

CW SERIES

LARGE INDUSTRIAL RECIPROCATING AIR
COMPRESSORS SINGLE AND TWO-STAGE
40-125HP (30-250PSI)





**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 1857 1876 1897 1914 1940 1955 1976

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	Merged with Toledo Tools as Curtis-Toledo Inc.
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1979 1995 2005 2006 2010 2015 2016 2017

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	Introduced Nx series Fixed and Variable Speed Rotary Screw compressors	Nx Series named Plant Engineering's 2015 Product of the Year - Gold Award for Compressed Air	Nx Series claims Plant Engineering's Product of the Year - Gold Award 2nd year in a row
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DURABLE AND RELIABLE

UNMATCHED

PERFORMANCE

HEAVY-DUTY AND HIGHLY RELIABLE

With models ranging from 30 to 250psi, the CW Series performs where other compressor technologies simply cannot. These cast-iron, pressure-lubricated, low-RPM compressors feature stainless steel valve discs, oversized tapered main roller bearings, and a robust ductile iron crankshaft. Low-speed compressor pumps and electric motors also ensure a long service life with low maintenance. It all adds up to reliability for years to come.



INDUSTRY APPLICATIONS



There are many different needs for the CW Series units. Below you will find an overview of the makeup of the CW Series as well as a detailed list of the wide range of applications that few compressors can handle.

Distribution of Air and Gas

- Starting Air
- Desulphurization
- Feeding Air and Gas to multiple channels of industry

Oil and Gas, On and Off Shore

- Drilling
- Well head cleaning
- Maintaining or increasing gas flow into pipeline systems
- Revitalizing oil wells – Aerates the soil underground to break up concentrated mineral deposits that can obstruct the flow of extraction
- Pumping flare gases with high a content of acid components into high-pressure pipelines
- Refining hydrogen rich gases

Pipeline

- Transferring gas from extraction point to holding stations via pipelines
- Boosting stations to maintain transfer speeds
- Cleaning Pipelines
- Checking Pipelines
- Leak Testing
- Evacuation of gas from pipelines

Power Generation

- Diesel – Starting air for engines
- Gas Turbine – Starting air, Purging Air, Feeding gas
- Steam Power – Desulphurization, Removing fuel residue, Cooling turbines

Nuclear

- Back-up Diesel engine start up air
- Moving Nitrogen to cool reactors
- Moving Hydrogen to cool turbines and reactors

Hydro Electric

- Pneumatic braking air
- Governing turbine blades and large valves
- Turbine dewatering
- Blowing air (blowing out water to eliminate the load during starting)
- Prevents cavitations and pulsations

Marine

- Starting Air
- Emergency Starting Air
- Service Air
- Air guns – sending lines between ships
- Ballast Control

Aircraft

- Starting air for turbines and engines
- Inflating aircraft tires with nitrogen

Material Handling

- dense phase transport of certain materials (e.g. cement powder – may require filtration)

Manufacturing

- Injection Molding

TECHNICAL DATA

CW SERIES – SINGLE-STAGE

Low Pressure (30-70 PSIG)

MODEL	HP	CFM @ 40 PSI	CFM @ 70 PSI	DIMENSIONS L×W×H	WEIGHT (LBS)
CW-100S-16	40	N/A	N/A	81×45×47	1950
CW-200S-17	50	346	268	82×43×53	2720
CW-200S-18	60	N/A	297	82×43×53	3000
CW-300S-19	75	562	N/A	92×57×75	3500
CW-300S-20	100	676	530	92×57×75	3700
CW-300S-21	125	N/A	639	92×57×75	3950

CW SERIES – TWO-STAGE

Medium Pressure (100-150 PSIG)

MODEL	HP	CFM @ 100 PSI	CFM @ 125 PSI	CFM @ 150 PSI	DIMENSIONS L×W×H	WEIGHT (LBS)
CW-100-16	40	172	165	149	81×45×47	1950
CW-200-17	50	240	219	206	82×43×53	2720
CW-260-18	60	259	248	237	82×43×53	3000
CW-300-19	75	363	321	303	92×57×75	3500
CW-300-20	100	482	438	413	92×57×75	3700
CW-300-21	125	505	491	475	92×57×75	3950

High Pressure (175-250 PSIG)

MODEL	HP	CFM @ 200 PSI	CFM @ 250 PSI	DIMENSIONS L×W×H	WEIGHT (LBS)
CW-150H-16	40	122	117	81×45×47	1925
CW-150H-17	50	154	146	82×43×53	1975
CW-260H-17	50	191	169	85×40×51	2720
CW-260H-18	60	218	205	82×43×53	3000
CW-300H-20	100	345	323	92×57×75	3700
CW-300H-21	125	437	406	92×57×75	3950

STANDARD EQUIPMENT

- NEMA-1 starter with control power transformer (shipped loose)
- Premium efficient ODP motor
- Constant speed control
- V-belt drive with multi-groove flywheel
- Large metal intake filter silencers
- OSHA-approved enclosed belt guard
- C-100 and C-150 — Pressure lubricated with Centro-ring™ oil system
- C-200, C-260 and C-300 — Pressure lubricated with gear type oil pump to include full flow oil filter, oil pressure gauge and low oil pressure shutdown switch

- Auto start/stop control
- Dual control
- Low oil shutdown on C-100 and C-150 models
- NEMA-1 high discharge air temperature shutdown
- NEMA-1 high interstage air temperature shutdown
- NEMA-4 control panel enclosure
- TEFC motor

OPTIONAL EQUIPMENT



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)

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.

ISO 9001

ISO 14001

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