



Engineered Adsorption Solutions | Partnership | Success

FSX SOLUTIONS



- Coalescing, particulate and hydrocarbon filtration
- Standard flows up to 17,000 SCFM
- Standard flanged connections from 2" to 12"
- Standard and customized models available
- ASME and CRN



Engineered Flanged Filters and Water Separators



Engineered Flanged Filters and Water Separators

Xebec Benefits

40 years of filtration experience:

Xebec has been providing superior filtration solutions for over 40 years. Xebec's strength is designing cost-effective solutions tailored to the specific needs of each customer.

Clean and dry compressed air and gas:

Xebec's commitment is to provide our customers with the highest possible air and gas quality.

Highest quality standards:

Certified to ISO 9001, ISO 14001, OSHAS 18001, Xebec's quality management systems are guaranteed to provide the highest quality filtration products on a consistent basis.

Filter housings are built to ASME code and CSA B51 latest editions. All are National Board certified, and can be built to specific requirements such as the Chinese and Malaysian pressure vessel codes.

Filter elements meet or exceed air quality standards ISO 8573.1 and are independently validated to ISO 12500.



Typical applications:

Coalescing water/oil removal

- Compressed air and gas system protection
- Dryer protection
- Paint spray booths
- Air tools protection

Particulate removal

- Desiccant dryer after-filter
- Prefilter to coalescer
- Systems with higher particulate concentration
- Particulate protection for non-lubricated systems

Hydrocarbon vapor removal

- Odor removal
- Food packaging
- Powder paint systems
- Hydrocarbon vapor removal

ENGINEERED FLANGED FILTERS

Xebec Filter Element Technology

Xebec's design uses pleated filter elements exclusively for all compressed air and gas applications.

Xebec's criteria for the economical choice of a filter are:

- High flow capabilities
- Low differential pressure
- High dirt-holding capacity by integrating the prefilter medium with the final filtration layers
- Long service life
- ISO controlled manufacturing process



Three filter grades are available:

- **Filter Element Grade AE**
Efficiency 99.99% at 1 micron.
Oil retention down to 0.5 ppm per ISO 8573.1.
- **Filter Element Grade PE**
Efficiency 99.9999% at 0.01 microns.
Oil retention down to 0.01 ppm per ISO 8573.1.
- **Filter Element Grade AC**
Activated carbon element which adsorbs oil vapor down to 0.001 ppm. It is always preceded by a PE filter series to remove aerosols.



ENGINEERED FLANGED FILTERS

Standard models:

- 2" to 12" flanged connections
- Free Standing or inline models
- Stainless steel internal parts for maintenance-free operation
- Differential pressure indicator
- Corrosion allowance

Customized models:

- Larger flows/higher pressures
- Stainless steel construction
- Vacuum applications
- Electronic drains
- Activated carbon tower
- Certifications: Lloyd's Register, ABS, CRN, CPV

HOW TO ORDER:

Order example:

XT 0402 PEC FSX 18 D F

Model:

- XT Inline
XZ Freestanding

XT

Filter Model:

1. Determine flow and minimum operating pressure
2. Convert minimum operating pressure as per Table A
3. Use formula to calculate filter capacity required:
flow (scfm) ÷ conversion factor (f)
4. Use calculated flow to select filter size

0402

Example:

1. Flow 875 scfm @ 45 psig
2. 45 psig = 0.5 factor
3. 875 scfm ÷ 0.5 = 1750
4. 1750 = Filter Size **0402**

Filter Series:

- Filter Element Grade**
- PEC High efficiency coalescing 0.01 micron (standard prefilter)
- AEC Coalescing to 1.0 micron (coarse prefilter)
- AEP Dust particle down to 1.0 micron (standard afterfilter)
- PEP Dust particle down to 0.01 micron (high efficiency afterfilter)
- ACC Activated carbon

PEC

Design Pressure: 18 260 psig (18 bar g) (higher pressure consult factory)

18

Differential Pressure Gauge Type: D Differential pressure gauge
N No differential pressure gauge

D

Drain Type:

- X Without drain
- F Standard float drain
- M Manual drain valve
- E Zero-loss electronic drain

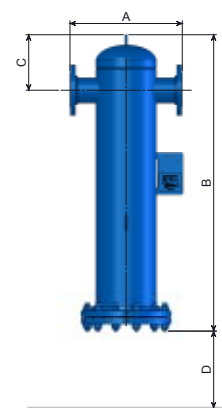
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ENGINEERED FLANGED FILTERS

Filter Model and Conversion Factor Tables

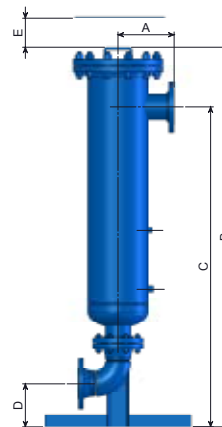
FSX Series XT Inline Filter

Filter Model	Flow Capacity @ 100 psig / 7 bar g		Inlet/Outlet Connection 150# Flg	Drain Connection NPT	Dimensions								Design Pressure		Weight		Filter Element Quantity/Type
					A		B		C		D						
	scfm	Nm ³ /hr			in	mm	in	mm	in	mm	in	mm	psig	bar g	lbs	kg	
0201	875	1382	2	1/2	15	381	47 7/8	1216	8 1/2	216	26	660	260	17.9	120	54	1x3075
0301	1500	2369	3	1/2	17	432	49 1/8	1248	8 3/4	222	26	660	260	17.9	176	80	1x5075
0402	1750	2764	4	1/2	20	508	52 3/8	1337	9 7/8	251	26	660	260	17.9	238	108	2x3075
0403	2600	4107	4	1/2	20	508	52 3/8	1337	9 7/8	251	26	660	260	17.9	242	110	3x3075
0604	3500	5528	6	1/2	25	635	57 3/8	1457	11 3/4	298	26	660	260	17.9	330	150	4x3075
0605	4400	6950	6	1	31	787	59 1/4	1505	14	356	26	660	260	17.9	452	205	5x3075
0606	5200	8214	6	1	31	787	59 1/4	1505	14	356	26	660	260	17.9	456	207	6x3075
0808	6900	10899	8	1	31	787	62 1/4	1581	14 1/2	368	24	610	260	17.9	511	232	8x3075
0810	8600	13584	8	1	33	838	62 3/8	1584	14 1/2	368	24	610	260	17.9	794	360	10x3075
1012	10500	16585	10	1	37	940	67 3/4	1721	18	457	28	711	260	17.9	992	450	12x3075
1016	13500	21324	10	1	37	940	67 3/4	1721	18	457	28	711	260	17.9	1036	470	16x3075
1220	17000	26852	12	1	37	940	65 7/8	1673	18	457	28	711	260	17.9	1168	530	20x3075



FSX Series XZ Free Standing Filter

Filter Model	Flow Capacity @ 100 psig / 7 bar g		Inlet/Outlet Connection 150# Flg	Drain Connection NPT	Dimensions										Design Pressure		Weight		Filter Element Quantity/Type
					A		B		C		D		E						
	scfm	Nm ³ /hr			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	psig	bar g	
0201	875	1382	2	1/2	8	203	57 3/8	1457	50 3/8	1280	6	152	30	762	260	17.9	120	54	1x3075
0301	1500	2369	3	1/2	9	229	61 1/2	1562	54 1/2	1384	6	152	30	762	260	17.9	176	80	1x5075
0402	1750	2764	4	1/2	10	254	67 1/4	1708	56 5/8	1438	6	152	30	762	260	17.9	238	108	2x3075
0403	2600	4107	4	1/2	10	254	67 1/4	1708	56 5/8	1438	6	152	30	762	260	17.9	242	110	3x3075
0604	3500	5528	6	1/2	13	330	73 1/2	1867	60 7/8	1546	8	203	30	762	260	17.9	330	150	4x3075
0605	4400	6950	6	1	13	330	73 1/2	1867	60 7/8	1546	8	203	30	762	260	17.9	452	205	5x3075
0606	5200	8214	6	1	13	330	73 1/2	1867	60 7/8	1546	8	203	30	762	260	17.9	456	207	6x3075
0808	6900	10899	8	1	16	406	80 1/2	2045	66 1/2	1689	8	203	30	762	260	17.9	511	232	8x3075
0810	8600	13584	8	1	16	406	80 1/2	2045	66 1/2	1689	8	203	30	762	260	17.9	794	360	10x3075
1012	10500	16585	10	1	C/F*		C/F*		C/F*		C/F*		C/F*	260	17.9	992	450	12x3075	
1016	13500	21324	10	1	C/F*		C/F*		C/F*		C/F*		C/F*	260	17.9	1036	470	16x3075	
1220	17000	26852	12	1	C/F*		C/F*		C/F*		C/F*		C/F*	260	17.9	1168	530	20x3075	



* Consult factory

Table A Conversion factor *f* for other operating pressures (divider)

bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
psig	15	30	45	58	73	87	100	116	130	145	160	176	188	203	218	232
<i>f</i> =	0.25	0.38	0.5	0.65	0.75	0.88	1	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2	2.13

XWS WATER SEPARATOR

Remove bulk water from your compressed air or gas system

Bulk water, which exists in air or compressed gas systems, causes corrosion of piping, damage to valves, cylinders, pneumatic tools and machinery, and reduces the effectiveness of aftercoolers/heat exchangers.

Over 99% of bulk water can be easily and economically removed by installing a type XWS Water Separator. Your compressed air and gas system will operate much more efficiently with reduced downtime and maintenance costs. This upgrade will also improve the effectiveness of aftercoolers, refrigerant dryers, filters and other downstream equipment.

Options:

- Automatic float drain
- External electronic drain
- High pressure versions
- Stainless steel construction

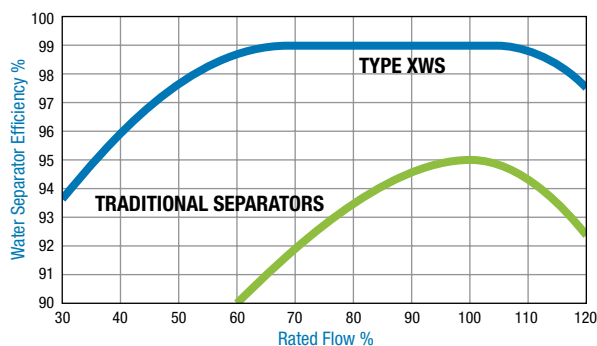
Benefits:

- 99% efficiency
- Maintenance-free
- High flow rates
- Very low differential pressure
- Removes upstream rust and pipe scale

XWS Water Separator



Type XWS – High Efficiency Over Wide Flow Range



FSX Series XWS Water Separator

Water Separator Model	Flow Capacity @ 100 psig / 7 bar g		Inlet/Outlet Connection 150# Flg	Drain Connection NPT	A		B		C		Design Pressure		Weight	
	scfm	Nm ³ /hr			inch	inch	in	mm	in	mm	in	mm	psig	bar g
03	1700	2685	3	1	14	356	37	940	7 3/4	197	260	17.9	120	54
04	2100	3317	4	1	18	457	44 1/4	1124	11 3/8	289	260	17.9	155	68
06	3800	6002	6	1	24	610	52	1321	14	356	260	17.9	280	125
08	6300	9951	8	1	29	737	57	1448	14	356	260	17.9	460	205
10	10000	15795	10	1	33	838	60	1524	15	381	260	17.9	600	270

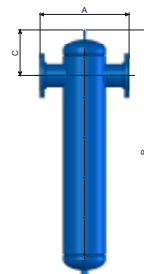


Table B Pressure conversion table (divider)

Line	bar g	1	3	5	7	9	11	13	15	17
	psig	15	44	73	100	131	160	189	218	247
Correction Factor		0.5	0.71	0.87	1.00	1.12	1.22	1.32	1.41	1.50

Steps to selecting correct separator size:

1. Determine flow and minimum operating pressure
2. Convert minimum operating pressure as per Table B
3. Use formula to calculate separator capacity required: flow (scfm) ÷ conversion factor (f)
4. Use calculated flow to select separator size

Example:

1. Flow 3262 scfm @ 73 psig
2. 73 psig = 0.87 factor
3. 3262 scfm ÷ 0.87 = 3749
4. 3749 = XWS06FSX18

ENGINEERED FLANGED FILTERS

Wide Range of Accessories Available

Xebec offers a full range of replacement parts for filter repairs and maintenance:

Zero Loss Drains



Differential Pressure Switches



Float Drains



Differential Pressure Gauges



Automatic Timed Drains



Pressure Gauges



Xebec filtration solutions include:

- Air and gas filters
- High pressure filters
- Stainless steel process filters
- Landfill and biogas filters
- Replacement filter elements and accessories



Committed to first class customer service.

Call Toll-Free: 1-877-GO-XEBEC

Email: sales@xebecinc.com

Xebec stands behind the service, spare parts and technical support needed to ensure the most complete and effective solution for every installation throughout the world.

Xebec **custom designs, develops, builds and services** engineered **adsorption and filtration solutions** for **industrial air & gas purification and separation applications**.

Xebec engineers draw from **forty years experience** and over 7,000 delivered adsorption systems worldwide, making us **"The #1 Adsorption Technology Company"** in the adsorption business.

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