



SE SERIES.

SE SERIES eENERGY SAVING AIR COMPRESSORS

Another cool idea from FSCURTIS®



THE NEXT GENERATION

Since 1854, CURTIS Air Compressors has empowered generations with the air power needed to turn visions into reality. Today, FSCURTIS' SE Series compressors honor that heritage by combining creative ingenuity with advanced engineering to deliver world class innovation and value. Featuring eCOOL® Technology, SE Series saves energy and boosts efficiency with pressures to 190 psig and models from 5 to 50 horsepower.

PERFORMANCE UNDER PRESSURE

FSCURTIS' legendary reliability is crafted into every SE Series rotary screw air compressor. Through the most advanced rotor crafting techniques in the industry, precision cast rotor blanks are machined in clean climate controlled environments to ensure consistent tolerances that maximize compression efficiency. Each quiet space-saving package incorporates eCOOL® Technology through compartmentalized thermal zones that increase efficiency and improve performance under pressure.

eCOOL® SAVES ENERGY

Did you know that it can cost 300% more every year to operate an air compressor than you paid to buy it? Price is important but, cool operation and smart air system design will have a much greater impact on improving your profitability. SE Series combines eCOOL® Technology with advanced AIMS Plus™ intuitive control logic to manage and monitor temperatures and pressures to protect your investment and ensure you extract the maximum performance and energy efficiency from every kilowatt you use.

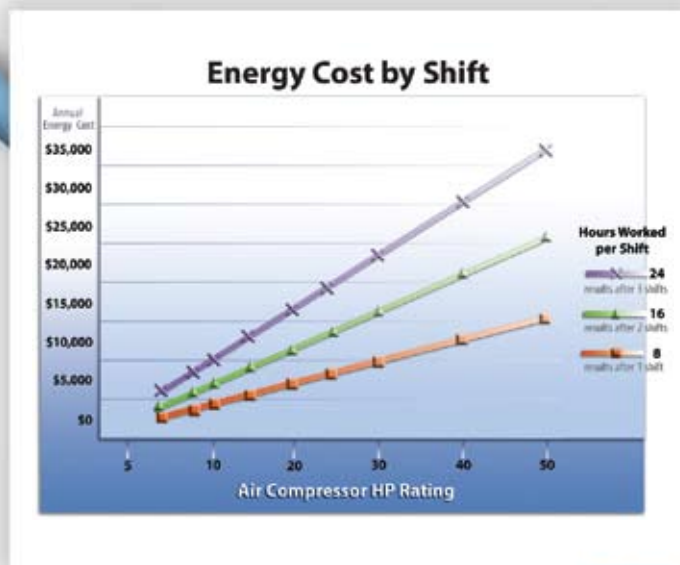


Figure (1):
Cost to operate 5-50HP electric motors

Assumes nominal drive motor HP ratings, EPAct motor efficiencies, \$0.10 per kWh

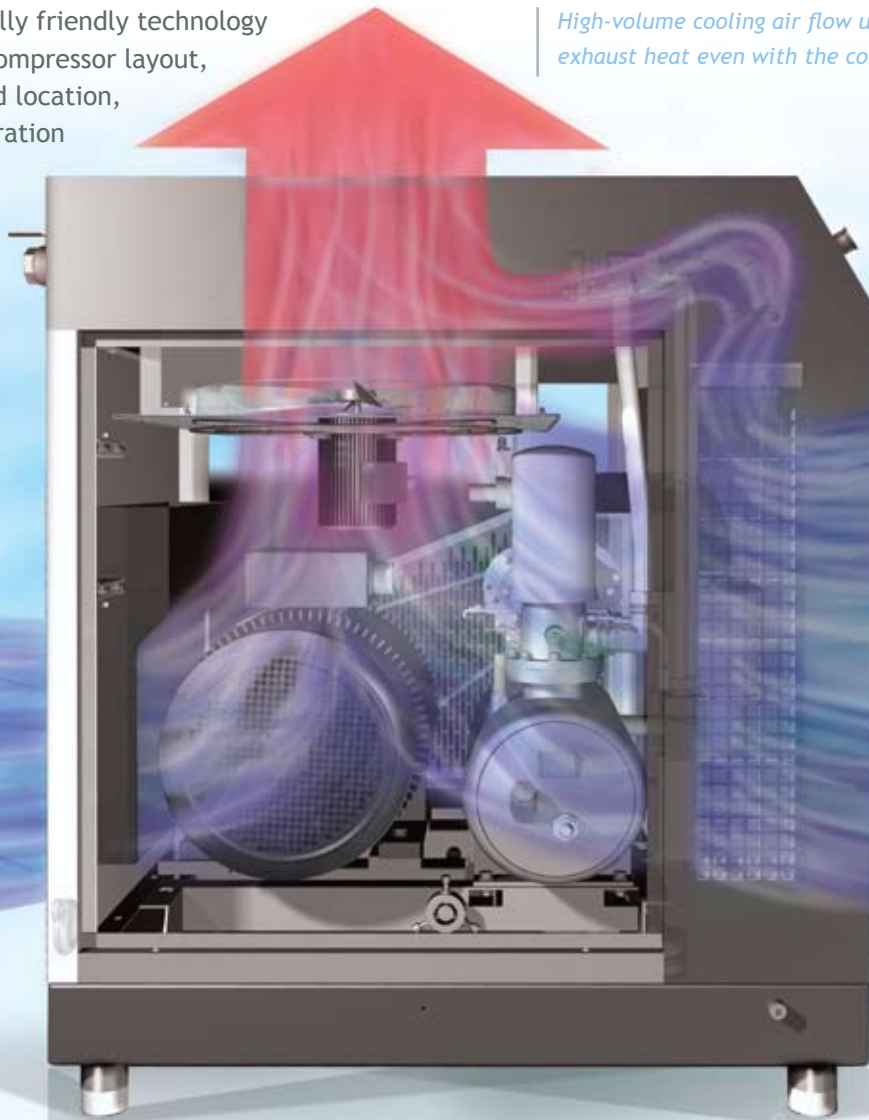
Genuine. FSCURTIS.

eNERGY SAVING.

EXPERIENCE eCOOL[®] TECHNOLOGY

eCOOL[®] is environmentally friendly technology which combines smart compressor layout, component selection and location, cooling air flow and operation to minimize the impact of temperature on compressor efficiency and reliability.

High-volume cooling air flow uses chimney-effect to exhaust heat even with the compressor stopped



Cabinet filters pre-clean the cooling and intake air to improve cooling efficiency

Critical components are positioned to keep temperatures low and reliability high

BENEFITS OF eCOOL[®] TECHNOLOGY

- Higher reliability - longer component life results from less thermal stress
- Lower operating costs - better volumetric and electrical efficiency are a direct result of lower internal compressor temperatures
- Better air quality - cooler operation means less residual oil in the compressed air

INDUSTRIES SERVED



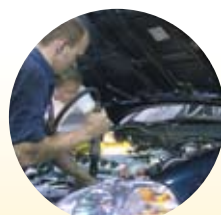
Woodworking



Metalworking



Painting



Automotive



Printing

- General Industries
- Electronics
- Food
- Glass
- Marine
- Paper
- Light Mfg.
- Steel
- Textile
- Machining

SE SERIES.

eNERGY SAVING FILTRATION

eNERGY SAVING FILTRATION

Consider how little energy you expend breathing when calm. Your heart and circulation systems function rather effortlessly for maximum efficiency. It is no different for your air compressor. That is why FSCURTIS integrates deep pleated, premium quality absolute rated filtration in every SE Series air compressor we build. Our deep pleating process provides about 200% more surface area than typical filter elements which allows the removal of finer contaminants with less flow resistance. The air and lubricant circulation systems stay cleaner and require less energy so you save energy and gain longer component life.



REDUCED ENERGY DEMANDS SAVE YOU MONEY, AND THE ENVIRONMENT WINS AS POWER COMPANIES PRODUCE LESS ELECTRICITY WHICH REDUCES THEIR OUTPUT OF CO₂.

How cool is that?

CABINET FILTERS

eCOOL® Technology starts at our cleanable inlet filtration panels that pre-clean the incoming air stream. Benefit with lower operating costs, greater compressor reliability and higher air quality.



Air filter mat for prefiltering motor, compressor and cooler

AIR INTAKE FILTER

3 micron absolute, not 5 or 10. This is your first line of defense featuring heavy-duty construction with integral dirt purge at shutdown. Strategic air inlet port positioning receives the coolest air as it enters the cabinet to ensure superior volumetric efficiency.



Insures only cool, clean air is compressed

OIL FILTER

33% more efficient than most competitors. Features spin-on connectivity and deep pleating for long life and fast, easy replacement.



Thermostatic oil controller with integrated FSCURTIS oil filter

AIR/OIL SEPARATOR

33% more efficient than most competitors. Deep pleated construction and inside-to-outside flow paths provide excellent oil coalescence to result in low 1-3 ppm w/w oil carryover and low pressure drop - before the aftercooler. Save with lower make-up oil costs and enjoy better quality compressed air.



Oriented for no-mess replacement

eFRIENDLY.

eNVIROnMENTALLY FRIENDLY CONSTRUCTION



INDUSTRY LEADING AIRENDS

Every FSCURTIS SE Series air compressor incorporates components of the highest quality. From the smallest airend to the largest, each features the latest in rotor profile architecture combined with multiple roller and angular bearings. The durability and integrity of our design against the radial and thrust forces generated by the compression process are reflected by our industry leading airend warranty.



HARNESSING GRAVITY

Rather than a fixed belt tensioning device, SE Series features a hinged drive motor platform engineered to harness gravity and direction of rotation to ensure optimal belt tension under all operating conditions. An EPA rated TEFC motor is positioned to provide variable belt tension which compensates for the forces that change **a) at start-up**, **b) while running loaded**, and **c) while running unloaded**.

Wye-Delta soft-starting limits inrush current and eliminates peak bearing loads to provide longer life to the motor and air end shaft bearings.



eNVIROnMENTALLY CONSCIOUS DESIGN

Inlet and discharge valve assemblies integrate multiple functions which reduces connections by up to 90%. Braided stainless steel hose assemblies feature hydraulic fittings and bonded o-ring seals for reusable service and long life. Even the spin-on type air/oil separator is direct-flanged and oriented for fast, clean and easy no-mess replacement.

SE SERIES integrates everything into a clean attractive powder coated cabinet. Contaminant-proof laminated nylon insulation is engineered to eliminate noise pollution. So quiet, you can even place your air compressor where people are working. Environmental consciousness is designed into every unit to save you time and money while helping the environment.

How cool is that?

GENUINE. FSCURTIS.

TAKE CONTROL OF YOUR SE SERIES COMPRESSOR



THE AIMS PLUS™ CONTROL LETS YOU TAKE CONTROL OF YOUR AIR SUPPLY

Standard Features Include:

- Easy to read large alphanumeric display
- User friendly interface with informative menu structure
- Dual level protection with warning/alarm and shutdown
- Frost protection to +14° F
- Service timers for optimized maintenance
- Automatic or Manual Lead/Lag Control
- Fault log for incidents
- Real time clock
- Auto start up and shutdown
- Connection with your computer for software updates and system monitoring
- Extra temperature and pressure inputs for user defined services
- Emergency stop
- Remote Start/Stop
- RS485 communication port
- IP54 electrics

FROST PROTECTION MADE EASY

Every SE Series air compressor includes Easy-Start™ Frost Protection to simplify installation in ambient conditions that may dip below freezing. Sensors monitor lubricant temperature. The compressor will automatically start near the frost point. After the system warms up, the compressor shuts down until the temperature drops and it needs to restart. Rather than pay to build a dedicated building and then outfit it with space heaters, Easy-Start costs just pennies more to operate than a space heater while providing frost protection against ambients as low as +14°F. Saving money on installation costs has never been so easy.

Note: Heat trace tape is required to protect condensed water in moisture separators and drains from freezing.

TAKE CONTROL OF YOUR COMPRESSED AIR QUALITY



Refrigerated Air Dryers
Dew Points to +38° F



Desiccant Air Dryers
Dew Points to -100° F



Filters— Particulate
and Coalescing



FSCURTIS Energy
Management Systems



Oil Water
Separators

Nothing can ruin your day or the products you produce like oily condensed water in your compressed air stream. That is why FSCURTIS has a complete offering of compressed air treatment products and solutions to keep your production high and your air system dry. From energy management systems to high quality air line filtration to refrigerated, desiccant or membrane compressed air dryers, rely on FSCURTIS to help you get the air quality and system performance you need.

Protect Your
Investment and
Maximize Your
Energy Savings.

DEMAND
FSCURTIS®
GENUINE PARTS.



eCOOL.

SE SERIES AIR COMPRESSORS 5-50HP



How *cool* is that?

Genuine. FSCURTIS.

STANDARD FEATURES

- Powder coat painted enclosure
- Laminated oil-proof sound insulation
- Keyed (3) side panels SE 20-50,
(4) side panels SE 5-15
- Washable cabinet pre-filtration panels
- AIMS Plus™ symbol logic controller
- Heavy-duty air intake filter
- BSA airend SE 20-50, encapsulated airend SE 5-15
- 115V Control voltage transformer
- Auto-tensioning belt drive system
- Spin-on oil filter and air/oil separator
- TEFC EPart rated motor
- Wye-Delta motor starter SE 20-50,
full-voltage motor starter SE 5-15
- Multi-function inlet valve
- Closed inlet starting
- Multi-function discharge valve
- Multi-tier vibration isolators
(chassis-to-enclosure and enclosure-to-floor)
- LubePlus 8000 synthetic lubricant
- Air cooled oil cooler and aftercooler
- Moisture separator with automatic drain

FSCURTIS SE Series oil-injected rotary screw air compressors provide you with world class innovation and maximum value from 5 to 50HP. Each quiet space-saving package incorporates eCOOL® Technology through compartmentalized thermal zones to increase efficiency and deliver maximum performance and value for your energy dollars. Premium quality components are standard and feature absolute rated filtration, energy efficient EPart rated TEFC motors, and encapsulated airends with energy saving rotor profiles (on models 5-15HP) or precision BSA airends designed with the latest in energy saving rotor profiles (on models 20-50HP). Our advanced AIMS Plus™ Controller manages the system and monitors temperatures and pressures to protect your investment and ensure you extract the maximum performance and energy efficiency from every kilowatt you use.

OPTIONAL FEATURES AND EQUIPMENT

- Tank mounted models (SE 5-15 only)
- Vertical remote 120, 200, 240, 400 gallon air receiver tanks
- Tank mounted and standalone refrigerated & desiccant dryers
- In-line compressed air particulate and coalescing filters
- Automatic, timed solenoid and zero air loss condensate drains
- Environmentally conscious Oil/Water Separators
- Air compressor energy management and master control systems

SPECIFICATIONS AND PERFORMANCE

Model	SCFM				Power HP	Voltages V / Ph / Hz	Sound Level dB(A)	Dimensions L x W x H	Weight Lbs	Discharge Connection NPT
	100 psig	125 psig	150 psig	175 psig						
*SE5	18	16	15	12	5	200/3/60 230/3/60 460/3/60 575/3/60	62	33.7 x 24.4 x 35.4	549	1/2"
*SE7.5	32	27	24	21	7.5		66	33.7 x 24.4 x 35.4	572	1/2"
SE10	42	37	34	30	10		68	34.6 x 27.6 x 42.9	667	3/4"
SE15	62	56	53	46	15		70	34.6 x 27.6 x 42.9	836	3/4"
SE20	91	81	72	62	20		2	44.5 x 33.5 x 54.7	1,254	1"
SE25	108	100	90	84	25		73	44.5 x 33.5 x 54.7	1,298	1"
SE30	129	116	101	94	30		73	44.5 x 33.5 x 54.7	1,342	1"
SE40	188	165	148	139	40		73	54.9 x 39.4 x 61.2	1,760	1-1/2"
SE50	222	205	182	170	50		75	54.9 x 39.4 x 61.2	1,936	1-1/2"

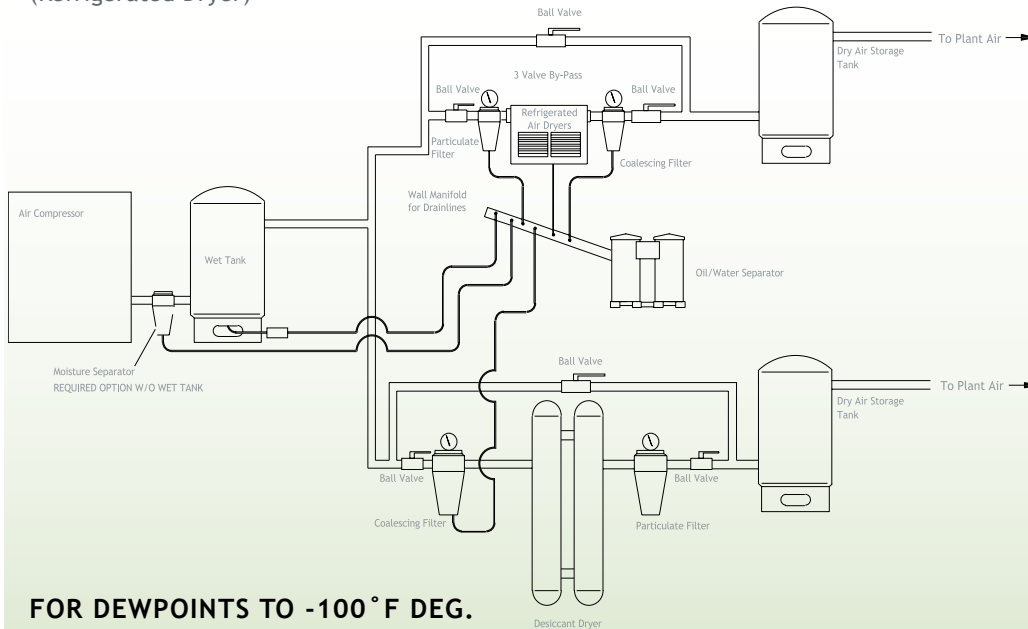
Sound level: according to PN8NTC2.3 [± 3 dB(A)] Technical data is subject to change without notice.

*Also available 230V/1Ph/60Hz

INTEGRATED SYSTEMS

DEWPOINTS TO +38 °F DEG.

(Refrigerated Dryer)



FOR DEWPOINTS TO -100 °F DEG.

(Desiccant Dryer)

SE Tank Mounted Weights & Dimensions



TANK MOUNT PACKAGE WITH REFRIGERATED DRYER & PREFILTER

HP	L x W x H	Weight (Lbs)
5	69 x 30 x 64	961
7.5	69 x 30 x 64	1,009
10	69 x 30 x 72	1,115
15	69 x 30 x 72	1,306



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