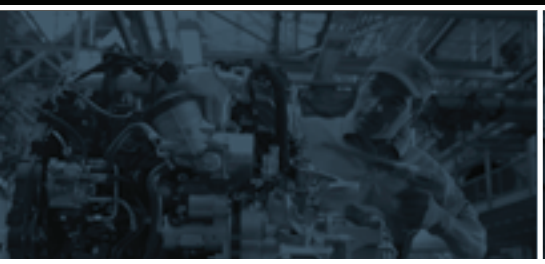
THERMAL PRODUCTS Inc.

FSCURTIS

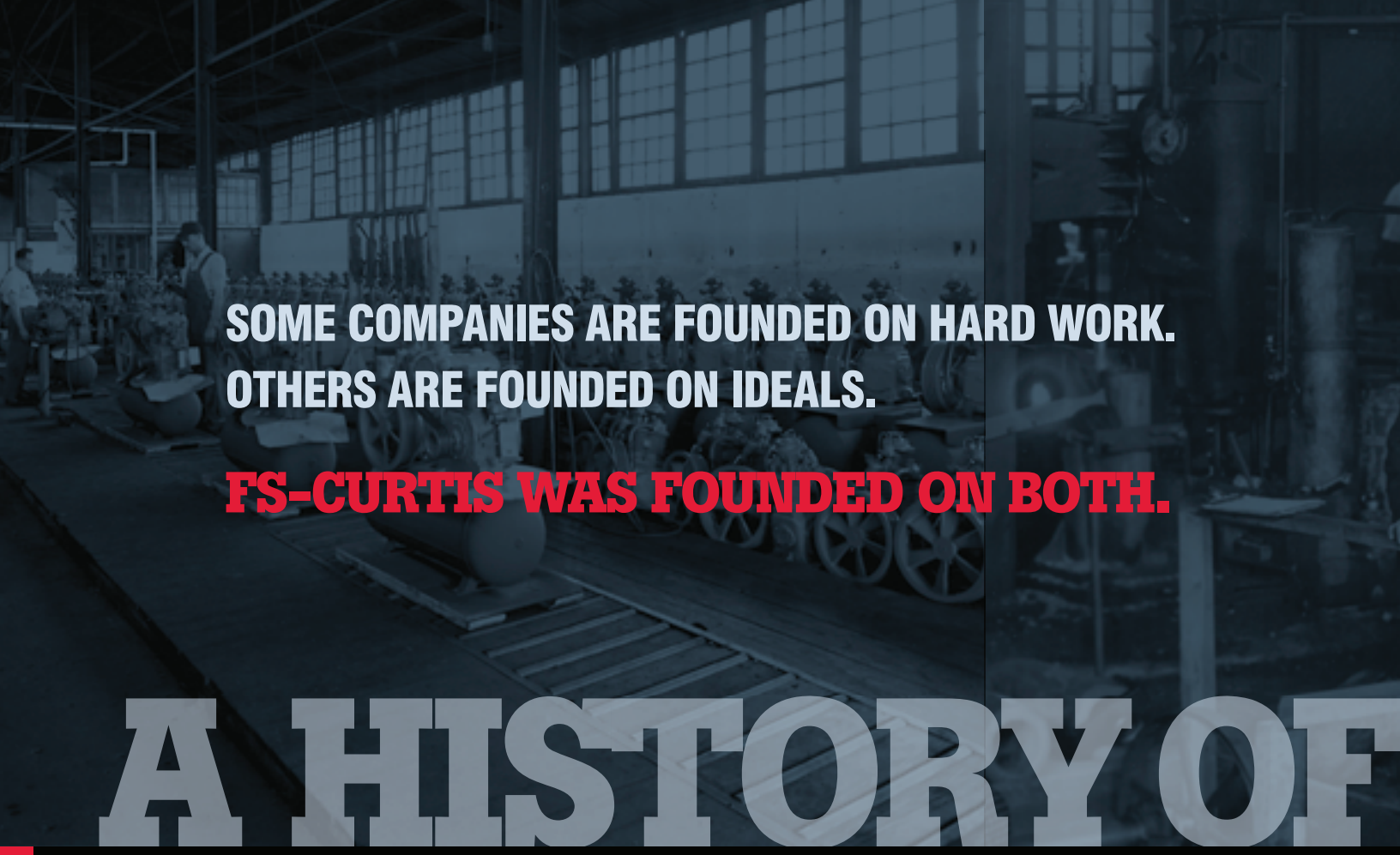
CF SERIES

COMPRESSED AIR FILTRATION



COMPRESSED AIR FILTERS
20-21250 SCFM

Thermal Products, Inc. / **Phone:** (518) 877-0231 / **Email:** sales@thermalproducts.com / **Website:** www.thermalproducts.com



SOME COMPANIES ARE FOUNDED ON HARD WORK.
OTHERS ARE FOUNDED ON IDEALS.

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.

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.

EXCELLENCE

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.

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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

Class	Solid Particles - Maximum Numbers of Particles per m^3			Humidity and Liquid Water		Oil
	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/m^3
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	

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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	3/8" NPT or 1/2" NPT	300	4 x 8	4.2
CF(X)-16	35			4 x 11	8.1
CF(X)-20	60			4 x 13	8.5
CF(X)-24	100	3/4" NPT or 1" NPT		5 x 15	6.3
CF(X)-28	170			5 x 20	6.9
CF(X)-32	250	1" NPT or 1 1/4" NPT		6 x 23	10.2
CF(X)-36	375			6 x 27	11.3
CF(X)-40	485	2" or 2 1/2" NPT		8 x 31	28
CF(X)-44	625	2 1/5" NPT		8 x 37	33
CF(X)-48	780			8 x 43	38
ASME stamped pressure vessels					
CF(X)-52	625	3" NPT or DN 80 Flange	300	10 x 41	37
CF(X)-54	1,000		225	16 x 48	93
CF(X)-56	1,250				93
CF(X)-60	1,875	3" NPT		16 x 49	123
CF(X)-64	2,500	4" ANSI Flg.		20 x 52	185
CF(X)-68	3,125				189
CF(X)-72	5,000	6" ANSI Flg.		24 x 55	285
CF(X)-76	6,875			28 x 63	537
CF(X)-80	8,750				599
CF(X)-84	11,875	8" ANSI Flg.		33 x 69	742
CF(X)-88	16,250			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
				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			4 x 24	19
CFH400	400	3" NPT	165	10 x 40	97
CFH600	600				97
CFH1200	1,200			16 x 41	159
CFH1800	1,800			16 x 43	219
CFH2400	2,400	4" ANSI Flg.		20 x 55	236
CFH3000	3,000				239
CFH4800	4,800	6" ANSI Flg.		24 x 53	319
CFH6600	6,600			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
[1] BSP connections and DIN Flanges are available.

CFE MIST ELIMINATOR

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	150	17 x 40	194
CFE250	250				200
CFE500	500	2 1/2" NPT		18 x 52	231
CFE1100	1,100	4" ANSI Flg.		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.