

CA SERIES

RECIPROCATING AIR COMPRESSORS 5-15HP





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

FS-CURTIS WAS FOUNDED ON BOTH.

More than 165 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



BUILT TO LAST



THE INDUSTRY WORKHORSE

For automotive, light industrial and other challenging applications, CA Series compressors are built to last. Components are selected based on durability and performance, ensuring that your CA Series compressor delivers reliable performance in demanding applications. Precision-machined components and a dedication to materials of construction that are meant for real world working conditions further assure long-term durability.



CA SERIES FEATURES AT A GLANCE

THE MOST DURABLE PUMP CONSTRUCTION AVAILABLE

Meticulous material selection ensures long-term reliability.

- 100% cast-iron cylinders and cylinder heads
- Long-lasting, corrosion-resistant crankshaft
- Reduces thermal stress for increased reliability
- Deep-finned cast-iron cylinders and cylinder head for cool operation
- Slow-turning pump increases pump life

INDUSTRIAL DESIGN

The most robust reciprocating air compressor in its class.

- Provides higher pressures, better efficiency and longer life
- Ready to handle rugged, heavy-duty applications

QUALITY COMPONENTS

For extended product life and continuous performance.

- Industrial-grade main roller bearings are precision fit for support of all rotating parts
- High-flow, heavy-duty stainless-steel valve system delivers more cfm per horsepower
- Robust intercooler increases compressor efficiency
- Metal intake filter/silencer is superior to plastic
- Heavy-duty stamped-steel belt guard
- Suction valve head unloaders for continuous running air compressors



SIMPLEX

Simplex compressors are well suited for common applications where only one compressor is needed.

- Magnetic motor starter
- Manual tank drain
- Oil sight glass
- Horizontal or vertical tank configurations available
- Factory oil filled



DUPLEX

Duplex compressors are ideal when there are varying demand levels during operation. By alternating demand across two pumps, a duplex compressor also delivers longer pump life. The redundant pumps ensure you'll always have air, eliminating maintenance downtime.

- Alternator control panel comes mounted with magnetic motor starters and thermal overload protection
- Compressors alternate during normal operation
- Both compressors run when system demands
- Duplex design reduces electrical cost and eliminates downtime
- Factory oil filled



GAS DRIVEN

Gas-driven models are ideal for applications that require air when electricity isn't readily available. FS-Curtis gas-driven models are perfect for fleet and service applications.

- Choose between Kohler or Honda engines
- Tank mount or base mount configurations
- OSHA-approved totally enclosed metal belt guard
- ASME-approved air receiver
- 12V DC starter with alternator
- Engine idle control

ULTRAPACK

CA Series compressors are already an outstanding value, and an FS-Curtis UltraPack gives you even more. An UltraPack includes a CA Series compressor fully packaged with the most common options and accessories. You'll save money and time by getting it all in one package, and you'll be assured of increasing air quality while reducing maintenance needs. Industry-leading five-year UltraShield warranty available — talk with your FS-Curtis representative for more details.

- Air-cooled aftercooler
- Magnetic motor starter (Simplex)
- Alternator panel (Duplex)
- Dual control (10-15HP Simplex)
- Low oil level shutdown
- Automatic tank drain
- Tank isolator pads
- Factory oil filled



TECHNICAL DATA

STANDARD FEATURES	STANDARD (Simplex/Duplex)	ULTRAPACK (Simplex/Duplex)	GAS DRIVEN
100% cast-iron cylinders and cylinder heads	•	•	•
Factory oil filled	•	•	•
Magnetic motor starter (Simplex)	•	•	
Alternator control panel complete with magnetic starters (Duplex)	•	•	
NEMA-designed electric motor	•	•	
Automatic start/stop control	•	•	
ASME-approved air receiver	•	•	•
Manual condensate tank drain valve	•	•	•
Dial read-out pressure gauge	•	•	•
U.L.-approved pressure switch	•	•	
ASME-approved safety valve	•	•	•
ASME-approved discharge valve	•	•	•
Metal intake filter/silencers	•	•	•
Dynamically balanced flywheel	•	•	•
OSHA-approved totally enclosed metal belt guard	•	•	•
Gasoline engine (Honda or Kohler)			•
Dual control (Simplex only)	0	•	
Air-cooled aftercooler	0	•	
Low oil level shutdown	0	•	
Automatic tank drain	0	•	
Tank isolator pads	0	•	0

o Optional Feature • Standard Feature ■ UltraPack Features

ULTRAPACK DELIVERS

There's no better compressor value than an FS-Curtis UltraPack. As you can see, you'll get every top-quality FS-Curtis feature. Plus, only UltraPack purchases come with an UltraShield 5-year warranty.





HIGH-QUALITY CONSTRUCTION

All critical components in the CA Series are selected and assembled for long-term performance. So you won't have to worry about the cylinders, cylinder heads, crankshaft, connecting rods or pistons wearing out before their time. Plus, stainless steel valves are included on all models. Just as important as the materials is the FS-Curtis standard for quality. All parts are manufactured to precision tolerances for high efficiency, powerful performance and years of service under demanding conditions.

ELECTRIC MODELS

MODELS	HP	PUMP	CYLINDERS	CFM (@175psi)	CONFIGURATION	STANDARD PACKAGE			ULTRAPACK*		
						TANK (Gal.)	DIMENSIONS (LxWxH-In.)	WEIGHT (lbs.)	TANK (Gal.)	DIMENSIONS (LxWxH-In.)	WEIGHT (Lbs.)
CA5+	5	E57	2	18.5 Simplex	Horizontal	80	69 x 24 x 47	510	80	67 x 29 x 51	575
					Vertical		36 x 25 x 74			39 x 32 x 77	
				37 Duplex	Horizontal	120	76 x 27 x 52	910	120	78 x 29 x 53	975
CA7.5	7.5	E57	2	23.2 Simplex	Horizontal	80	69 x 24 x 47	530	80	69 x 32 x 48	580
					Vertical		36 x 25 x 74			39 x 37 x 75	
				46.4 Duplex	Horizontal	120	76 x 28 x 52	930	120	78 x 31 x 53	995
CA10	10	E71	3	34.2 Simplex	Horizontal	120	74 x 26 x 53	940	120	74 x 37 x 54	1026
					Vertical		45 x 34 x 80			45 x 34 x 80	
				68.4 Duplex	Horizontal	120	90 x 30 x 53	1225	120	96 x 32 x 53	1311
CA15	15	E15	3	42.6 Simplex	Horizontal	120	74 x 28 x 57	1225	120	74 x 35 x 58	1311

*View features chart for UltraPack features.

GAS-DRIVEN MODELS

MODELS	HP	ENGINE	PUMP	CYLINDERS	TANK (Gal.)	CFM (@175psi)	DIMENSIONS (LxWxH-In.)	WEIGHT (Lbs.)
CA13-H*	13	Honda	E57	2	30	22	50 x 24 x 50	460
CA14-K*	14	Kohler	E57	2	30	22.5	50 x 24 x 43	486

*Available as base mount configuration





CONTINUED COMMITMENT

A company history that dates back more than 165 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 165 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)

PUNE, 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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Improvements and research are continuous at FS-Curtis. Specifications may change without notice.

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ISO 14001

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