

# OIL SERIES

OIL-LESS 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



# OIL-LESS HIGH PERFORMANCE



## AN ENERGY SAVING WORKHORSE

The FS-Curtis OL Series is the ideal reciprocating oil-less air compressor for applications where critical air quality is required such as food and beverage, medical, chemical processing, pharmaceutical, electronics, and more. The 100% dry crankcase provides oil-less compressed air for critical applications with zero oil carryover. It's environmentally friendly with no oil vapor generated by the compressor, which eliminates the need for oil changes and oil disposal costs. The low speed pump and robust cast-iron crankcase, cylinder, and cylinder head ensures that the OL will offer long-term reliability and long-lasting performance.





# OL SERIES FEATURES AT A GLANCE

## OIL-LESS AIR QUALITY

- 100% dry crankcase provides oil-less compressed air for critical applications with zero oil carryover
- Over-sized fan and multiple inter-stage cooling pipes to maximize heat transfer for lower discharge temperature
- Environmentally friendly with no oil vapor generated by the compressor. Eliminates oil changes and oil disposal costs
- Protects downstream equipment and reduces maintenance cost
- Decreases costs and reduces system pressure loss due to reduction of air filtration equipment in the compressed air system

## RELIABILITY FOR YOUR CRITICAL APPLICATION

- Low speed pump for long-term reliability and efficiency
- 100% duty cycle for continuous operation
- Robust cast-iron crankcase, cylinder, and cylinder head for long-lasting performance

## INDUSTRY LEADING PERFORMANCE

- Components have been made to the highest quality and precision to provide maximum performance in the most demanding of applications
- Designed for low noise level
- Precision manufactured valves increase air flow and maximize reliability



# TECHNICAL DATA

## SIMPLEX TANK-MOUNTED

MODELS	HP	TANK SIZE	PUMP	NO. OF CYL	CFM @ 100 PSI	DIMENSIONS (In.)			WEIGHT (Lbs.)	CONNECTION (NPT)
						L	W	H		
OL5	5	120	VW-50	2	12.3	73.5	29.0	51.5	680	3/4"
OL75	7.5	120	TW-75	3	23.1	72.3	30.0	60.0	895	3/4"
OL10	10	120	TW-100	3	35.6	73.4	30.0	62.5	1015	3/4"
OL15	15	120	TW-150	3	52.0	73.4	30.0	62.5	1175	3/4"

## DUPLEX TANK-MOUNTED

MODELS	HP	TANK SIZE	PUMP	NO. OF CYL	CFM @ 100 PSI	DIMENSIONS (In.)			WEIGHT (Lbs.)	CONNECTION (NPT)
						L	W	H		
OL5	5	120	VW-50	2	24.6	86.0	29.0	55.0	1130	3/4"
OL75	7.5	120	TW-75	3	46.2	103.0	29.5	59.4	1565	3/4"
OL10	10	200	TW-100	3	71.2	104.0	35.0	66.8	1985	1"
OL15	15	200	TW-150	3	104.0	104.0	35.0	66.8	2300	1"

## BASE MOUNTED

MODELS	HP	PUMP	NO. OF CYL	CFM @ 100 PSI	DIMENSIONS (In.)			WEIGHT (Lbs.)	CONNECTION (NPT)
					L	W	H		
OL5	5	VW-50	2	12.3	41.5	23.5	28.5	370	7/8" OD
OL75	7.5	TW-75	3	23.1	50.3	23.2	35.5	605	7/8" OD
OL10	10	TW-100	3	35.6	53.1	23.2	37.5	615	7/8" OD
OL15	15	TW-150	3	52.0	53.4	23.2	37.3	740	7/8" OD

# INDUSTRY APPLICATIONS



**FS-Curtis has earned the reputation for building the most rugged industrial-duty compressor you can buy. Our professional engineering staff and factory-trained distributor network are committed to supplying you with a complete offering of the very best in compressed air equipment.**

- **Electronic** - Oil-free air is needed to activate tools, control valves and actuators. Also, moving components with oil-free air is crucial as they could be compromised by residue very easily.
- **Pharmaceuticals** - Coatings are sprayed on tablets using compressed air. If oil-free compressor is not used, oil in the air would be directly deposited on the tablets causing rejections or health risks. If oily, exhaust air from automated components could contaminate the production line leading to rejected final products and possible health code violations.
- **Hospital** - Supply medical air while operating surgical tools simultaneously and cannot add toxic or flammable contaminants into the compressed air.
- **Printing** - Various automated machines that, if oil is introduced, would compromise final product.
- **Automotive/Aftermarket** - One of the most important aspects of paint application is oil-free air. It alleviates any fish eyes, streaks or any other oil carry over imperfections. If these occur, costly steps including wet sanding, stripping, sanding and even repainting, have to be taken to correct the problems. Also, no extra high dollar filtration is needed. Cleanup equipment is minimized due to the oil-free air. Due to the 100% duty-cycle, scroll compressors do not suffer catastrophic failures that occur when light run conditions are more frequent.
- **Automotive/Assembly** - For assembly line robotics and high quality paint and clear coat finishes.
- **Universities** - For lab testing in clean room environments.
- **Dental** - Needed for air tools that will come in direct contact with the patient.
- **Water Aeration** - For uses in theme parks where animals and/or humans are in direct contact with the water being aerated.
- **Food and Beverage** - Needed for fermentation, packaging, bottling, cleaning, filling and capping. Assembly line exhausts containing oil would contaminate final products.



## 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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