

# XC Series

Industrial High Efficiency Filters



**Advant-Air**<sup>TM</sup>  
The Performance Advantage for Compressed Air

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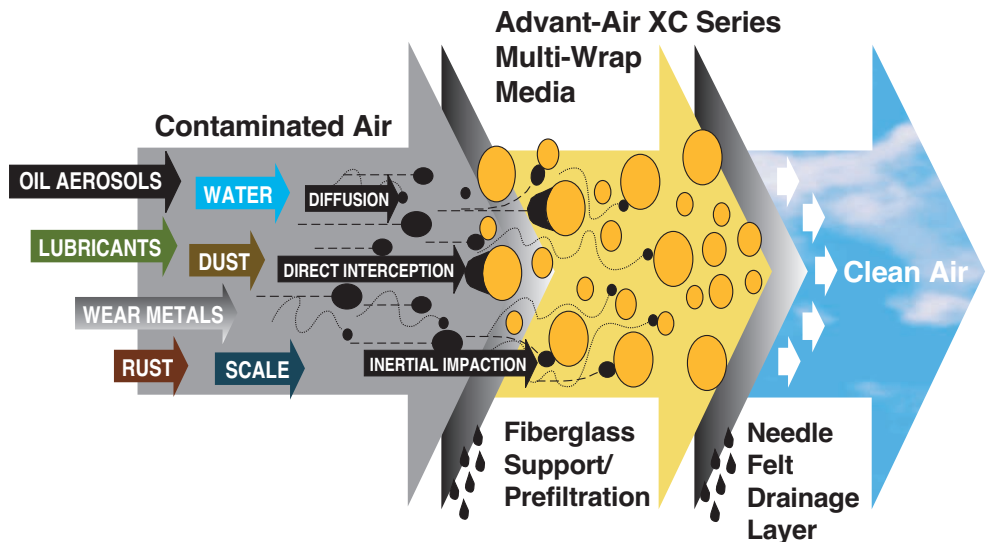
# Save energy dollars protect your air system... *And!*

*Your compressed air is contaminated! Airborne water vapor and dust are drawn into your compressor intake. The compressor adds oil aerosols, vapors and wear metals. Piping can add rust and scale.*

The Compressed Air Challenge,™ a government/ industry sponsored energy savings awareness program, estimates that \$1.5 billion dollars a year is spent in the US to compress air. Over 20% of this could be saved by better design and management of compressed air systems. Excessive filter pressure drop is a key target to achieve this goal.

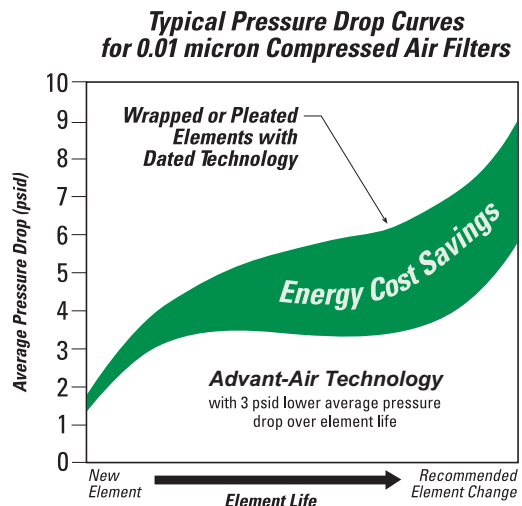
Advant-Air XC Series Industrial High Efficiency Filters can save energy dollars because they have a lower pressure drop throughout the Filter Element life, when compared to competitive filters using older wrapped/pleated element technology.

Don't be fooled by calculated savings from competitive filter modules. They do not have the efficiency of the Advant-Air XC Series Element, so tiny particulates flow downstream to pneumatic equipment, causing the wear and damage that a filter should prevent.

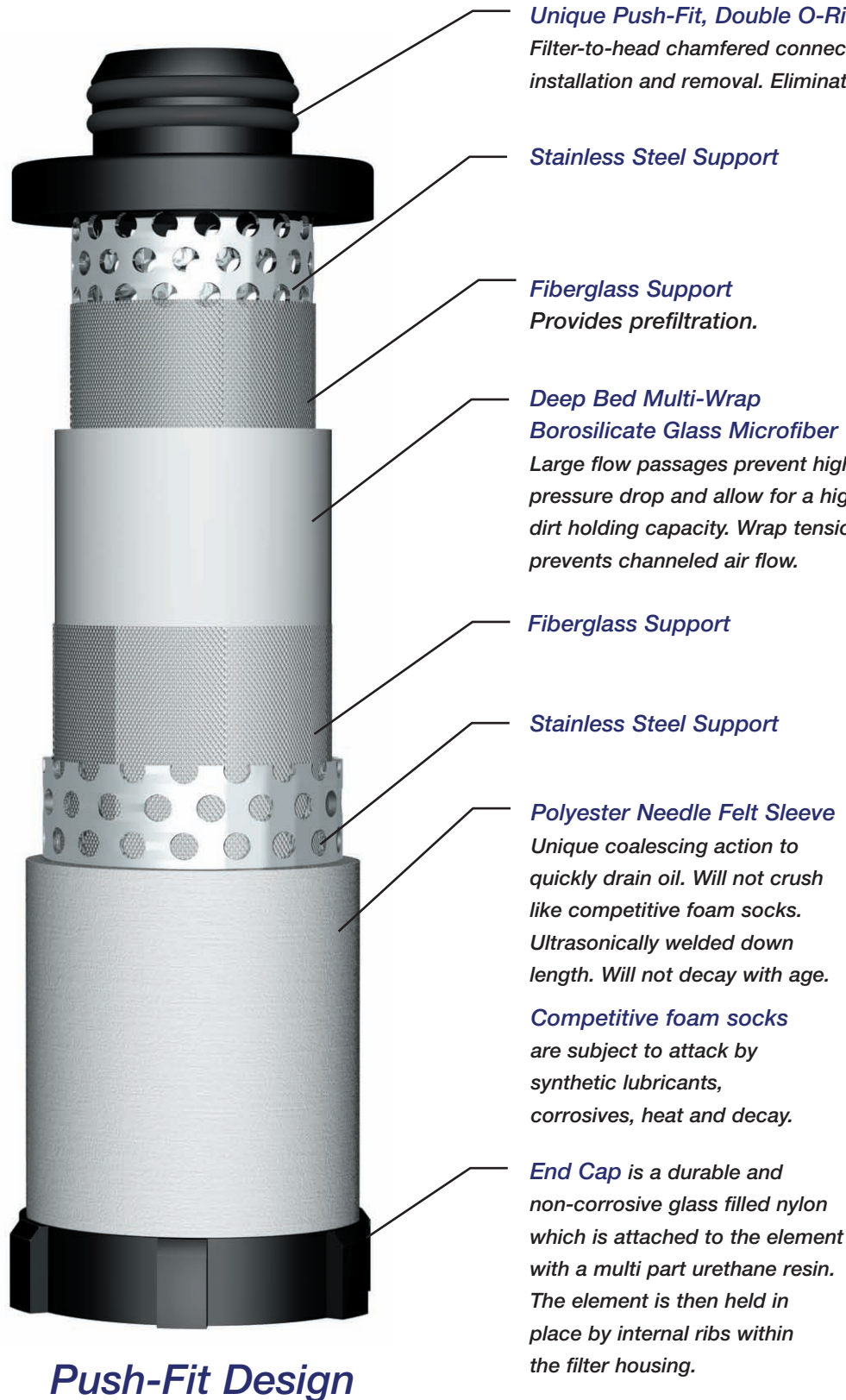


## Real Dollars Example:

*With a 200 HP Air Compressor running 24 hours per day, at 93% motor efficiency, and an electrical cost of \$0.10/kW-HR, the 3 psid lower average pressure drop of an Advant-Air XC Series filter would represent an annual saving of over \$3,000! A system that has three filters can save up to \$9,000 per year.*



# Introducing Advant-Air's High Technology Filter Elements



**Unique Push-Fit, Double O-Ring Seal**  
Filter-to-head chamfered connection for ease of installation and removal. Eliminates tie rods.

**Stainless Steel Support**

**Fiberglass Support**  
Provides prefiltration.

**Deep Bed Multi-Wrap Borosilicate Glass Microfiber**  
Large flow passages prevent high pressure drop and allow for a high dirt holding capacity. Wrap tension prevents channeled air flow.

**Fiberglass Support**

**Stainless Steel Support**

**Polyester Needle Felt Sleeve**  
Unique coalescing action to quickly drain oil. Will not crush like competitive foam socks. Ultrasonically welded down length. Will not decay with age.

**Competitive foam socks** are subject to attack by synthetic lubricants, corrosives, heat and decay.

**End Cap** is a durable and non-corrosive glass filled nylon which is attached to the element with a multi part urethane resin. The element is then held in place by internal ribs within the filter housing.

**Push-Fit Design**

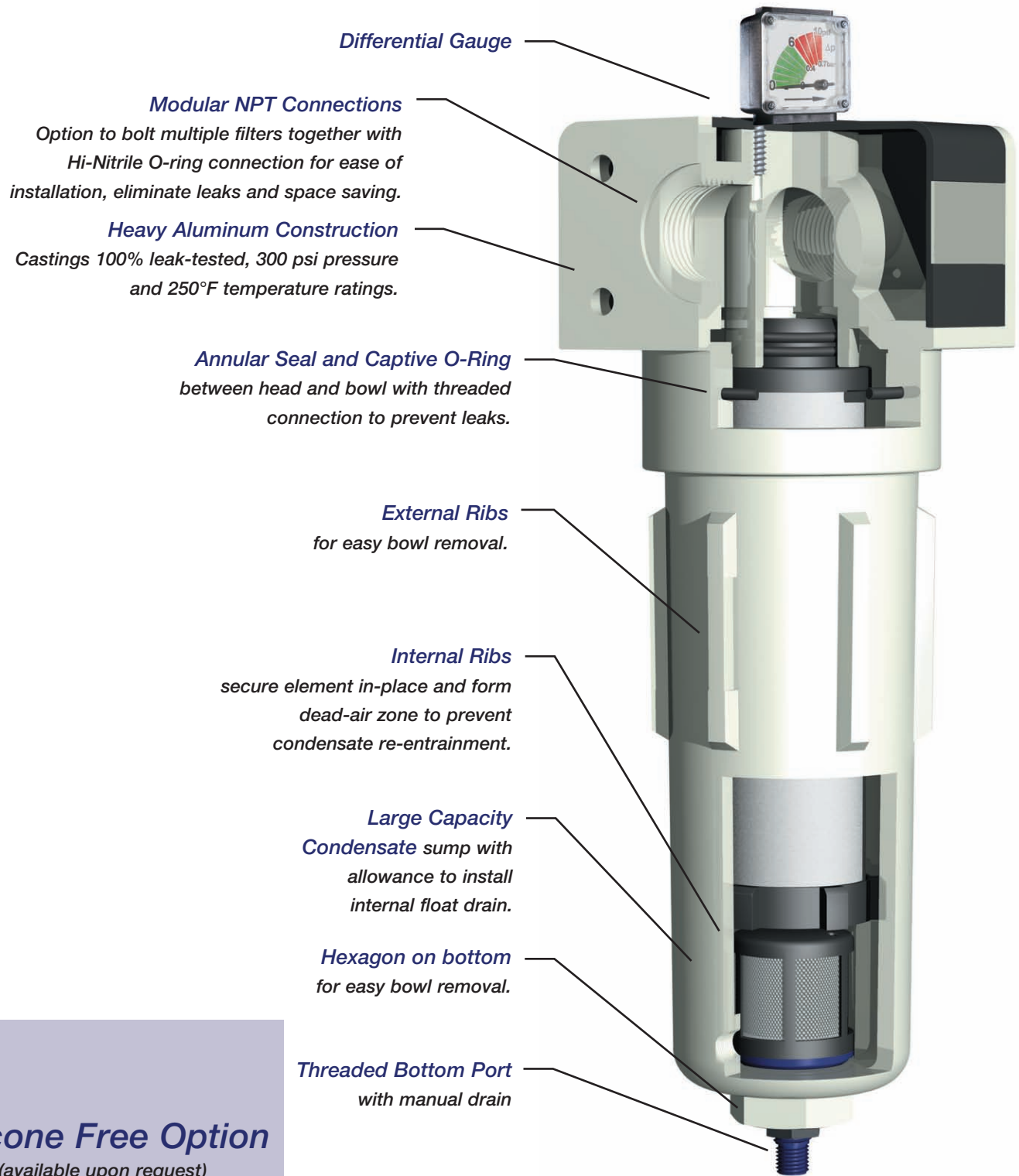


Suitable for temperatures up to 250°F/Compatible with synthetic and mineral lubricants (High temperature models available up to 450°F). Low average pressure drop over life of element. Regular replacement suggested for best performance and energy cost savings.

## Low Operating Cost

Regular filter element replacement saves money. It minimizes pressure drop and ensures protection of your compressed air system, pneumatic equipment, and finished product. WE OFFER A STANDARD TEN YEAR WARRANTY ON FILTER HOUSINGS.

# 21st Century Filtration



**Silicone Free Option**  
(available upon request)

**Only 4-7" clearance for element removal**

# Features and Benefits

## Performance Monitoring

- Easy indication of excessive pressure drop to reduce energy costs.

## Delta-P Gauge (Standard)

- DP gauge face is not pressurized.
- Unique magnetic sensor survives high impact.
- DP gauge can be remote or panel mounted.

## Remote Contact DP Alarm (Optional)

- Dry contacts close at 6 psid to send a notification signal to a bell, light, or control panel.
- Can be field installed.

## Modular Head Design (65-1500 scfm)

- Multiple filters can be bolted together with O-ring seal.
- Minimizes threaded connections — leak points.
- Simplifies installation.
- Saves space.
- Modular mounting kits available with high tensile strength cap screws with nuts and O-ring.

## Side Port (65-16100 scfm)

- Side mounting of external auto drain for low clearance applications.
- Can be used as a separate manual drain or as a vent line connection to an external demand drain mounted to bottom connection.

## Bottom Drain Adapter Plate (1000-1500 scfm)

- Releases drain adapter for ease of float drain maintenance.
- Easy disconnect of external drain when element is changed.



# Accessories

Saves space, ideal for system packaging...

## MB Mounting Brackets



Allows convenient wall-mounting of single or multiple filters.



## PP Port Plates

Allows for easy change from standard port size to match larger pipe size and reduce pipe fittings.

Prevents costly oversizing of filters to pipe size.

## RS Ring-Spanner

Easy bowl removal.



## ESD Electronic Sensing Device

Gauge pressure, differential pressure all both gauge and differential pressure transmitters providing a 4-20 mA and 5-volt continuous output to monitor filter performance.

## MDV Manual Drain Valves

Available all for models.



## CK Connecting Kits

Available for models 15-1500 SCFM.

# Correction Factors

For maximum flow rate, multiply model flow rate shown in the top chart by the correction factor corresponding to the working pressure. See specifications for maximum pressure.

Operating Pressure (psig)	10	20	30	40	50	60	70	80	90	100	110	125	150	175	200	225	250	275	300
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Correction Factor	0.32	0.45	.055	0.64	0.71	0.78	0.84	0.90	0.95	1.00	1.05	1.12	1.22	1.32	1.41	1.49	1.57	1.65	1.72
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Note: To reduce pressure drop by 50%, reduce flow rate by 30%.

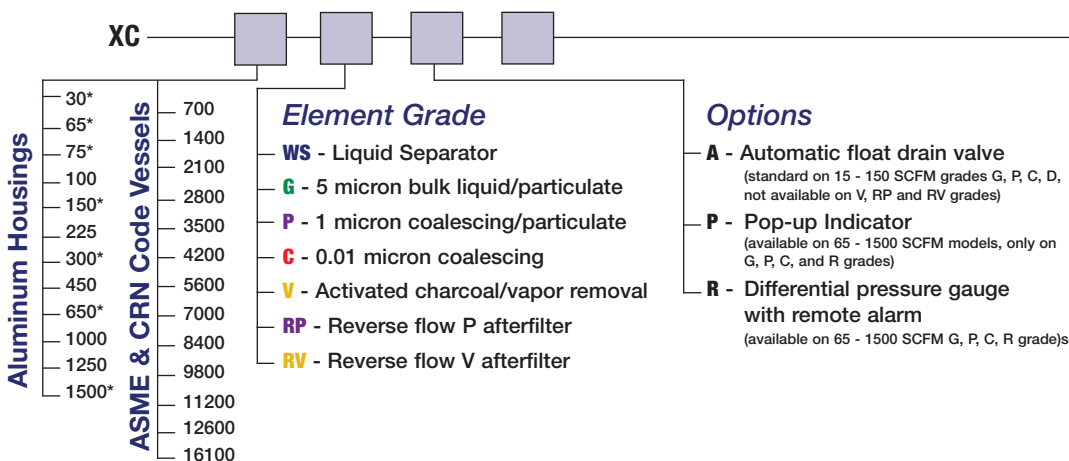
## Large Flow ASME and CRN Code Filter Vessels

### Features and Benefits

- Welded to ASME VIII construction.
- A side mounted differential pressure gauge is fitted as standard. This can be read clearly from either side.
- Same unique filtration media as in aluminum casting.
- Inlet/outlet tappings for DP reading.
- 2" to 12" flanges, up to 16100 scfm.
- Maximum working pressure 235 psig and maximum temperature 250°F.
- Lifting lug.
- One element, common to all sizes.
- Stainless Steel tie rod connections.
- Stainless Steel distribution plate.
- Painted inside and out.
- Side drain port with dip tube for low clearance applications or for vent line to demand drains.
- A bottom drain port is standard to ease installation of demand drains and balance pipes.



## Ordering Information



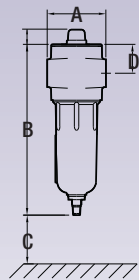
### Accessories

- MB** Mounting brackets available for models 15 - 1500 SCFM.
- PP** Port plates available from models 65 - 650 SCFM.
- RS** Ring spanner available for models 65 - 1500 SCFM.
- ESD** Electronic pressure and differential pressure transmitter available for models 65 - 16100 SCFM.
- MDV** Manual drain valves available for the complete range.
- CK** Connecting kits for models 15 - 1500 SCFM.

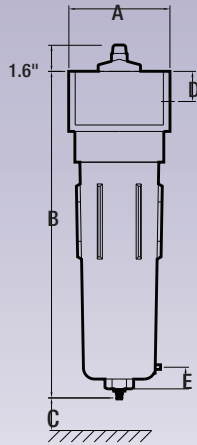
## Alternative Elements

Advant-Air offers alternative elements of equal or better quality for:  
 Kaeser • Atlas Copco • Gardner-Denver • Ingersoll Rand • many others

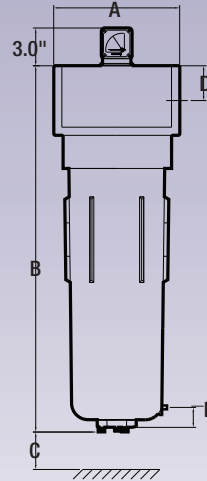
# Dimensions



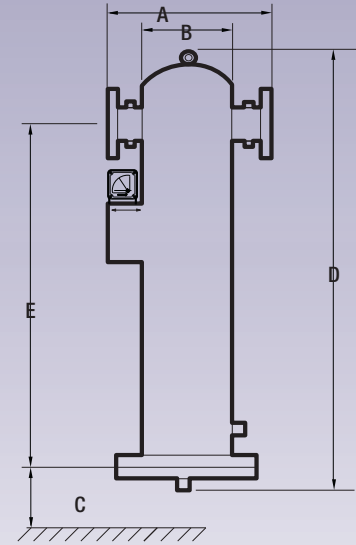
Model XC30\*



Models XC65\* thru XC650\*  
(Pop-up option shown)



Models XC1000\*  
thru XC1500\*



Models XC700\* thru XC16100\*  
Dual certified ASME and CRN  
coded vessels are standard.

Aluminum Housings

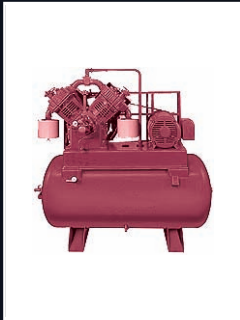
ASME & CRN Code Vessels

Model Number	Flow Rate		Dimensions			inches			NPT Connections			Weight lbs	Replacement Element Model
	SCFM	Nm3/h	A	B	B WS	C	D	E	In/Out	Side	Bottom**		
XC30*	30	51	3.00"	7.50"	7.50"	4.00"	1.50"	N/A	3/8"	N/A	1/8" MPT	1.5	XC30 [ * ] E
XC65*	65	110	4.50"	10.50"	10.50"	6.00"	1.50"	1.25"	1/2"	1/4"	1/8" MPT	4.5	XC65 [ * ] E
XC75*	75	128	4.50"	10.50"	10.50"	6.00"	1.50"	1.25"	3/4"	1/4"	1/8" MPT	4.5	XC75 [ * ] E
XC100*	100	170	4.50"	14.00"	N/A	6.00"	1.50"	1.25"	1"	1/4"	1/8" MPT	5.5	XC100 [ * ] E
XC150*	150	255	4.50"	14.00"	10.50"	6.00"	1.50"	1.25"	1"	1/4"	1/8" MPT	5.5	XC150 [ * ] E
XC225*	225	382	5.75"	19.00"	N/A	6.50"	2.00"	1.50"	1 1/2"	1/2"	1/4"	12.0	XC225 [ * ] E
XC300*	300	510	5.75"	19.00"	19.00"	6.50"	2.00"	1.50"	1 1/2"	1/2"	1/4"	12.0	XC300 [ * ] E
XC450*	450	765	5.75"	19.00"	N/A	6.50"	2.00"	1.50"	2"	1/2"	1/4"	12.0	XC450 [ * ] E
XC650*	650	1105	5.75"	26.75"	19.00"	6.50"	2.00"	1.50"	2"	1/2"	1/4"	12.5	XC650 [ * ] E
XC1000*	1000	1700	9.00"	27.50"	N/A	7.00"	2.50"	1.50"	3"	1/2"	1/2"	32.0	XC1000 [ * ] E
XC1250*	1250	2125	9.00"	32.50"	N/A	7.00"	2.50"	1.50"	3"	1/2"	1/2"	33.5	XC1250 [ * ] E
XC1500*	1500	2550	9.00"	38.50"	27.50"	7.00"	2.50"	1.50"	3"	1/2"	1/2"	35.5	XC1500 [ * ] E
XC700*	700	1190	12.50"	5.56"	N/A	32.00"	46.60"	37.60"	2" flg	1/2"	1/2"	92	XC700 [ * ] E (1 ea.)
XC1400*	1400	2380	18.00"	8.63"	N/A	32.00"	45.30"	38.30"	3" flg	1/2"	1/2"	215	XC700 [ * ] E (2 ea.)
XC2100*	2100	3570	18.00"	10.80"	N/A	32.00"	48.20"	38.40"	4" flg	1/2"	1/2"	326	XC700 [ * ] E (3 ea.)
XC2800*	2800	4760	20.00"	12.80"	N/A	32.00"	50.30"	39.30"	6" flg	1/2"	1/2"	439	XC700 [ * ] E (4 ea.)
XC3500*	3500	5950	20.00"	12.80"	N/A	32.00"	50.30"	39.30"	6" flg	1/2"	1/2"	439	XC700 [ * ] E (5 ea.)
XC4200*	4200	7140	20.00"	14.00"	N/A	32.00"	54.30"	40.40"	6" flg	1/2"	1"	536	XC700 [ * ] E (6 ea.)
XC5600*	5600	9520	24.00"	16.00"	N/A	32.00"	55.10"	40.60"	8" flg	1/2"	1"	647	XC700 [ * ] E (8 ea.)
XC7000*	7000	11900	28.00"	18.00"	N/A	32.00"	58.10"	42.60"	8" flg	1/2"	1"	778	XC700 [ * ] E (10 ea.)
XC8400*	8400	14280	28.00"	18.00"	N/A	32.00"	58.10"	42.60"	10" flg	1/2"	1"	778	XC700 [ * ] E (12 ea.)
XC9800*	9800	16660	28.00"	20.00"	N/A	32.00"	59.40"	42.80"	10" flg	1/2"	1"	936	XC700 [ * ] E (14 ea.)
XC11200*	11200	19040	33.00"	24.00"	N/A	32.00"	61.00"	43.20"	10" flg	1/2"	1"	1214	XC700 [ * ] E (16 ea.)
XC12600*	12600	21420	33.00"	24.00"	N/A	32.00"	61.00"	43.20"	10" flg	1/2"	1"	1214	XC700 [ * ] E (18 ea.)
XC16100	16100	27370	CF	CF	N/A	32.00"	CF	CF	12" flg	1/2"	1"	CF	XC700 [ * ] E (23 ea.)

\* Fill in element grade (WS, G, P, C, V, RP, RV) to appropriate model number. \*\* Bottom drain, 1/8" MPT with mechanical float drain. \*\*\*Includes 1 ea. of C&V grade element.

Note: B WS is filter length for Liquid Separator option.

*Other Compressed Air System Products available through Advant-Air™:*



Reciprocating Air Compressor



Rotary Screw Air Compressor



Refrigerated Air Dryer



Magnetic Drain



Digital Timer Drain



Motorized Ball Valve



Oil/Water Separator



Breathable Air Unit



Air Receiver



Service Kit/Lubricants



2733 West 11th Street • Erie, PA 16505  
Tel: 800-419-5663 • Fax: 814-419-5668  
[www.advant-air.com](http://www.advant-air.com)