THERMAL PRODUCTS Inc.

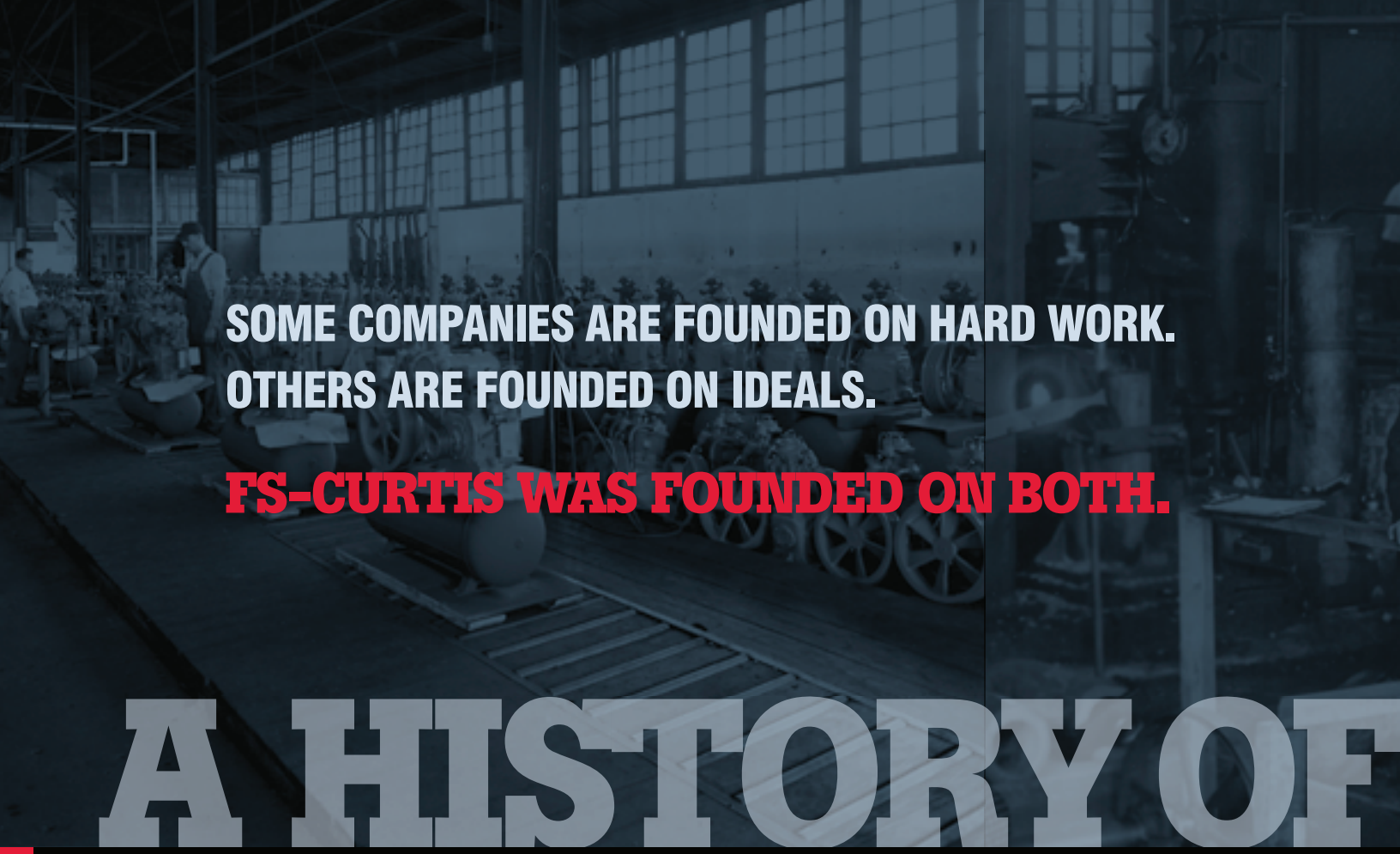
FSCURTIS

RDS SERIES

REFRIGERATED COMPRESSED AIR DRYERS

ENERGY SAVING REFRIGERATED COMPRESSED AIR DRYERS 90-12500 SCFM

Thermal Products, Inc. / **Phone:** (518) 877-0231 / **Email:** sales@thermalproducts.com / **Website:** www.thermalproducts.com



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

FS-CURTIS WAS FOUNDED ON BOTH.

A HISTORY OF

1854	1857	1876	1897	1914	1940	1955
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

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.

FSCURTIS

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

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.

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SUPERIOR AIR QUALITY IS JUST THE BEGINNING

RDS Series dryers not only enhance air quality, but they also enhance energy savings through FS-Curtis' DemandSmart™ technology.

So when you take the world-class quality found in FS-Curtis compressors and add in the heightened performance from RDS Series dryers, the result is simply outstanding. Your production process will be protected, and the DemandSmart energy savings will add up day in and day out. Manufactured for ideal integration with FS-Curtis compressors, RDS Series dryers provide a constant dew point that meets the ISO 8573.1 standard to protect your investment and maintain your production quality.

DemandSmart technology automatically cycles the refrigeration compressor in response to inlet load conditions for true load-matching energy savings.

TRUE ENERGY-SAVING DESIGN

All FS-Curtis RDS Series dryers utilize three industry-leading technologies to optimize energy savings and performance.

DEMANDSMART ENERGY MANAGEMENT SYSTEM

By monitoring the incoming heat load to determine how much cooling energy is required to maintain stable dew point control, this energy-saving control system is able to make precise refrigeration compressor adjustments to match the varying heat loads, maximizing energy savings.

DemandSmart™
ENERGY MANAGEMENT SYSTEM

STAINLESS-STEEL BRAZED PLATE HEAT EXCHANGER

To deliver unparalleled performance and superior reliability, FS-Curtis crafts its exchangers from premium grade 316SS and uses advanced metal forming and bonding techniques. Layers of sinusoidal flow paths form large, smooth channel flow cavities, helping to ensure low pressure drop.

INTEGRATED TWO-STAGE FILTRATION SYSTEM

5.0 mg/m^3 oil aerosol bulk liquids and 3.0-micron solid particulates are removed by the efficient, effective two-stage filtration system. In the first stage, two stainless-steel orifice tubes provide 10-micron mechanical separation. During the second stage, an in-depth fiber media captures solid and liquid particles to 3 microns.

An optional high-efficiency oil removal filter with a corrosion resistant inner and outer cores remove solid particles to 0.01 macron. The first stage features multiple layers of fiber media and a media screen to remove larger particles. After this prefiltering, the second stage utilizes multiple layers of bonded, blended fiber media for fine coalescence.

PRODUCT RANGE

In addition to the three main technologies, each model in the RDS Series has its own unique benefits for an ideal match to application needs.

RDS90-675

- Hermetically sealed refrigerant compressor with environmentally friendly R-134a refrigerant for high reliability and long service life
- Standard at-a-glance controller for simple operation, or optional DemandSmart energy management system for energy-saving results
- Optimized cabinet design promotes ease of access from all four sides
- No-air-loss condensate drain prevents energy loss
- Rugged glycol reservoir

RDS800-3000

- Digital scroll refrigerant compressor with environmentally friendly R-404a refrigerant for high reliability, long service life and quiet working environment
- DemandSmart energy management system provides energy-saving results
- Lift-out panel design provides easy access for maintenance
- No-air-loss condensate drain prevents energy loss

RDS3750-12500

- Digital scroll refrigerant compressor with environmentally friendly R-404a refrigerant for high reliability, long service life and quiet working environment
- No-air-loss condensate drain prevents energy loss
- Enhanced DemandSmart energy management system displays real-time status and measures energy savings
- Multi-station design for easy movement and precise match of demand

ISO 8573.1 QUALITY CLASSES

Class	Solid Particles - Maximum Numbers of Particles per m³			Humidity and Liquid Water		Oil
	Particle Size (micron)			Pressure Dew Point		Total concentration, Aerosol, Liquid, and Vapor
	0.10 - 0.5	0.5 - 1.0	1.0 - 5.0	˚C	˚F	mg/m³
0	As Specified			As Specified		≤ 0.01
1	100	1	0	≤ -70	≤ -94	≤ 0.1
2	100,000	1,000	10	≤ -40	≤ -40	≤ 1
3	-	10,000	500	≤ -20	≤ -4	≤ 5
4	-	-	1,000	≤ +3	≤ +38	
5	-	-	20,000	≤ +7	≤ +45	
6				≤ +10	≤ +50	

TECHNICAL DATA

MODELS	Capacity[1] (scfm)	POWER SUPPLY	INLET/OUTLET (npt. male)	DIMENSIONS (LxWxH-In.)	WEIGHT (Lbs.)
RDS90	90	115/1/60 208-230/1/60 220-240/1/50	1" NPT	20 x 27 x 38	241
RDS120	120				258
RDS140	140				263
RDS190	190	208-230/3/60 380-420/3/50 460/3/60 575/3/60	1-1/2" NPT	32 x 34 x 39	408
RDS240	240				478
RDS280	280			32 x 35 x 46	497
RDS360	360		2" NPT		540
RDS450	450		2-1/2" NPT	42 x 35 x 58	708
RDS540	540				793
RDS675	675				844
RDS800	800	208-230/3/60 380-420/3/50 460/3/60	3" NPT	52 x 40 x 85	1615
RDS1000	1000				1650
RDS1250	1250		4" ANSI Flg.	52 x 48 x 85	1770
RDS1500	1500				1890
RDS1750	1750		6" ANSI Flg.	56 x 54 x 85	2110
RDS2000	2000				2205
RDS2500	2500				2248
RDS3000	3000				2488
RDS3750	3750	460/3/60 575/3/60 230/3/60	8" Flange	81 x 85 x 96	3391
RDS5000	5000				3474
RDS6250	6250		10" Flange	81 x 125 x 98	5412
RDS7500	7500				5624
RDS8750	8750		12" Flange	81 x 164 x 99	7664
RDS10000	10000				7876
RDS11250	11250			81 x 202 x 99	9623
RDS12500	12500				9836

[1] Rated Flow Capacity – Conditions for rating above dryers are: compressed air at dryer inlet: 100 psig and 100°F saturated; ambient temperature: 100°F; cooling water temperature: 85°F; operating on 60 Hz power supply.

THE NAME TO KNOW IS FS-CURTIS.
For a complete selection of top-quality, reliable air compressors, dryers and accessories, the only name you need to remember is FS-Curtis.