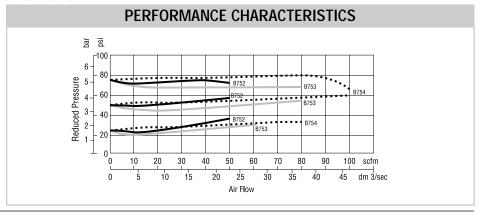
add suffix to part number in alpha and numeric order

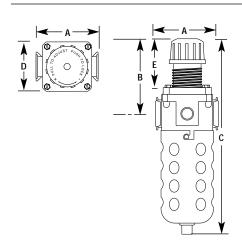
· Zero creep, machined brass valve seat

3-position, non-rising adjustment knob

F	Internal float drain B752F
G	Gauge
Н	High pressure B752H
	10 to 250 psi adjustment
1	Instrument pressure B752I
	3 to 20 psi adjustment
J	Overnight drain plastic bowl B752J
K	Overnight drain metal bowl . B752KM
L	Low pressure B752L
	3 to 60 psi adjustment
M	6 oz. metal bowl without sight . B752M
Р	Panel mount

	10 to 250 psi adjustment
1	Instrument pressure B752I
	3 to 20 psi adjustment
J	Overnight drain plastic bowl B752J
Κ	Overnight drain metal bowl . B752KM
L	Low pressure B752L
	3 to 60 psi adjustment
M	6 oz. metal bowl without sight . B752M
Р	Panel mount B752 P
T	Tee handle adjustment B752T
W	6 oz. metal bowl with sight B752W
-5	5 micron element B752- 5
-3	3 micron element B752- 3





	DIMENSIONS											
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM	BOWL CAPACITY	Α	DIMEN: B	SIONS C	SIONS (INCHES) C D I		WEIGHT (LBS.)			
1/4"	B752	50	5 oz.	2 ^{21/} 32	45/32	93/4	21/4	23/4	1.75			
3/8"	B753	80	5 oz.	221/32	45/32	93/4	21/4	23/4	1.75			
1/2"	B754	100	5 oz.	221/32	45/32	93/4	21/4	23/4	1.75			

Arrow Pneumatics

LUBRICATORS

Most pneumatically operated equipment such as valves, cylinders, and air tools, require some form of lubrication to reduce equipment maintenance and prolong life.

Air driven devices can be lubricated by using an air line lubricator, a device for adding lubricating oil in aerosol form into the compressed air line. The air passing through the lubricator transports the lubricant to air tools, cylinders or other air driven devices where the lubricant is deposited on moving and sliding surfaces to reduce friction and wear.

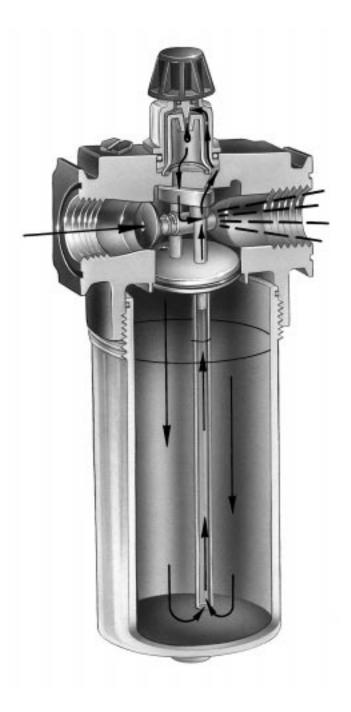
Arrow offers four distinct types: Miniature, Arrowfog, Ultrafog, Wick Style.

Miniature Fog-Type lubricators are designed for low air flow applications where space is limited.

Arrowfog in TriStar and Midflow lubricators are the most popular units for applications that do not require extremely fine oil particles or long distance lubrication. They produce oil particles of 2.5 micron. Arrowfog sends all metered oil down line in fog droplets; accommodates a wide range of applications.

Arrow Ultrafog in Tri-Star and Midflow lubricators produce extremely fine, .4 micron oil particles. Due to their size, these molecules remain in suspension and are carried further downstream than the particles from an Arrowfog. Arrow Ultrafog allows precise adjustment control. Atomizes oil droplets to a fine mist for reclassification in the bowl before sending lighter particles of oil down line.

Arrowick lubricators are economical and reliable for lubricating tools or cylinders that run constantly. The Arrowick automatically maintains the same air-oil ratio regardless of variations in air flow. The average droplet size is 3 microns. Arrowick uses an adjustable saturated wick to send particles or oil down line.





Miniature Fog Lubricators



SPECIFICATIONS

WARNING! Polycarbonate plastic bowls could rupture if exposed to incompatible chemicals whether inside or outside the bowl. If such chemicals are present, use a metal bowl.

Body

· Zinc, black coated

Polycarbonate Bowl

- Max. pressure 150 psi
- Operating temperature range 40°F to 125°F

Metal Bowl

- Black coated aluminum
- Max. pressure 200 psi
- Operating temperature range 40°F to 175°F

Recommended Oil

- SAE 10 oil or lighter
- Atomized average 2 micron
- .1 scfm to establish drip rate

KITS

Bowl Kits

•	Polycarbonate	BK1811
•	Metal	BK1811M
•	Repair kit	RK1812
•	Dome Kit	AK35

Mounting Kit see page 65

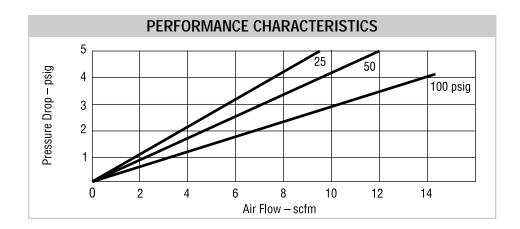
• Mounting kit FBK3

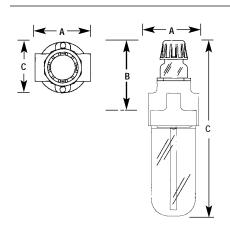
FEATURES

- 1 oz. polycarbonate bowl
- Optional metal bowl
- Visible drip rate
- Easy to refill
- Fine adjustment screw
- Requires only .1 cfm of air flow to operate
- Automatically adjusts oil mist delivery with air flow variations

OPTIONS

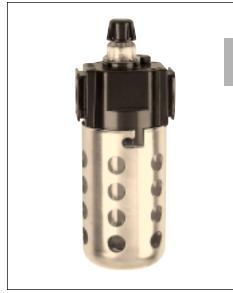
add suffix to part number in alpha order **M** Metal bowl1812**M**





DIMENSIONS												
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMEN A	ISIONS (IN B	ICHES) C	WEIGHT (LBS.)					
1/8"	L181	16	1 oz.	11/2	2	5	.4					
1/4"	L182	16	1 oz.	13/8	2	5	.4					

^{*} Flow scfm based on 5.0 psi \triangle p @ 100 psig inlet.



FEATURES

Aluminum housing

tamper resistant

Part # RKL452

Oil delivery at low air flow approximately 2 scfm

shutting down air line

Lubricator may be filled without

3-position non-rIsing adjustment knob;

push to lock, pull to adjust, detach for

Can be converted on-line to Ultrafog

lubricator with interchangeable module

Tri•Star Series 3 Arrowfog Lubricators

OPTIONS

SPECIFICATIONS

WARNING! Polycarbonate plastic bowls could rupture if exposed to incompatible chemicals whether inside or outside the bowl. If such chemicals are present, use a metal bowl.

Body

Black coated aluminum

Polycarbonate Bowl with Bowl Guard

- Max. pressure 150 psig
- Operating temperature range 40°F to 125°F

Metal Bowl

- Zinc, black coated
- Max. pressure 200 psig
- Operating temperature range 40°F to 175°F

Metal Bowl with Sight

- · Zinc, black coated
- Max. pressure range 200 psig
- Operating temperature range 40°F to 175°F

Recommended Oil

- SAE 10 oil or lighter
- Atomized average 2 micron

KITS

Bowl Kits

•	Polycarbonate	BKL35
•	Metal bowl without sight	BKL45M
•	Metal bowl with sight	BKL45W

Repair Kits

	For L350							 RKL352
•	Dome kit							 AK35
•	Fill plug kit							 FK35

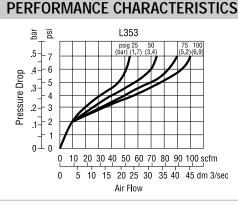
Mounting Kit see page 65

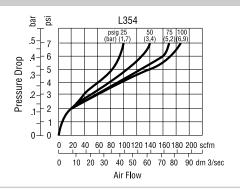
• Mounting kit FBK5

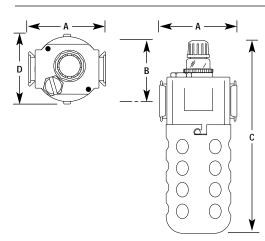
Applications

- Air tools
- Air motors
- Single point lubrication

L352 5-7 60/0 3-5 7 60/0 3-5 1-2 0 1 2 3 4 5 6 7 8 9 dm 3/sec Air Flow

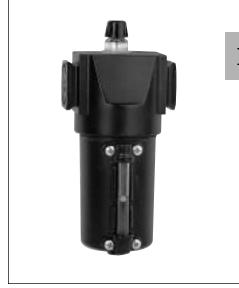






	DIMENSIONS												
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIM A	ENSION B	IS (INCI C	HES) D	WEIGHT (LBS.)					
1/4"	L352	16	5 oz.	23/4	21/8	7*	21/2	1.0					
3/8"	L353	82	5 oz.	23/4	21/8	7"	21/2	1.0					
1/2"	L354	142	5 oz.	23/4	21/8	7″	21/2	1.0					

^{*} Flow scfm based on 5.0 psi △ p @ 100 psig inlet.



MidFlow Series 3 Arrowfog Lubricators

SPECIFICATIONS

Body

Black coated aluminum

Metal Bowl

- · Zinc, black coated
- Max. pressure 200 psig
- Operating temperature range 40°F to 175°F

Metal Bowl with Sight

- · Zinc, black coated
- Max. pressure range 200 psig
- Operating temperature range 40°F to 175°F

Recommended Oil

- SAE 10 oil or lighter
- 3 scfm to establish drip rate
- · Atomized average 2 micron droplet

KITS

Bowl Kits

 Metal bowl with sight BKL47W Metal bowl without sight BKL47M • Metal bowl with sight BKL48W • Metal bowl without sight BKL48M

Repair Kits

• For L370 RKL372 • For L380 RKL382 • Fill plug kit FK37

Mounting Kit see page 65

• Mounting kit FBK7

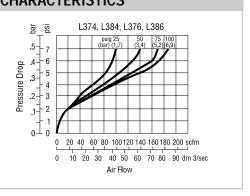
FEATURES

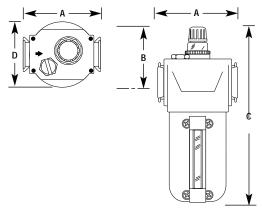
- · Oil delivery at low air flow approximately 2 scfm
- · Lubricator may be filled without shutting down air line
- 3-position non-rising adjustment knob; push to lock, pull to adjust, detach for tamper resistant
- Can be converted on-line to Ultrafog lubricator with interchangeable module Part # RKL452

OPTIONS

add suffix to part number in alpha order M 6 oz. black coated metal bowlL373M

PERFORMANCE CHARACTERISTICS L373, L383 .4-Pressure Drop - 5 4 - 3 2 10 20 30 40 50 60 70 80 90 100 scfm 5 10 15 20 25 30 35 40 45 dm 3/sec





			DIMENSION	NS				
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIM A	DIMENSIONS (INCHES) A B C D			WEIGHT (LBS.)
³/ ₈ "	L373W	82	10 oz.	33/4	25/16	813/32	3	2.4
³/ ₈ "	L383W	82	20 oz.	33/4	25/16	1119/32	3	3.3
1/2"	L374W	142	10 oz.	33/4	25/16	813/32	3	2.4
1/2"	L384W	142	20 oz.	33/4	25/16	1119/32	3	3.3
3/4"	L376W	142	10 oz.	33/4	25/16	813/32	3	2.4
3/4"	L386W	142	20 oz.	33/4	25/16	1119/32	3	3.3

^{*} Flow scfm based on 5.0 psi \triangle p @ 100 psig inlet.





Tri•Star Series 4 Ultrafog Lubricators

OPTIONS

add suffix to part number in alpha order

M 6 oz. black coated
metal bowl L454M

W 6 oz. black coated
metal bowl with sight L454W

SPECIFICATIONS

WARNING! Polycarbonate plastic bowls could rupture if exposed to incompatible chemicals whether inside or outside the bowl. If such chemicals are present, use a metal bowl.

Body

Black coated aluminum

Polycarbonate Bowl with Bowl Guard

- Max. pressure 150 psig
- Operating temperature range 40°F to 125°F

Metal Bowl

- Zinc, black coated
- Max. pressure 200 psig
- Operating temperature range 40°F to 175°F

Metal Bowl with Sight

- · Zinc, black coated
- Max. pressure range 200 psig
- Operating temperature range 40°F to 175°F

Recommended Oil

- SAE 10 oil or lighter
- 2 scfm to establish drip rate
- Atomized average .6 micron
- 1 out of 28 drops travel downstream
- Cannot be filled under pressure

KITS

Bowl Kits

 V	letalBKL45M
• M	etal with sight BKL45W
	air Kits
 A 	djustment dome kit AK35
• Fi	IÍ plug FK35
	or Ultrafog RKL452
	ght kit

Mounting Kit see page 65

• Mounting kit FBK5

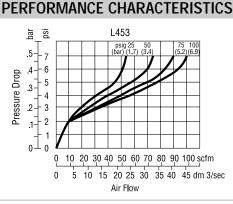
Applications

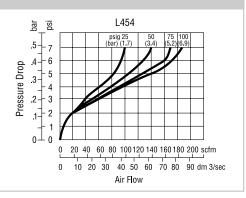
Multiple lubrication points

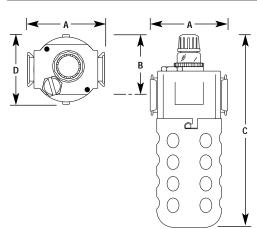
• 5 oz polyc

- 5 oz. polycarbonate bowl w/steel bowl guard
- · Aluminum housing, black coated
- Oil delivery at low air flow approximately 2 scfm
- 3-position non-rising adjustment knob; push to lock, pull to adjust, detach for tamper resistant
- Convert on-line to Arrowfog with interchangeable module #RKL352
- In line modular installation

L452 5-7 600 3-5 4-6 0 1 2 3 4 5 6 7 8 9 dm 3/sec Air Flow







	DIMENSIONS												
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIM A	ENSION B	IS (INCI C	HES) D	WEIGHT (LBS.)					
1/4"	L452	16	5 oz.	23/4	21/8	7"	21/2	1.0					
3/8"	L453	82	5 oz.	23/4	21/8	7*	21/2	1.0					
1/2"	L454	142	5 oz.	23/4	21/8	7*	21/2	1.0					

^{*} Flow scfm based on 5.0 psi \triangle p @ 100 psig inlet.



MidFlow Series 4 Ultrafog Lubricators

SPECIFICATIONS

Body

· Black coated aluminum

Metal Bowl

- · Zinc, black coated
- Max. pressure 250 psig
- Operating temperature range 40°F to 125°F

Metal Bowl with Sight

- · Zinc, black coated
- Max. pressure range 200 psig
- Operating temperature range 40°F to 175°F

Recommended Oil

- SAE 10 oil or lighter
- 2 scfm to establish drip rate
- Atomized average .6 micron
- 1 out of 28 drops travel downstream
- Cannot be filled under pressure

KITS

Bowl Kits

 Metal bowl without sight BKL47M Metal bowl with sight BKL47W

Repair Kits

• For L350 RKL470 • Fill plug kit FK47

Mounting Kit see page 65

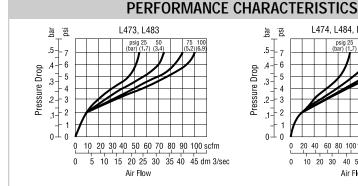
• Mounting kit FBK7

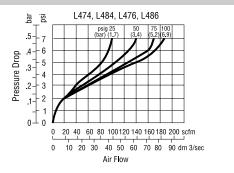
FEATURES

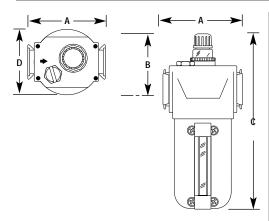
- Aluminum housing
- Oil delivery at low air flow approximately 2 scfm
- 3-position non-rising adjustment knob; push to lock, pull to adjust, detach for tamper resistant
- Convert on-line to Arrowfog with interchangeable module #RKL352

OPTIONS

add suffix to part number in alpha order M 6 oz. black coated







	DIMENSIONS											
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIM A	ENSION B	HES) D	WEIGHT (LBS.)					
3/8"	L473W	82	10 oz.	33/4	25/16	813/32	3	2.4				
3/8"	L483W	82	20 oz.	33/4	25/16	1119/32	3	3.3				
1/2"	L474W	142	10 oz.	33/4	25/16	813/32	3	2.4				
1/2"	L484W	142	20 oz.	33/4	25/16	11 ¹⁹ / ₃₂	3	3.3				
3/4"	L476W	142	10 oz.	33/4	25/16	813/32	3	2.4				
3/4"	L486W	142	20 oz.	33/4	25/16	11 ¹⁹ / ₃₂	3	3.3				

^{*} Flow scfm based on 5.0 psi △ p @ 100 psig inlet.



Arrowick Lubricators

SPECIFICATIONS

Body

· Black coated aluminum

Metal Bowl

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

Recommended Oil

- SAE 10 oil or lighter
- 30 scfm to establish drip rate

Droplet Size

· 3 micron or less

KITS

Bowl Kits

- 29 oz. metal BK4106M29 oz. metal with sight BK4106W
- 2 qt. metal with sight BK4106LCM

Repair Kits

- For 4106, 4106LCM, 4108, and 4108LCM RK4106
 For 4112 and 4112LCM RK4112

Applications

- Single point
- · Flow can be reversed

	Minimum Air Flow for Lubrication									
Model No.	Air Flow SCFM									
4106	30 SCFM									
4106LCM	30 SCFM									
4108	30 SCFM									
4108LCM	30 SCFM									
4112	50 SCFM									
4112LCM	50 SCFM									

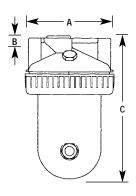
PERFORMANCE CHARACTERISTICS 5 50 Pressure Drop - psig 4 , 100 psig 3 2 0 40 80 120 160 200 240 280 Air Flow - scfm

FEATURES

- Simple, trouble free design. It cannot be over-filled, and has greater bowl capacity which extends interval between filling
- Can be used downstream of 4 way valves because it accommodates reverse flow
- Bowl fills all the way to the top
- It can be filled under pressure no need to shut down air
- Tamper-proof internal adjustment
- Porous bronze oil metering diffuser introduces smallest possible oil particles to the air
- No small orifices to clog and stop oil delivery
- Automatically maintains air-oil ratio regardless of variations in air flow

OPTIONS

add suffix to part number in alpha order **W** metal bowl w/sight glass . . 4108**W**



	DIMENSIONS												
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM*	BOWL CAPACITY	DIMEN A	DIMENSIONS (INCHES) A B C								
3/4"	4106	175	29 oz.	47/8	11/8	87/8	3.5						
1"	4108	175	29 oz.	47/8	11/8	87/8	3.5						
11/2"	4112	175	29 oz.	51/4	11/4	9	3.5						
3/4"	4106LCM	175	60 oz.	47/8	11/8	13 ¹ / ₂	6.0						
1"	4108LCM	175	60 oz.	47/8	11/8	13 ¹ / ₂	6.0						
11/2"	4112LCM	175	60 oz	51/4	11/4	13 ¹ / ₂	6.0						

^{*} Flow scfm based on 5.0 psi △ p @ 100 psig inlet.

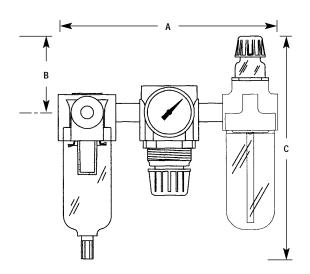
Miniature Filter/Regulator/Lubricator Combinations

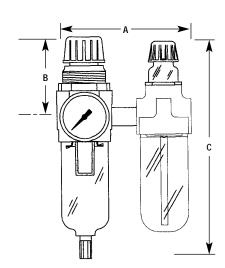




	PIPE	COMBINATION NUMBER	COMPONENTS			BOWL CAPACITY	,	APPROX. WEIGHT		
	SIZE		FILTER	REGULATOR	DROP LUBE	(OUNCES)	Α	В	С	(LBS.)
Miniature	1/8"	7681	F300-01	R161G	L181	1	5 ¹ / ₄ "	2"	61/2"	1.3
	1/4"	7682	F300-02	R162G	L182	1	5 ¹ / ₄ "	2"	61/2"	1.3
			FILTER/R	REGULATOR						
	1/8"	7621	B741G		L181	1	31/4"	23/16"	61/4"	1.1
	1/4"	7622	B742G		L182	1	31/4"	23/16"	61/4"	1.1

NOTE: Combinations with Regulators include gauge. Combinations are boxed assembled.





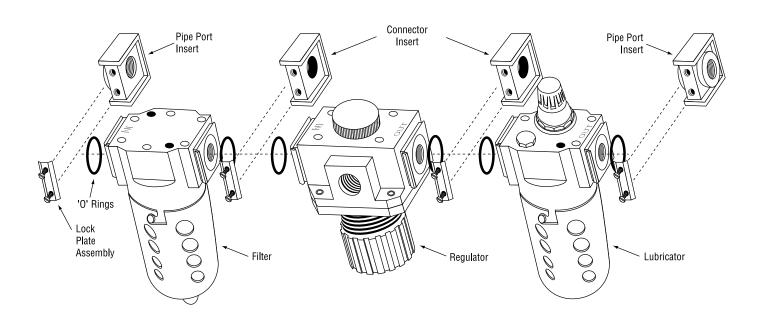
Tri•Star Modular Filter/Regulator/Lubricator Combinations



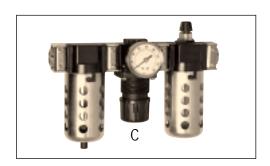
High Performance • Flexibility • Compact • Lightweight

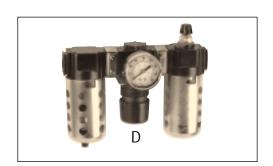
- A screwdriver is the only tool needed to connect or disconnect units
- Insert interlocking feature allows simple installation in any location
- Installation or removal from one plane without disturbing existing piping
- Regulator mounting can be either up or down
- Unique design allows side, top, individual and custom mounting

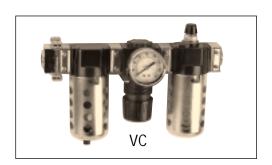
- Regulator and lubricator adjustments are made thru three position – tamper resistant adjusting knobs.
- Engineered to permit use with standard size pipe nipples
- Available in 1/4", 3/8" and 1/2" pipe sizes and insert pipe sizes 1/4", 3/8", 1/2" and 3/4"
- Special optional diverter blocks supply air to secondary locations
- Unlimited adaptation to air preparation systems

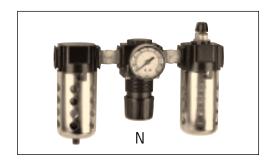


Tri•Star Filter/Regulator/Lubricator Combinations







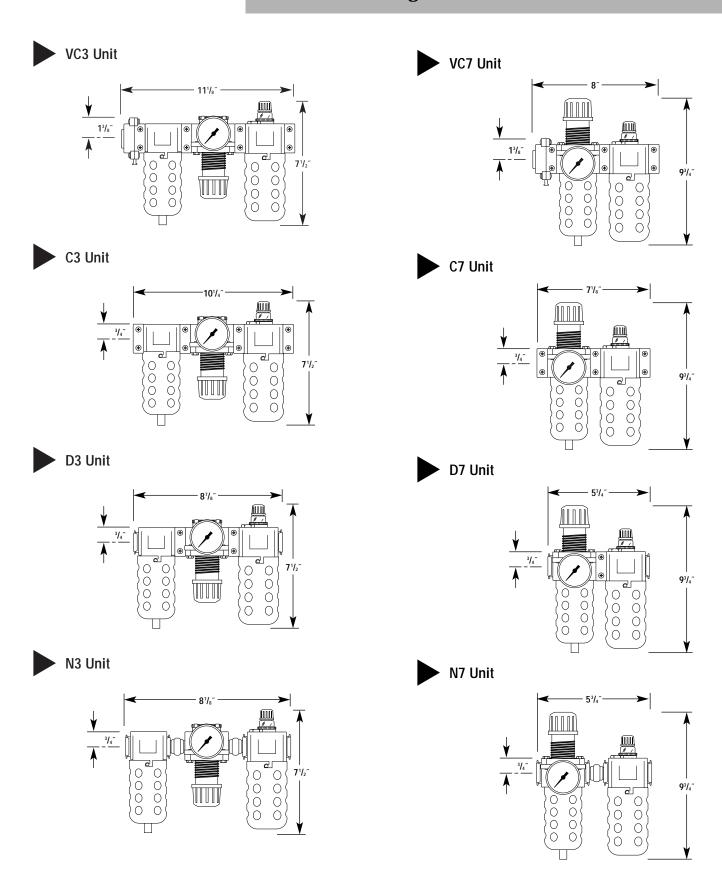


PIPE	STYLE	COMBINATION		COMPONENTS		BOWL CAPACITY	APPROX. WEIGHT
SIZE	SITLE	NUMBER*	FILTER	REGULATOR	DROP LUBE	(OUNCES)	(LBS.)
1/4"	Tri•Star*	33352	F352	R352G	L352	5	3.3
¹/ ₄ "	(please reference chart below for further Tri•Star information)	33452	F352	R352G	L452	5	3.3
³ / ₈ "		33353	F353	R353G	L353	5	3.3
³ / ₈ "		33453	F353	R353G	L453	5	3.3
¹ / ₂ "		33354	F354	R354G	L354	5	3.4
1/2"		33454	F354	R354G	L454	5	3.4
³ / ₄ "		33356	F354	R354G	L454	5	3.4
			FILTER/RE	GULATOR			
1/4"	-	70352	В	752G	L352	5	3.0
3/ ₈ "		70353	В	753G	L353	5	3.0
1/2"		70354	B	B754G		5	4.1

NOTE: Combinations with Regulators include gauge. Combinations are boxed assembled.

D – Without End Port Inserts C – With OSHA Lockout	COMBINATION NUMBER									
SIALE	FILTER STYLE	REGULATOR STYLE	LUBRICATOR STYLE	SERIES	PIPE SIZE					
C – With End Port Inserts D – Without End Port Inserts VC – With OSHA Lockout N – Nipple	 0 - No Filter 3 - Particulate 409 Micron Oil Removing 503 Oilescer 6 - Vapor Removal 7 - Filter/Regulator 	0 – No Regulator 3 – Standard Relieving	0 – No Lubricator3 – Arrowfog4 – Ultrafog	5 – 5 oz. Plastic Bowl or 6 oz. Metal Bowl	$2 - \frac{1}{4}''$ $3 - \frac{3}{8}''$ $4 - \frac{1}{2}''$ $6 - \frac{3}{4}''$					

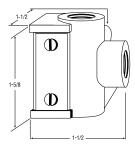
Tri•Star Filter/Regulator/Lubricator Combinations



Tri • Star Inserts & Accessories

Tri • Star Outboard Diverter

The Tri•Star Outboard Diverter block attaches to the outlet port of any Tri•Star unit and allows air to be diverted to up to 31/4" outlets. Includes locking plate and "O" rings, and it will accept the Tri-Star mounting bracket.



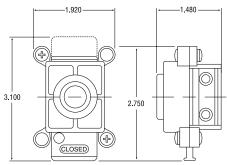
Model No.	Description
DK54	1/4" NPT Outboard Diverter Kit



OSHA Lockout, 3-Way Valve

Arrow's 3-way OSHA lockout valve exhausts all downstream pressure when closed and

can be locked in the closed position with customer supplied pad lock. These valves will handle all Tri•Star system air flows and will exhaust 6 scfm @ 100 psi.

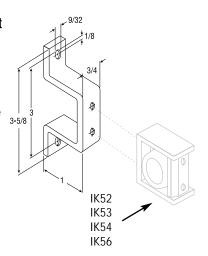


Model No.	Description
V252	1/4" OSHA Lockout Valve
V253	3/8" OSHA Lockout Valve
V254	1/2" OSHA Lockout Valve



Mounting Bracket

IBK5 wall mounting bracket for Modular Tri•Star FRL units permit bracket mounting from inlet and outlet ports, slide valve and diverter blocks

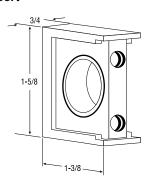


Modular Components & Accessories



Tri • Star Connector Insert

Tri•Star insert slides are designed to guide the insert to an interlocking position on the unit body. The design of the slide also provides a unique safety feature, should the insert plates be removed while the air line is under pressure, the interlocking slide will prevent blowing away.

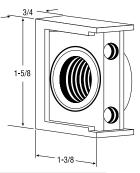


Model No.	Description
IK50	Tri•Star Connector Insert



Tri•Star Pipe Port Insert

Any of four separate Tri-Star ports permit instant pipe sizing of every Tri-Star filter, regulator and lubricator. Available in 1/4", 3/8'', 1/2'', and 3/4'' pipe sizes for inlets and outlet ports. Zinc diecase metal. A special Tri•Star locking design prevents backing out of lock plate screws and keeps the screws in place when the plate is removed.

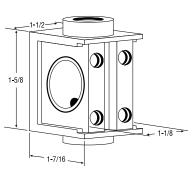


Model No.	Description
IK05	"O" Rings for Modulars
IK52	1/4" NPT Pipe Port Insert
IK53	3/8" NPT Pipe Port Insert
IK54	1/2" NPT Pipe Port Insert
IK56	3/4" NPT Pipe Port Insert



Tri•Star Diverter

The unique Tri•Star diverter permits a portion of filtered air to be branched before entering the regulator and sends it to another location; or when installed after the regulator, it will divert a portion of regulated air. The diverter is also used when pressure drop readings are required.



Model No.	Description
DK52	1/4" NPT Inboard Diverter Kit
DK53	3/8" NPT Inboard Diverter Kit

MidFlow & High Flow Filter/Regulator/Lubricator Combinations

MidFlow



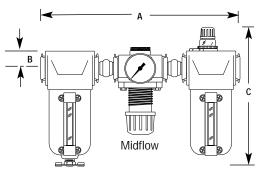


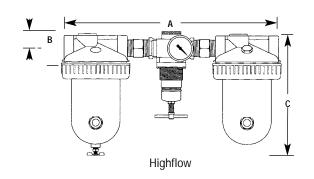


	PIPE	COMBINATION	COMPONENTS			BOWL CAPACITY	I	APPROX. WEIGHT		
	SIZE	NUMBER	FILTER	REGULATOR	DROP LUBE	(OUNCES)	A	В	С	(LBS.)
Mid Flow	³/ ₈ "	N33373W	F373W	R373	L373W	10	12 ⁵ /8	21/4	8 ¹ / ₂	91/2
	³/ ₈ "	N33383W	F383W	R373	L383W	20	12 ⁵ /8	21/4	11 ¹ / ₂	10 ¹ / ₄
	1/2"	N33374W	F374W	R374	L374W	10	12 ⁵ /8	21/4	8 ¹ / ₂	91/2
	1/2"	N33384W	F384W	R374	L384W	20	12 ⁵ /8	21/4	11 ¹ / ₂	10 ¹ / ₄
	3/4"	N33376W	F376W	R376	L376W	10	12 ⁵ /8	21/4	8 ¹ / ₂	91/2
	3/4"	N33386W	F386W	R376	L386W	20	12 ⁵ /8	21/4	11 ¹ /2	10 ¹ / ₄

STYLE		COMBINATION NUMBERING SYSTEM FOR MIDFLOW										
	FILTER STYLE	REGULATOR STYLE	LUBRICATOR STYLE	SERIES	PIPE SIZE	Bowl Type						
N – Nipple	0 – No Filter	0 – No Regulator	0 – No Lubricator	7 – 10 oz. Metal Bowl	3 - 3/8"	W-Metal bowl w/sight						
	3 - Particulate	3 – Standard Relieving	3 – Arrowfog	8 – 20 oz. Metal Bowl	4 - 1/2"	M-Metal Bowl w/o sigh						
	4 – .09 Micron Oil Removing		4 – Ultrafog		6 - 3/4"							
	5 – .03 Oilescer											
	6 – Vapor Removal											

	PIPE	PIPE COMBINATION		COMPONENTS			OPTIONAL MOUNTING	APPROX. DIMENSIONS			APPROX. WEIGHT
	SIZE	NUMBER	FILTER	REGULATOR	DROP LUBE	(OUNCES)	BRACKET	Α	В	С	(LBS.)
High Flow	1″	3548M	F329	R378T	4108	29	ACA-7 (Req. 2)	15 ⁷ / ₈ "	1 ³ / ₁₆ "	71/8"	11.8







The compressed air flow path through the dryer assures desiccant packing and maximum utilization of the desiccant's adsorption qualities. The compressed air enters the dryer (1) and is dispersed through a 70 micron polypropylene element (2) for the removal of particles. The air is then distributed uniformly through the full desiccant bed (3) to the bottom of the intake tube (4). The intake tube is protected by a 40 micron porous bronze element (5). As the desiccant adsorbs moisture, a dramatic and highly visible color change from dark blue to light pink is evident. The color change works its way through the desiccant as the adsorbative qualities of the desiccant are diminished. Once the color change is visible through the exclusive sight dome (6), the full desiccant bed has reached its maximum drying capacity and must be either changed or regenerated. Dry air exits through the inside diameter of the intake tube (7) and out the outlet port of

ADSORPTION

the unit (8).

Adsorption means the attraction of a substance - the adsorbate - to, and its subsequent accumulation on, the surface of a solid material - the adsorbant which is caused by physical forces of attraction. Adsorbants are substances which are permeated by a large number of very fine pores which give rise to a large internal surface area. This, in turn, determines the adsorption capacity of the adsorbant, since a large internal surface can accommodate more adsorbate. Other factors which influence the amount of adsorbate are: temperature, relative humidity and pressure.

REGENERATION PROCESS

Regeneration is accomplished by heating the desiccant to a temperature of 275°F in a drying oven. Regeneration is complete when the desiccant returns to its blue color.

For extended life and protection of the desiccant and equipment being serviced, an F3 Prefilter and F5 Coalescing filter should be used as a prefiltering system ahead of the dryer.

IN-LINE DESICCANT DRYER





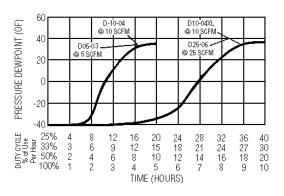
D10-04



In-Line Desiccant Dryer

FEATURES

- Available in capacities from .5 to 50 scfm
- · Compact sizes are ideal for portable or original equipment
- Drying efficiency can be tailored to your needs down to -30°F pressure dew point
- Highly visible color change from blue to pink through exclusive sight-glass highlights the need for service
- Exclusive hard spherical bead resists attrition and dusting and can be recharged
- Exclusive intake flow design takes air through entire supply of desiccant for maximum drying capacity
- Built-in particulate after-filter prevents downstream dust
- Needs no electrical connection
- No "purge air" lost as with regenerative dryers



SPECIFICATIONS

Bowl

- D05-03: Metal with sight gauge
- D10 & D 25: Metal with sight gauge
- D10-04XL: Metal with sight gauge

Desiccant

• Silica gel

Maximum Pressure

• 250 psig

Operating Temperature Range

• 0°F to 120°F

APPLICATIONS

- · Always install an F5 coalescing filter upstream of the D05, D10 & D25
- For compressed air service only
- Not to be used on life support systems or breathing air systems
- Dry air for parts blowoff
- Paint spray systems
- Air gauging equipment
- · Laboratory air

KITS

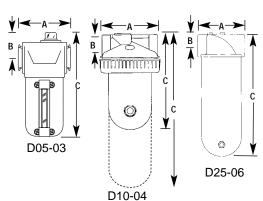
Replacement Desiccant No. 34189 – 6 pack of 1 qt. jars No. 34417 – 4-1 gallon jugs

Check the exhaust element to avoid high pressure drop due to desiccant dust entrapment. We recommend replacement of the exhaust element.

D05, D10 & D10XL Use:

Element Kit EKD10 (1-pack each)

D25 Use: Element Kit EKD25 (1-pack each)



	DIMENSIONS											
PIPE SIZE	MODEL NO.	MAX. FLOW SCFM* SCF*		DESICCANT WEIGHT (LBS.)	DESICCANT CHARGE	DIMENSI A	DIMENSIONS (INCHES) A B C		WEIGHT (LBS.)			
3/8"	D05-03	.5 to 5	830	5/8	10 oz.	33/4	1 ¹ / ₈	81/4	2.7			
1/2"	D10-04	5 to 15	2500	11/4	1 Qt.	47/8	11/8	87/8	5			
1/2"	D10-04XL	15 to 25	5000	21/2	2 Qt.	47/8	1 ¹ /8	13 ¹ / ₂	7			
3/4"	D25-06	25 to 50	12500	6	1 Gal.	63/4	2	173/4	23			

^{*} SCFM and SCF based on 70°F inlet temp. @ 100 psig

D10-04XL



• The StageAir Drying System is a point-of-use drying system and is protected by an OSHA Lockout valve which exhausts all downstream pressure when closed, and can be locked in the closed position with customer supplied padlock, exhaust 6 SCFM at 100 PSIG to prevent element damage.

Note: When pressurizing, open slide valve slowly to prevent element burst.

StageAir Drying System

HOW IT WORKS

FIRST AND SECOND STAGE

- The StageAir desiccant air drying system begins with the dual stage integral filter/regulator
- First, the air enters the particulate filter, which has a 5 micron cleanable sintered bronze element. In this stage, corrosive moisture, pipe scale, dirt and rust are removed from the air line protecting the precision parts in the regulator.
- Next, the air enters a high-performance regulator, which reduces primary pressure to a desired pressure setting.

THIRD STAGE COALESCING FILTER

• During Stage 3, fine filtration takes place. Here, 99.99 percent of oil aerosols and microscopic particles down to .01 micron absolute are removed from the air. The pop-up indicator alerts customer that an element change is necessary.

FOURTH STAGE DESICCANT AIR DRYER

- As the air enters the desiccant dryer, it is dispersed through a 70 micron element. The element distributes air evenly through the desiccant bed. The desiccant absorbs the water vapor from the air, producing a -40°F pressure dew point.
- To remove traces of desiccant dust before the air leaves the system, the air passes through a 40 micron filter element. The air is now clean and dry, and has been properly treated for use with your air operated system.
- · The clear indicator sight glass shows a color change in the desiccant from blue to pink which indicates a desiccant recharge.

OPTIONS

To order options for the VC7500 series. simply add the appropriate suffix, as listed below, to the part number in the alphabetical/numerical order.

- 3 3 micron absolute element (particulate filter)
- F Float drain
- J Overnight Drain

KITS

• Internal Float Drain
Element Kits
• 5 micron
• .01 micron
Desiccant Kit
• 6-Pk. of 1 Qt. Jars
• 4 - 1 Gal. Jugs
Mounting Kit see page 65

Mounting kit ABK10

Applications

- Paint Spray
- Air Gauging Equipment
- Lab Air

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B TO THE TOTAL TOT	
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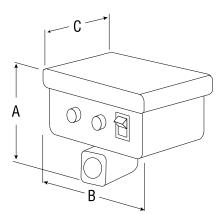
DIMENSIONS											
PIPE SIZE	MODEL NO.	MAX. I SCFM*	FLOW SCF*	DESICCANT WEIGHT (LBS.)	DIMEN: A	SIONS (IN B	ICHES) C	WEIGHT (LBS.)			
1/2"	VC7510	5 to 15	2,500	11/4	141/4	4	111/4	10			
1/2"	VC7510XL	15 to 25	5,000	21/2	141/4	4	16 ¹ / ₄	13.5			
3/4"	VC7525	25 to 50	12,500	6	16 ¹ / ₂	4	201/8	24.25			

^{*} SCFM and SCF based on 70°F inlet temp. @ 100 psig

ACCESSORIES

Economatic Drains





Arrow developed the **heavy duty** ECONOMATIC drain valve to be a low cost answer to leaking, clogging, noise and other problems caused by float-type drains.

A solenoid controlled by a solid state timer opens and closes the ECONOMATIC drain valve in 1 to 60 minute cycle times and 1 to 30 second blow down times. Both times are individually adjusted.

The drain is designed with a manual override switch with indicator light.

ECONOMATIC drains also feature a spring loaded softseat solenoid which eliminates valve noise and assures leak-proof shutoff.

Installation of the drain is simple and quick – thread on and plug in.

SPECIFICATIONS Adjustable Cycle Time

• 1-60 minutes

Adjustable Drain Time

• 1-30 seconds

Maximum Working Pressure

• 200 psig

Maximum Fluid Temperature

- +165°F
- NEMA one enclosure
- Voltage: 115V / 1 ph / 60Hz
- 0.25 amps
- Buna-N seals
- 6´ heavy duty grounded power plug

Purge Rate

• 16 scfm open flow @ 100 psig

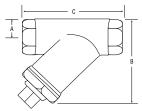
Mounting Kit see page 65

• Mounting kit BR5702

	DIMENSIONS					
	Connection Dimensions (inches)					
Model No.	NPT	Α	В	С	Weight	
5702S	1/4"	31/4"	315/16"	43/16"	1.365	
5704S	1/2"	41/16"	315/16"	43/16"	1.745	

Y Strainer – furnished with each Economatic Drain





A Y Strainer installed ahead of an external drain, traps large debris and sludge; prevents malfunctions and extends the life of automatic drains.

FEATURES

- Cast brass manufactured in the U.S.
- 300 psi maximum working pressure
- 50 mesh stainless steel screen can be cleaned or replaced without removal of strainer from the line
- 3/8" removable plug for quick draining

DIMENSIONS						
Model No. Connection Dimensions (inches) NPT A B C					Weight	
S202	1/4"	15/32"	227/64"	211/16"	10.5 oz.	
S204	1/2"	11/16"	25/8"	211/16"	12 oz.	

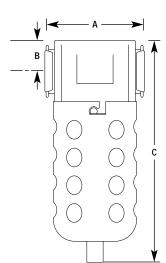
Accessories

T53 Automatic Drain



D Z

APPLICATIONSDrop Leg DrainExternal Filter Drain



The T53 series float type drain is provided with a top threaded port. This drain features a protective stainless steel screen with an umbrella baffle, providing a large sump area for oil sludge and dirt. It is used to give continued performance and low maintenance to drain accumulated water and oil from drain lines, receiver

tanks, condensate drop legs and filters.

DIMENSIONS						
Model No.	Connection FPT	Dimen A	sions (IN B	CHES) C	D	Weight (lbs.)
T53-02	1/4"	23/4	31/4	61/2	21/4	1.0
T53-04	1/2"	23/4	31/4	61/2	21/4	1.0

Internal Float Drain - 5200



Automatically drains collected liquids when internal float indicates accumulation. Saves air loss. For standard size filter.

Overnight Bowl Drains



Arrow's Automatic 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. Available for either plastic or metal bowls.

Kit Ordering #

Model J - For plastic bowls - push to manually drain Model K - For metal bowls - twist to manually drain

32008 CKFK

Accessories

Slide Valve

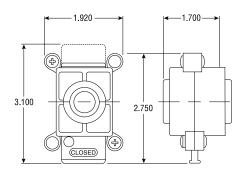


Arrow's new slide valve is a 3 way OSHA lockout valve which exhausts all downstream pressure when closed, and can be locked in the closed position with customer supplied padlock.

3-Way Slide Valves (Open or close and exhaust) Meet O.S.H.A. Lockout Standard 29CFR 1910.147 - The 3-way slide valve is for use in the main line, upstream of equipment. When closed, it shuts off the upstream air and exhausts the downstream air.

Body is black coated zinc. Slide is 5% Teflon, high-impact, safety yellow plastic. Seals are pre-lubricated Buna O-rings. Screws are black coated steel.

Maximum operating pressure: 250 PSIG Maximum operating flow: 140 SCFM Operating temperatures: 35°F to 150°F Exhaust bleed at 100 PSI: 7 SCFM



Valve Type		ard Line eaded Ports Port Size
3 Way	V202	¹/ ₄ "
OSHA Lockout Valve	V203	³ / ₈ "
Customer to Supply Lock	V204	1/2"

Mini In-Line Desiccant Dryer (-30°F Dew Point)



Used at the point-of-use, this patented, disposable, mini in-line desiccant dryer removes all traces of water vapor, oil vapor and dirt. It is often used directly upstream of blow guns or spray guns as final protection for critical parts blow off and paint spraying. Install in either direction; it functions in both directions. A 40 micron, porous bronze element removes fine dirt particles, an oil removing media removes oil vapor, and desiccant beads adsorb water vapor. The see-through housing shows desiccant color change, which indicates that the dryer needs to be replaced.

SPECIFICATIONS

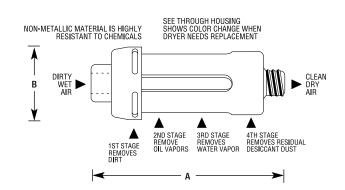
Polycarbonate material allows clear desiccant visibility

Guard

Nylon guard

Maximum Flow Capacity: 15 scfm Maximum Pressure: 125 psi Maximum Temperature: 130° F

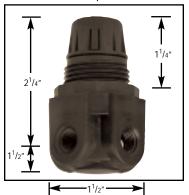
APPLICATIONS · Parts blow off · Paint guns



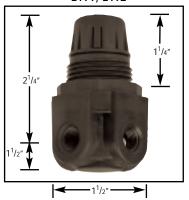
DIMENSIONS						
Connection NPT/FPT	Model No.	Dimension A	ns (Inches) B	Weight		
1/4"	DFD-10	3 3/4"	1 ¹¹ / ₁₆ "	2.8 oz.		

Accessories

E291, E292



E191, E192



Miniature Relief Valves

Miniature, diaphragm operated relief valves with exceptional sensitivity. Ideally suited for applications requiring gradual proportional relief. 3 position knob pushes to lock and can be removed for tamper resistance.

	Ordering Information					
Pipe Size	Model No.	Description				
¹/ ₈ " E291		All Plastic non-corrosive parts.				
1/4"	E292	·				
1/8"	E191	Die cast black coated body, brass seat.				
1/4"	E192	Buna N Diaphragm				

Specifications

- E291, E191 all 1/8" ports
- E292, E192 ¹/₄" ports
- With 1/8" gauge ports

Maximum Pressure Range

• 150 PSI

Options

- B 2-Position Mechanical Lockout Knob
- G Gauge (0-160 psi)
- I Instrumentation pressure, 1 15 psig

Maximum Temperature Range

• 40°F to 120°F

- L low pressure 0 50 psig
 - P panel mount nut
 - U No Gauge Ports
 - V All 1/4" Ports (4)

Air Relief Capacity - SCFM						
Range (psig)	Spring	entation Range o 15	Spring	ressure Range to 30	Spring	Pressure Range 125
Set Pressure (psig)	5.0	10.0	20.0	40.0	60.0	80.0
Rated Flow @ 10%*	.1	.3	.5	4.0	.2	5.5
Rated Flow @ 20%*	.3	.7	2.8	15.0	6.5	14.0
Rated Flow @ 30%	.5	2.3	6.8	25.0	15.0	23.0

Reseat @ ±1% of Set Pressure

- 1) Rated flows in SCFM are taken at percentage of pressure over set pressure.
- 2) The relief valve will not function as a pressure regulator excess pressure must be vented to atmosphere.

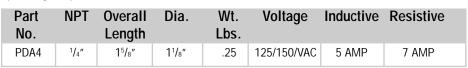
PRESSURE SWITCH

The PDA4 pressure switch can be installed anywhere in a pneumatic or hydraulic system. It is often used to protect air compressors and pneumatically operated equipment from damage caused by over-pressurization. The unit can be set in a normally open or closed position in an adjustable actuation range from 25 PSIG to 95 PSIG with ± 2% repeatability. The pressure switch has standard 18" wire leads of 300 V, 22 SWG. For simple installation, thread the unit into the gauge port of a regulator or pipe

Construction: Zinc die cast and plastic housing, and NEMA 13 electrical enclosure which is U.L. approved.

Max. operating pressure: 300 PSI

Operating temperatures: 35°F to 180°F

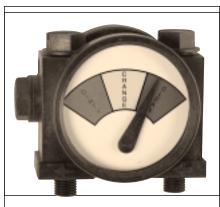


Standard Electrical Circuit			
Wire Color	Circuit		
Black	Common		
Green	Normally Closed		
Red	Normally Open		

Note: 20% differential for reset, and 1% repeatability when operated within recommended conditions.

Pressure Gauges & Accessories

Delta 'P' Gauge



Reed Switch Specifications					
Max. Voltage Switching	Max Switch Current	Max. Carrying Current	Contact Rating		
100 AC/DC	.30 AMPS	1 AMP	10 VA		

FUNCTION

Allows exact determination of pressure drop across element. Divided into three sections, each marked for easy understanding. The differential pressure gauge is the best tool available for determining element maintenance requirements.

Color	Indicates	Pressure Drop
Green	Clean	0-6 psi
Yellow	Change	6-9 psi
Red	Dirty	9-12 psi

Maximum Pressure:

• 300 psig / 20 bar

Maximum Temperature:

• 200° F / 93° C

Weight:

• .33 Lb. / 1.5 Kg

Bolt Threads:

• 3/8 -24 Inches

Bolt Material:

• Glass filled Nylon

GAUGE MODELS

- DP10-A* Replacement unit only Basic model with ³/₈-24 slotted bolts
- DP10-AE*
 Basic model with ³/₈-24 slotted bolts and Reed Switch
- DP10-B Gauge with Remote Mounting Block
- DP10-BE Gauge with Remote Mounting Block and Reed Switch

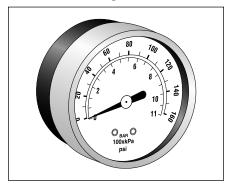
KITS AND ACCESSORIES

- MK-10 Mounting Kit for vertical or wall mounting
- TK-10
 1/4" Tubing Kit with Connector Fittings
- * Model No. DP10-A & DP10-AE to mount directly on existing filter head for
- replacement only.

 ** Model No. DP10-B & DP10-BE remote model with slotted bolts & mounting block

Note: To order pre-mounted units, adds suffix "D" to filter #.

Pressure Gauges

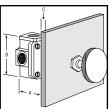


Г	DESCRIPTION	PRESSURE RANGE	USED ON
C	2" face, 1/4" center back mount	0-30 psi	
A	2" face, 1/4" center back mount	0-60 psi	Tri•Star Tri•Star II
	2" face, 1/4" center back mount	0-160 psi	High Flow
В	2" face, 1/4" center back mount	0-300 psi	
С	11/2" face, 1/8" center back mount	0-30 psi	Mini
A	11/2" face, 1/8" center back mount	0-60 psi	Regulators and
	11/2" face, 1/8" center back mount	0-160 psi	Mini Integral

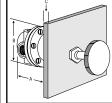
Regulator Accessories

Arrow regulators may be panel mounted to improve machine design and overall appearance, they are convenient for control panel or console mounting.

Suffix Q Tri-Star & Midflow



Suffix P Tri-Star & Midflow (1500 Series Regulators)

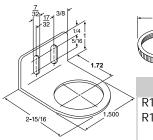


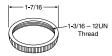
Panel Mounting Regulators						
Regulator Suffix Panel Dimensions & Max.						
Model	for Panel Mt.	Hole Size	Α	В	С	
Tri-Star, Midflow & Precision Series	Р	1 ¹³ /16"	11/4"	2 ²² /32"	1/2"	
Tri-Star, Midflow & Precision Series	Q	9/16"	31/2"	2 ²³ /32"	⁵ /16"	
1588	Р	3/4"	5″	43/4"	1/4"	

Brackets

Miniature Mounting Brackets

BR1611 Bracket & Ring PK1611 Ring Only





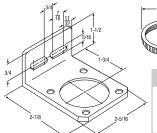
	Use with Model #										
R161	R242	R342	7681	741							
R162	R261	R361	7682	742							
	R262	R362	7621								
			7622								

FBK5

Use with Model #								
F352	L352	L452						
F353	L353	L453						
F354	L354	L454						

RBK5

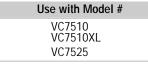
Mounting bracket for Tri-Star, Midflow, and precision regulators listed below. Also can be used for Tri-Star FRL Combination units.

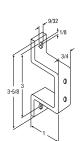


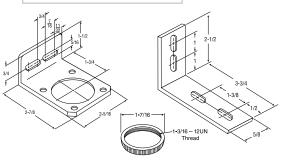


	Use	with Mo	odel #
	R352	P10-02	P14-02
>	R353	P10-03	P14-03
	R354		P14-04

ABK-10

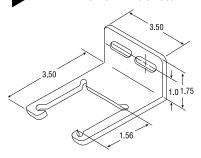






BR5702 Bracket Use with Model # 5702S

► FBK7 Midflow Brackets

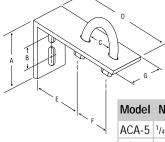


Use with Model #								
F373	F383	L373	L383					
F374	F384	L374	L384					
F376	F386	L376	L386					

ACA Pipe Brackets

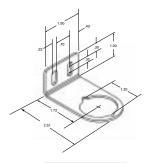
Mounting bracket for use with

Tri-Star FRL's. Example: N33354



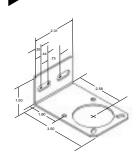
Model	NPT	Α	В	С	D	Ε	F	G
ACA-5	1/4", 3/8"	21/2"	3/16"	3/4"	37/8"	21/16"	15/16"	5/8"
ACA-6	1/2", 3/4"	21/2"	3/16"	15/32"	37/8"	113/16"	15/16"	5/8"
ACA-7	1″	21/2"	3/16"	11/2"	37/8"	1 ⁵ /8"	1 ¹¹ / ₁₆ "	5/8"

FBK3 Bracket

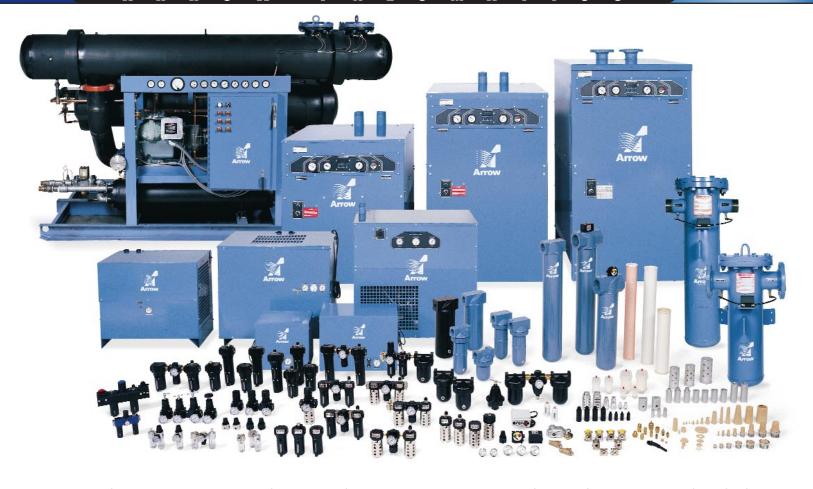


Use with	Model #
F300-01	L181
F300-02	L182
F500-01	
F500-02	

RBK7 Bracket



Use with Model #							
R373	R374						
R376	R378						



REFRIGERATED AIR DRYERS

REGENERATIVE AIR DRYERS

SINTERED PRODUCTS

Distributed by:



Arrow Pneumatics, Inc. 2111 W. 21ST Street

Broadview, Illinois 60155-4627

Voice: (847) 438-9100 (708) 343-1907

FLUID POWER DISTRIBUTORS ASSOCIATION Internet: www.arrowpneumatics.com



Alfroxw sintered bronze



PNEUMATIC EXHAUST MUFFLERS



BREATHER VENTS



SPEED CONTROL MUFFLERS



IN-LINE FILTERS



IN-LINE TOOL FILTER

Fluid Power Accessories

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Arrow Pneumatics Fluid Power Accessories

BREATHER VENTS

These breather vents have many applications, including vacuum relief or pressure equalization on gear boxes, oil tanks or reservoirs. Common uses can be found on single acting cylinders or valves to prevent dirt and foreign particles from entering ports open to the atmosphere.

Units have a nickel plated steel insert. All have standard pipe thread fittings for quick assembly and removal for cleaning. The filter element within the standard breather vent is rated for 40 micron filtration and can also be obtained for 20 or 90 micron filtration on special order.

See performance charts for flow characteristics.

Maximum operating pressure: 150 PSI Operating temperatures: 35°F to 300°F



part no. NPT	part no. BSP	thread size	overall length	dia.	weight lbs.
ASP-1BV ASP-2BV ASP-3BV ASP-4BV ASP-6BV ASP-10BV ASP-12BV	ASP-1BVBS ASP-2BVBS ASP-3BVBS ASP-4BVBS 	1/8" 1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2"	7/16" 5/8" 3/4" 7/8" 1" 1 5/16" 1 13/32" 1 1/2"	7/16" 9/16" 11/16" 7/8" 1 1/16" 1 5/16" 1 11/16" 2"	.01 .02 .04 .06 .10 .23 .41

PNEUMATIC EXHAUST MUFFLERS

Quiet Flow muffler/filters utilize porous sintered bronze directly bonded to nickel plated steel pipe thread fillings to diffuse air and muffle noise from the exhaust ports or valves, cylinders and air tools. These units offer a combination of small size with the greatest possible sound deadening qualities to reduce exhaust noise to acceptable levels within OSHA noise requirements.

In addition, these units are used as filters for gasoline, oil and air. Standard unit contains a 40 micron element, and 20 or 90 micron units are available on special order. Model ASP-420 is a female thread (1/2" - 20) muffler for use on exhaust ports of most solenoid valves. It can be used with "exhaust to atmosphere" valves, including Skinner, Peter Paul, Allied, KIP, Pre Dyne or any muffler using 1/2" - 20 threads on the sleeve.

See performance chart for flow information and sound characteristics.

Maximum operating pressure: 300 PSI Operating temperatures: 35°F to 300°F



part no. NPT	part no. BSP	thread size	overall length	dia.	weight lbs.
ASP-M*		10"-32	45/64"	5/16"	.01
ASP-1	ASP-1BS	1/8"	1 1/8"	7/16"	.02
ASP-2	ASP-2BS	1/4"	1 3/8"	9/16"	.04
ASP-3	ASP-3BS	3/8"	1 1/2"	11/16"	.06
ASP-4	ASP-4BS	1/2"	1 7/8"	7/8"	.10
ASP-6	consult factory	3/4"	2 1/4"	1 1/16"	.18
ASP-8	consult factory	1"	2 7/8"	1 5/16"	.34
ASP-10	consult factory	1 1/4"	3 1/4"	1 11/16"	.62
ASP-12	consult factory	1 1/2"	3 11/16"	2"	.88
ASP-420**		1/2"-20	1 3/16"	5/8"	.04
* Furnished with	l n gasket.	FEM	l		l
** Female threa	ds fits most				

solenoid valve exhaust ports

Arrow Pneumatics, Inc. has a long reputation as a world-leading manufacturer of sintered bronze elements and products. This reputation is built on producing high quality products with an ongoing commitment to exceed customer expectations.

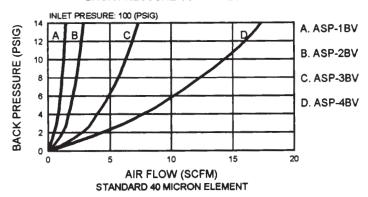
All products are manufactured in the U.S.A. and marked with our logo to assure you are receiving genuine Arrow Pneumatics, Inc. sintered bronze components.

When it comes to features, performance and value, look for Arrow Pneumatics, Inc. logo-marked sintered bronze elements and products.

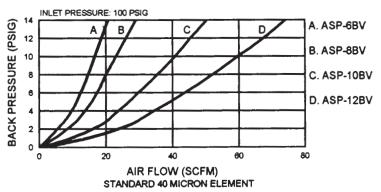
Fluid Power Accessories Arrow Pneumatics

FLOW CHARACTERISTICS -- BREATHER VENTS

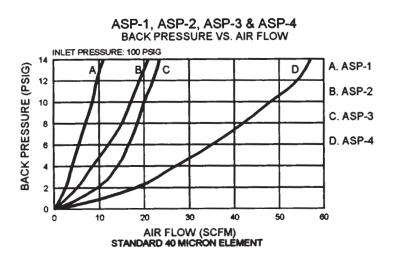
ASP-1BV, ASP-2BV, ASP-3BV & ASP-4BV BACK PRESSURE VS. AIR FLOW

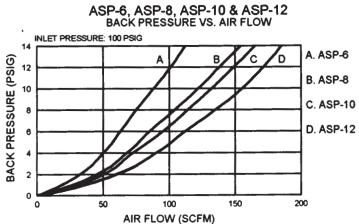


ASP-6BV, ASP-8BV, ASP-10BV & ASP-12BV BACK PRESSURE VS. AIR FLOW



FLOW CHARACTERISTICS -- PNEUMATIC EXHAUST MUFFLERS





STANDARD 40 MICRON ELÉMENT

SOUND CHARACTERISTICS -- PNEUMATIC EXHAUST MUFFLERS

	ASP-	1: 1/8"	ASP-2	2: 1/4"	ASP-3	: 3/8"	ASP-4	l: 1/2"	ASP-6	3: 3/4"	ASP-	8: 1"	ASP-10	: 1 1/4"	ASP-12	1 1/2"
back pressure (PSIG)	flow (SCFM)	dB	flow (SCFM)	dB	flow (SCFM)	dB	flow (SCFM)	dB								
1 2 3	4	72	5	75	9.5	81	17	92	32	99	45	109	38 54	102 103	52 82	111 112
4 5	5	72	8	75	14	83	28	94	50	101	68	107	70	107	108	111
6 7 8	6	73 73	12 15	76 82	16.5 18.5	83 83	35 42	98 99	63 75	101 102	84 104	106 106	85	106	126	110
9 10	7	76	16	83	20	84	48	100	88	102	122	106	110	105	150	109
11 12	9	78	19	84	22	84	53	101	101	102	138	106	131	105	162	109
13 14	11	80	21	84	23.5	85	57	101	112	103	154	106	154	105		

Arrow Pneumatics Fluid Power Accessories

SUPER QUIET FLOW ECONOMY PNEUMATIC SILENCERS / MUFFLERS

A new concept in muffler design incorporates a 50 mesh, self-cleaning, stainless steel screen in a strong, protective glass-filled nylon housing which is ultrasonically welded for maximum strength.

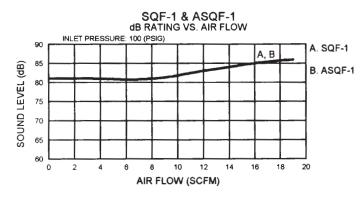
This unit offers greater flow with less pressure drop than the ASP Series, while reducing noise levels. See performance charts for flow information and sound characteristics.

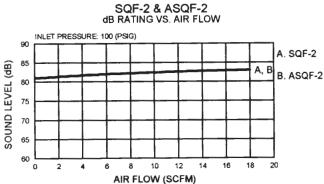
Maximum operating pressure: 150 PSI Operating temperatures: 35°F to 120°F

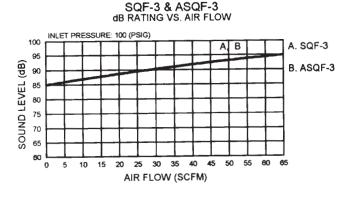


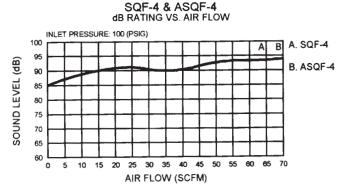
part no.	NPT	overall length	diameter	weight lbs.
SQF-1	1/8"	2 7/64"	13/16"	.02
SQF-2	1/4"	2 15/64"	13/16"	.03
SQF-3	3/8"	3 27/64"	1 1/4"	.09
SQF-4	1/2"	3 35/64"	1 1/4"	.09

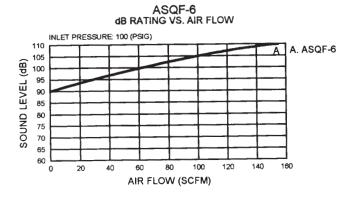
SOUND CHARACTERISTICS -- PNEUMATIC SILENCERS / MUFFLERS

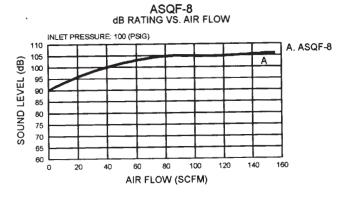












Fluid Power Accessories Arrow Pneumatics



part no.	NPT female	overall length	flats	weight lbs.
ASQF-1F ASQF-2F ASQF-3F ASQF-4F ASQF-6F ASQF-8F ASQF-10F ASQF-12F ASQF-16F	1/8" 1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"	1 7/8" 1 7/8" 3 1/4" 3 1/4" 4 5/8" 4 5/8" 5 1/2" 5 1/2" 6 7/16"	5/8" 5/8" 1" 1" 1 5/8" 1 5/8" 2 1/2" 2 1/2" 3"	.05 .06 .23 .38 .56 .58 .75 .81
part no. ASQF-1M ASQF-2M ASQF-3M ASQF-6M ASQF-6M ASQF-8M	NPT male 1/8" 1/4" 3/8" 1/2" 3/4"	overall length 1 7/8" 1 7/8" 3 1/4" 3 1/4" 4 5/8" 4 5/8"	flats 5/8" 5/8" 1" 1" 1 5/8" 1 5/8"	weight lbs06 .06 .21 .23 .56

SUPER QUIET FLOW HEAVY-DUTY METAL PNEUMATIC SILENCERS / MUFFLERS

Units 1/8" through 1" feature a 50 mesh, self-cleaning, stainless steel screen, corrosion-resistant aluminum shell, high flow and minimal back pressure.

When installed on the exhaust ports of pneumatic valves, metal pneumatic silencers are a quick and inexpensive way to help reduce work area noise. At the same time, they protect the inside of pneumatic valves from contamination which can enter through the exhaust ports.

See performance charts for flow information and sound characteristics.

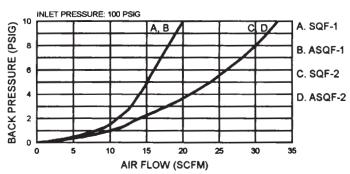
SHELL CONSTRUCTION: Aluminum.

Maximum supply pressure: 300 PSI Operating temperatures: 35°F to 160°F

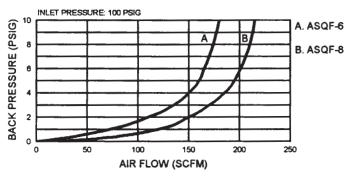
CAUTION: Operation at temperatures approaching 32°F could result in freeze up due to air line moisture.

FLOW CHARACTERISTICS -- PNEUMATIC SILENCERS / MUFFLERS

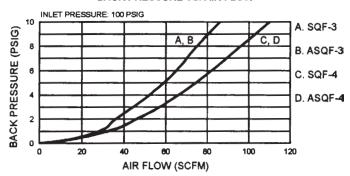
SQF-1, SQF-2, ASQF-1 & ASQF-2 BACK PRESSURE VS. AIR FLOW



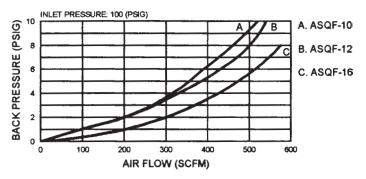
ASQF-6 & ASQF-8 BACK PRESSURE VS. AIR FLOW



SQF-3, SQF-4, ASQF-3, & ASQF-4 BACK PRESSURE VS. AIR FLOW



ASQF-10, ASQF-12 & ASQF-16 BACK PRESSURE VS. AIR FLOW



Arrow Pneumatics Fluid Power Accessories

SUPER QUIET FLOW RECLASSIFIERS / MUFFLERS

The reclassifier / muffler is used to treat exhaust air in many in-plant and white room pneumatic operations. It can be installed as a completely new unit or its patented coalescing reclassifier element can be purchased separately for installation on existing ASQF mufflers.

MEETS OSHA LIMITS SET TO REDUCE SOUND LEVELS AND EXHAUSTED OIL MIST.

Per OSHA 1910.95, a worker must not be exposed to sound levels above 90 dBA for any eight-hour work shift of a 40-hour work week. Per OSHA 29CFR 1910.10, a worker's cumulative exposure to oil mist must not exceed 4.32 particles per million (PPM) in any eight-hour work shift of a 40-hour work week. Based on an intake of 50 PPM at 100 PSIG, the reclassifier / muffler reduces the exhausted oil mist to .015 PPM. The reservoir has a drain plug that is also designed for use with continuous 1/4" drain tubing.

Maximum operating conditions: 160 SCFM, 300 PSIG

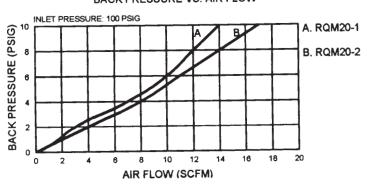
Maximum operating temperature: 160°F

	F	RECLASSIFIE	R / MUFFLE	R		RECLASSIFIER REPLACEMENT ELEMENT			
part no.*	NPT	overall length	width	reservoir capacity	weight lbs.	part no.	overall length	width	weight lbs.
RQM20-1M RQM20-1F	1/8"	3 1/8"	1 5/8"	.5 oz.	.075	RQMK20 RQMK20	2 3/4"	1 5/8"	.04
RQM20-2M RQM20-2F	1/4"	3 1/8"	1 5/8"	.5 oz.	.075	RQMK20 RQMK20	2 3/4"	1 5/8"	.04
RQM40-3M RQM40-3F	3/8"	4 3/4"	2 7/16"	1.4 oz.	.220	RQMK40 RQMK40	4 5/16"	2 7/16"	.10
RQM40-4M RQM40-4F	1/2"	4 3/4"	2 7/16"	1.4 oz.	.220	RQMK40 RQMK40	4 5/16"	2 7/16"	.10
RQM80-6M RQM80-6F	3/4"	6 1/4"	3 5/16"	3.5 oz.	.575	RQMK80 RQMK80	5 1/2"	3 5/16"	.21
RQM80-8F RQM80-8F	1"	6 1/4"	3 5/16"	3.5 oz.	.575	RQMK80 RQMK80	5 1/2"	3 5/16"	.21

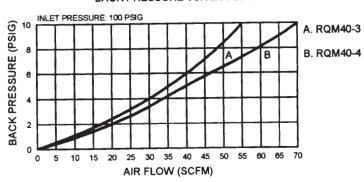


FLOW CHARACTERISTICS -- RECLASSIFIERS / MUFFLERS

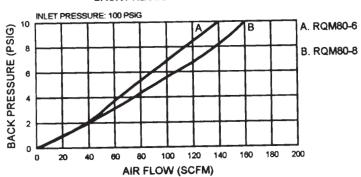
RQM20-1 & RQM20-2 BACK PRESSURE VS. AIR FLOW



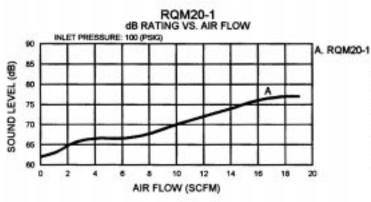
RQM40-3 & RQM40-4 BACK PRESSURE VS. AIR FLOW

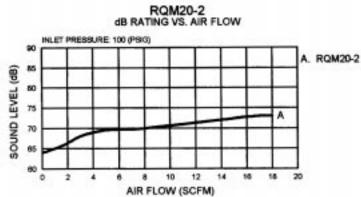


RQM80-6 & RQM80-8 BACK PRESSURE VS. AIR FLOW

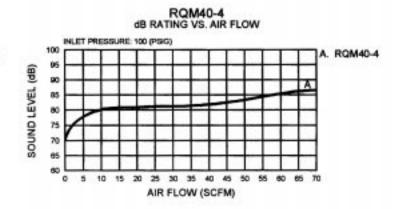


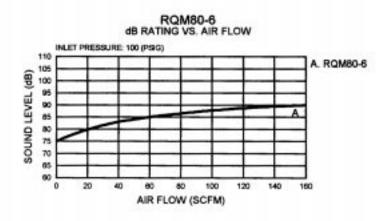
SOUND CHARACTERISTICS -- RECLASSIFIERS / MUFFLERS

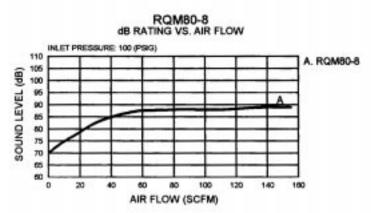




RQM40-3 dB RATING VS. AIR FLOW A. RQM40-3 SOUND LEVEL (dB) n AIR FLOW (SCFM)







Arrow Pneumatics Fluid Power Accessories

SPEED CONTROL MUFFLERS

Quiet Flow speed control mufflers provide an infinite variation of metering air flow at an acceptable sound level on exhaust ports of air valves with complete safety.

With linear adjusting ability, the speed of an operating cylinder or air tool may be increased or decreased with the adjusting screw. The final position is then locked in place by the lock nut. Objectionable exhaust air noise is eliminated by the surrounding sleeve of sintered bronze.

Complete safety in operation is featured in Quiet Flow speed control mufflers. The sintered bronze sleeve is held securely in position and protected by an integral shroud. Unit contains a 40 micron element.

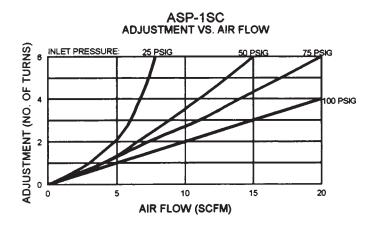
High flow units offer more surface area for increased flow.

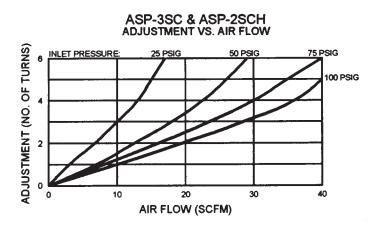
Maximum operating pressure: 300 PSI Operating temperatures: 35°F to 300°F

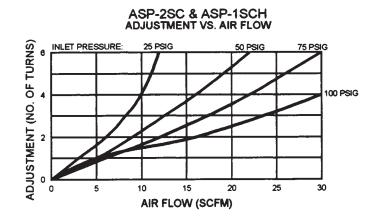


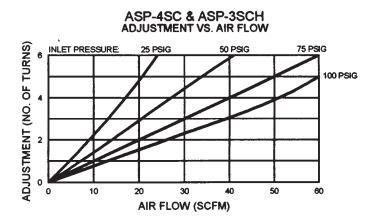
part no.*	NPT	max adj flow SCFM	approx height full oper	hex	weight lbs
ASP-1SC ASP-2SC ASP-3SC ASP-4SC ASP-6SC ASP-8SC	1/8" 1/4" 3/8" 1/2" 3/4" 1"	20 30 40 60 70 100	1 5/16" 1 9/16" 1 5/8" 2" 2 3/8" 2 1/2"	1/2" 9/16" 11/16" 7/8" 1 1/16" 1 5/16"	.07 .09 .14 .25 .42
ASP-1SCH ASP-2SCH ASP-3SCH ASP-4SCH	1/8" 1/4" 3/8" 1/2"	30 40 60 70	1 9/16" 1 5/8" 2" 2 3/8"	9/16" 11/16" 7/8" 1 1/16"	.09 .14 .25 .42

FLOW CHARACTERISTICS VS. ADJUSTMENT - SPEED CONTROL MUFFLERS

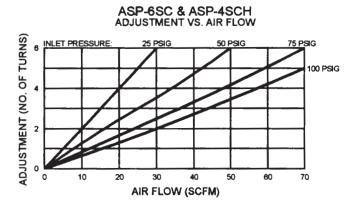


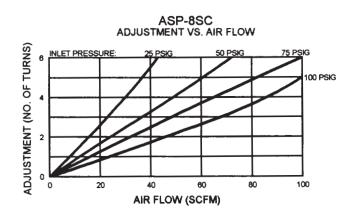




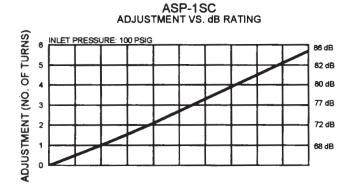


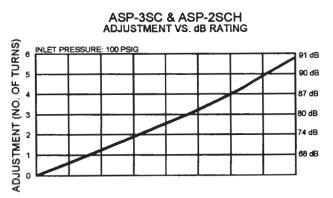
FLOW CHARACTERISTICS VS. ADJUSTMENT

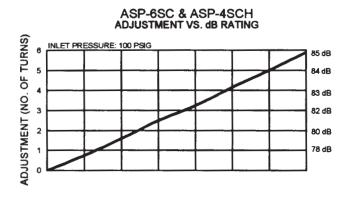


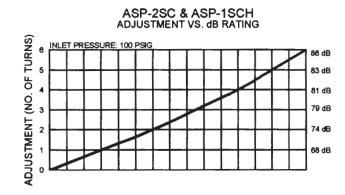


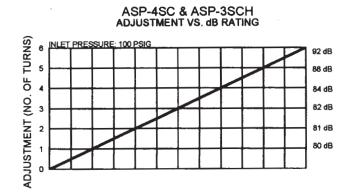
SOUND CHARACTERISTICS VS. ADJUSTMENT

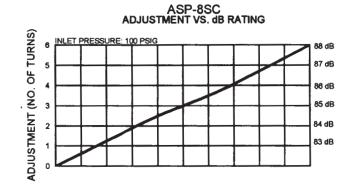












Arrow Pneumatics Fluid Power Accessories

IN-LINE TOOL FILTER

This unique, compact in-line filter provides low pressure drop, high air flow and is designed for air tools. The inlet can be attached directly to pneumatic air tools, protecting the tool with a 40 micron sintered metal element. The bronze element has a large surface area allowing long service before cleaning. But best of all the filter weighs less than 1/2 ounce.

Maximum operating pressure: 500 PSIG Operating temperatures: 35°F to 300°F



part no.	NPT male x female	overall length	hex	weight oz
9132	1/4"	1 9/16"	5/8"	.5

IN-LINE NIPPLE FILTERS

This inexpensive disposable in-line nipple filter is ideal for the filtration of water, oil and air. It is compact and lightweight and can be installed at the point of use. Unique unit construction features a brass fitting that contains a conically shaped, porous sintered bronze filter element. The shape of the filter element is conical, rather than disc, to provide a larger filtering flow and a true, uninterrupted axial flow.

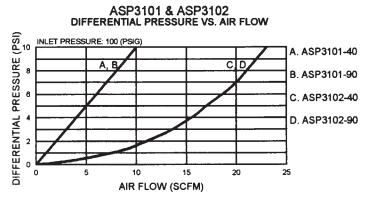
The porous sintered bronze element is available in the nominal filtration rating of 40 or 90 microns to insure minimum pressure drop.

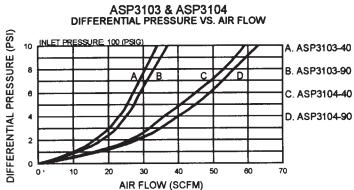
Maximum operating pressure: 300 PSI Operating temperatures: 35°F to 300°F



part no.	NPT	overall length	hex	weight lbs
ASP3101-40	1/8"	1 1/4"	7/16"	.04
ASP3101-90	1/8"	1 1/4"	7/16"	.04
ASP3102-40	1/4"	1 1/2"	9/16"	.08
ASP3102-90	1/4"	1 1/2"	9/16"	.08
ASP3103-40	3/8"	1 3/4"	11/16"	.14
ASP3103-90	3/8"	1 3/4"	11/16"	.14
ASP3104-40	1/2"	2"	7/8"	.86
ASP3104-90	1/2"	2"	7/8"	.86

FLOW CHARACTERISTICS -- IN-LINE NIPPLE FILTERS





Fluid Power Accessories Arrow Pneumatics



part no.*	NPT	overall length	diameter	weight lbs	element & seal	spring kit
9071	1/8"	2 5/16"	3/4"	.08	EK9072	SK9072
9072	1/4"	2 5/16"	3/4"	.08	EK9072	SK9072
9073	3/8"	2 5/16"	3/4"	.08	EK9072	SK9072
9074	1/2"	3 1/4"	1 1/2"	.46	EK9074	SK9052
9074M	1/2"	3 13/16"	1 1/2"	.46	EK9074	SK9052
9076	3/4"	3 1/4"	1 1/2"	.46	EK9074	SK9052
9076M	3/4"	3 13/16"	1 1/2"	.46	EK9074	SK9052

^{*}Use Suffix V for viton seals. For 90 or 20 micron elements, use micron size as dash number and add to part no. (i.e. 9072-20; EK9072-20).

AIR / OIL IN-LINE FILTERS

This in-line filter is designed specifically for the protection of small air tools, such as impact wrenches, nut runners, grinders and screwdrivers. It reduces downtime, prevents costly tool repairs and extends tool life.

The all-anodized, lightweight aluminum housing is compact and can be used directly before the air tool. Elements can be replaced quickly at nominal cost.

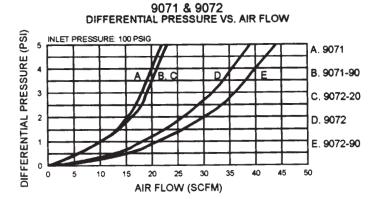
The standard element is 40 micron, which insures minimum pressure drop. Elements can be obtained in 20 or 90 micron filtration on special order.

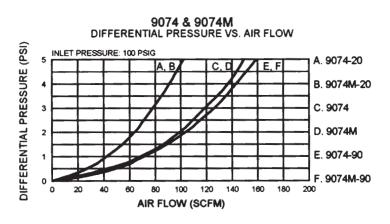
The in-line filter can also be used in low pressure hydraulic applications. When using for hydraulic applications, a 20 micron element is recommended. Special viton O-rings are available for oil systems where chemical action may be a problem.

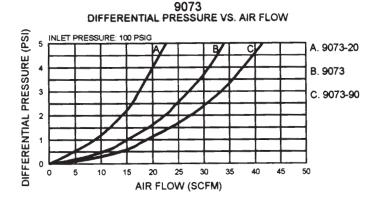
Maximum operating pressure: 500 PSI Operating temperatures: 35°F to 200°F

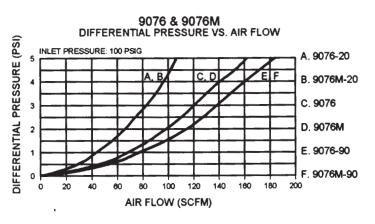
For viton: 35°F to 400°F

FLOW CHARACTERISTICS -- AIR / OIL IN-LINE FILTERS









Arrow Pneumatics Fluid Power Accessories

HYDRAULIC IN-LINE FILTERS

This hydraulic in-line filter provides protection for small, high pressure systems up to 3,000 PSI. By using this filter at the pressure side of a pump, foreign particles 25 microns and larger, such as those created by pump wear, are removed before damage can result to the valving in the system. A sintered bronze element ensures protection against crushing should dirt accumulate and increase pressure drop across the element.

The unique construction features an anodized aluminum housing for light weight, and a conically shaped sintered bronze element positioned by a retaining spring to allow true, uninterrupted axial flow. Special viton O-rings are available for oil systems where chemical action may be a problem. The standard 25 micron bronze filter element can be easily cleaned or replaced. Nominal filtration ratings of 90, 40, or 10 microns available.

Maximum operating pressure: 3000 PSI Operating temperatures: 35°F to 200°F

For viton: 35°F to 400°F

HYDRAULIC IN-LINE FILTERS -- TEE-TYPE

This in-line filter provides protection for small, high pressure systems up to 5,000 PSI. The design is similar in performance to the model 9052 and 9053 filters, with the added convenience of a cleanable element that can be removed without breaking line connections. A filter access cap simply unscrews for easy element cleaning and replacement.

The anodized aluminum housing is lightweight. Porting is 1/4", 3/8" or 9/16"-18 SAE NPT pipe. Viton O-rings are offered for oil systems where chemical action may be a problem. The standard bronze filter element is 25 micron. Nominal filtration ratings of 90, 40, or 10 microns available.

Maximum operating pressure: 5,000 PSI Operating temperatures: 35°F to 200°F

For viton: 35°F to 400°F



part no.*	NPTF	overall length	diameter	weight lbs	element & seal	spring kit
9052 9053 9054 9056 9152 9153	1/4" 3/8" 1/2" 3/4" 9/16"-18 SAE 3/4"-16 SAE	3 1/4" 3 1/4" 4 15/16" 4 15/16" 3 1/4" 3 1/4"	1 1/2" 1 1/2" 1 1/2" 1 1/2" 1 1/2" 1 1/2"	.46 .46 .83 .83 .46	EK9052 EK9052 EK9054 EK9054 EK9052 EK9052	SK9052 SK9052 SK9054 SK9054 SK9052 SK9052

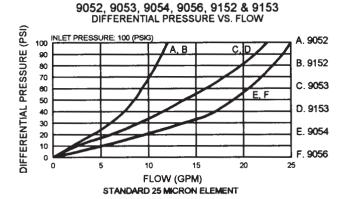
*Use Suffix V for viton seals. For 90, 40, or 10 micron elements, use micron size as dash number and add to part no. (i.e. 9052-10; EK9052-10).



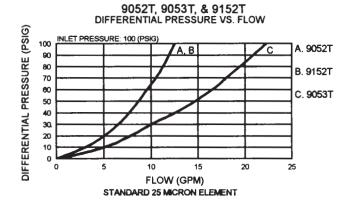
part no.*	NPT	overall length	diameter	weight lbs	element & seal	spring kit
9052T	1/4"	3 3/16"	2 1/8"	.93	EK9052	SK9052T
9053T	3/8"	3 3/16"	2 1/8"	.93	EK9052	SK9052T
9152T	9/16"-18 SAE	3 3/16"	2 1/8"	.93	EK9052	SK9052T

*Use Suffix V for viton seals. For 90, 40, or 10 micron elements, use micron size as dash number and add to part no. (i.e. 9052T-10; EK9052-10).

FLOW CHARACTERISTICS -- HYDRAULIC IN-LINE FILTERS



HYDRAULIC OIL MIL H 5606 OIL TEMP 100° F



HYDRAULIC OIL MIL H 5606 OIL TEMP. 100° F Fluid Power Accessories Arrow Pneumatics





ECONOMATIC DRAINS

ECONOMATIC drains are used to automatically drain filters, tanks, drain legs, aftercoolers and receivers. To trap large debris and sludge, a Y-strainer is included with the drain.

The drain can be set for manual operation or the drain interval and duration times can be preset. The drain interval can be adjusted between one to 60 minutes and the drain duration can be set from one to 30 seconds. The drain features: solid state adjustable controls, a corrosion-resistant, waterproof, molded solenoid coil, Buna N seals, a brass and stainless valve, a rust-and corrosion-proof NEMA 1 enclosure, an indicator light, and a heavy-duty, grounded, six-foot power cord.

part			dimensions		weight
no.	NPT	length	depth	height	lbs.
5702S	1/4"	4 15/16"	4 7/16"	3 11/16"	1.6
5704S	1/2"	5 7/16"	4 7/16"	4 3/16"	2.4

Maximum operating pressure: 200 PSIG Maximum fluid temperature: 165°F Ambient temperatures: 35°F to 165°F Voltage: 115/1/60 Amps: .25



AIR FLOW CHECK VALVES

These are designed to protect workers from accidents caused by air hose whip, a potentially dangerous situation that occurs when air hoses snap while under high pressure loads.

When an air hose ruptures, the flow check valve senses an increase in air flow and automatically reduces the flow to a safe level. As a reminder to shut off the air supply before replacing the ruptured hoses, the check valve has an exhaust bleed rate of 9 SCFM at 100 PSI.

These units are easy to install. The inlet pipe port of the check valve is threaded into the compressed air line upstream of the air hose. The air hose is threaded into the outlet port of the check valve.

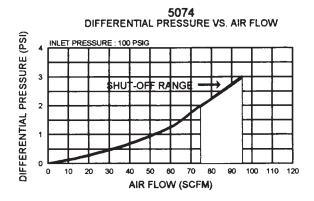
part no.	NPT	shut off range* SCFM	overall length	flats	weight lbs.			
5074	1/2"	85 +/- 10	3 7/8"	1 1/2"	.44			
5076	3/4"	100 +/- 10	3 7/8"	1 1/2"	.40			
*Based on an inlet pressure of 100 PSIG.								

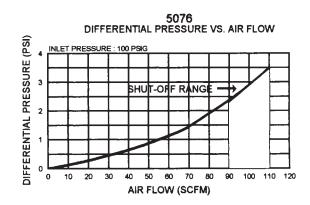
CONSTRUCTION: Protective, yet lightweight, anodized aluminum housing.

Maximum operating pressure: 300 PSI

Maximum temperature: 160°F

FLOW CHARACTERISTICS -- AIR FLOW CHECK VALVES





Arrow Pneumatics Fluid Power Accessories

PRESSURE SNUBBERS

These units protect pressure instruments from sudden shock and ensure accurate gauge readings without surges and fluctuations. They use a brass housing with a porous bronze element and are capable of handling pressures to 10,000 PSI maximum. Unit also serves as an excellent mini in-line filter. Dry seal pipe threads are standard. SAE threads available upon special request.

	RECOMMEND	ED ELEMENT POR	OSITY RATING			
micron	color		recommended			
rating	code					
40	none	viscose fluids (
30	black	med. type oils (J)		
25	brown	water and light oils (30 to 225 SSU)				
20	green	low viscosity flu	SSU)			
10	red	air and other ga				
part	,	overall		weight		
no.	NPT	length	diameter	lbs.		
602	1/4" M 1/4" F	1 3/8"	3/4"	.15		
602-E	5 replac	 ement elements	.03			
	Specify	Specify micron rating desired.*				
*Example: 602-E	-40			1		

Each unit is packaged with five elements of different micron ratings to allow each user to adjust snubbing capacity for the specific application. Low cost and designed for quick and simple change of elements make cleaning unnecessary.



Maximum operating pressure: 10,000 PSI Operating temperatures: 35°F to 300°F

LOCKOUT SLIDE VALVES

Lockout slide valves protect workers performing service on equipment powered by pneumatic, hydraulic or electrical energy. With a customer-supplied padlock, they allow equipment to be locked out from the energy source. A standard industrial grade padlock with 1/4" diameter shackle is recommended.

THREE-WAY SLIDE VALVES MEET OSHA LOCKOUT STANDARD

29CRF 1910.147 when used with a customer-supplied padlock and identification tag. The three-way slide valve is for use in the main line, upstream of equipment. When closed, it shuts off the upstream air and exhausts the downstream air.

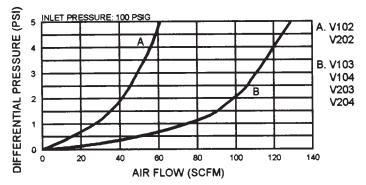
Body is black e-coat. Slide is 5% Teflon, high-impact, safety yellow plastic. Seals are pre-lubricated Buna O-rings. Screws are black coated steel.

Maximum operating pressure: 250 PSIG Maximum operating flow: 140 SCFM Operating temperatures: 35°F to 150°F Exhaust bleed at 100 PSI: 7 SCFM

part no.	NPTF	avg. C _V	overall length	width	depth	weight lbs.
V202	1/4"	2.7	3 1/8"	1 11/16"	1 15/16"	.40
V203	3/8"	6.4	3 1/8"	1 11/16"	1 15/16"	.40
V204	1/2"	6.4	3 1/8"	1 11/16"	1 15/16"	.40

FLOW CHARACTERISTICS -- LOCKOUT SLIDE VALVES

V102, V103, V104 & V202, V203, V204 DIFFERENTIAL PRESSURE VS. AIR FLOW



Fluid Power Accessories Arrow Pneumatics



PRESSURE SWITCH

The PDA4 pressure switch can be installed anywhere in a pneumatic or hydraulic system. It is often used to protect air compressors and pneumatically operated equipment from damage caused by over-pressurization. The unit can be set in a normally open or closed position in an adjustable actuation range from 10 PSIG to 110 PSIG with a \pm -2% repeatability.

The pressure switch has standard 18" wire leads of 300 V, 22 SWG.

For simple installation, thread the unit into the gauge port of a regulator or pipe tee.

CONSTRUCTION: Zinc die cast and plastic housing, and NEMA 13 electrical enclosure which is UL approved.

Maximum operating pressure: 300 PSI Operating temperatures: 35°F to 180°F

part no.	NPT	overall length	diameter	weight lbs.	voltage	inductive	resistive	
PDA4	1/4"	1 5/8"	1 1/8"	.25	125/150/VAC	5 AMP	7 AMP	
standard electrical current								
	bla gre	COLOR ack een ed			<u>CIR(</u> com normally normal	mon y closed		
	red normally open Note: 20% differential for reset, and 1% repeatability when operated with- in recommended conditions.							



MINI IN-LINE DESICCANT DRYER (-40°F DEW POINT)

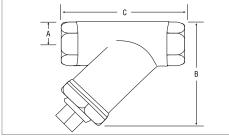
Used at the point-of-use, this patented, disposable, mini in-line desiccant dryer removes all traces of water vapor, oil vapor and dirt. It is often used directly upstream of blow guns or spray guns as final protection for critical parts blow off and paint spraying. Install in either direction; it functions in both directions. A 40 micron, porous bronze element removes fine dirt particles, an oil-removing media removes oil vapor and desiccant beads absorb water vapor. The see-through housing shows desiccant color change, which indicates that the dryer needs to be replaced. Full charge is a blue color, when the color changes to dark pink, filter needs to be replaced.

CONSTRUCTION: The housing is made of polycarbonate material which allows clear desiccant visibility. The large opening in the nylon guard shows color change when dryer needs replacing.

Maximum operating pressure: 125 PSI Maximum flow capacity: 15 SCFM Operating temperatures: 35°F to 130°F

		dimensior		
part no.	NPT/FPT	length	diameter	weight
				OZ.
DFD-10	1/4"	3 3/4"	1 11/16"	2.8





ARROW INLINE Y-STRAINER

The Arrow inline Y strainer, when installed before a valve or drain will trap large debris and sludge. This application prevents malfunctions and extends the life of valves or drains.

Maximum pressure: 300 PSI WOG

150 Steam

CONSTRUCTION: Cast bronze housing and cap, stainless steel 50 mesh screen

3/8" Brass plug standard for quick draining.

Special Feature: Maintenance can be done without removal of unit from line.

DIMENSION	S				
model			dimensions		weight
no.	NPT	А	В	С	oz.
S202	1/4"	15/32"	2 5/8"	2 11/16"	10.5
S204	1/2"	11/16"	2 7/8"	2 11/16"	12.6

ARROW PNEUMATICS, INC. WARRANTY

LIMITED WARRANTY -- Arrow Pneumatics warrants each Fluid Power and Sintered Product against defects in material and workmanship for a period of one year from date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge. This shall constitute the exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental or consequential damages, including without limitation damages or other costs resulting from labor charges, delays, vandalism, fouling caused by foreign material, damage from adverse air conditions, chemicals, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product.

THE COMPANY MAKES NO OTHER WARRANTY. ALL OTHER WARRANTIES, ORAL OR WRITTEN, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A SPECIFIC PURPOSE ARE HEREBY EXCLUDED AND DISCLAIMED. IN NO EVENT SHALL THE COMPANY BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

The liability of the company for all loss or damage resulting from nonconforming goods or tender, including breach of any and all warranties, shall be limited to refund of the purchase of the particular goods with respect to which the loss or damage occurred.



Arrow Pneumatics, Inc. has a long reputation as a world-leading manufacturer of sintered bronze elements and products. This reputation is built on producing high quality products with ongoing commitment to meet customer expectations.

All products are manufactured in the U.S.A. and marked with a \int \text{logo} logo to assure you are receiving genuine Arrow Pneumatics, Inc. sintered bronze components.

Wen it comes to features, performance and value, look for Arrow Pneumatics, Inc. \(\) logo marked sintered bronze elements and products.





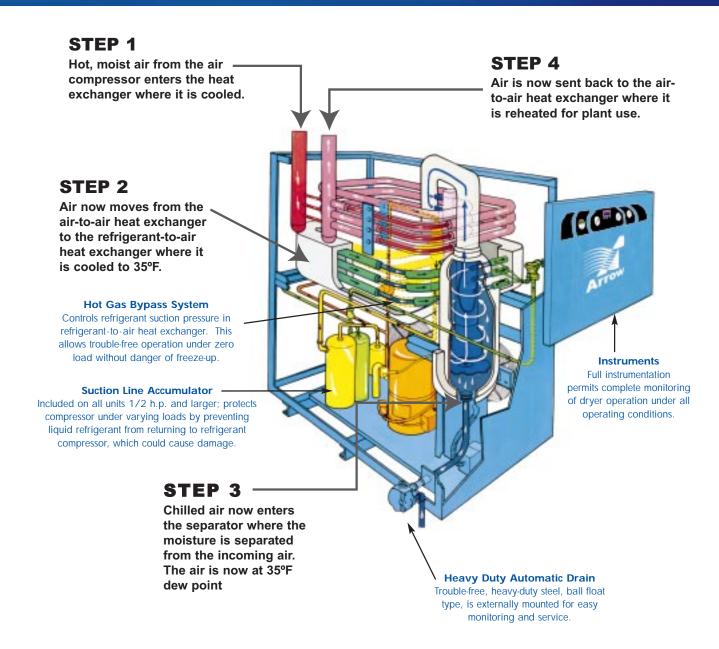
Refrigerated

Dry Air Technology

by Arrow Pneumatics







Modular Construction

Main heat exchangers 100% copper tubing, an air-to-air and a refrigerant-to-air, are made up of a stack of individual coils with a common header at each end. Each double tube coil is individually fed by a refrigerant line from the expansion valve to eliminate hot spots and insure the most efficient cooling of air in the inner tube.

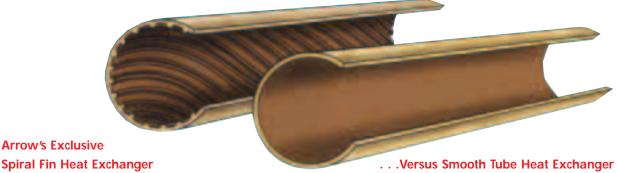
Refrigerant Feeder Assembly

Refrigerant is metered in equal amounts to each coil so refrigerant is evenly spread throughout the entire heat exchanger system. Utilizes quick response expansion valves instead of cheaper capillary tubes.

Controls

Highest quality controls are used throughout:

- Oil pressure safety switch protects compressor in case of low oil pressure.
- Water regulating valve, standard on water cooled units, conserves water usage.
- Low pressure and high pressure cutout switches protect refrigerator system from unsafe operating conditions.

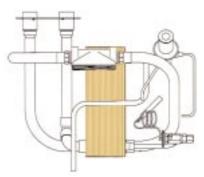


Arrow spiral fin tubing acts as a cold mechanical separator. sThe fins create turbulent flow and rotate the moisture laden air as it passes through the tubing. The turbulent flow and centrifugal forces generated cause the moisture and fog to condense rapidly and completely into water droplets. These droplets are trapped in the grooves between the fins and are easily removed by a mechanical separator.

By contrast, smooth tubing does not effectively tumble the air to cause all the molecules to come into contact with the cold tubing. Additionally, laminar flow does not permit effective condensation, and much of the condensate leaves the tube in the form of fog. A mechanical separator will not remove this fog and it is passed into the air stream in the form of a much higher dew point.

New! Braze Plate Design

New Arrow brazed plate heat exchangers in our "F-Series" dryers, Models F-10/20 thru F-150, provide turbulent flow, high heat transfer coefficients, lower pressure drops, in a compact size. These heat exchangers are made up of corrugated "herringbone" patterned AISI 316 type stainless steel channel plates. These plates are brazed together by using 99.9% pure copper, at all contact points and creates a completely hermetically sealed unit.. They are helium leak tested for internal and external leaks down to a volumetric equivalent to less than 2.8 grams of R-22 refrigerant per year. Arrow Pneumatics has incorporated this design in the new "F-Series" line of dryers. Our goals are to provide you with quality products adding higher efficiencies, reduced cabinet sizes, simplified installations and lower shipping costs



Automatic Pump-Down System

Runs for a short period after dryer is shut down to pump accumulated refrigerant from low pressure side of refrigerant system. Standard on all larger units. This prevents liquid refrigerant from migrating back to the compressor during shutdown, which could cause any refrigerant compressor to fail.

Crankcase Heater

Standard on 1-1/2 hp. and larger units. Keeps liquid refrigerant from contaminating compressor lubricating oil by heating refrigerant above evaporation point. Further protection for your system.

Semi-Hermetic Compressor

Semi-hermetic compressors are standard on 500 CFM to 2,500 CFM "C" series cycling dryers, as well as all units 3,000 cfm and above. These refrigerant compressors are more efficient and have a longer life than hermetic compressors.

They provide substantial energy savings at less than full-load conditions.



F-05/10 thru F-30/40

- Pressure Dew Point as low as 35°F
- Entire Heat Exchanger Thermally Insulated
- · Stainless Steel Heat Exchanger
- Built-in 40 Micron Particulate Filter
- R-134A Refrigerant
- · Compressor Thermal Overload
- Mechanical Moisture Separator with Automatic Float Type Drain @ 99.97% Efficiency
- Constant Pressure Expansion Valve
- Refrigerant Suction Pressure Gauge*
- *F-10/20 & F-30/40
- Electrical Cord with Grounded Plug (115 volt units only)
- Max. Operating Pressure Rated @ 250 psi
- One Year Warranty



F-50

- Pressure Dew Point as low as 35°F
- Entire Heat Exchanger Thermally Insulated
- · Stainless Steel Heat Exchanger
- Built-in 40 Micron Particulate Filter
- Power Light On/Off Switch
- · R-134A Refrigerant
- Compressor Thermal Overload
- · Mechanical Moisture Separator with Zero Air Loss Demand Drain

- · Thermal Expansion Valve
- Refrigerant Suction Pressure Gauge
- 6 ft. Electrical Cord with Grounded Plug (115 volt units only)
- Hot Gas Bypass System
- Max. Operating Pressure Rated @ 250 psi
- One Year Warranty



F-70/100 & F-125

- Pressure Dew Point as low as 35°F
- Entire Heat Exchanger Thermally Insulated
- · Stainless Steel Heat Exchanger
- Built-in 40 Micron Particulate Filter
- Power Light On/Off Switch
- Compressor Thermal Overload
- Mechanical Moisture Separator with zero air loss demand drain
- Thermostatic Expansion Valve
- Refrigerant Suction Pressure Gauge

- · 6 ft. Electrical Cord with Grounded Plug (115 volt units only)
- · Suction Line Accumulator
- · R-22 Refrigerant
- Air or Water Cooled Condensers*

*F125 Only

- Hot Gas Bypass System
- Max. Operating Pressure Rated @ 250 psi
- · One Year Warranty



F-150

- Pressure Dew Point as low as 35°F
- · Entire Heat Exchanger Thermally Insulated
- · Stainless Steel Heat Exchanger
- Built-in 90 Micron Particulate Filter
- Power Light On/Off Switch
- Compressor Thermal Overload
- Corrosion Resistant Coalescing Separator with 2 stage Separation and Zero Loss Demand Drain
- Thermostatic Expansion Valve
- Refrigerant Suction Pressure Gauge

- · Air Inlet Temperature Gauge
- · Air Inlet Pressure Gauge
- Max Operating Pressure Rated at 250 psi
- Suction Line Accumulator
- R-22 Refrigerant
- Hot Gas Bypass System
- Air or Water Cooled Condensers
- Max. Operating Pressure Rated @ 250 psi
- · One Year Warranty

A-200

- Pressure Dew Point as low as 35°F
- Spiral Fin Tubing
- Built-in 40 Micron Particulate Filter
- Power Light On/Off Switch
- R-22 Refrigerant
- Mechanical Moisture Separator with Zero Air Loss Demand Drain
- Thermostatic Expansion Valve
- Hot Gas Bypass System
- · Suction Line Accumulator

- · Refrigerant Sight Glass
- · Refrigerant Filter-Dryer
- Air or Water Cooled Condensers
- Air Inlet Temperature Gauge
- Refrigerant Suction Pressure Gauge
- · Air Inlet Pressure Gauge
- One Year Warranty
- Max. Operating Pressure Rated @ 250 psi
- Five Year Heat Exchanger Warranty



A-250 & A-300

- Pressure Dew Point as low as 35°F
- · Spiral Fin Tubing
- Built-in 40 Micron Particulate Filter
- Power Light On/Off Switch
- R-22 Refrigerant
- Mechanical Moisture Separator with Zero Air Loss Demand Drain
- Thermostatic Expansion Valve
- Hot Gas Bypass System
- · Suction Line Accumulator
- Refrigerant Sight Glass

- · Refrigerant Filter-Dryer
- Air or Water Cooled Condensers
- Refrigerant Suction Pressure Gauge
- Air Inlet Temperature Gauge
- Air Inlet Pressure Gauge
 Digital Display Papel
- Digital Display Panel
- Low Refrigerant Pressure Safety Switch
- Max. Operating Pressure Rated @ 250 psi
- One Year Warranty
- Five Year Heat Exchanger Warranty



Models 3512 thru 3519

- "C" Series Cycling Dryers Available
- Produce 340 to 1600 SCFM of Air with a Pressure Dew Point as low as 35°F
- Spiral Fin Tubing
- Heavy-duty Automatic Drain Standard
- Mechanical Water Separator
- Refrigerant Filter Standard
- Digital Panel Display
- Quick Response Expansion Valve Standard
- Hot Gas Bypass Valve Standard
- Crankcase Heater Standard
- Automatic Pump-down System Standard on 3514 and up
- Suction Line Accumulator Standard
- Water Regulating Valve Standard on Water Cooled Units
- One Year Warranty
- Five Year Heat Exchanger Warranty

Models 3521 thru 3560W



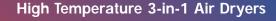
- "C" Series Cycling Dryers Available
- Produce 2,000 scfm to 5,000 scfm of Air with a 35°F Pressure Dew Point at 100 psig
- NEMA 12 Electrical Enclosure Standard (3523 and larger)
- Full Instrumentation to Monitor Performance
- Energy Savings up to 56% Available with Optional Cylinder Uploaders
- · Spiral Fin Tubing
- · Heavy-duty Automatic Drain
- Mechanical Water Separator

- · Refrigerant Filter
- Quick Response Expansion Valve
- · Hot Gas Bypass System
- · Suction Line Accumulator
- · Crankcase Heater
- Automatic Pump-down System
- Water Regulating Valve Standard on Water Cooled Units
- · Unsafe Condition Indicator Lights
- Five Year Heat Exchanger Warranty



Models 4041W thru 4046W

- Produce 5,000 scfm to 15,000 scfm of Air with a 39°F Pressure Dew Point at 100 psig
- 25 h.p. to 60 h.p. Motor, Carlyle Semi Hermetic Compressor
- High Efficiency Motor and Starter
- Fused Disconnect Switch Standard
- NEMA 12 Electrical Enclosure
- Full Instrumentation to Monitor Performance
- Power Factor Correction Equipment Available
- Full Safety Controls with Everload Protection for Compressor and Motor
- Unsafe Condition Shutdowns
- Energy Savings Up to 56% Available with Optional Cylinder Unloaders





- Flow Capacity Range 21- 400 SCFM
- 3-in-1 Design Eliminates the Need for an Aftercooler, Separator and Drain Trap Before the Air Dryer
- Pressure Dew Point as Low as 35°F
- Handles Inlet Air Temperature Up to 180°F
- All Copper Spiral Fin Tube-In-Tube Heat Exchanger Provides Maximum Efficiency for Heat Transfer and Moisture Separation
- Includes Monitoring Instrumentation, Separator and DrainTrap
- 6 ft. Electrical Cord with Grounded Plug on Models 3528 - 3531 with 115 volts
- Refrigeration Systems Utilize Environmentally Safe R-134A Refrigerant or R-22 Refrigerant
- Refrigerant Suction Pressure Gauge
- One Year Warranty
- Five Year Heat Exchanger Warranty

Note: 3528 - 3531 Max. Operating Pressure Rated@ 250 psi

Arrow Pneumatics refrigerant air dryers are energy efficient, with air-to-air and refrigerant-to-air heat exchangers to reduce energy consumption. Our "C" series cycling dryers are now available on 500 CFM and above units by using semi-hermetic compressors and head unloaders.





"C" SERIES CYCLING DRYER Arrow Model Numbers 3514C through 3560C

- · Significant Energy Savings
- Longer Compressor Life Because of Reduced Cycling Wear
- Semi-hermetic Compressors have a Three Times Longer Life than Hermetic Compressors
- •More BTU's/HR Capacity per KW with Semi-Hermetic Compressor
- No Dew Point Spikes which are Typical with Other Types of Cycling Dryers
- Superior Heat Exchanger Design with Spiral Fin Tube Construction

Semi-Hermetic Compressor Performance R-22 Refrigerant

						•				
Model	Flow Capacity SCFM	# of Cylinders	HP	In/Outlet Connections	Step Unloaders	Full Load KW	1st Step Unloader KW	Energy Savings	2nd Step Unloader KW	Energy Savings
3514-*C	500	4	3	3" NPT	1 Step	4.07	2.32	43%	N/A	
3514W-*C	500	4	3	3" NPT	1 Step	3.20	1.82	43%	N/A	
3515-*C	625	4	3	3" NPT	1 Step	4.07	2.32	43%	N/A	
3515W-*C	625	4	3	3" NPT	1 Step	3.20	1.82	43%	N/A	
3516-*C	750	4	5	3" NPT	1 Step	5.04	2.87	43%	N/A	
3516W-*C	750	4	5	3" NPT	1 Step	4.17	2.38	43%	N/A	
3517-*C	1000	4	5	4" FLG	1 Step	6.51	3.71	43%	N/A	
3517W-*C	1000	4	5	4" FLG	1 Step	5.25	2.99	43%	N/A	
3518-*C	1200	4	5	4" FLG	1 Step	7.13	4.06	43%	N/A	
3518W-*C	1200	4	5	4" FLG	1 Step	5.87	3.35	43%	N/A	
3519-*C	1600	6	6.5	6" FLG	2 Step	9.37	6.75	28%	4.12	56%
3519W-*C	1600	6	6.5	6" FLG	2 Step	8.11	5.84	28%	3.57	56%
3521-*C	2000	6	10	6" FLG	2 Step	14.56	10.48	28%	6.41	56%
3521W-*C	2000	6	10	6" FLG	2 Step	13.30	9.58	28%	5.85	56%
3548W-*C	2300	6	10	6" FLG	2 Step	13.30	9.58	28%	5.85	56%
3522-*C	2500	6	10	6" FLG	2 Step	14.81	10.48	28%	6.41	56%
3523-*C	3000	4	15	6" FLG	1 Step	18.06	10.29	43%	N/A	0%
3549W-*C	3000	6	10	6" FLG	2 Step	13.30	9.58	28%	5.85	56%
3524-*C	3750	4	15	6" FLG	1 Step	19.57	11.10	43%	N/A	0%
3550-*C	4000	6	25	6" FLG	2 Step	18.90	14.45	28%	10.00	56%
3550W-*C	4000	4	15	6" FLG	1 Step	16.55	9.43	43%	N/A	0%
3560-*C	5000	6	25	8" FLG	2 Step	27.02	20.93	28%	14.55	56%
3560W-*C	5000	4	20	8" FLG	1 Step	16.55	9.43	43%	N/A	0%

All capacities above are based on design conditions of $100^{\circ}F$ inlet, 100 PSIG and $100^{\circ}F$ ambient.

Voltage Codes

- -3 208/3/60 or 200-240/3/50
- -4 460/3/60 or 380/3/50
- -5 575/3/60

Model	Flow Capacity at Listed Dew Point SCFM 35°F 50°F		Air Line Conn. In & Out	Drain Connect.	Refrig. Comp. H.P.	Maxi He Reje BTU	eat ction	Cool Air Flow	Max. Water Flow GPM	Volt. Code	Std. Instrum. Panel	Optional Instrum.	Cond. Type	I	Dimensio (inches)		Wt. Lbs.	KW Input⁵
	35°F	50°F			Rating	Air Cooled	Water Cooled	CFM	85°F In, 95°F Out					Height	Width	Length		
F-05/10	10	12	3/8" OD	3/8" OD	1/6	1,050		125		1, 2	Α	16	Air	13.5	13	15	50	.20
F-10/20	20	25	1/2" FPT	3/8" OD	1/6	1,560		125		1, 2	В	16	Air	13.5	13	18	58	.26
F-30/40	40	50	1/2" FPT	3/8" OD	1/4	2,420		125		1, 2	В	16	Air	16	14	22	78	.40
F-50	50	62	1" FPT	3/8" OD	1/4	3,316		185		1, 2	В	16	Air	16	14	22	83	.48
F-70/100	100	124	1" FPT	3/8" OD	1/2	6,000		350		1,2	В	16	Air	27.5	20	30	163	.51
F-125	125	156	1" FPT	3/8" OD	3/4	9,325	8,770	800	1.5	1, 2	В	16	Air or Water	27.5	20	30	190	1.28
F-150	150	175	1 1/2" FPT	1/2" FPT	1	9,325	8,900	800	1.7	1, 2, 4	D	16	Air or Water	27.5	20	30	190	1.34
A-200	200	240	2" MPT	1/2" FPT	1	9,500	8,900	800	1.7	1, 2, 4	D	4, 5,12, 13, 16	Air or Water	42	29	38	435	1.34
A-250	250	290	2" MPT	1/2" FPT	1-3/4	19,170	17,600	1125	2.7	2, 3, 4	E	4, 5, 12, 13, 16	Air or Water	42	29	38	477	2.37
A-300	300	350	2" MPT	1/2" FPT	1-3/4	19,170	17,600	1125	3.5	2, 3, 4	E	4,5, 12, 13, 16	Air or Water	42	29	38	505	2.37
3512	340	420	3" NPT	1/2" NPT	1-3/4	22,930	21,915	2000	4.4	2, 3, 4	F	1-7, 9, 12, 13, 15-17	Air or Water	44.5	38	42	716	2.01
3513	400	489	3" NPT	1/2" NPT	2	30,470	28,940	2000	5.8	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	44.5	38	42	718	2.75
3514	500	600	3" NPT	1/2" NPT	3	43,625	41,720	2100	8.3	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	44.5	38	42	807	3.75
3515	625	750	3" NPT	3/4" NPT	3	43,625	41,720	2100	8.3	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	59	38	50	1136	3.75
3516	750	900	3" NPT	3/4" NPT	4	57,170	54,925	4200	11	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	59	38	50	1147	4.38
3517	1000	1250	4" FLG	3/4" NPT	5-1/2 ²	73,600	70,030	5000	14	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	72	38	50	1500	7.15
3518	1200	1500	4" FLG	3/4" NPT	5-1/2 ²	80,500	77,280	5000	14.6	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	72	38	50	1570	7.15
3519	1600	1920	6" FLG	3/4" NPT	7-1/2 ²	114,510	109,345	5600	21.9	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	87	38	50	2117	8.90
3521	2000	2400	6" FLG	3/4" NPT	10 ²	159,937	139,407	5600	27.5	3, 4, 5	G	1-7, 9-15	Air or Water	91	56	72	3024	11.40
3548W	2300	2750	6" FLG	3/4" NPT	12 ²		158,604		30.2	3, 4, 5	G	1-7, 10-14, 19	Water	98	57	80	3400	8.70
3522	2500	3000	6" FLG	3/4" NPT	12 ²	194,263	169,008	11600		3, 4, 5	Н	2-7, 10, 11, 13, 14,19	Air	98	57	98	4076	14.56
3523	3000	3600	6" FLG	3/4" NPT	15 ²	207,640		11600		3, 4, 5	Н	2-7, 10, 11, 13, 14,19	Air	98	57	98	4538	18.06
3549W	3000	3600	6" FLG	3/4" NPT	10 ²		191,600		38.3	3, 4, 5	Н	2-7, 10, 11, 13, 14,19	Water	98	57	98	3698	13.30
3524	3750	4500	6" FLG	3/4" NPT	15 ²	266,120		11600		3, 4, 5	Н	2-7, 10, 11, 13, 14,19	Air	98	57	98	5000	19.57
3550W	4000	5000	6" FLG	3/4" NPT	15 ²		255,240		51	3, 4, 5	Н	2-7, 10, 11, 13, 14,19	Water	106	57	80	5000	16.55
3560W	5000	5750	8" FLG	3/4" NPT	20 ²		281,250		63	3, 4, 5	Н	2-7, 10, 11, 13, 14,19	Water	109	57	80	5000	16.55
4041W	5000	5750	8" FLG	3/4" NPT	25 ²		313,000		68	3, 4, 5	J	2-5, 7,10,11, 13, 14, 19	Water	79	56	140	5000	24.70
4042W	6250	7200	8" FLG	3/4" NPT	25 ²		373,000		75	3, 4, 5	J	2-5, 7,10,11, 13, 14, 19	Water	82	56	141	6500	26.30
4043W	7500	8625	8" FLG	3/4" NPT	35 ²		468,000		94	3, 4, 5	J	2-5, 7,10,11, 13, 14, 19	Water	88	60	140	7700	37.00
4044W	10000	11500	10" FLG	3/4" NPT	40 ³		565,000		113	3, 4, 5	J	2-5, 7,10,11, 13, 14, 19	Water	103	65	150	10000	32.00
4045W	12500	14375	12" FLG	3/4" NPT	50 ³		713,000		143	3, 4, 5	J	2-5, 7,10,11, 13, 14, 19	Water	108	72	150	13000	42.00
4046W	15000	17250	12" FLG	3/4" NPT	60 ³		878,000		176	3, 4, 5	J	2-5, 7,10,11, 13, 14, 19	Water	120	75	160	15500	57.00

High Temperature 3-in-1 Dryers

Model	Flow Capacity ¹ CFM at 160°F Saturated		FM at Re Saturated Air Line Co		Refrig. Comp. H.P.	Maximum Heat Rejection BTU/Hr. Air	Cool Air Flow	Volt.	Std.	Optional	Condense.	Di	imensio (inches)		Wt.	KW
	100 PSIG	140 PSIG	In & Out	Connect.	Rating	Cooled	CFM	Code	Panel	Instrum.	Type⁴	Height	Width	Length	Lbs.	Input⁵
3528	21	21.9	1" NPT	3/8" OD	1/4	3900	185	1, 2	В	16	Air	27.5	20	30	141	.40
3529	30	36.8	1" NPT	3/8" OD	1/2	6500	350	1, 2	В	16	Air	27.5	20	30	158	.51
3530	50	56	1" NPT	3/8" OD	3/4	9900	800	1, 2	В	16	Air	27.5	20	30	200	1.28
3531	70	81	1" NPT	3/8" OD	1	16140	1125	1, 2, 4	С	1, 16	Air	31.5	27.5	34	288	1.73
3532	105	130	2" NPT	1/2" NPT	1-3/4	25500	1125	2, 3, 4	С	1, 16	Air	42	29.5	40	508	2.01
3533	135	187	3" NPT	1/2" NPT	2	32900	2000	3, 4	K	1, 16	Air	49.5	38.5	44	698	2.75
3534	220	280	3" NPT	1/2" NPT	3	54000	2100	3, 4	K	1-5,7,8,10-14,16	Air	49.5	38.5	44	768	4.38
3535	300	365	3" NPT	3/4" NPT	4	65600	4200	3, 4	K	1-5, 7,8,10-14,16	Air	63.5	38.5	52	1113	5.75
3536	400	480	3" NPT	3/4" NPT	5-1/2	88000	5000	3, 4	K	1-5,7,8,10-14,16	Air or Water	63.5	38.5	52	1190	7.15

NOTES:

- 1. All capacities above are based on design conditions of 100°F inlet, 100 psig, and 100°F ambient except 3-in-1 dryers, which are based on 160°F inlet and 100°F ambient temperature.
- 2. Semi-hermetic compressor available on all "C" Series Cycling Dryers (Models 3514 thru 3522). Refer to X1022.
- 3. Single or Dual compressor offered or open drive.
- 4. Water regulating valve furnished with all water cooled units.
- 5. KW figures for water cooled models are 15% less than figures shown. Figures include total electric draw under maximum load, including fan motors, indicators, etc.
- Dryers rating 250 psi max. working pressure; std. drain trap rated for 250 psi max. up to A·300, 200 psi and larger sizes.
- On models F-70/100 and larger, an electronic drain (model 5702S) may be substituted for the std. float type drain for an additional charge.
 This must be noted on your P.O.

VOLTAGE CODE

 Standard
 Export

 1 · 115/1/60
 100/1/50

 2 · 208-230/1/60
 200-240/1/50

 3 · 208-230/3/60
 200-240/3/50

 4 · 460/3/60
 380/3/50

5 - 575/3/60

STANDAR	DΙ	NS	TR	UN	IEN	IT I	PAN	IEL			
	Α	В	С	D	Ε	F	G	Н	I	J	K
On/Off Switch		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\vee	\checkmark	\checkmark	\checkmark
Power On Light	\vee	\checkmark	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark	\checkmark	
Compressor On Light						\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Air Inlet Temp. Gauge			\checkmark	\checkmark			\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Air Inlet Pressure Gauge				\checkmark							
Air Outlet Pressure Gauge			\vee				\checkmark	\gt	\checkmark	\checkmark	\checkmark
High Temperature Light	\lor										
Air Dew Point Temp. Gauge									\checkmark	\checkmark	
Digital Temp. Display*						\checkmark					
Differential Pressure Gauge					\vee	\checkmark					
Refrigerant Suction Pressure Gauge		V	V	V	V	/	\	>	V	/	V
Refrigerant Discharge Pressure Gauge						>	\	>	√	\	
Refrigerant Temp. Gauge							\checkmark	>	\checkmark	\checkmark	\vee
Hi/Low Refrigerant Pressure Light								>	√	\	
Low Oil Pressure Light									\checkmark	\checkmark	
Cooling Water Temp. Gauges (In & Out)									√	\	
Evaporator Pressure Gauge										\checkmark	
NEMA 12 Enclosure								\checkmark	\lor	\checkmark	

^{*} Digital panel displays ambient air temp., compressor suction temp., compressor discharge temp., and inlet air temp.

Notes

- 1) Second gauge on models 4042W and 4043W is an evaporator pressure gauge when an evaporator pressure valve is used.
- 2) Electric Power Cords 6 ft. electrical cord with grounded plug is standard on all F-10/20 thru F-70/100 115V units.

Air Flow Ratings of ARROW Dryers

Air dryer rated flows are based upon design conditions of 100°F inlet, 100 psig, 100°F ambient. If these conditions vary, the rated flows will vary in accordance with the following general rules and tables.

1) As Inlet Air Temperature increases, Flow Capacity will decrease:

Inlet Air Temperature	90°F	95°F	100°F	110°F	120°F
Flow Capacity Multiplier:	1.23	1.13	1.00	0.83	0.69

2) As Air Line Pressure increases, Flow Capacity will increase:

Air Line Pressure:	60 psig	80psig	100 psig	120 psig	150 psig
Flow Capacity Multiplier:	.88	.95	1.00	1.04	1.08

3) As Ambient Air Temperature increases, Flow Capacity will decrease:

Ambient Air Temperature	80°F	90°F	100°F	110°F
Flow Capacity Multiplier:	1.14	1.07	1.00	.92

4) As the **Dew Point** increases, **Flow Capacity** will increase: If design conditions (100°F, 100 psig, 100°F ambient) remain the same, but a higher dew point is acceptable, the Flow Capacity will increase approximately in accordance with the following multipliers:

Dew Point	39°F	45°F	50°F
Flow Capacity Multiplier:	1.05	1.15	1.20

These figures are simply general rules, multipliers, and formulas to help you select a dryer; however, they do not apply to 3-in-1 dryers.

OPTIONAL INSTRUMENTATION AND FEATURES

- 1) Power On Light
- 2) High Inlet Air Temperature Light
- 3) High Refrigerant Discharge Pressure Light
- 4) Low Ambient Fan Cut-Out Switch
- 5) Dead System Shutdown Light
- 6) Condensate Drain Alarm
- 7) Air Outlet Temperature Gauge
- 8) Refrigerant Discharge Pressure Gauge
- 9) Cooling Water Temperature In/Out
- 10) Air Dew Point Temperature
- 11) Air Flow Gauge
- 12) NEMA 12 or NEMA 13 Enclosures
- 13) Waterproof Enclosure with NEMA 4 Wiring
- 14) Fused Disconnect Switch
- 15) High Pressure Package
- 16) Electric Drain
- 17) Air Outlet Pressure
- 18) Refrigerant Temperature
- 19) Capacity Pressure Unloaders

	МО	ISTURE REMOVA	L DATA	
TEMP. AT	SYSTEM	LBS. CONDENSED	LBS.PER	GALLONS
RECEIVER TANK	TEMP.	PER 100 CFM	8 HR. SHIFT	PER 8 HR. SHIFT
120	70	.05613	26.94	3.23
100	70	.02455	11.78	1.41
90	70	.01399	6.718	.81
80	70	.005965	2.863	.34
120	50	.06386	30.65	3.67
100	50	.03227	15.49	1.86
90	50	.02172	10.43	1.25
80	50	.01369	6.571	.79
120	35	.06714	32.23	3.86
100	35	.03556	17.07	2.05
90	35	.02501	12.00	1.44
80	35	.01698	8.149	.98

NOTE: 8.3453 LBS. PER GALLON

INSTRUMENTATION



3 Gauge Instrument Panel Includes:* Refrigerant Suction Pressure Gauge, Air Inlet Pressure Gauge, Air Inlet Temperature Gauge and Power Indicator Light.

*Standard on models F-150 & A-200

Optional Instrumentation: Low Ambient Cut Out and Dead System Shutdown Light. (A-200 Only)



3 Gauge Instrument Panel with Digital Display Includes:*

Refrigerant Suction Pressure Gauge, Inlet Air Pressure Gauge, Efficiency Pressure Gauge and Power On/Off Switch. Digital Temperature Display Provides: Ambient, Compressor Suction, Compressor Discharge and Inlet Air Temperatures

*Standard on models A250 & A-300

Optional Instrumentation: Low Ambient Cut Out and Dead System Shutdown Light



4 Gauge Instrument Panel with Digital Display Includes:*

Refrigerant Discharge Pressure Gauge, Refrigerant Suction Pressure Gauge, Inlet Air Pressure Gauge, Efficiency Pressure Gauge and Power On/Off Switch. Digital Temperature Display Provides: Ambient, Compressor Suction, Compressor Discharge and Inlet Air Temperatures

Optional Temperature Readouts Include: Air Outlet Temperature, Refrigerant Temperature and Cooling Water In/Out

Optional Gauges Include: Air Outlet Pressure Gauge

*Standard on models 3512 through 3519



Instrumentation Panel for High Capacity Dryers

Includes*: Refrigerant Suction Pressure Gauge, Air Inlet Pressure Gauge, Air Outlet Pressure Gauge, Air Inlet Temperature Gauge, Refrigerant Temperature, and Refrigerant Discharge Pressure Gauge. *Standard on models 3548W through 4046W

Optional Instrumentation: Air Outlet Temperature, Air Dew Point Temperature, Air Flow Gauge, Cooling Water Temperature In/Out, High Inlet Air Temperature Light, High Discharge Pressure Light, Low Oil Pressure Light, Low Ambient Cut Out, Dead System Shutdown Light and Condensate Drain Alarm

WARRANTY

Arrow refrigerated type compressed air dryers are warranted to be free from defects in material and workmanship, when used under conditions recommended by the manufacturer, for a period of twelve (12) months from the date of start-up not to exceed eighteen (18) months from date shipped from factory. Products purchased from warehouse stock are warranted for a period of twelve (12) months from date of shipment from that warehouse provided Arrow is furnished full name, address and date of shipment information.

The patented modular heat exchanger used on models <u>A-200 through 3560</u> is warranted for five (5) years. This warranty is limited to the replacement of the heat exchanger, F.O.B. factory, and is subject to the same restrictions as outlined below concerning misuse, abuse or accident.

This warranty applies to equipment installed, operated and maintained in accordance with the procedures and recommendations as outlined in the owner's manual published by Arrow Pneumatics.

The electric drain trap is warranted to be free from mechanical defects for a period of ninety (90) days.

Air cooled aftercoolers, watercooled aftercoolers and moisture separators are warranted to be free from defects in material and workmanship, when used under conditions recommended by the manufacturer, for a period of twelve (12) months from the date of shipment from the factory or regional warehouse.

During the period of this warranty, Arrow Pneumatics will repair or replace (at Arrow's option), free of charge, F.O.B. its plant, any defective part or assembly, if such defect occurred in normal service and was not due to apparent misuse, abuse or accident.

Before any warranty service work is started, it must first be authorized by Arrow Pneumatics. Please contact our Warranty Department at (847) 540-2133. Unauthorized service voids the warranty and any resulting charges will not be reimbursed by Arrow Pneumatics.

The foregoing warranty is exclusive and in lieu of all other warranties, written, oral or implied, and the company makes no warranty of merchantibility or fitness for any particular purpose or use. In no event shall the company be liable for special, incidental or consequential damages or losses arising out of or caused by products which may prove to be defective, including, but not limited to loss of revenues and loss of profits.



ARROW PNEUMATICS















Your Local Distributor



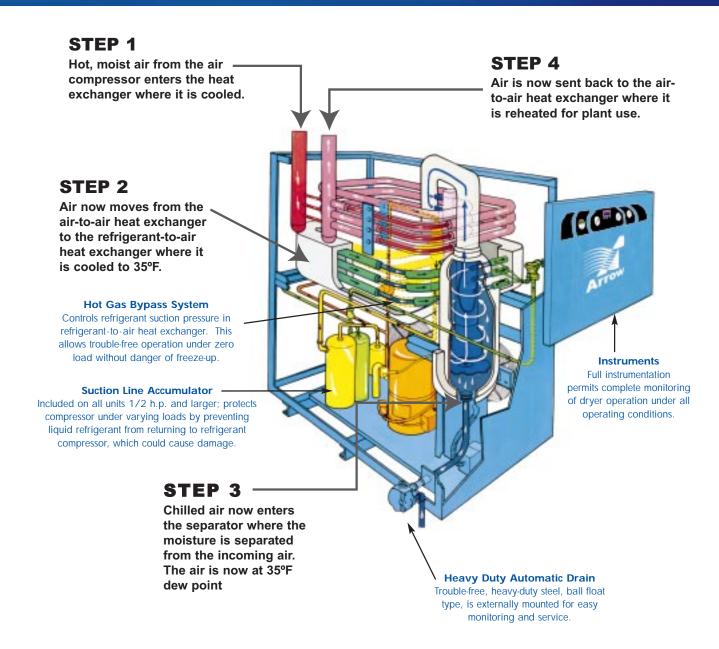
Refrigerated

Dry Air Technology

by Arrow Pneumatics







Modular Construction

Main heat exchangers 100% copper tubing, an air-to-air and a refrigerant-to-air, are made up of a stack of individual coils with a common header at each end. Each double tube coil is individually fed by a refrigerant line from the expansion valve to eliminate hot spots and insure the most efficient cooling of air in the inner tube.

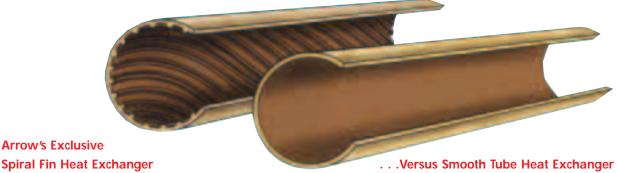
Refrigerant Feeder Assembly

Refrigerant is metered in equal amounts to each coil so refrigerant is evenly spread throughout the entire heat exchanger system. Utilizes quick response expansion valves instead of cheaper capillary tubes.

Controls

Highest quality controls are used throughout:

- Oil pressure safety switch protects compressor in case of low oil pressure.
- Water regulating valve, standard on water cooled units, conserves water usage.
- Low pressure and high pressure cutout switches protect refrigerator system from unsafe operating conditions.

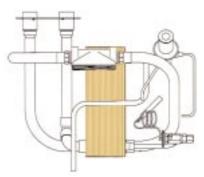


Arrow spiral fin tubing acts as a cold mechanical separator. sThe fins create turbulent flow and rotate the moisture laden air as it passes through the tubing. The turbulent flow and centrifugal forces generated cause the moisture and fog to condense rapidly and completely into water droplets. These droplets are trapped in the grooves between the fins and are easily removed by a mechanical separator.

By contrast, smooth tubing does not effectively tumble the air to cause all the molecules to come into contact with the cold tubing. Additionally, laminar flow does not permit effective condensation, and much of the condensate leaves the tube in the form of fog. A mechanical separator will not remove this fog and it is passed into the air stream in the form of a much higher dew point.

New! Braze Plate Design

New Arrow brazed plate heat exchangers in our "F-Series" dryers, Models F-10/20 thru F-150, provide turbulent flow, high heat transfer coefficients, lower pressure drops, in a compact size. These heat exchangers are made up of corrugated "herringbone" patterned AISI 316 type stainless steel channel plates. These plates are brazed together by using 99.9% pure copper, at all contact points and creates a completely hermetically sealed unit.. They are helium leak tested for internal and external leaks down to a volumetric equivalent to less than 2.8 grams of R-22 refrigerant per year. Arrow Pneumatics has incorporated this design in the new "F-Series" line of dryers. Our goals are to provide you with quality products adding higher efficiencies, reduced cabinet sizes, simplified installations and lower shipping costs



Automatic Pump-Down System

Runs for a short period after dryer is shut down to pump accumulated refrigerant from low pressure side of refrigerant system. Standard on all larger units. This prevents liquid refrigerant from migrating back to the compressor during shutdown, which could cause any refrigerant compressor to fail.

Crankcase Heater

Standard on 1-1/2 hp. and larger units. Keeps liquid refrigerant from contaminating compressor lubricating oil by heating refrigerant above evaporation point. Further protection for your system.

Semi-Hermetic Compressor

Semi-hermetic compressors are standard on 500 CFM to 2,500 CFM "C" series cycling dryers, as well as all units 3,000 cfm and above. These refrigerant compressors are more efficient and have a longer life than hermetic compressors.

They provide substantial energy savings at less than full-load conditions.



F-05/10 thru F-30/40

- Pressure Dew Point as low as 35°F
- Entire Heat Exchanger Thermally Insulated
- · Stainless Steel Heat Exchanger
- Built-in 40 Micron Particulate Filter
- R-134A Refrigerant
- · Compressor Thermal Overload
- Mechanical Moisture Separator with Automatic Float Type Drain @ 99.97% Efficiency
- Constant Pressure Expansion Valve
- Refrigerant Suction Pressure Gauge*
- *F-10/20 & F-30/40
- Electrical Cord with Grounded Plug (115 volt units only)
- Max. Operating Pressure Rated @ 250 psi
- One Year Warranty



F-50

- Pressure Dew Point as low as 35°F
- Entire Heat Exchanger Thermally Insulated
- · Stainless Steel Heat Exchanger
- Built-in 40 Micron Particulate Filter
- Power Light On/Off Switch
- · R-134A Refrigerant
- Compressor Thermal Overload
- · Mechanical Moisture Separator with Zero Air Loss Demand Drain

- · Thermal Expansion Valve
- Refrigerant Suction Pressure Gauge
- 6 ft. Electrical Cord with Grounded Plug (115 volt units only)
- Hot Gas Bypass System
- Max. Operating Pressure Rated @ 250 psi
- One Year Warranty



F-70/100 & F-125

- Pressure Dew Point as low as 35°F
- Entire Heat Exchanger Thermally Insulated
- · Stainless Steel Heat Exchanger
- Built-in 40 Micron Particulate Filter
- Power Light On/Off Switch
- Compressor Thermal Overload
- Mechanical Moisture Separator with zero air loss demand drain
- Thermostatic Expansion Valve
- Refrigerant Suction Pressure Gauge

- · 6 ft. Electrical Cord with Grounded Plug (115 volt units only)
- · Suction Line Accumulator
- · R-22 Refrigerant
- Air or Water Cooled Condensers*

*F125 Only

- Hot Gas Bypass System
- Max. Operating Pressure Rated @ 250 psi
- · One Year Warranty



F-150

- Pressure Dew Point as low as 35°F
- · Entire Heat Exchanger Thermally Insulated
- · Stainless Steel Heat Exchanger
- Built-in 90 Micron Particulate Filter
- Power Light On/Off Switch
- Compressor Thermal Overload
- Corrosion Resistant Coalescing Separator with 2 stage Separation and Zero Loss Demand Drain
- Thermostatic Expansion Valve
- Refrigerant Suction Pressure Gauge

- · Air Inlet Temperature Gauge
- · Air Inlet Pressure Gauge
- Max Operating Pressure Rated at 250 psi
- Suction Line Accumulator
- R-22 Refrigerant
- Hot Gas Bypass System
- Air or Water Cooled Condensers
- Max. Operating Pressure Rated @ 250 psi
- · One Year Warranty

A-200

- Pressure Dew Point as low as 35°F
- Spiral Fin Tubing
- Built-in 40 Micron Particulate Filter
- Power Light On/Off Switch
- R-22 Refrigerant
- Mechanical Moisture Separator with Zero Air Loss Demand Drain
- Thermostatic Expansion Valve
- Hot Gas Bypass System
- · Suction Line Accumulator

- · Refrigerant Sight Glass
- · Refrigerant Filter-Dryer
- Air or Water Cooled Condensers
- Air Inlet Temperature Gauge
- Refrigerant Suction Pressure Gauge
- · Air Inlet Pressure Gauge
- One Year Warranty
- Max. Operating Pressure Rated @ 250 psi
- Five Year Heat Exchanger Warranty



A-250 & A-300

- Pressure Dew Point as low as 35°F
- · Spiral Fin Tubing
- Built-in 40 Micron Particulate Filter
- Power Light On/Off Switch
- R-22 Refrigerant
- Mechanical Moisture Separator with Zero Air Loss Demand Drain
- Thermostatic Expansion Valve
- Hot Gas Bypass System
- · Suction Line Accumulator
- Refrigerant Sight Glass

- · Refrigerant Filter-Dryer
- Air or Water Cooled Condensers
- Refrigerant Suction Pressure Gauge
- Air Inlet Temperature Gauge
- Air Inlet Pressure Gauge
 Digital Display Papel
- Digital Display Panel
- Low Refrigerant Pressure Safety Switch
- Max. Operating Pressure Rated @ 250 psi
- One Year Warranty
- Five Year Heat Exchanger Warranty



Models 3512 thru 3519

- "C" Series Cycling Dryers Available
- Produce 340 to 1600 SCFM of Air with a Pressure Dew Point as low as 35°F
- Spiral Fin Tubing
- Heavy-duty Automatic Drain Standard
- Mechanical Water Separator
- Refrigerant Filter Standard
- Digital Panel Display
- Quick Response Expansion Valve Standard
- Hot Gas Bypass Valve Standard
- Crankcase Heater Standard
- Automatic Pump-down System Standard on 3514 and up
- Suction Line Accumulator Standard
- Water Regulating Valve Standard on Water Cooled Units
- One Year Warranty
- Five Year Heat Exchanger Warranty

Models 3521 thru 3560W



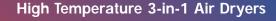
- "C" Series Cycling Dryers Available
- Produce 2,000 scfm to 5,000 scfm of Air with a 35°F Pressure Dew Point at 100 psig
- NEMA 12 Electrical Enclosure Standard (3523 and larger)
- Full Instrumentation to Monitor Performance
- Energy Savings up to 56% Available with Optional Cylinder Uploaders
- · Spiral Fin Tubing
- · Heavy-duty Automatic Drain
- Mechanical Water Separator

- · Refrigerant Filter
- Quick Response Expansion Valve
- · Hot Gas Bypass System
- · Suction Line Accumulator
- · Crankcase Heater
- Automatic Pump-down System
- Water Regulating Valve Standard on Water Cooled Units
- · Unsafe Condition Indicator Lights
- Five Year Heat Exchanger Warranty



Models 4041W thru 4046W

- Produce 5,000 scfm to 15,000 scfm of Air with a 39°F Pressure Dew Point at 100 psig
- 25 h.p. to 60 h.p. Motor, Carlyle Semi Hermetic Compressor
- High Efficiency Motor and Starter
- Fused Disconnect Switch Standard
- NEMA 12 Electrical Enclosure
- Full Instrumentation to Monitor Performance
- Power Factor Correction Equipment Available
- Full Safety Controls with Everload Protection for Compressor and Motor
- Unsafe Condition Shutdowns
- Energy Savings Up to 56% Available with Optional Cylinder Unloaders





- Flow Capacity Range 21- 400 SCFM
- 3-in-1 Design Eliminates the Need for an Aftercooler, Separator and Drain Trap Before the Air Dryer
- Pressure Dew Point as Low as 35°F
- Handles Inlet Air Temperature Up to 180°F
- All Copper Spiral Fin Tube-In-Tube Heat Exchanger Provides Maximum Efficiency for Heat Transfer and Moisture Separation
- Includes Monitoring Instrumentation, Separator and DrainTrap
- 6 ft. Electrical Cord with Grounded Plug on Models 3528 - 3531 with 115 volts
- Refrigeration Systems Utilize Environmentally Safe R-134A Refrigerant or R-22 Refrigerant
- Refrigerant Suction Pressure Gauge
- One Year Warranty
- Five Year Heat Exchanger Warranty

Note: 3528 - 3531 Max. Operating Pressure Rated@ 250 psi

Arrow Pneumatics refrigerant air dryers are energy efficient, with air-to-air and refrigerant-to-air heat exchangers to reduce energy consumption. Our "C" series cycling dryers are now available on 500 CFM and above units by using semi-hermetic compressors and head unloaders.





"C" SERIES CYCLING DRYER Arrow Model Numbers 3514C through 3560C

- · Significant Energy Savings
- Longer Compressor Life Because of Reduced Cycling Wear
- Semi-hermetic Compressors have a Three Times Longer Life than Hermetic Compressors
- •More BTU's/HR Capacity per KW with Semi-Hermetic Compressor
- No Dew Point Spikes which are Typical with Other Types of Cycling Dryers
- Superior Heat Exchanger Design with Spiral Fin Tube Construction

Semi-Hermetic Compressor Performance R-22 Refrigerant

						•				
Model	Flow Capacity SCFM	# of Cylinders	HP	In/Outlet Connections	Step Unloaders	Full Load KW	1st Step Unloader KW	Energy Savings	2nd Step Unloader KW	Energy Savings
3514-*C	500	4	3	3" NPT	1 Step	4.07	2.32	43%	N/A	
3514W-*C	500	4	3	3" NPT	1 Step	3.20	1.82	43%	N/A	
3515-*C	625	4	3	3" NPT	1 Step	4.07	2.32	43%	N/A	
3515W-*C	625	4	3	3" NPT	1 Step	3.20	1.82	43%	N/A	
3516-*C	750	4	5	3" NPT	1 Step	5.04	2.87	43%	N/A	
3516W-*C	750	4	5	3" NPT	1 Step	4.17	2.38	43%	N/A	
3517-*C	1000	4	5	4" FLG	1 Step	6.51	3.71	43%	N/A	
3517W-*C	1000	4	5	4" FLG	1 Step	5.25	2.99	43%	N/A	
3518-*C	1200	4	5	4" FLG	1 Step	7.13	4.06	43%	N/A	
3518W-*C	1200	4	5	4" FLG	1 Step	5.87	3.35	43%	N/A	
3519-*C	1600	6	6.5	6" FLG	2 Step	9.37	6.75	28%	4.12	56%
3519W-*C	1600	6	6.5	6" FLG	2 Step	8.11	5.84	28%	3.57	56%
3521-*C	2000	6	10	6" FLG	2 Step	14.56	10.48	28%	6.41	56%
3521W-*C	2000	6	10	6" FLG	2 Step	13.30	9.58	28%	5.85	56%
3548W-*C	2300	6	10	6" FLG	2 Step	13.30	9.58	28%	5.85	56%
3522-*C	2500	6	10	6" FLG	2 Step	14.81	10.48	28%	6.41	56%
3523-*C	3000	4	15	6" FLG	1 Step	18.06	10.29	43%	N/A	0%
3549W-*C	3000	6	10	6" FLG	2 Step	13.30	9.58	28%	5.85	56%
3524-*C	3750	4	15	6" FLG	1 Step	19.57	11.10	43%	N/A	0%
3550-*C	4000	6	25	6" FLG	2 Step	18.90	14.45	28%	10.00	56%
3550W-*C	4000	4	15	6" FLG	1 Step	16.55	9.43	43%	N/A	0%
3560-*C	5000	6	25	8" FLG	2 Step	27.02	20.93	28%	14.55	56%
3560W-*C	5000	4	20	8" FLG	1 Step	16.55	9.43	43%	N/A	0%

All capacities above are based on design conditions of $100^{\circ}F$ inlet, 100 PSIG and $100^{\circ}F$ ambient.

Voltage Codes

- -3 208/3/60 or 200-240/3/50
- -4 460/3/60 or 380/3/50
- -5 575/3/60

Model	Flo Capacity Dew Poi	at Listed	Air Line Conn. In & Out	Drain Connect.	Refrig. Comp. H.P.	Maxi He Reje BTU	eat ction	Cool Air Flow	Max. Water Flow GPM	Volt. Code	Std. Instrum. Panel	Optional Instrum.	Cond. Type	I	Dimensio (inches)		Wt. Lbs.	KW Input⁵
	35°F	50°F			Rating	Air Cooled	Water Cooled	CFM	85°F In, 95°F Out					Height	Width	Length		
F-05/10	10	12	3/8" OD	3/8" OD	1/6	1,050		125		1, 2	Α	16	Air	13.5	13	15	50	.20
F-10/20	20	25	1/2" FPT	3/8" OD	1/6	1,560		125		1, 2	В	16	Air	13.5	13	18	58	.26
F-30/40	40	50	1/2" FPT	3/8" OD	1/4	2,420		125		1, 2	В	16	Air	16	14	22	78	.40
F-50	50	62	1" FPT	3/8" OD	1/4	3,316		185		1, 2	В	16	Air	16	14	22	83	.48
F-70/100	100	124	1" FPT	3/8" OD	1/2	6,000		350		1,2	В	16	Air	27.5	20	30	163	.51
F-125	125	156	1" FPT	3/8" OD	3/4	9,325	8,770	800	1.5	1, 2	В	16	Air or Water	27.5	20	30	190	1.28
F-150	150	175	1 1/2" FPT	1/2" FPT	1	9,325	8,900	800	1.7	1, 2, 4	D	16	Air or Water	27.5	20	30	190	1.34
A-200	200	240	2" MPT	1/2" FPT	1	9,500	8,900	800	1.7	1, 2, 4	D	4, 5,12, 13, 16	Air or Water	42	29	38	435	1.34
A-250	250	290	2" MPT	1/2" FPT	1-3/4	19,170	17,600	1125	2.7	2, 3, 4	E	4, 5, 12, 13, 16	Air or Water	42	29	38	477	2.37
A-300	300	350	2" MPT	1/2" FPT	1-3/4	19,170	17,600	1125	3.5	2, 3, 4	E	4,5, 12, 13, 16	Air or Water	42	29	38	505	2.37
3512	340	420	3" NPT	1/2" NPT	1-3/4	22,930	21,915	2000	4.4	2, 3, 4	F	1-7, 9, 12, 13, 15-17	Air or Water	44.5	38	42	716	2.01
3513	400	489	3" NPT	1/2" NPT	2	30,470	28,940	2000	5.8	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	44.5	38	42	718	2.75
3514	500	600	3" NPT	1/2" NPT	3	43,625	41,720	2100	8.3	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	44.5	38	42	807	3.75
3515	625	750	3" NPT	3/4" NPT	3	43,625	41,720	2100	8.3	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	59	38	50	1136	3.75
3516	750	900	3" NPT	3/4" NPT	4	57,170	54,925	4200	11	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	59	38	50	1147	4.38
3517	1000	1250	4" FLG	3/4" NPT	5-1/2 ²	73,600	70,030	5000	14	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	72	38	50	1500	7.15
3518	1200	1500	4" FLG	3/4" NPT	5-1/2 ²	80,500	77,280	5000	14.6	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	72	38	50	1570	7.15
3519	1600	1920	6" FLG	3/4" NPT	7-1/2 ²	114,510	109,345	5600	21.9	3, 4, 5	F	1-7, 9, 12, 13, 15-17	Air or Water	87	38	50	2117	8.90
3521	2000	2400	6" FLG	3/4" NPT	10 ²	159,937	139,407	5600	27.5	3, 4, 5	G	1-7, 9-15	Air or Water	91	56	72	3024	11.40
3548W	2300	2750	6" FLG	3/4" NPT	12 ²		158,604		30.2	3, 4, 5	G	1-7, 10-14, 19	Water	98	57	80	3400	8.70
3522	2500	3000	6" FLG	3/4" NPT	12 ²	194,263	169,008	11600		3, 4, 5	Н	2-7, 10, 11, 13, 14,19	Air	98	57	98	4076	14.56
3523	3000	3600	6" FLG	3/4" NPT	15 ²	207,640		11600		3, 4, 5	Н	2-7, 10, 11, 13, 14,19	Air	98	57	98	4538	18.06
3549W	3000	3600	6" FLG	3/4" NPT	10 ²		191,600		38.3	3, 4, 5	Н	2-7, 10, 11, 13, 14,19	Water	98	57	98	3698	13.30
3524	3750	4500	6" FLG	3/4" NPT	15 ²	266,120		11600		3, 4, 5	Н	2-7, 10, 11, 13, 14,19	Air	98	57	98	5000	19.57
3550W	4000	5000	6" FLG	3/4" NPT	15 ²		255,240		51	3, 4, 5	Н	2-7, 10, 11, 13, 14,19	Water	106	57	80	5000	16.55
3560W	5000	5750	8" FLG	3/4" NPT	20 ²		281,250		63	3, 4, 5	Н	2-7, 10, 11, 13, 14,19	Water	109	57	80	5000	16.55
4041W	5000	5750	8" FLG	3/4" NPT	25 ²		313,000		68	3, 4, 5	J	2-5, 7,10,11, 13, 14, 19	Water	79	56	140	5000	24.70
4042W	6250	7200	8" FLG	3/4" NPT	25 ²		373,000		75	3, 4, 5	J	2-5, 7,10,11, 13, 14, 19	Water	82	56	141	6500	26.30
4043W	7500	8625	8" FLG	3/4" NPT	35 ²		468,000		94	3, 4, 5	J	2-5, 7,10,11, 13, 14, 19	Water	88	60	140	7700	37.00
4044W	10000	11500	10" FLG	3/4" NPT	40 ³		565,000		113	3, 4, 5	J	2-5, 7,10,11, 13, 14, 19	Water	103	65	150	10000	32.00
4045W	12500	14375	12" FLG	3/4" NPT	50 ³		713,000		143	3, 4, 5	J	2-5, 7,10,11, 13, 14, 19	Water	108	72	150	13000	42.00
4046W	15000	17250	12" FLG	3/4" NPT	60 ³		878,000		176	3, 4, 5	J	2-5, 7,10,11, 13, 14, 19	Water	120	75	160	15500	57.00

High Temperature 3-in-1 Dryers

Model	Flow Ca CFN 160°F Sa	l at	Air Line Connect.		Refrig. Comp. H.P.	Maximum Heat Rejection BTU/Hr. Air	Cool Air Flow	Volt.	Std.	Optional	Condense.	Di	imensio (inches)		Wt.	KW
	100 PSIG	140 PSIG	In & Out	Connect.	Rating	Cooled	CFM	Code	Panel	Instrum.	Type⁴	Height	Width	Length	Lbs.	Input⁵
3528	21	21.9	1" NPT	3/8" OD	1/4	3900	185	1, 2	В	16	Air	27.5	20	30	141	.40
3529	30	36.8	1" NPT	3/8" OD	1/2	6500	350	1, 2	В	16	Air	27.5	20	30	158	.51
3530	50	56	1" NPT	3/8" OD	3/4	9900	800	1, 2	В	16	Air	27.5	20	30	200	1.28
3531	70	81	1" NPT	3/8" OD	1	16140	1125	1, 2, 4	С	1, 16	Air	31.5	27.5	34	288	1.73
3532	105	130	2" NPT	1/2" NPT	1-3/4	25500	1125	2, 3, 4	С	1, 16	Air	42	29.5	40	508	2.01
3533	135	187	3" NPT	1/2" NPT	2	32900	2000	3, 4	K	1, 16	Air	49.5	38.5	44	698	2.75
3534	220	280	3" NPT	1/2" NPT	3	54000	2100	3, 4	K	1-5,7,8,10-14,16	Air	49.5	38.5	44	768	4.38
3535	300	365	3" NPT	3/4" NPT	4	65600	4200	3, 4	K	1-5, 7,8,10-14,16	Air	63.5	38.5	52	1113	5.75
3536	400	480	3" NPT	3/4" NPT	5-1/2	88000	5000	3, 4	K	1-5,7,8,10-14,16	Air or Water	63.5	38.5	52	1190	7.15

NOTES:

- 1. All capacities above are based on design conditions of 100°F inlet, 100 psig, and 100°F ambient except 3-in-1 dryers, which are based on 160°F inlet and 100°F ambient temperature.
- 2. Semi-hermetic compressor available on all "C" Series Cycling Dryers (Models 3514 thru 3522). Refer to X1022.
- 3. Single or Dual compressor offered or open drive.
- 4. Water regulating valve furnished with all water cooled units.
- 5. KW figures for water cooled models are 15% less than figures shown. Figures include total electric draw under maximum load, including fan motors, indicators, etc.
- Dryers rating 250 psi max. working pressure; std. drain trap rated for 250 psi max. up to A·300, 200 psi and larger sizes.
- On models F-70/100 and larger, an electronic drain (model 5702S) may be substituted for the std. float type drain for an additional charge.
 This must be noted on your P.O.

VOLTAGE CODE

 Standard
 Export

 1 · 115/1/60
 100/1/50

 2 · 208-230/1/60
 200-240/1/50

 3 · 208-230/3/60
 200-240/3/50

 4 · 460/3/60
 380/3/50

5 - 575/3/60

STANDARD INSTRUMENT PANEL											
	Α	В	С	D	Ε	F	G	Н	I	J	K
On/Off Switch		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\vee	\checkmark	\checkmark	\checkmark
Power On Light	\vee	\checkmark	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark	\checkmark	
Compressor On Light						\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Air Inlet Temp. Gauge			\checkmark	\checkmark			\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Air Inlet Pressure Gauge				\checkmark							
Air Outlet Pressure Gauge			\vee				\checkmark	\gt	\checkmark	\checkmark	\checkmark
High Temperature Light	\lor										
Air Dew Point Temp. Gauge									\checkmark	\checkmark	
Digital Temp. Display*					\checkmark	\checkmark					
Differential Pressure Gauge					\vee	\checkmark					
Refrigerant Suction Pressure Gauge		V	V	V	V	/	\	>	V	/	V
Refrigerant Discharge Pressure Gauge						>	\	>	√	\	
Refrigerant Temp. Gauge							\checkmark	>	\checkmark	\checkmark	\vee
Hi/Low Refrigerant Pressure Light								>	√	/	
Low Oil Pressure Light									\checkmark	\checkmark	
Cooling Water Temp. Gauges (In & Out)									√	\	
Evaporator Pressure Gauge										\checkmark	
NEMA 12 Enclosure								\checkmark	\lor	\checkmark	

^{*} Digital panel displays ambient air temp., compressor suction temp., compressor discharge temp., and inlet air temp.

Notes

- 1) Second gauge on models 4042W and 4043W is an evaporator pressure gauge when an evaporator pressure valve is used.
- 2) Electric Power Cords 6 ft. electrical cord with grounded plug is standard on all F-10/20 thru F-70/100 115V units.

Air Flow Ratings of ARROW Dryers

Air dryer rated flows are based upon design conditions of 100°F inlet, 100 psig, 100°F ambient. If these conditions vary, the rated flows will vary in accordance with the following general rules and tables.

1) As Inlet Air Temperature increases, Flow Capacity will decrease:

Inlet Air Temperature	90°F	95°F	100°F	110°F	120°F
Flow Capacity Multiplier:	1.23	1.13	1.00	0.83	0.69

2) As Air Line Pressure increases, Flow Capacity will increase:

Air Line Pressure:	60 psig	80psig	100 psig	120 psig	150 psig
Flow Capacity Multiplier:	.88	.95	1.00	1.04	1.08

3) As Ambient Air Temperature increases, Flow Capacity will decrease:

Ambient Air Temperature	80°F	90°F	100°F	110°F
Flow Capacity Multiplier:	1.14	1.07	1.00	.92

4) As the **Dew Point** increases, **Flow Capacity** will increase: If design conditions (100°F, 100 psig, 100°F ambient) remain the same, but a higher dew point is acceptable, the Flow Capacity will increase approximately in accordance with the following multipliers:

Dew Point	39°F	45°F	50°F
Flow Capacity Multiplier:	1.05	1.15	1.20

These figures are simply general rules, multipliers, and formulas to help you select a dryer; however, they do not apply to 3-in-1 dryers.

OPTIONAL INSTRUMENTATION AND FEATURES

- 1) Power On Light
- 2) High Inlet Air Temperature Light
- 3) High Refrigerant Discharge Pressure Light
- 4) Low Ambient Fan Cut-Out Switch
- 5) Dead System Shutdown Light
- 6) Condensate Drain Alarm
- 7) Air Outlet Temperature Gauge
- 8) Refrigerant Discharge Pressure Gauge
- 9) Cooling Water Temperature In/Out
- 10) Air Dew Point Temperature
- 11) Air Flow Gauge
- 12) NEMA 12 or NEMA 13 Enclosures
- 13) Waterproof Enclosure with NEMA 4 Wiring
- 14) Fused Disconnect Switch
- 15) High Pressure Package
- 16) Electric Drain
- 17) Air Outlet Pressure
- 18) Refrigerant Temperature
- 19) Capacity Pressure Unloaders

MOISTURE REMOVAL DATA											
TEMP. AT	SYSTEM	LBS. CONDENSED	LBS.PER	GALLONS							
RECEIVER TANK	TEMP.	PER 100 CFM	8 HR. SHIFT	PER 8 HR. SHIFT							
120	70	.05613	26.94	3.23							
100	70	.02455	11.78	1.41							
90	70	.01399	6.718	.81							
80	70	.005965	2.863	.34							
120	50	.06386	30.65	3.67							
100	50	.03227	15.49	1.86							
90	50	.02172	10.43	1.25							
80	50	.01369	6.571	.79							
120	35	.06714	32.23	3.86							
100	35	.03556	17.07	2.05							
90	90 35		12.00	1.44							
80	35	.01698	8.149	.98							

NOTE: 8.3453 LBS. PER GALLON

INSTRUMENTATION



3 Gauge Instrument Panel Includes:* Refrigerant Suction Pressure Gauge, Air Inlet Pressure Gauge, Air Inlet Temperature Gauge and Power Indicator Light.

*Standard on models F-150 & A-200

Optional Instrumentation: Low Ambient Cut Out and Dead System Shutdown Light. (A-200 Only)



3 Gauge Instrument Panel with Digital Display Includes:*

Refrigerant Suction Pressure Gauge, Inlet Air Pressure Gauge, Efficiency Pressure Gauge and Power On/Off Switch. Digital Temperature Display Provides: Ambient, Compressor Suction, Compressor Discharge and Inlet Air Temperatures

*Standard on models A250 & A-300

Optional Instrumentation: Low Ambient Cut Out and Dead System Shutdown Light



4 Gauge Instrument Panel with Digital Display Includes:*

Refrigerant Discharge Pressure Gauge, Refrigerant Suction Pressure Gauge, Inlet Air Pressure Gauge, Efficiency Pressure Gauge and Power On/Off Switch. Digital Temperature Display Provides: Ambient, Compressor Suction, Compressor Discharge and Inlet Air Temperatures

Optional Temperature Readouts Include: Air Outlet Temperature, Refrigerant Temperature and Cooling Water In/Out

Optional Gauges Include: Air Outlet Pressure Gauge

*Standard on models 3512 through 3519



Instrumentation Panel for High Capacity Dryers

Includes*: Refrigerant Suction Pressure Gauge, Air Inlet Pressure Gauge, Air Outlet Pressure Gauge, Air Inlet Temperature Gauge, Refrigerant Temperature, and Refrigerant Discharge Pressure Gauge. *Standard on models 3548W through 4046W

Optional Instrumentation: Air Outlet Temperature, Air Dew Point Temperature, Air Flow Gauge, Cooling Water Temperature In/Out, High Inlet Air Temperature Light, High Discharge Pressure Light, Low Oil Pressure Light, Low Ambient Cut Out, Dead System Shutdown Light and Condensate Drain Alarm

WARRANTY

Arrow refrigerated type compressed air dryers are warranted to be free from defects in material and workmanship, when used under conditions recommended by the manufacturer, for a period of twelve (12) months from the date of start-up not to exceed eighteen (18) months from date shipped from factory. Products purchased from warehouse stock are warranted for a period of twelve (12) months from date of shipment from that warehouse provided Arrow is furnished full name, address and date of shipment information.

The patented modular heat exchanger used on models <u>A-200 through 3560</u> is warranted for five (5) years. This warranty is limited to the replacement of the heat exchanger, F.O.B. factory, and is subject to the same restrictions as outlined below concerning misuse, abuse or accident.

This warranty applies to equipment installed, operated and maintained in accordance with the procedures and recommendations as outlined in the owner's manual published by Arrow Pneumatics.

The electric drain trap is warranted to be free from mechanical defects for a period of ninety (90) days.

Air cooled aftercoolers, watercooled aftercoolers and moisture separators are warranted to be free from defects in material and workmanship, when used under conditions recommended by the manufacturer, for a period of twelve (12) months from the date of shipment from the factory or regional warehouse.

During the period of this warranty, Arrow Pneumatics will repair or replace (at Arrow's option), free of charge, F.O.B. its plant, any defective part or assembly, if such defect occurred in normal service and was not due to apparent misuse, abuse or accident.

Before any warranty service work is started, it must first be authorized by Arrow Pneumatics. Please contact our Warranty Department at (847) 540-2133. Unauthorized service voids the warranty and any resulting charges will not be reimbursed by Arrow Pneumatics.

The foregoing warranty is exclusive and in lieu of all other warranties, written, oral or implied, and the company makes no warranty of merchantibility or fitness for any particular purpose or use. In no event shall the company be liable for special, incidental or consequential damages or losses arising out of or caused by products which may prove to be defective, including, but not limited to loss of revenues and loss of profits.



ARROW PNEUMATICS















Your Local Distributor





ARROW PNEUMATICS

REGENERATIVE DRYERS



FILTERS

REGULATORS

LUBRICATORS

ACCESSORIES

H E A T L E S S REGENERATIVE DRYERS

Twin tower regenerative air dryers are the dryers of choice when traditional refrigerated dryers do not provide sufficient air quality required for today's applications. Arrow's reliable "RH" series of heatless twin tower regenerative dryers normally produce –40°F and can optionally be as low as –100°F dew points. The dryer utilizes activated alumina for efficient drying of compressed air and will operate under extreme environmental conditions. Activated alumina is aluminum oxide that is highly porous and exhibits tremendous surface area (350 sq. meters/gram). Activated alumina is resistant to thermal shock and abrasion. It has a smooth, uniform ball size that prevents channeling of the air flow, which maintains low bed velocities. This maintains air contact time for efficient moisture removal and minimal pressure drop.

Arrow's microprocessor dryer controls are housed in a NEMA 4 rated enclosure and provide control of pneumatically piloted valves chosen for long life and high air flow.

Operation

Compressed air saturated with water vapor passes through the inlet valve and flows upward through the desiccant in tower "A". Tower "A" is said to be "on line". The activated alumina desiccant adsorbs the water vapor in the compressed air and the pressure dew point is lowered to a minimum of -40° F. The dried air then passes through a check valve assembly to the outlet piping and then to the factory tools or equipment.

While the air is being dried in tower "A", the desiccant in tower "B" that adsorbed moisture in the previous cycle is simultaneously regenerated. Tower "B" is "off line". At the start of the regeneration cycle, tower "B" is depressurized from the operating pressure to atmospheric pressure with a downward air flow and passes through the purge valve and out the purge muffler. Regeneration continues with a portion of the dry air from tower "A" passing through an orifice assembly and downward through tower "B" out to atmosphere.

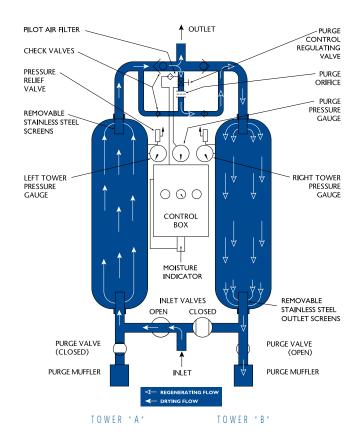
This process takes about ten minutes to complete, with the drying cycle using about five minutes to provide the desired dew point. The regeneration cycle takes approximately 30 seconds less to allow for repressurization before switchover. The complete operation therefore consists of two cycles, one for drying and the other for regeneration. Required purge air is generally 15% of rated flow. As pressure is a direct function of purge air, the higher the pressure, the lower the purge. All Arrow Pneumatics heatless regenerative dryers have a 2 psi maximum pressure drop at standard conditions.



Model No.	Capacity SCFM	Pipe Size Connection	Height Inches	Width Inches	Depth Inches	Weight Lbs.
RH203	35	3/4" NPT	40	44	24	360
RH204	50	3/4" NPT	40	44	24	508
RH205	75	3/4" NPT	40	44	24	599
RH206	100	1" NPT	64	44	24	627
RH207	125	1" NPT	64	44	24	657
RH208	150	1-1/2" NPT	75	49	36	739
RH209	200	1-1/2" NPT	75	49	36	797
RH210	250	1-1/2" NPT	75	49	36	855
RH211	300	2" NPT	68	51	36	918
RH212	350	2" NPT	68	51	36	1,124
RH213	400	2" NPT	86	51	36	1,187
RH214	500	2" NPT	86	51	36	1,245
RH215	650	2-1/2" NPT	97	67	36	1,905
RH216	750	2-1/2" NPT	97	67	36	2,022
RH217	900	2-1/2" NPT	97	67	36	2,197
RH218	1,100	3" FLG	97	72	36	2,500
RH219	1,300	3" FLG	97	72	36	3,350
RH220	1,500	3" FLG	122	96	60	3,775
RH221	1,800	3" FLG	122	96	60	4,550
RH222	2,100	3" FLG	122	96	60	5,725
RH223	2,500	4" FLG	122	108	60	6,500
RH224	3,000	4" FLG	122	108	60	8,500

- 1) Specifications and dimensions are subject to change without notice.
- 2) Standard design conditions are 100°F inlet, 100 psig and 100°F ambient. For other than standard design conditions or capacities up to 12,000 scfm, consult your factory representative.
- 3) Standard operating pressure is 150 psig maximum.
- 4) Standard voltage is 120V/1ph/60Hz
- 5) Pre and after filters must be used with all regenerative air dryers.
- 6) Maximum pressure drop of 2 psi

BESERVE



OPTIONS OF HEATLESS REGENERATIVE DRYERS

Dew Point Demand Plus

Dew Point Demand

High Humidity Alarm

-100°F Pressure Dew Point

Remote Alarm Contacts

Remote Alarm Dry Contacts

NEMA 7 Explosion Proof Electrical Construction

Low Ambient Package

220V/1ph/60Hz

Pre-Piped Connection with Pre and after Filters

Pre-Piped Filter Package with Three Valve Dryer Bypass

Pre-Piped Filter Package with Seven Valve Dryer Bypass

RS-232 Serial Communications Interface

Total Pneumatic Controls

Standard Features of Heatless Regenerative Dryers

Fully automatic to provide the most efficient operation.

Panel mounted gauges provide accurate monitoring of tower pressures.

Adjustable purge regulator is utilized to control purge air for optimum dryer efficiency.

Indicator lights display tower operating status.

Visual moisture indicator detects increase in dew point on outlet air flow.

Reliable pneumatic valve operation is achieved by using poppet, butterfly and check valves. All valves are non-lubricated to provide maximum dependability and maintenance free operation.

Controlled repressurization gradually increases pressure in the tower to eliminate line surges and desiccant attrition.

Removable stainless steel diffuser screens disperse air flow for maximum desiccant capacity and to allow uniform air distribution throughout the desiccant bed.

NEMA 4 electrical construction.

Universally accepted 120V/1ph/60Hz power requirements for easy connection.

Power on indicator to show dryer is energized and functioning.

Tower relief valves to prevent overpressurization.

ASME coded and stamped vessels.

Separate fill and drain ports for easy desiccant change.

Microprocessor controls provide reliable sequencing of dryer functions.

Control air line filter with replaceable element to protect pneumatic circuitry.

Exhaust purge muffler for quiet operation.

Pressure alarm package indicates failure to shift, failure to depressurize, failure to repressurize and failure to purge.

See pages 8 and 9 for descriptions of optional features.

EXTERNATIVE DRYERS

The Arrow Pneumatics externally heated twin tower regenerative dryers combine the high reliability of our "RH" series desiccant dryer and adds external heaters to form the "RE" series dryer. Dew points, normally –40°F, can optionally be as low as –100°F. Purge air is approximately 7% of rated flow, thus reducing the operating costs of the heated twin tower regenerative dryers compared to heatless regenerative dryers. Purge air in the "RE" series is heated by a 100% efficient incoloy sheath electric heater housed in an externally mounted shell. A thermostat controls the temperature of the heater allowing long life and energy savings. The heater and purge piping are insulated for safety and further energy savings. Arrow "RE" series heated dryers have microprocessor controls housed in a NEMA 4 rated enclosure. Pneumatically actuated valves have been chosen for long life and high air flow.

Operation

Regeneration of the "RE" series dryers is similar to the twin tower regenerative dryers in that the airflow is reversed between operation and regeneration. Compressed air saturated with water vapor passes through the inlet valve and flows downward through the desiccant in tower "A". Tower "A" is said to be "on-line". The activated alumina desiccant adsorbs water vapor in the compressed air and the pressure dew point is lowered to a minimum of -40°F. The dried air then passes through the outlet valve to the factory tools and/or equipment.

While the air is being dried in tower "A", the desiccant in tower "B" that absorbed moisture in the previous cycle is simultaneously regenerated. Tower "B" is "off line". At the start of the regeneration cycle, tower "B" is depressurized from the operating pressure to atmospheric pressure with an upward air flow which passes through the purge valve and out the purge muffler. Regeneration continues with dried purge air from tower "A" that is expanded to atmospheric pressure to lower its vapor pressure. This purge air is heated and passes through an orifice assembly and upward through tower "B" out to atmosphere. The temperature of the heater can be adjusted for better efficiencies. The combination of heated and lowered vapor pressure air allows for efficient and cost effective desiccant regeneration.

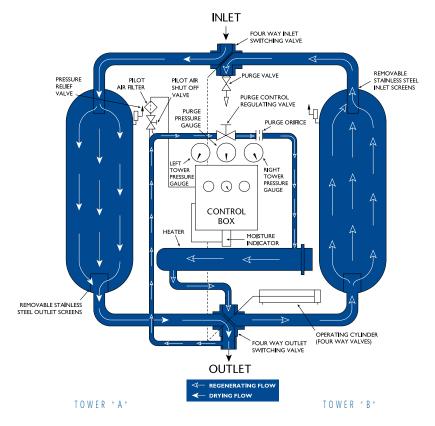
The entire process therefore consists of two cycles, one for drying and the other for regeneration. This process takes 8 hours to complete, with the drying cycle using 4 hours to provide the desired dew point, and regeneration cycle taking 4 hours; 3 hours for heating and 1 hour for cooling. As pressure is a direct function of purge air, the higher the pressure, the lower the purge. All Arrow Pneumatics externally heated regenerative dryers have a 2 psi maximum pressure drop at standard conditions.



Model No.	Capacity SCFM	Heater Power (KW)	Pipe Size Connection	Height Inches	Width Inches	Depth Inches	Weight Lbs.
RE231	50	.75	3/4" NPT	40	44	24	440
RE232	75	1.25	3/4" NPT	40	44	24	600
RE233	100	1.50	1" NPT	64	44	24	760
RE234	150	2.00	1-1/2" NPT	75	49	36	930
RE235	200	2.50	1-1/2" NPT	75	49	36	1,050
RE236	250	3.00	1-1/2" NPT	75	49	36	1,330
RE237	300	4.00	2" NPT	68	51	36	1,525
RE238	350	4.00	2" NPT	68	51	36	1,700
RE239	400	5.00	2" NPT	86	51	36	1,940
RE240	500	6.00	2" NPT	86	51	36	2,275
RE241	650	6.50	2-1/2" NPT	97	67	36	2,650
RE242	750	7.50	2-1/2" NPT	97	67	36	3,170
RE243	900	9.00	2-1/2" NPT	97	67	36	3,750
RE244	1,100	12.00	3" FLG	97	72	36	4,175
RE245	1,300	12.00	3" FLG	97	72	36	4,580
RE246	1,500	15.00	3" FLG	122	96	60	5,020
RE247	1,800	20.00	3" FLG	122	96	60	5,410
RE248	2,100	20.00	3" FLG	122	96	60	6,040
RE249	2,500	24.00	4" FLG	122	108	60	8,720
RE250	3,000	30.00	4" FLG	122	108	60	9,880

- 1) Specifications and dimensions are subject to change without notice.
- 2) Standard design conditions are 100°F inlet, 100 psig and 100°F ambient. For other than standard design conditions or capacities up to 12,000 scfm, consult your factory representative.
- 3) Standard operating pressure is 150 psig maximum.
- **4) Standard voltage** for RE231 thru RE233 is 120V/1ph/60Hz. RE234 thru RE250 is 480V/3ph/60Hz.
- 5) Pre and after filters must be used with all regenerative air dryers.
- 6) Maximum pressure drop of 2 psi

BREERSTIVE



OPTIONS OF EXTERNALLY HEATED REGENERATIVE DRYERS

Dew Point Demand Plus

Dew Point Demand

High Humidity Alarm

-100°F Pressure Dew Point

Remote Alarm Contacts

Remote Alarm Dry Contacts

NEMA 7 Explosion Proof Electrical Construction

Low Ambient Package

220V/1ph/60Hz

Pre-Piped Connection with Pre and after Filters

Pre-Piped Filter Package with Three Valve Dryer Bypass

Pre-Piped Filter Package with Seven Valve Dryer Bypass

Power Saver Thermal Control

Heater Overtemp Alarm

RS-232 Serial Communications Interface

See pages 8 and 9 for descriptions of optional features.

Standard Features of Externally Heated Regenerative Dryers

Externally mounted heater allows easy element service and efficiently conducts heat uniformly throughout the desiccant eliminating localized hot spots, desiccant fusing and heater burnouts. Heater elements are incoloy sheathed for long, trouble free service.

Heater thermostat controls and maintains user adjusted regeneration temperature to account for changing flow or seasonal moisture variations.

Interlock circuit protects units from heater burnout due to loss of purge air flow.

Non-lubricated control valves are pneumatically actuated to provide maximum dependability and maintenance free operation.

Fully automatic to provide the most efficient operation.

Panel mounted gauges provide accurate monitoring of tower pressures and temperatures.

Adjustable purge regulator is utilized to control purge air for optimum dryer efficiency.

Indicator lights display tower operating status.

Visual moisture indicator detects increase in dew point on outlet air flow.

Controlled repressurization gradually increases pressure in the tower to eliminate line surges and desiccant attrition.

Removable stainless steel diffuser screens disperse air flow for maximum desiccant capacity and to allow uniform air distribution throughout the desiccant bed.

NEMA 4 electrical construction.

Power on indicator to show dryer is energized and functioning.

Tower relief valves to prevent overpressurization.

ASME coded and stamped vessels.

Separate fill and drain ports for easy desiccant change.

Microprocessor controls provide reliable sequencing of dryer functions.

Control air line filter with replaceable element to protect pneumatic circuitry.

Exhaust purge muffler for quiet operation.

Pressure alarm package indicates failure to shift, failure to depressurize, failure to repressurize and failure to purge.

B L O W E R PURGE REGENERATIVE DRYERS

Arrow Pneumatics "BP" series blower purge regenerative dryers are more economical to operate than heated or heatless regenerative dryers. An external blower supplies heated atmospheric air as the purge air source for regeneration. This allows total air compressor capacity for plant operations. Eliminating the use of compressed air as purge allows the plant to more economically size the compressor only for plant operations. The blower purge offers the same easy maintenance features found in our heated regenerative dryer. The blower is designed for industrial applications and has an intake filter that protects the blower and dryer from damaging air born particles.

Operation

Our "BP" series blower purge dryers are fully automatic meaning purge air from compressor is not needed. Regeneration is similar to that of the "RE" series dryers in that the drying air flow is downward and is reversed between operation and regeneration. Compressed air saturated with water vapor passes through the inlet valve and flows downward through Tower "A". Tower "A" is said to be "on-line." The activated alumina desiccant adsorbs water vapor in the compressed air and the pressure dew point is lowered to a minimum of -40°F. The dried air then passes through the outlet valve to the factory tools or equipment.

While the air is being dried in tower "A", the desiccant in tower "B" that absorbed moisture in the previous cycle is simultaneously regenerated. Tower "B" is "off line". At the start of the regeneration cycle, tower "B" is depressurized from the operating pressure to atmospheric pressure with an upward air flow which passes through the purge valve and out the purge muffler. Regeneration continues with purge air being generated by an external blower. This purge air is heated and passes upward through tower "B" out to atmosphere. The temperature of the heater can be adjusted for better efficiencies. The combination of heated and lowered vapor pressure air allows for efficient and cost effective desiccant regeneration.

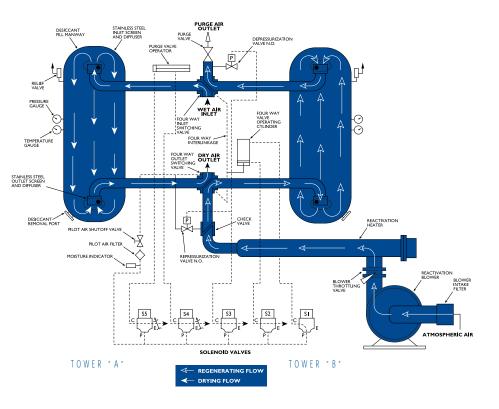
The entire process therefore consists of two cycles, one for drying and the other for regeneration. This process takes 8 hours to complete, with the drying cycle using 4 hours to provide the desired dew point, and regeneration cycle taking 4 hours; 3 hours for heating and 1 hour for cooling.



	Model No.	Capacity SCFM	Heater KW	Blower KW	Pipe Size Connection	Height Inches	Weight Lbs.
	BP123	200	6.00	0.75	1-1/2" NPT	74	1,375
	BP144	350	9.00	1.12	2" NPT	88	2,260
	BP183	600	15.00	1.50	2-1/2" NPT	80	2,900
	BP204	800	20.00	2.24	3" FLG	92	4,150
	BP244	1,100	36.00	3.73	3" FLG	98	5,600
	BP304	1,500	40.00	7.46	4" FLG	94	7,425
	BP325	2,100	50.00	7.46	4" FLG	101	8,675
	BP366	3,000	75.00	11.19	6" FLG	106	11,200
	BP425	4,000	105.00	11.19	6" FLG	109	15,500
	BP485	5,000	140.00	14.92	6" FLG	111	17,700
	BP545	6,500	175.00	22.38	6" FLG	117	20,900
	BP605	8,000	230.00	37.30	8" FLG	126	26,400
	BP665	10,000	280.00	55.95	8" FLG	130	31,600
_	BP725	12,000	340.00	74.60	10" FLG	134	37,800

- 1) **Specifications and dimensions** are subject to change without notice.
- 2) Standard design conditions are 100°F inlet, 100 psig and 100°F ambient. For other than standard design conditions or capacities up to 12,000 scfm, consult your factory representative.
- 3) Standard operating pressure is 150 psig maximum.
- 4) Standard Voltage 480V/3ph/60Hz
- **5) Pre and after filters** must be used with all regenerative air dryers.

BEFER



OPTIONS OF BLOWER PURGE REGENERATIVE DRYERS

Dew Point Demand Plus

Dew Point Demand

Remote Alarm Contacts

Remote Alarm Dry Contacts

NEMA 7 Explosion Proof Electrical Construction

Low Ambient Package

Power Saver Thermal Control

Pre-Piped Connection with Pre and after Filters

Pre-Piped Filter Package with Three Valve Dryer Bypass

Pre-Piped Filter Package with Seven Valve Dryer Bypass

Heater Overtemp Alarm

Blower Purge Cool Down Loop

RS-232 Serial Communications

Interface

High Humidity Alarm

See pages 8 and 9 for descriptions of optional features.

Standard Features of Blower Purge Regenerative Dryers

Externally mounted heater allows easy element service and efficiently conducts heat uniformly throughout the desiccant eliminating localized hot spots, desiccant fusing and heater burnouts. Heater elements are incoloy sheathed for long, trouble free service.

Heater thermostat controls and maintains user adjusted regeneration temperature to account for changing flow or seasonal moisture variations.

Interlock circuit protects units from heater burnout due to loss of purge air flow.

Non-lubricated control valves are pneumatically actuated to provide maximum dependability and maintenance free operation.

Fully automatic to provide the most efficient operation.

Panel mounted gauges provide accurate monitoring of tower pressures and temperatures.

Indicator lights display tower operating status.

Visual moisture indicator detects increase in dew point on outlet air flow.

Controlled repressurization gradually increases pressure in the tower to eliminate line surges and desiccant attrition.

Removable stainless steel diffuser screens disperse air flow for maximum desiccant capacity and to allow uniform air distribution throughout the desiccant bed as applicable.

NEMA 4 electrical construction.

Power on indicator to show dryer is energized and functioning.

Tower relief valves to prevent overpressurization.

ASME coded and stamped vessels.

Separate fill and drain ports for easy desiccant change.

Microprocessor controls provide reliable sequencing of dryer functions.

Control air line filter with replaceable element to protect pneumatic circuitry.

Exhaust purge muffler for quiet operation.

Heavy-duty blower designed for long life with intake filter to protect the blower and dryer from damaging particles.

Butterfly throttle valve controls amount of purge air.

Pressure alarm package indicates failure to shift, failure to depressurize, failure to repressurize and failure to purge.

OPTIONAL FEATURES

Dew Point Demand Plus

(PICTURED) Dew Point Demand Plus is an energy saving system that allows the user to program a controller for the desired dew point. This system regenerates the "off-line" vessel completely and allows that vessel to remain idle, while the "on-line" vessel dries service air. Outlet air flow is continuously sampled and once the desired dew point is reached a "tank switch-over" occurs and a new cycle begins. This option saves a significant amount of "purge air" each year thereby providing energy saving. This option includes a programmable digital display, an extremely accurate sensor and a high humidity alarm.

Dew Point Demand

(PICTURED) Dew Point Demand is a cost effective alternative to Dew Point Demand Plus. This system operates similar to the Dew Point Demand Plus but does not have the digital display, high humidity alarm or an adjustable dew point "tank switchover". The "tank switchover" occurs at a fixed -40°F dew point.

High Humidity Alarm

This option continuously monitors the outlet air stream for dew point performance. If a high humidity condition should occur, a panel mounted visual alarm is energized.

RS-232 Serial Communications Interface

Allows serial port connections for computer monitoring of dryer functions and operating statuses.

Heater Overtemp Alarm

Should a heater overtemperature condition exist, the integrated overtemperature sensor automatically shuts down the heater until it cools down to an acceptable temperature range. The sensor then resets itself and heater operation will begin again. A panel mounted visual alarm is energized during the overtemperature condition.

Remote Alarm Contacts

Contacts will be supplied for each alarm allowing an easy connection method for energizing remote visual or audible alarms. A 120-volt signal is sent when a failure occurs.

Remote Alarm Dry Contacts

This option closes a contact in the event of a failure condition allowing the customer supplied alarm circuit to be activated. Maximum voltage and current are 120 volt, 3 amperes.

-100°F Pressure Dew Point

This option lowers the dew point from the standard –40°F to –100°F On heatless dryers, the cycling time is adjusted accordingly and a repressurizing system is added. On the heated dryers, a split bed of activated alumina and molecular sieve is added.

Low Ambient Package

Low ambient temperature protection is accomplished by encasing both towers with a rugged insulation. This insulation along with heat trace cables eliminates "freeze-ups" from low ambient conditions such as cold outdoor or unheated indoor installations.

DEW POINT DEMAND PLUS



DEW POINT DEMAND



OPTIONALIVE DRYERS

Power Saver Thermal Control

This option monitors the temperature of the purge air flow from the regenerating tower. When the set regeneration temperature is reached, the heater shuts off. Power Saver minimizes the electrical energy used during regeneration when you have low dryer moisture loading. This also prevents dew point spikes and excessive temperature spikes at tower switchover.

Blower Purge Cool Down Loop

This option uses dry air from the "on-line" tower to cool and "polish" the desiccant in the regenerating tower. This feature ensures –40°F dew points are maintained during tank switchover.

NEMA 7 Electrical Construction

(PICTURED) For applications where an explosion proof enclosure and electrical construction are required. NEMA 7 enclosures are capable of withstanding and containing internal explosions so that an explosive atmosphere surrounding the enclosure will not be ignited. Enclosed heat generating devices shall not cause external surfaces to reach temperatures capable of igniting explosive surrounding atmospheres.

Total Pneumatic Controls

For applications where electricity is unavailable or undesired, such as remote field applications or duty in explosive environments. This option uses an air driven timer and control valves in place of electronic components.

Pre-piped Connection With Pre and After Filters

Prefilter and afterfilter mounted to dryer with integral piping ready to install in system. See following page for filters included.

3-Valve Bypass w/Pre-piped Connection

Prefilter and afterfilter mounted to dryer with integral piping and 3 bypass valves for bypassing filters and dryer.

Ready to install in system. See following page for filters included.

7-Valve Bypass w/Pre-piped Connection

Prefilter and afterfilter mounted to dryer with integral piping and 7 bypass valves for individually bypassing either filter and/or dryer. Ready to install in system. See following page for filters included.

NEMA 7 ENCLOSURE





HEATLESS REGENERATIVE DRYER RECOMMENDED FILTERS

Dryer Model	Dryer In/Out Pipe Size	Dryer SCFM	Prefilter Model	Afterfilter Model
RH203	3/4" NPT	35	F505-06DF	F329-06-3
RH204	3/4" NPT	50	F505-06DF	F329-06-3
RH205	3/4" NPT	75	F505-06DF	F329-06-3
RH206	1" NPT	100	F508-08DF	F329-08-3
RH207	1" NPT	125	F508-08DF	F329-08-3
RH208	1-1/2" NPT	150	F510-12DT	F329-12-3
RH209	1-1/2" NPT	200	F510-12DT	F329-12-3
RH210	1-1/2" NPT	250	F510-12DT	F329-12-3
RH211	2" NPT	300	F510-16DT	F3N1-16-3
RH212	2" NPT	350	F510-16DT	F3N1-16-3
RH213	2" NPT	400	F518-16DT	F3N1-16-3
RH214	2" NPT	500	F518-16DT	F3N1-16-3
RH215	2-1/2" NPT	650	F519-24DT	F3NHF-24-3
RH216	2-1/2" NPT	750	F529-24DT	F3NHF-24-3
RH217	2-1/2" NPT	900	F529-24DT	F3NHF-24-3
RH218	3" FLG	1100	F5AX2M-24DF	F3AX2M-24-3
RH219	3" FLG	1300	F5AX2M-24DF	F3AX2M-24-3
RH220	3" FLG	1500	F5AX2L-24DF	F3AX2M-24-3
RH221	3" FLG	1800	F5AX2L-24DF	F3AX2M-24-3
RH222	3" FLG	2100	F5AX3L-32DF	F3AX2M-32-3
RH223	4" FLG	2500	F5AX4L-48DF	F3AX3L-48-3
RH224	4" FLG	3000	F5AX4L-48DF	F3AX3L-48-3

EXTERNALLY HEATED REGENERATIVE DRYER RECOMMENDED FILTERS

Dryer	Dryer In/Out	Dryer	Prefilter	Afterfilter
Model	Pipe Size	SCFM	Model	Model
RE231	3/4" NPT	50	F505-06DF	F329-06-3
RE232	3/4" NPT	75	F505-06DF	F329-06-3
RE233	1" NPT	100	F508-08DF	F329-08-3
RE234	1-1/2" NPT	150	F510-12DT	F329-12-3
RE235	1-1/2" NPT	200	F510-12DT	F329-12-3
RE236	1-1/2" NPT	250	F510-12DT	F329-12-3
RE237	2" NPT	300	F510-16DT	F3N1-16-3
RE238	2" NPT	350	F510-16DT	F3N1-16-3
RE239	2" NPT	400	F518-16DT	F3N1-16-3
RE240	2" NPT	500	F518-16DT	F3N1-16-3
RE241	2-1/2" NPT	650	F519-24DT	F3NHF-24-3
RE242	2-1/2" NPT	750	F529-24DT	F3NHF-24-3
RE243	2-1/2" NPT	900	F529-24DT	F3NHF-24-3
RE244	3″ FLG	1100	F5AX2M-24DF	F3AX2M-24-3
RE245	3" FLG	1300	F5AX2M-24DF	F3AX2M-24-3
RE246	3" FLG	1500	F5AX2L-24DF	F3AX2M-24-3
RE247	3″ FLG	1800	F5AX2L-24DF	F3AX2M-24-3
RE248	3″ FLG	2100	F5AX3L-32DF	F3AX2M-24-3
RE249	4" FLG	2500	F5AX4L-48DF	F3AX3L-48-3
RE250	4" FLG	3000	F5AX4L-48DF	F3AX3L-48-3

Note: For Blower Purge Regenerative Models BP123 thru BP725, consult factory for recommended pre and afterfilters.

BEFERATIVE

Model	Description
RH	Heatless Regenerative Dryer
RE	Externally Heated Regenerative Dryer
BP	Blower Purge Regenerative Dryer

Dryer Size

		Di yei 3ize				
RH	SCFM	RE	SCFM	BP	SCFM	
203	35	231	50	123	200	
204	50	232	75	144	350	
205	75	233	100	185	600	
206	100	234	150	205	800	
207	125	235	200	245	1100	
208	150	236	250	305	1500	
209	200	237	300	325	2100	
210	250	238	350	365	2500	
211	300	239	400	366	3000	
212	350	240	500	425	4000	
213	400	241	650	485	5000	
214	500	242	750	545	6500	
215	650	243	900	605	8000	
216	750	244	1100	665	10000	
217	900	245	1300	725	12000	
218	1100	246	1500			
219	1300	247	1800			
220	1500	248	2100			
221	1800	249	2500			
222	2100	250	3000			
223	2500					
224	3000					

Dew Point

Α	−40° F	
В	−100° F	

Voltage

1	120V/1ph/60Hz
2	480V/3ph/60Hz
3	220V/1ph/60Hz
4	220V/3ph/60Hz

Electrical Construction

A	NEMA 4
В	NEMA 7
С	Total Pneumatic Controls (RH Dryers Only)

Dew Point Control & Monitoring Options

1	None
2	Dew Point Demand Plus
3	Dew Point Demand
4	Dew Point Demand and High Humidity Alarm
5	High Humidity Alarm

Heater Options (RE Dryers Only)

moditor opti-	one (ne or year only)
Α	None
В	Heater Overtemp Alarm
С	Power Saver Thermal Control
D	Heater Overtemp Alarm and Power Saver

Remote Alarm Contacts Options

1	None
2	Remote Alarm Contacts (120V)
3	Remote Alarm Dry Contacts

Pre-Piping and Bypass Options

Α	None
В	Pre-piped Filter Package
С	Pre-piped Filter PKG W/3 Valve Dryer Bypass
D	Pre-piped Filter PKG W/7 Valve Dryer Bypass

RS-232 Interface Option

 No 202 intoriaco option					
1	None				
2	RS-232 Serial Communications Interface				

Low Ambient Ontions

Low Ambient Options				
Α	None			
В	Low Ambient Insulation			

Cool Down Loop Option (BP Dryers only)

0001 D01111 E	oop option (bi bijors only)
1	None
2	Blower Purge Cool Down Loop





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Energy Saving by Arrow Pheumatics

"C" SERIES CYCLING DRYER

Arrow Model Numbers 3514C through 3560C

Features

- Significant energy savings
- Longer compressor life because of reduced cycling wear
- Semi-hermetic compressors have a 3 times longer life than hermetic compressors
- More BTU's/HR capacity per KW with Semi-Hermetic Compressor
- No Dew Point spikes that occur with cycling type dryers
- Superior heat exchanger design with spiral fin tube construction



THE BEST COMBINATION IN THE REFRIGERATED AIR DRYER BUSINESS

SEMI HERMETIC COMPRESSORS

- Long Life Compressors (3 Times Longer than Hermetic Design)
- High Flow Oil Pump
- Much More Cooling Capacity (BTU/HR) than Hermetic Design
- Head Unloaders Provide for Greater Energy Savings at Less than Full Load Conditions
- Environmentally Friendly R-22 Refrigerant (R134A Refrigerant Available)
- Field Repairable and Rebuildable
- High Efficiency Motors



ARROW PNEUMATICS SPIRAL FIN TUBE HEAT EXCHANGER DESIGN

- □ 100% Copper Tube within a Tube Design
- Exclusive Spiral Fin Tube in Evaporator Elimintates
 Laminar Flow and Acts as a Cold Mechanical
 Separator to Eliminate Fog and Mist
- Large Inlet and Outlet Manifolds Assures EvenAir Flow Through Tubes
- Refrigerant Feeder Assembly Delivers Precise Amounts of Refrigerant to Each Tube
- Most Efficient Separator Design on the Market



Why specify a semi-hermetic compressor with head unloaders for a refrigerated air dryer?

Refrigerated air dryers rarely handle the same amount of compressed air at the same inlet temperature for any extended period of time. The BTU's/Hr. load on the dryer is constantly changing because the demand for compressed air in most plants varies from one minute to the next and from one shift to the next. Not only does the CFM requirements constantly change but the inlet temperature to the dryer varies dramatically depending on ambient temperatures. When sizing an air dryer, it is necessary to know all the conditions of the application, like the maximum pressures and temperatures the dryer will encounter. Knowing this information is most important to the performance and reliability of the dryer which is selected.

Refrigerated air dryers per industry standards are rated at a given CFM at 100°F inlet air temperature, 100°F ambient temperature and 100 PSIG operating pressure. The chart below shows how the performance of the dryer changes as the above design conditions change.

	Design	Actual	Affect on
	Conditions	Conditions	Performance
Air Flow %	100%	50%	Reduces Load 50%
Inlet Air Temperature	100°F	75°F	Reduces Load 44%
Ambient Air Temperature	100°F	80°F	Reduces Load 14%

As you can see knowing the actual operating conditions for the application, a properly sized "C" SERIES dryer can be selected to reduce the customers operating costs.

HERE'S HOW IT WORKS!

An Arrow "C" Series Refrigerated Air Dryer equipped with a semi-hermetic compressor and head unloaders will reduce the KW input to the dryer and save electricity at times when the dryer is operating at less than fully loaded conditions. Dryers equipped with four cylinder compressors can be unloaded to 1/2 of their full rated capacity and dryers equipped with six cylinder compressors can be unloaded to 2/3rds and 1/3rd of their full rated capacity. A typical plant operating 6000 hours per year could expect significant savings with the combination of an efficient semi-hermetic compressor and head unloaders. The semi-hermetic compressor is more efficient and at full load uses less power than a regular hermetic compressor.

An average plant operating 6000 hours per year will, realistically, operate the dryer 1/3rd of the time fully loaded, 1/3rd of the time 2/3rds loaded, and 1/3rd of the time 1/3rd loaded.

The cost to operate a 1500 CFM dryer fully loaded without head unloaders for 6000 hours would be:

6000 HRS X 8.11 KW X .10 KWH = \$4,866

To operate the same dryer fully loaded on the 1st shift, 2/3rds loaded on the 2nd shift and 1/3rd loaded on the 3rd shift would be:

2000 hours X 8.11 KW X \$.10 KWH = \$1,622 2000 hours X 6.75 KW X \$.10 KWH = \$1,166 2000 hours X 4.12 KW X \$.10 KWH = \$714

The total electrical cost would be \$3,502 compared to \$4,866 or a savings of \$1,364 per year.

Semi-Hermetic Compressor Performance R-22 Refrigerant

Model	Flow Capacity SCFM	# of Cylinders	HP	In/Outlet Connections	Step Unloaders	Full Load KW	1st Step Unloader KW	Energy Savings	2nd Step Unloader KW	Energy Savings
3514-*C	500	4	3	3" NPT	1 Step	4.07	2.32	43%	N/A	
3514W-*C	500	4	3	3" NPT	1 Step	3.20	1.82	43%	N/A	
3515-*C	625	4	3	3" NPT	1 Step	4.07	2.32	43%	N/A	
3515W-*C	625	4	3	3" NPT	1 Step	3.20	1.82	43%	N/A	
3516-*C	750	4	5	3" NPT	1 Step	5.04	2.87	43%	N/A	
3516W-*C	750	4	5	3" NPT	1 Step	4.17	2.38	43%	N/A	
3517-*C	1000	4	5	4″ FLG	1 Step	6.51	3.71	43%	N/A	
3517W-*C	1000	4	5	4" FLG	1 Step	5.25	2.99	43%	N/A	
3518-*C	1200	4	5	4" FLG	1 Step	7.13	4.06	43%	N/A	
3518W-*C	1200	4	5	4" FLG	1 Step	5.87	3.35	43%	N/A	
3519-*C	1600	6	6.5	6" FLG	2 Step	9.37	6.75	28%	4.12	56%
3519W-*C	1600	6	6.5	6" FLG	2 Step	8.11	5.84	28%	3.57	56%
3521-*C	2000	6	7.5	6" FLG	2 Step	14.56	10.48	28%	6.41	56%
3521W-*C	2000	6	7.5	6" FLG	2 Step	13.30	9.58	28%	5.85	56%
3548W-*C	2300	6	10	6" FLG	2 Step	13.30	9.58	28%	5.85	56%
3522-*C	2500	6	10	6" FLG	2 Step	14.81	10.48	28%	6.41	56%
3523-*C	3000	4	15	6" FLG	1 Step	18.06	10.29	43%	N/A	0%
3549W-*C	3000	6	10	6" FLG	2 Step	13.30	9.58	28%	5.85	56%
3524-*C	3750	4	15	6" FLG	1 Step	19.57	11.10	43%	N/A	0%
3550-*C	4000	6	25	6" FLG	2 Step	18.90	14.45	28%	10.00	56%
3550W-*C	4000	4	15	6" FLG	1 Step	16.55	9.43	43%	N/A	0%
3560-*C	5000	6	25	8" FLG	2 Step	27.02	20.93	28%	14.55	56%
3560W-*C	5000	4	20	8" FLG	1 Step	16.55	9.43	43%	N/A	0%

All capacities above are based on design conditions of 100°F inlet, 100 PSIG and 100°F ambient.

* - Voltage Code

-3 - 208/3/60 or 200-240/3/50

-4 - 460/3/60 or 380/3/50

-5 - 575/3/60





Mini-Regenerative

Dry Air Technology

MINI-HEATLESS REGENERATIVE DRYERS

Twin tower Mini-regenerative air dryers are the desiccant dryer of choice for low flow applications. Arrow's reliable series of heatless twin tower dryers produce dew points as low as -40°F but can be configured to create dew points as low as -100°F.

STANDARD FEATURES

- Fully automatic to provide the most efficient operation
- Panel mounted gauges provide accurate monitoring of tower pressures
- Reliable pneumatic valve operation is achieved by an electrically activated spool valve and a shuttle check valve. All valves are nonlubricated to provide maximum dependability and maintenance free operation.
- Removable stainless steel diffuser screens disperse air flow for maximum desiccant capacity and to allow uniform air distribution throughout the desiccant bed.
- Solid-state controls provide reliable sequencing or dryer functions
- Power-On lighted switch to show dryer is energized and functioning
- Exhaust Purge muffler for quiet operation
- Universally accepted 120V/1ph/60Hz power requirements for easy connection.
- Six foot cord included

OPTIONAL FEATURES

- -100°F Pressure Dew Point
- 220v/1ph/60Hz

BENEFITS

- Cabinet designed for wall mounting
- ☐ Tamper resistant: All components fully enclosed
- Dry air instantly no waiting
- Low to zero maintenance
- Long lasting desiccant
- No electrician required



APPLICATIONS

- CNC Machines
- Low dew point instrument air
- Prevent air line freeze-ups
- Pressurizing of electronic cabinets
- Medical and dental equipment
- Paint spray systems
- Plastic molding
- Dry powder coating
- Auto body repair shops



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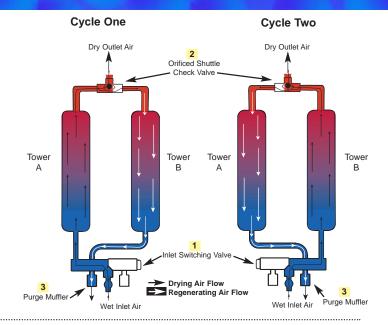


Wet compressed air enters the dryer and is directed into Tower A through the inlet switching valve. (1) The wet air passes through the desiccant bed while the activated alumina strips moisture leaving dry service air. A portion of this extremely dry air passes though the orificed shuttle check valve (2) and flows downward through Tower B, drying out the saturated desiccant and exhausting out of the purge muffler. (3)

This "regenerating operation" is actually two cycles, one for drying service air, and one for drying desiccant. After approximately five minutes, the switching valve redirects flow, repeating the cycle.

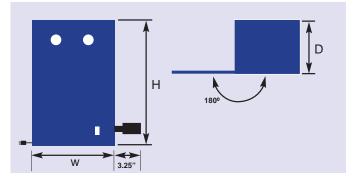
Required purge air is generally 15% of rated flow.

All Arrow Pneumatic mini-regen dryers have less than a 2 psi maximum pressure drop at standard conditions.



Dimensions

Model	Height (H) inches	Width (W) inches	Depth (D) inches	Weight (lbs)
RH105A1	22	10	5	50
RH110A1	22	10	5	60
RH115A1	30	12	8	70
RH120A1	30	12	8	80
RH125A1	30	12	8	90



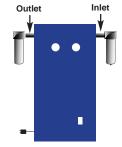
Specifications

Model	Capacity SCFM	Purge Flow SCFM	In/Out conn.
RH105A1	5	.71	1/2" NPT
RH110A1	10	1.41	1/2" NPT
RH115A1	15	2.12	1/2" NPT
RH120A1	20	2.82	1/2" NPT
RH125A1	25	3.53	1/2" NPT

- 1) Capacities are based on 100° inlet temp. 100°F ambient temp and 100PSIG inlet
- 2) Maximum working pressure is 150 PSIG
- Coalescing filters must be installed before all mini-regenerative dryers to protect desiccant from oil contamination
- 4) Particulate filters must be installed after all mini-regenerative dryers to filter desiccant dust
- 5) Standard Voltage is 120v/1ph/60Hz
- 6) Amp draw 0.5 amps

RECOMMENDED FILTERS FOR ARROW MINI REGENERATIVE AIR DRYER

Dryer Model	Pre-Filter	Inlet/Outlet Conn.	After Filter	Inlet/Outlet Conn.
RH105	F552FW	1/4" NPT	F352-3	1/4" NPT
RH110	F552FW	1/4" NPT	F352-3	1/4" NPT
RH115	F554FW	1/2" NPT	F354-3	1/2" NPT
RH120	F554FW	1/2" NPT	F354-3	1/2" NPT
RH125	F554FW	1/2" NPT	F354-3	1/2" NPT



^{*-3&}quot; suffix indicates 3 micron filter



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^{*&}quot;F" suffix indicates an internal float drain

