



COMPRESSED AIR FILTRATION 23~1645 CFM





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

FS-CURTIS WAS FOUNDED ON BOTH.

More than 160 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.

A HISTORY OF EXCELLENCE

1854

Curtis & Co. –
Empire Saw
founded in St.
Louis, MO, USA

1857

Earned Agricultural
and Mechanical Fair
award for excellence
and quality

1876

Named Curtis
and Co.
Manufacturing

1897

Built first
reciprocating
air compressor
that later evolved
into the Master
Line Series

1914

Supported U.S.
Government efforts
by producing more
than 2 million Howitzer
shell forgings

1940

Designed and
developed
mobile oxygen
compressors to be
used in Aerospace
applications

1955

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

1976

Merged with
Toledo Tools as
Curtis-Toledo Inc.

1979

Introduction
of Challenge
Air Series
reciprocating
air compressors

1995

Began manufacturing
and assembling
Rotary Screw Air
compressors

2005

Expanded global
market reach by
joining forces
with Fusheng
Industrial

2006

U.S. Headquarters
certified as
ISO9001:2000 and
ISO14001:2004

2010

Introduced next
generation GSV
Variable Speed
Rotary Screw
compressors

2015

Introduced Nx
series Fixed and
Variable Speed
Rotary Screw
compressors

2016

Nx Series named
Plant Engineering's
2015 Product of the
Year - Gold Award for
Compressed Air

2017

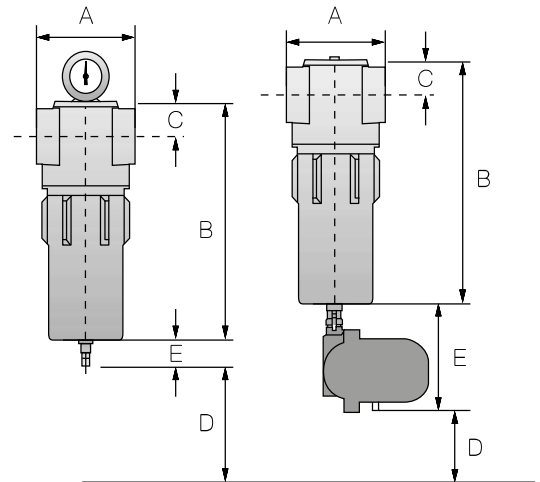
Nx Series
claims Plant
Engineering's
Product of the
Year - Gold Award
2nd year in a row

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 .



ISO 8573-1 : 2010 QUALITY CLASS

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<d≤0.5	0.5<d≤1.0	1.0<d≤5.0	°C	°F	mg/m ³
0	As Specified			As Specified		As Specified
1	≤20 000	≤400	≤10	≤ -70	≤ -94	≤ 0.01
2	≤400 000	≤6 000	≤100	≤ -40	≤ -40	≤ 0.1
3	-	≤90 000	≤1 000	≤ -20	≤ -4	≤ 1
4	-	-	≤10 000	≤ +3	≤ +38	≤ 5
5	-	-	≤100 000	≤ +7	≤ +45	
6				≤ +10	≤ +50	



TECHNICAL DATA

PRODUCT SELECTION & TECHNICAL DATA

Filter Model	Pipe Size	Capacity at 7 bar g		Max Operating Pressure (bar g)	Approx. weight (kg)	Dimensions(mm)					Replacement Element Model
		m³/min	cfm			A	B	C	D	E	
CF05	G 1/2	0.66	23	16	1.34	85	154	24	60	41	FE(x)05
CF08	G 1/2	0.96	34		1.45	85	195	24	75	41	FE(x)08
CF10	G 1/2	1.32	47		1.46	85	195	24	90	41	FE(x)10
CF15	G 3/4	1.98	70		1.72	85	255	24	90	41	FE(x)15
CF20	G1	3.30	116		4.1	132	285	43	135	41	FE(x)20
CF40	G1 1/2	5.70	201		4.52	132	385	43	235	41	FE(x)40
CF60	G1 1/2	9.00	318		5.01	132	485	43	335	41	FE(x)60
CF75	G1 1/2	13.32	470		7.45	132	685	43	525	41	FE(x)75
CF125	G2	17.46	616		10.53	161	687	55	520	140	FE(x)125
CF175	G2 1/2	26.16	923		12.58	161	930	55	770	140	FE(x)175
CF250	G3	37.50	1324		29.15	252	975	79	610	140	FE(x)250
CF300	G3	46.62	1645		32.29	252	1057	79	760	140	FE(x)300

HIGH PRESSURE FILTER

Filter Model	Pipe Size	Capacity at 50 bar g		Max Operating Pressure (bar g)	Approx. weight (kg)	Dimensions(mm)					Replacement Element Model
		m³/min	cfm			A	B	C	D	E	
CF05-H5	G 1/2	1.49	52	50	1.34	85	151	24	60	108	FE(x)05-H5
CF08-H5	G 1/2	2.16	76		1.45	85	192	24	75		FE(x)08-H5
CF10-H5	G 1/2	2.77	105		1.46	85	192	24	90		FE(x)10-H5
CF15-H5	G 3/4	4.46	157		1.72	85	263	24	90		FE(x)15-H5
CF20-H5	G1	7.43	262		4.1	132	385	43	135		FE(x)20-H5
CF40-H5	G1 1/2	12.83	453		4.52	132	380	43	235		FE(x)40-H5
CF60-H5	G1 1/2	20.25	715		5.01	132	482	43	335		FE(x)60-H5

CAPACITY CORRECTION FACTOR FOR VARIOUS OPERATING PRESSURE

Pressure	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Factor	0.25	0.38	0.5	0.65	0.75	0.88	1.0	1.13	1.25	1.38	1.51	1.63	1.75	1.88	2.0	2.13

Filter Grade	Particle Removal Down To	Oil Removal Down To*	Nominal Initial Pressure Drop
P	3 micron	—	0.03 bar g
U	1 micron	0.1 mg/m³	0.05 bar g
H	0.01 micron	0.01 mg/m³	0.09 bar g
C	—	0.003 mg/m³	0.10 bar g

* at 20°C

- Maximum recommended operating temperature 60°C
- Minimum recommended operating temperature : 1°C
- Maximum recommended operating pressure : 16 bar g and 50 bar g
- Maximum recommended pressure differential for element change is 0.35 bar g. (Except Grade C)
- Material for CF threaded type filters is aluminium.
- Filters come complete with auto drain(16 bar) or manual drain (50 bar).

CF FILTERS FEATURES AND BENEFITS

A typical compressed air system is contaminated with abrasive solid particles such as dust, dirt, rust and pipe scale, compressor lubricants (mineral or synthetic), condensed water droplets and acidic condensates and oil and hydrocarbon vapors. If not removed, these contaminants increase pneumatic equipment maintenance costs, lead to instrument and control failure, contribute to poor product fit and finish and contaminate processes.

The right FS-Curtis filter or filter system will remove these contaminants allowing your compressed air system to deliver the quality of air required by your application; whether it's plant air, instrument air, or medical air—helping to ensure consistent output quality while minimizing operating costs.



A choice of Four Element Grades allows you to design a system that delivers the air quality you require:

Grade P

For coarse pre-filtration
Particle removal down to 3 micron

Grade U

For general filtration
Particle removal down to 1 micron.
Oil content down to 0.1 mg/m³ at 20°C

Grade H

For high performance filtration
Particle removal down to 0.01 micron.
Oil content down to 0.01 mg/m³ at 20°C

Grade C

Activated Carbon Filter
For removal of oil content down to 0.003 mg/m³ at 20°C
in conjunction with filter Grade H.





CONTINUED COMMITMENT

A company history that dates back more than 160 years is a company history that, to us, is just the beginning. FS-Curtis is committed to offering a world-class portfolio of products. Through the dependability of our people and our quality-focused manufacturing, FS-Curtis will continue to be the most trusted and dependable name in compressed air serving even more markets through our ever-growing global presence.

You can count on **FS-Curtis** to approach the next 160 years by staying true to the values and strengths that are appreciated by our customers today.

A WORLD OF DIFFERENCE

The FS-Curtis headquarters in St. Louis, Missouri, U.S.A. is the anchor of a larger global network. FS-Curtis builds quality products — and a quality reputation — at locations around the world.

In addition to our manufacturing and packaging locations, a large global network of sales agents and distributors ensures that sales and service support is available around the world, day in and day out.

ST. LOUIS, MO USA (HEADQUARTERS)

BANGALORE, INDIA | JUNDIAI, BRAZIL | OBERHAUSEN, GERMANY | SHANGHAI, CHINA | TAIPEI, TAIWAN | PITTSBURGH, PA USA (FS-ELLIOTT)
ZHONGSAN, CHINA | BEIJING, CHINA (FUSHENG) | ZHONGSAN, CHINA (FUSHENG) | HO CHI MINH CITY, VIETNAM (FUSHENG)



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