

# CA SERIES

## RECIPROCATING AIR COMPRESSORS



**RECIPROCATING  
AIR COMPRESSORS  
5-15HP**



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

**FS-CURTIS WAS FOUNDED ON BOTH.**

# A HISTORY OF

**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



## 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.

# EXCELLENCE

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 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



## 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.

## 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.



# BUILT TO LAST



## 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



**AMERICAN  
CRAFTSMANSHIP  
ST. LOUIS, MO USA**

Compare CA Series compressors with any other brand, and you'll see the difference.



# THE PERFECT CHOICE

CA Series compressors aren't just built to handle harsh environments — they're also available in a wide range of configurations to meet your exact application. You'll get the rugged construction you desire in the configuration you need.



## 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
- OSHA-approved totally enclosed metal belt guard
- ASME-approved air receiver
- 12V DC starter with alternator
- Engine idle control

## ULTRA PACK

CA Series compressors are already an outstanding value, and an FS-Curtis Ultra Pack gives you even more. An Ultra Pack 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 bumper-to-bumper 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)	SIMPLEX/DUPLEX ULTRA PACK (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    ■ Ultra Pack Features

## ULTRA PACK DELIVERS

There's no better compressor value than an FS-Curtis Ultra Pack. As you can see, you'll get every top-quality FS-Curtis feature. Plus, only Ultra Pack purchases come with a 5-year "bumper-to-bumper" 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			ULTRA PACK*		
						TANK (Gal.)	DIMENSIONS (LxWxH-In.)	WEIGHT (lbs.)	TANK (Gal.)	DIMENSIONS (LxWxH-In.)	WEIGHT (Lbs.)
CA5	5	E50	3	17.4 Simplex	Horizontal	80	69 x 24 x 47	525	80	69 x 32 x 48	600
					Vertical		36 x 25 x 74			39 x 40 x 74	
CA5+	5	E57	2	18.5 Simplex	Horizontal	80	69 x 24 x 47	510	80	69 x 32 x 48	575
					Vertical		36 x 25 x 74			39 x 40 x 74	
				37 Duplex	Horizontal	120	78 x 27 x 52	910	120	84 x 30 x 54	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		35 x 25 x 74			39 x 36 x 74	
				46.4 Duplex	Horizontal	120	78 x 28 x 52	930	120	84 x 31 x 54	995
CA10	10	E71	3	34.2 Simplex	Horizontal	120	73 x 26 x 53	940	120	74 x 37 x 54	1026
					Vertical		43 x 31 x 79			43 x 36 x 80	
				68.4 Duplex	Horizontal	120	90 x 30 x 53	1225	120	96 x 33 x 55	1311
CA15	15	E15	3	46.5 Simplex	Horizontal	120	74 x 28 x 58	1080	120	75 x 39 x 59	1166

\*View features chart for Ultra Pack 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 50	486

# THE IDEAL CHOICE

## SUPERIOR CONSTRUCTION FOR DEMANDING ENVIRONMENTS.

Every FS-Curtis compressor is manufactured for heavy-duty, durable, long-term service, even in harsh conditions. From the superior cast-iron build to best-in-class features, you can count on FS-Curtis to deliver quality and performance.



STANDARD



PREMIUM



ELITE

Overview	Industry-leading entry level features	Robust construction and enhanced features for demanding applications	The most rugged reciprocating compressor on the market
Horsepower (HP)	5-10HP	5-15HP	5-30HP
Lubrication Technology	Splash	Splash	Pressure
Recommended Use	Intermittent	Intermittent and Continuous Run	Intermittent and Continuous Run
Applications	Light Industrial, DIY, Commercial, Automotive	Light Industrial, Industrial, Commercial, Automotive	Light Industrial, Industrial, Commercial, Heavy-Use Automotive
Ultra Pack Available	No	Yes	Yes
Warranty	Standard 12-Month Factory Warranty; 2-Year Extended Available	Standard 12-Month Factory Warranty; 5-Year Extended or 5-Year Bumper-To-Bumper with Ultra Pack Available	Standard 12-Month Factory Warranty; 5-Year Extended or 5-Year Bumper-To-Bumper with Ultra Pack Available

**THERE'S AN FS-CURTIS COMPRESSOR THAT IS RIGHT FOR EVERY NEED!**

Work with your FS-Curtis distributor to select from a full range of rotary and reciprocating compressors as well as air treatment products to best meet your application.





## EASY TO WORK WITH

Just as you get personal attention from FS-Curtis when selecting equipment, you're also supported worldwide by great people. You can count on the global FS-Curtis staff and representatives to listen to your needs and work with you to develop the solution that's best for your situation. Our people are committed to serving you well and FS-Curtis provides extensive training in the field and at our St. Louis headquarters to ensure that you have the support you need.

In addition, authorized FS-Curtis distributors use genuine FS-Curtis parts, lubricants and filter kits to maximize the service life of your equipment. And with a nationwide network of service centers, you don't need to worry about added downtime waiting for parts.

## QUALITY PARTS MATTER

At FS-Curtis, quality is never compromised. That's why we control production using ISO 9001:2008 and ISO 14001:2004 standards, and it's also why we maintain a large inventory of replacement parts.

Using only genuine FS-Curtis replacement parts not only helps ensure continued reliable service of your equipment, but the large inventory also helps keep parts affordable and available. We're dedicated to maximizing your productivity, and that includes maximizing your uptime.

---

**Through the dependability of our people and our quality-focused manufacturing, FS-Curtis will continue to be a trusted name serving even more markets through our ever-growing global presence.**





**CURTIS-TOLEDO®, INC.**

1905 KIENLEN AVENUE | ST. LOUIS, MO 63133

314-383-1300 OR 800-925-5431

WWW.FSCURTIS.COM | INFO@FSCURTIS.COM

CA LITERATURE: CA0612 R1  
Improvements and research are continuous  
at FS-Curtis. Specifications may change  
without notice.

ISO 9001  
ISO 14001

© 2012 CURTIS-TOLEDO, INC.