

CIF SIERIES COMPRESSED AIR FILTRATION







COMPRESSED AIR FILTERS 20-21250 SCFM



FS-CURTIS WAS FOUNDED ON BOTH.

A HISTORY OF

1854

1857

1876

1897

1914

1940

1955

Curtis & Co. – Empire Saw founded in St. Louis, MO, USA Earned Agricultural and Mechanical Fair award for excellence and quality

Named Curtis and Co. Manufacturing Built first reciprocating air compressor that later evolved into the Master Line Series Supported U.S. Government efforts by producing more than 2 million Howitzer shell forgings Designed and developed mobile oxygen compressors to be used in Aerospace applications

Merged with U.S. Air Compressor Company, Central Petroleum Company, Lewis Machine Company



REAL-WORLD PEOPLE

When you're successful, we're successful. That's why FS-Curtis listens. Trust and dependability are the foundations of our past and the fabric of our future, so you can count on being treated with the personal touch you deserve.

"Trust and dependability are the foundations of our past and the fabric of our future."

~ Brent Becker – President, FS-Curtis



More than 150 years ago, the FS-Curtis way of doing business was established through two key commitments: a dedication to building quality products and a dedication to responsive customer service.

Over the decades, the company and its products have evolved through innovation and new technologies. But those commitments to quality and service remain unchanged. Today, just as in 1854, FS-Curtis customers can depend on our products for reliable, long-term service. Equally as important, they can depend on getting the same from our people.

EXCERENICE

1976

1979

1995

2005

2006

2010

Merged with Toledo Tools as Curtis-Toledo Inc.

Introduction of Challenge Air Series reciprocating air compressors Began manufacturing and assembling Rotary Screw Air compressors Expanded global market reach by joining forces with Fusheng Industrial U.S. Headquarters certified as ISO9001:2000 and ISO14001:2004

Introduced next generation GSV Variable Speed Rotary Screw compressors



REAL-WORLD PRODUCTS

Take more than a century of experience building quality compressors, add in a staff that's listening to the needs of the market, and the result is a product lineup that's built for tough working conditions. No wonder so many customers around the world depend on FS-Curtis compressors day in and day out.

HIGH STANDARD OF PERFORMANCE



FS-Curtis CF series compressed air filtration further protects your investment with lower pressure drop.

Designed utilizing innovative air filtration media and manufacturing techniques, CF Series compressed air filters and elements from FS-Curtis increase performance and minimize pressure drop. The result is a savings in operating costs while further protecting your downstream process. Compact and efficient, CF Series filters and mist eliminators are built to FS-Curtis world-class quality standards with comprehensive third-party testing, including ISO and PNEUROP.

ISO 8573.1 QUALITY CLASSES

	Solid Particles - Maximum Numbers of Particles per m ³			Humidity and Liquid Water		Oil	
Class	Particle Size (micron)			Pressure Dew Point		Total concentration, Aerosol, Liquid, and Vapor	
	0.10 - 0.5	0.5 - 1.0	1.0 - 5.0	°C	°F	mg/m³	
0	As Specified			As Specified		≤ 0.01	
1	100	1	0	≤ -70	≤ -94	≤ 0.1	
2	100,000	1,000	10	≤ -40	≤ -40	≤ 1	
3	-	10,000	500	≤ -20	≤ -4	≤ 5	
4	-	-	1,000	≤ +3	≤ +38		
5	-	-	20,000	≤ +7	≤ +45		
6				≤ +10	≤ +50		

THE PERFECT FILTER FOR YOUR APPLICATION



CF FILTERS (20-21250 SCFM)

With a choice of seven filtration grades, you can design a filter system that delivers the air quality you need with the efficient performance you desire. Operation and maintenance are a breeze, and the long-lasting filter life and low pressure drop give you outstanding performance.

- · Low pressure drop delivers energy savings
- Piston-type element to housing seal keeps unfiltered air from bypassing the element
- · Corrosion-resistant cores
- With a large, effective surface area, the "Matrix-blended fiber" media improves capture rate and ensures high efficiency
- Coated, closed-cell foam sleeve resists chemical corrosion from oils and acids



CFH HIGH-TEMPERATURE FILTERS

(100-11400 SCFM)

For high inlet temperature applications, such as a reciprocating compressor without an aftercooler, the CFH filters has you covered. Able to handle temperatures up to 450° F, CFH filters feature efficient operation and a low pressure drop for reduced operating costs.

- · High dust-loading capacity
- Three filtration techniques maximize cartridge life
- Removes solid particles one micron and larger



CFE MIST ELIMINATORS (125-3000 SCFM)

Enjoy the peace of mind of extra protection for your system. FS-Curtis CFE mist eliminators cut energy costs while removing oil and water aerosols from compressed-air systems.

- Captures large slugs of oil and water for extra protection should compressor's drain trap fail
- Long-life mist eliminator element lasts 8 to 15 years
- 0.5 to 1 psi pressure drop reduces energy consumption
- Superior installation flexibility thanks to a variety of inlet positions for easy adaption to your piping arrangement
- · Heavy-duty ASME pressure vessel
- · Floor stand
- · Dedicated vent port for demand-type drains







TECHNICAL DATA

CF COMPRESSED AIR FILTERS

"X" represents the filter grade, refer to the "Choose From Seven Filtration Grades" chart below when ordering the corresponding filter.

MODELS	Max. Flow @ 100 psig (scfm)	INLET/OUTLET (npt. male)	MAX. PRESSURE @ 150°F WITH MANUAL DRAIN (psi)	DIMENSIONS (WxH-In.)	WEIGHT (Lbs.)				
Modular type housings									
CF(X)-12	20			4 x 8	4.2				
CF(X)-16	35	3/8" NPT or 1/2" NPT		4 x 11	8.1				
CF(X)-20	60			4 x 13	8.5				
CF(X)-24	100	3/4" NPT or 1" NPT	300	5 x 15	6.3				
CF(X)-28	170	3/4 NPT 01 1 NPT		5 x 20	6.9				
CF(X)-32	250	1" NPT or		6 x 23	10.2				
CF(X)-36	375	1 1/4" NPT		6 x 27	11.3				
CF(X)-40	485	2" or 2 1/2" NPT		8 x 31	28				
CF(X)-44	625	0.4/E# NDT		8 x 37	33				
CF(X)-48	780	2 1/5" NP1	2 1/5" NPT	8 x 43	38				
		ASME stam	ped pressure vessels						
CF(X)-52	625	3" NPT or	300	10 x 41	37				
CF(X)-54	1,000		3" NPT or DN 80 Flange 3" NPT 4" ANSI Flg.	16 x 48	93				
CF(X)-56	1,250	DIN 60 Flatige			93				
CF(X)-60	1,875	3" NPT		16 x 49	123				
CF(X)-64	2,500	All ANCLEIA		20 x 52	185				
CF(X)-68	3,125	4" ANSI FIG.			189				
CF(X)-72	5,000		225	24 x 55	285				
CF(X)-76	6,875	6" ANSI Flg.		00 00	537				
CF(X)-80	8,750			28 x 63	599				
CF(X)-84	11,875	OII ANIOI EL-		33 x 69	742				
CF(X)-88	16,250	8" ANSI Flg.		39 x 68	936				
CF(X)-92	21,250	10" ANSI Flg.		46 x 71	1471				

Use the corresponding number to fill in the "X" in the model number above

CHOOSE FROM SEVEN FILTRATION GRADES

You can design a filter system that delivers the air quality you need with the efficient performance you desire.

Air Quality / Pressure Drop Data								
GRADE	ELEMENT TYPE	SOLID PARTICLES (Micron)	REMAINING OIL CONTENT (PPM by Weight)	PRESSURE DROP AT RATED CONDITIONS (psig)		APPLICATIONS AND SPECIFICATION		
		((i i iii by woight)	Dry	Wet			
11	Moisture Separator	10	-	0.8	0.8	Bulk liquid		
9	Separator	3	5	1	1.5	Large liquid particles		
7	General Purpose Filter	1	1	1	2	Tools, motors, cylinders		
6	Dry Particulate Filter	1	-	1	-	Pipeline protection from abrasive desiccant dust		
5	High Efficiency Oil Removal Filter	0.01	0.008	1	3	Painting, injection molding, instruments, control valves		
3	Ultra High Efficiency Oil Removal Filter	0.01	0.0008	2	6	Where air contacts product, conveying, electronics manufacturing, nitrogen replacement		
1	Oil Vapor Removal Filter	0.01	0.003	1	N/A	Food and drug manufacturing, gas processing		

THE NAME TO KNOW IS FS-CURTIS.

For a complete selection of top-quality, reliable air compressors, dryers and accessories, the only name you need to remember is FS-Curtis.





CFH HIGH TEMPERATURE COMPRESSED AIR FILTER

MODELS	Max. Flow @ 100 psig (scfm)	INLET/OUTLET ¹ (npt. male)	MAX. PRESSURE @ 450°F (psi)	DIMENSIONS (WxH-In.)	WEIGHT (Lbs.)
CFH100	100	1" NPT	250	4 x 14	13
CFH200	200	INFI		4 x 24	19
CFH400	400			10 x 40	97
CFH600	600	3" NPT 4" ANSI Flg.		10 X 40	97
CFH1200	1,200			16 x 41	159
CFH1800	1,800			16 x 43	219
CFH2400	2,400		165	20 x 55	236
CFH3000	3,000				239
CFH4800	4,800			24 x 53	319
CFH6600	6,600	6" ANSI Flg.		28 x 62	548
CFH8400	8,400				548
CFH11400	11,400	8" ANSI Flg.		33 x 68	772

Pressure drop: At rated flow conditions pressure drop will be less than 1 psig. Pressure drop will increase only as the filter cartridges become loaded with solid particles. Filter cartridge replacement: Filter cartridges should be replaced annually or, when pressure drop across the cartridge exceeds acceptable differential pressure. Maximum temperature: 450°F

CFE MIST ELIMINATOR

¹ BSP connections and DIN Flanges are available.

MODELS	Max. Flow @ 100 psig (scfm)	INLET/OUTLET ¹ (npt. male)	MAX. PRESSURE @ 150°F (psi)	DIMENSIONS (WxH-In.)	WEIGHT (Lbs.)	
CFE125	125	2" NPT	OII NIDT		17 x 40	194
CFE250	250			17 X 40	200	
CFE500	500	2 1/2" NPT		18 x 52	231	
CFE1100	1,100	4" ANSI FIg.	150	26 x 77	368	
CFE1500	1,500			27 x 85	410	
CFE2100	2,100			33 x 94	735	
CFE2400	2,400				751	
CFE3000	3,000				767	

Maximum operating temperature: 150°F

1 BSP connections and DIN Flanges are available.

CAPACITY CORRECTION FACTORS To find the maximum flow at pressures other than 100 psig, multiply the Max. Flow (from table below) by the Correction Factor corresponding to the minimum pressure at the inlet of the filter. **CORRECTION FACTORS (MULTIPLIERS) FOR INLET PRESSURE** Minimum Inlet Pressure (psig) 20 30 40 60 80 100 120 150 200 250 300 **Correction Factor** 0.30 0.39 0.48 0.65 0.82 1.00 1 17 1 43 1.87 2.31 2.74

^{*} Do not select filters by pipe size; use flow rate and operating pressure.



CURTIS-TOLEDO®, INC.

1905 KIENLEN AVENUE | ST. LOUIS, MO 63133 314-383-1300 OR 800-925-5431 WWW.FSCURTIS.COM | INFO@FSCURTIS.COM CF LITERATURE: CF0912R1 Improvements and research are continuous at FS-Curtis. Specifications may change without notice.

ISO 9001 ISO 14001

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