

SULLAIR FILTRATION & MIST ELIMINATION

Activated Carbon; Coalescing; Particulate; High Pressure; High Temperature; Mist Elimination



AUTHORIZED DISTRIBUTOR



THE IMPORTANCE OF Reliable filtration

Contaminants are introduced at various stages of the air compression cycle. Removing these contaminants is vital to help ensure part quality, avoid machine damage and protect employees.

Sullair filters reliably help remove contaminants plus humidity and oil from the compressed air stream.

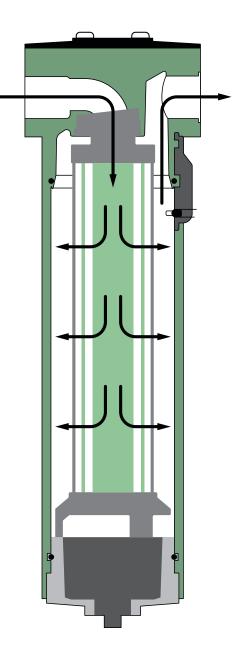
How?

Compressed air enters the filter housing inlet. The inlet design helps optimize air flow as compressed air moves into the physical medium of a filter element.

Then, untreated compressed air passes through filter material designed for retention of particles such as liquid oil, oil aerosols, dirt and scale.

Finally, the treated, clean compressed air flows downstream to other inline components or point-of-use.

Removed condensate moves from the treated air to be easily drained.



SULLAIR FILTRATION SERIES

Sullair filters are built for reliable operation and designed to help you save money.

- Engineered for energy efficiency helps reduce operating costs
- Durable housing construction for corrosion resistance
- Broad filtration from general purpose to highly stringent applications
- Optimized air flow design to help increase efficiency and reduce pressure loss
- Built for safe and easy maintenance



SULLAIR FILTRATION			THREADED	FILTERS			FLAM	IGE FILTERS	
		SX SERIES		FH SERIES	FXFRHT		SX SERIES		FWFRHT
Filter Type	Coalescing	Particulate	Activated High Particulate Coalescing Particulate Carbon Pressure High Temperature Coalescing Particulate Carbon		Particulate High Temperature				
Flow Rates scfm	25–1900		60–1750	25–1600	1900–21,000			1500–17,700	
Max Operating Pressure psig		232		725	290	232			290
Max Operating Temperature °F		140		176	350		140	140	
Standard Connection	3⁄8″–3″ NPT			1⁄4″21⁄2″ NPT	1⁄2"-3" NPT		4"-12" ANSI Flange		3"-14" ANSI Flange
Housing Material	Anodized	Anodized, Powder-Coated Aluminum		Aluminum	Diecast Aluminum	Powe	der-Coated Carbon	Steel	Steel
Drains	Float Drain	Manua	al Drain	Manual Drain	Manual Drain	SULLIMAX™ Ze	ero Air Loss Drain	Manual Drain	External Float Drain

SULLIMAX™ Zero Loss Drain optional on SX Series Threaded Coalescing units



SULLAIR ELM MIST ELIMINATORS

Sullair ELM Series Mist Eliminators are engineered for reliable performance in varying load conditions, long service life and to stand up to harsh environments — all while ensuring extremely low pressure drop.

Sullair ELM Series Helps You Save Energy

ELM Series Mist Eliminators have a .05 psi pressure drop — 4 psi lower than conventional filters.

Generally, reducing pressure drop by 2 psi saves 1% in compressor energy consumption.

4 psi = 2% compressor power savings

Annual Energy Savings on 100 hp System

\$0.05/kWh x 8760 hours x 74.6 kW x 2% = \$653

\$0.08/kWh x 8760 hours x 74.6 kW x 2% = \$1046

\$0.10/kWh x 8760 hours x 74.6 kW x 2% = \$1307

Annual energy savings based on assumptions of normal operating conditions. Your results may vary

Element

- Ultra-low differential pressure—.05 psi
- High load factor compared to conventional hand-packed media
 - 9–10x greater surface area, dirt holding capacity and pressure drop
- Special machine pleated element construction
 - Increases stability under changing loads
 - Reduces specific surface tension

Frame

- Engineered to stand up to harsh environments
 - Strong stainless steel support sleeve construction helps eliminate rust and corrosion

DESIGNED FOR A LONGER SERVICE LIFE

ADDITIONAL SULLAIR AIR TREATMENT SOLUTIONS



SULLAIR COMPRESSED AIR DRYERS Refrigerated; desiccant



SULLIPRO[™] & SP OIL/WATER SEPARATORS

Visit Sullair.com for more information.

ABOUT Sullair

For more than 50 years, Sullair has been on the leading edge of compressed air solutions. We were one of the first to execute rotary screw technology in our air compressors, and our machines are famous all over the world for their legendary durability. As the industry moves forward, Sullair will always be at the forefront with quality people, innovative solutions, and air compressors that are built to last.

Sullair was founded in Michigan City, Indiana in 1965, and has since expanded with a broad international network to serve customers in every corner of the globe. Sullair has offices in Chicago and manufacturing facilities in the United States and China — all ISO 9001 certified to ensure the highest quality standards in manufacturing. In addition, Sullair Suzhou and Shenzhen facilities are ISO 14001 and OHSAS 18001 certified.

Sullair is A Hitachi Group Company

RELIABILITY. DURABILITY. PERFORMANCE.

These are the pillars that drive the quality of Sullair compressed air solutions. It's a promise we keep with every machine we make.

RELIABILITY

Customers who work with Sullair have found that the intangibles make all the difference — things like trust, confidence, and peace of mind. They go to work every day having full faith in their equipment, as well as the knowledge that dedicated distributors and Sullair personnel have their back every step of the way.

DURABILITY

Bulletproof. Built to last. However you spin it, Sullair compressed air solutions are in it for the long haul, driven by innovative designs pioneering the air treatment industry. And ready to stand the test of time.

PERFORMANCE

Sullair is constantly innovating to improve our compressed air solutions. For our compressed air treatment line, this means more energy efficiency. With air treatment being a vital part of your entire compressed air system, Sullair is committed to helping you protect your equipment and manage your operating expenses.

SX SERIES THREADED FILTERS

SULLAIR

				Dimensions &	Weight	
Flow Rate (scfm)	Connection Size (NPT)	Available Element Types	Width <i>Top of Housing</i> (in)	Housing Height Includes Gauge & Float Drain (in)	Housing Height Includes Gauge & Zero Loss Drain (in)	Weight (Ibs)
25	3/8″		2.95	10.75	17.15	1.65
30	1⁄2″		2.95	10.75	17.15	1.65
50	1⁄2″		2.95	11.93	18.33	1.87
80	1⁄2″		2.95	14.1	20.49	2.65
100	3⁄4″		3.94	14.69	21.08	3.75
125	1″		3.94	14.69	21.08	3.75
160	1″		3.94	17.44	23.84	4.63
200	1″	Coarse	3.94	18.82	25.22	4.85
250	1½″	Fine	5.75	17.68	24.43	9.04
330	1½″	Superfine	5.75	19.76	26.52	9.92
450	1½″	Activated Carbon	5.75	21.73	28.49	11.24
500	2″		5.75	21.73	28.49	11.24
600	2″		5.75	25.55	32.3	13.44
800	2″		5.75	30.2	36.95	15.65
1000	21⁄2″		10.24	29.41	36.44	43.87
1300	21⁄2″		10.24	33.5	40.53	49.82
1500	3″		10.24	38.23	45.26	57.1
1900	3″		10.24	44.06	51.18	65.92

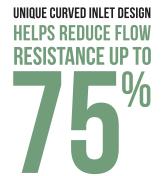
Element Types						
Element Type Designator	Element Type	Package Description	Micron Rating (µm)	Oil Carryover (mg/m³)	Dry ∆ Pressure (psig)	Wet Δ Pressure (psig)
CS	Coarse	Coarse Filter	25	5	0.44	0.73
F	Fine	General Purpose Filter	1	0.1	0.73	1.9
Н	Superfine	Oil Removal Filter	0.01	0.01	0.87	1.7
С	Activated Carbon Element	Activated Carbon Filter	0.01	0.003	—	1.02

Correction Factors														
Operating Pressure (psig)	20	40	60	80	90	100	110	120	130	140	160	180	200	230
Correction Factor	0.3	0.48	0.65	0.82	0.91	1	1.09	1.17	1.26	1.35	1.52	1.7	1.87	2.13

Validated in accordance with ISO 12500-1 and 3 CRN certified Max operating pressure: 232 psig Max operating temperature: 140°F Standard Features: Versatile housing connections Simple, push-fit element design High-pitch safety alarm Differential pressure gauge (Not available on activated carbon units) Float drain (Manual drain ball valve standard on activated carbon units)

Options:

SULLIMAX™ Zero Air Loss Drain (Not available on activated carbon units)







SX SERIES PARTICULATE THREADED FILTERS

				Dimensions & Weight		
Flow Rate (scfm)	Connection Size (NPT)	Available Element Types	Width — <i>Top of Housing</i> (in)	Housing Height (in)	Weight (lbs)	
25	3⁄8″		2.95	10.44	1.65	
30	1/2″		2.95	10.44	1.65	
50	1⁄2″		2.95	11.62	1.87	
80	1⁄2″		2.95	13.78	2.65	
100	3⁄4″		3.94	14.37	3.75	
125	1″		3.94	14.37	3.75	
160	1″		3.94	17.13	4.63	
200	1″		3.94	18.51	4.85	
250	1½″	Fine	5.75	17.72	9.04	
330	1½″	Fine	rine	5.75	19.81	9.92
450	1½″		5.75	21.78	11.24	
500	2″		5.75	21.78	11.24	
600	2″		5.75	25.59	13.44	
800	2″		5.75	30.24	15.65	
1000	21⁄2″		10.24	29.73	43.87	
1300	21⁄2″		10.24	33.02	49.82	
1500	3″		10.24	38.55	57.1	
1900	3″		10.24	44.47	65.92	

Element Types						
Element Type Designator	Element Type	Package Description	Micron Rating (µm)	Oil Carryover (mg/m³)	Dry Δ Pressure (psig)	Wet Δ Pressure (psig)
F	Fine	Reverse Flow GP Filter	1	0.1	0.73	1.9

Correction Factors														
Operating Pressure (psig)	20	40	60	80	90	100	110	120	130	140	160	180	200	230
Correction Factor	0.3	0.48	0.65	0.82	0.91	1	1.09	1.17	1.26	1.35	1.52	1.7	1.87	2.13

Validated in accordance with ISO 12500-1 and 3 CRN certified

Max operating pressure: 232 psig

Max operating temperature: 140°F

Standard Features:

Versatile housing connections Simple, push-fit element design High-pitch safety alarm

Manual drain ball valve

UNIQUE CURVED INLET DESIGN HELPS REDUCE FLOW RESISTANCE UP TO 7500





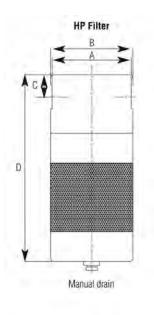
FH SERIES HIGH PRESSURE THREADED FILTERS

				Dim	ensions & Weight		
Flow Rate (scfm)	Connection Size (NPT)	Available Element Types	Dimension A (in)	Dimension B (in)	Dimension C (in)	Dimension D (in)	Weight (Ibs)
60	1⁄4″		4.46	4.54	1.01	6.1	7
175	1⁄2″		4.46	4.54	1.01	6.24	7
350	3⁄4″		4.3	4.54	1.26	8.14	9
500	1″	Fine	5.23	5.43	1.47	9.84	14
700	1″	Superfine Activated Carbon	5.23	5.43	1.47	12.36	18
950	1½″		5.03	5.43	1.74	14.48	21
1500	2″		5.7	6.22	2.02	15.47	25
1750	2½″		6.29	7	2.26	15.19	28

Element Types						
Element Type Designator	Element Type	Package Description	Micron Rating (µm)	Oil Carryover (mg/m³)	Dry ∆ Pressure (psig)	Wet ∆ Pressure (psig)
F	Fine	General Purpose Filter	1	0.5	0.6	1.2
Н	Superfine	Oil Removal Filter	0.01	0.01	1.2	2.3
С	Activated Carbon Element	Activated Carbon Filter	0.01	0.003	2.3	2.3

Correction Factors							
Operating Pressure (psig)	290	363	435	508	580	653	725
Correction Factor	0.63	0.07	0.78	0.83	0.9	0.95	1

Validated in accordance with ISO 8573-1 ASME certified CRN certified Manual drain ball valve Max operating pressure: 725 psig Min operating temperature: 36°F Max operating temperature: 176°F







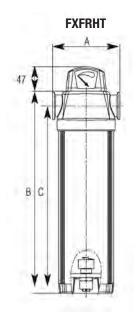
FXFRHT SERIES PARTICULATE HIGH TEMPERATURE THREADED FILTERS

				Dimension	s & Weight	
Flow Rate (scfm)	Pipe Size (ANSI)	Available Element Types	Dimension A (in)	Dimension B (in)	Dimension C (in)	Weight (lbs)
25	1/2″		4	8	7	3
45	1/2″		4	10	9	3
65	3⁄4″		5	10	11	4
130	1″		5	15	14	6
240	1½″		5	19	17	7
350	1½″	Fine	5	21	19	8
475	2″		6	24	22	12
700	2″		6	27	25	12
925	3″		8	29	21	23
1350	3″		8	29	27	26
1600	3″		8	42	40	27

Element Type						
Element Type Designator	Element Type	Package Description	Micron Rating (µm)	Oil Carryover (ppm)	Dry Δ Pressure (psig)	Wet Δ Pressure (psig)
F	Fine	Reverse Flow GP Filter	1	0.5	0.6	1.2

Correction Factors														
Operating Pressure (psig)	25	40	50	60	75	90	100	110	125	140	150	160	175	200
Correction Factor	0.49	0.62	0.69	0.76	0.86	0.95	1	1.04	1.1	1.17	1.21	1.25	1.31	1.4

Validated in accordance with ISO 8573-1 ASME certified CRN certified Differential pressure gauge Manual drain ball valve Max operating pressure: 290 psig Min operating temperature: 36°F Max operating temperature: 350°F







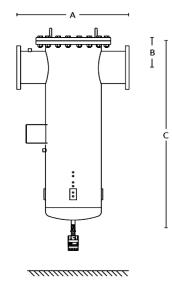
SX SERIES

			Dimensions & Weight							
Flow Rate (scfm)	Pipe Size (ANSI)	Available Element Types	Dimension A (in)	Dimension B (in)	Dimension C (in)	Dimension D (in)	Weight (lbs)			
1900	4″		21.25	6.88	47	13	195			
2800	4″	Coarse	21.25	7.13	47.38	18	266			
3800	6″		23.5	8	46.88	18	283			
6500	6″	Fine	23.75	5.25	50.38	18	328			
7500	8″	Superfine	28	9.5	53	18	534			
9300	8″	Activated Carbon	30.31	9.75	56.34	18	623			
13,000	10″		34.65	9.88	60.18	18	727			
21,000	12″		38.98	10.87	64.26	18	825			

Element Type						
Element Type Designator	Element Type	Micron Rating (µm)	Oil Carryover (mg/m³)	Dry ∆ Pressure (psid)	Wet ∆ Pressure (psid)	Approvals
CS	Coarse	25	5	0.44	0.73	ASME Coded
F	Fine	1	.1	0.73	1.9	Vessel with "UM"
Н	Superfine	.01	.01	0.87	1.7	stamp standard
С	Activated Carbon Element	.01	.003	1.45		(CRN optional)

Correction Factors													
Operating Pressure (psig)	20	40	60	80	90	100	110	120	130	140	160	180	200
Correction Factor	0.3	0.48	0.65	0.82	0.91	1	1.09	1.17	1.26	1.35	1.52	1.7	1.87

SULLIMAX[™] Zero Loss Drain (Manual drain ball valve standard on activated carbon units) ASME certified Select models CRN certified Connection kit with differential pressure gauge (Not available on activated carbon units) Validated in accordance with ISO 12500 Max operating pressure: 232 psig Max operating temperature: 140°F



A Hitachi Group Company



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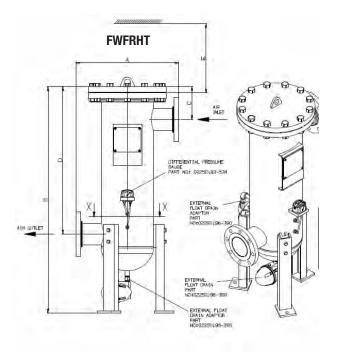
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FWFRHT SERIES PARTICULATE HIGH TEMPERATURE FLANGE FILTERS

					Dimensions & Weigh	nt		
Flow Rate (scfm)	Pipe Size (ANSI)	Available Element Types	Dimension A (in)	Dimension B (in)	Dimension C (in)	Dimension D (in)	Dimension E (in)	Weight (lbs)
1500	3″		17.7	51	11	29.5	25.5	230
1900	4″		17.7	52.2	11	30.3	25.5	246
2500	4″		20.9	53.2	11.1	30.4	25.5	324
3800	6″		22.8	56.4	13.1	31.4	25.5	450
5000	6″		25.6	57.1	13.25	31.56	25.5	580
6500	8″	Fine	29.5	59.6	14.5	32.6	25.5	752
8300	8″		31.5	60.7	15	32.7	25.5	866
10,000	10″		33.5	64	16.3	33.84	25.5	1148
12,400	12″		33.5	66	17.5	34.8	25.5	1214
15,000	14″		39.4	69.7	18.9	35.8	25.5	1716
17,700	14″		39.4	69.7	18.9	35.8	25.5	1730

Element Type						
Sullair Model Nomenclature	Element Type	Package Description	Micron Rating (µm)	Oil Carryover (mg/m³)	Dry Δ Pressure (psig)	Wet Δ Pressure (psig)
F	Fine	Reverse Flow GP Filter	1	0.5	0.6	1.2

ASME certified CRN certified External float drain Max operating pressure: 290 psig Max operating temperature: 350°F Differential pressure gauge Float drain







ELM SERIES MIST ELIMINATORS

		Dimensi	on Sizes				
Model	Inlet–Outlet Port Size (flange)	Width	Height	Min. Clearance for Element Change (in)	Drain Port Size (NPT)	Weight (lbs)	
	l'ortoizo (nango)	in	in				
ELM-150	2″	19.70	39.87	13	1/2″	250	
ELM-300	2″	19.70	43.87	17	1/2″	264	
ELM-600	2″	19.70	57.87	31	1/2″	304	
ELM-800	3″	19.70	65.27	37	1/2″	343	
ELM-1200	3″	23.60	60.17	31	1/2″	436	
ELM-1600	3″	23.60	66.17	37	1/2″	460	
ELM-2100	4″	27.56	62.42	31	1/2″	682	
ELM-2750	4″	27.56	68.42	37	1/2″	713	
ELM-4200	6″	31.50	65.67	31	1/2″	858	
ELM-6000	6″	31.50	75.67	41	1/2″	940	
ELM-8000	8″	33.50	79.42	41	1/2″	1188	
ELM-10,000	10″	39.40	83.47	41	1/2″	1642	
ELM-12,000	12″	39.40	105.92	61	1/2″	1914	

ASME certified CRN certified Pressure drop: .05 Micron rating: .01 µm Differential pressure gauge Float drain









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