

# SULLAIR OFC SERIES

**Oil Free Scroll Air Compressors**

5-40 hp | 3.75-30 kW



**SULLAIR®**

*Always air. Always there.®*

# SULLAIR AN INDUSTRY LEADER

## LEADERSHIP

Since 1965, Sullair has been recognized worldwide as an innovator and leader in rotary screw compression and vacuum technology. Sullair designs and manufactures its own rotors and air end assemblies. The award-winning rotary screw design sets the industry standard and delivers the quality and reliability you expect from a leader.

## TECHNOLOGY

Using the most modern technologies, equipment and advanced manufacturing techniques, Sullair designs, manufactures, assembles, and tests the most innovative compressed air and vacuum products in the industry. Sullair products are known around the world for their universally applicable design, outstanding craftsmanship and superior quality.

## COMMITMENT TO INNOVATION

Underlying Sullair leadership is a dedication to excellence and a commitment to innovation. We are constantly exploring new ideas and seeking new ways to meet and exceed the industry's need for increasingly energy efficient compressed air and vacuum solutions.

Recently, Sullair has expanded its presence in Oil Free compressor applications with the introduction of the OFS Series of oil free rotary screw air compressors. Sullair Centrifugal Compressors powered by IHI technology have also contributed to the growing Sullair presence in oil free compressed air solutions.

# OIL FREE COMPRESSION WITH SCROLL COMPRESSOR CONVENIENCE

The Sullair OFC Series of air compressors utilizes scroll technology to provide 100% oil free Class 0 air.

Sullair OFC Series compressors are the perfect choice for applications requiring completely oil free air, including:

- Pharmaceuticals
- Food and beverage manufacturing
- Electronics
- High-technology manufacturing
- Textile manufacturing
- Clean rooms
- Laboratories
- Medical/Dental facilities
- Painting and Finishing

## Why Oil Free?

In many operations, compressed air comes into contact with items in the manufacturing process. When air purity is critical — oil free air is essential. Oil particulates in compressed air can contaminate downstream processes and production.

Oil Free compressors eliminate potential contamination, as no oil or lubricant is introduced into the air compression process. Reduced risk of contamination helps improve your business operations and profitability. Sullair OFC Series Compressors are designed to be oil less — no oil is used in any operating function. This means there is zero risk of oil entering the compression chamber.

## The Sullair OFC Series

Available in horsepower ranges from 5 to 40 hp (3.75 to 30kW) Sullair OFC Series compressors are capable of providing pressures nominally rated from 94 to 145 psi (6.5 to 10 bar) — with flows from 12 to 124 acfm.

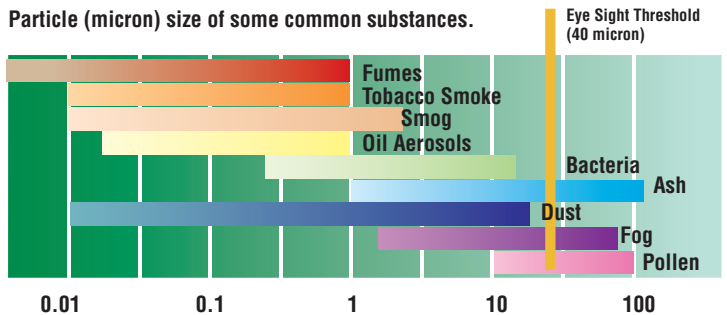
**Class 0 Oil Free Air** — For applications in which air purity is essential, including pharmaceuticals, food and beverages, electronics, automotive painting, and textiles.

Under the ISO 8573-1 Class Zero certification, Sullair compressors are designed to operate oil free, minimizing the risk of contaminating the process air or gas.



## Air Quality Standards ISO 8573-1 Classes

Particle (micron) size of some common substances.



Class	Solid Particle Maximum number of particles per m <sup>3</sup>			Pressure Dew Point °F (°C)	Oil (incl. vapor) mg/m <sup>3</sup>
	0.1–0.5 micron	0.5–1.0 micron	1.0–5.0 micron		
0	As specified by the end-user or manufacturer, and more stringent than Class 1				
1	≤ 20,000	≤ 400	≤ 10	≤ -94° (-70°)	0.01
2	≤ 400,000	≤ 6,000	≤ 100	≤ -40° (-40°)	0.10
3	—	≤ 90,000	≤ 1,000	≤ -4° (-20°)	1.00
4	—	—	≤ 10,000	≤ 37.4° (3°)	5.00
5	—	—	≤ 100,000	≤ 44.6° (7°)	—
6	—	—	—	≤ 50° (10°)	—

## ENERGY EFFICIENCY

Any electricity-consuming device is at its most efficient when it is turned off. The simple start-stop controls used on scroll compressors result in the least amount of energy being used to meet your exact demands.

With enclosed models, Sullair OFC Series compressors automatically match demand to output. Only the number of air ends needed to produce demand are used — reducing energy usage. Plus, automatic cycling means load is spread among all air ends equally.

Plus, the small movement of the scroll mechanisms mean start-up time is short — and starting current is kept very low.

## LOW MAINTENANCE

Sullair OFC Series compressors are designed with few moving parts and no metal to metal contact between the scrolls. This means maintenance is simple — with long intervals between service.

No oil is introduced in compression — so there is no oil in the condensate allowing for easy disposal of the water.

Additionally, because no lubrication is need in compression, there is no compressed air lubricant maintenance — no regular oil changes, no top-off to replace oil lost via carry-over, no oil filters to replace.

And Sullair OFC Series compressors are rugged and durable — backed by a 3-year warranty.

## OPERATION

Sullair OFC Series compressors are not just quiet. They are Super Quiet! Noise levels as low as 56 dBA make Sullair OFC Series compressors suitable for indoor applications and do not require a separate sound attenuated room. In fact, these compressors may be installed at point-of-use which results in lower installation and piping costs.

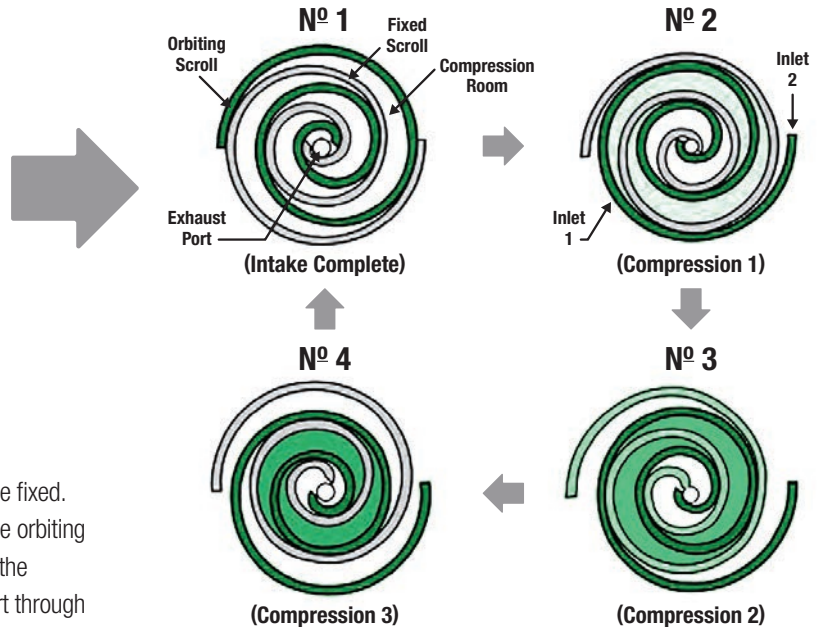
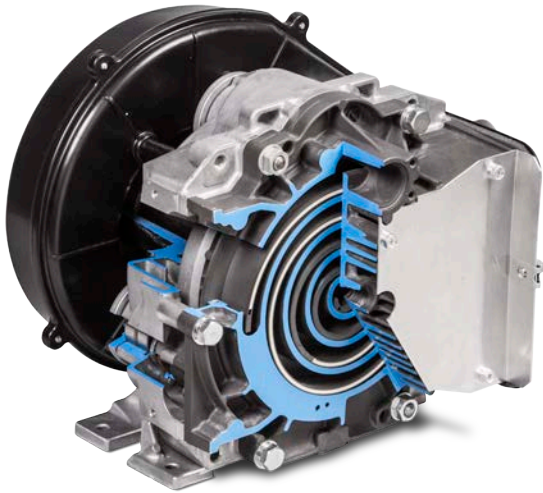
### Comparative Noise Levels

dBA	
40	Library
50	Rainfall
55	Coffee percolator
<b>As low as 56</b>	<b>Sullair OFC Series</b>
60	Sewing machine
70	Freeway traffic
80	Doorbell
85	Noisy restaurant
90	Tractor
100	Factory machinery
110	Leaf blower
120	Thunder
130	Jackhammer

Source: Center for Hearing and Communication



# SCROLL COMPRESSION TECHNOLOGY



Within each OFC Series air end are two scrolls – one orbiting; one fixed. Air entering the compression chamber is gradually reduced as the orbiting scroll rotates. Compressed air is exhausted through the outlet at the center. Because air movement is continuous from the suction port through the discharge port, scroll compressors provide pulsation free delivery of compressed air.



All Sullair OFC Series compressors may be configured with the full line of Sullair Air Treatment products, including filters, dryers, mist eliminators and more — providing the ultimate in air quality options.

Enclosed models include VFD controls with touch screen HMI.

## VERSATILE OPTIONS

Sullair OFC Series scroll compressors are available in enclosed and tank-mounted options. Additionally, all models are available in both 230 and 460-volt configurations.

### Tank Mounted

Tank mounted versions are available in one and two air end options ranging from 5 to 10 hp (3.7 to 7.5 kW) achieving flow rates from 12.7 to 31.5 acfm.

### Enclosed

Available in horsepower ranges from 15 to 40 hp (11 to 30 kW) Sullair OFC Series compressors are capable of providing pressures nominally rated from 94 to 145 psi (6.5 to 10 bar) — with flows from 37 to 124 acfm.

# TECHNICAL SPECIFICATIONS

ENCLOSED									
Model	hp	Pressure	Flow CFM	Enclosed	Weight (lb)	L (in)	W (in)	H (in)	dBA
<b>230 Volt</b>									
OFC1108-E-230	15	94-116	46.2	Enclosed	875	26	38	62	56
OFC1110-E-230	15	123-145	37.5	Enclosed	875	26	38	62	56
OFC1508-E-230	20	94-116	61.6	Enclosed	1060	26	38	62	58
OFC1510-E-230	20	123-145	49.5	Enclosed	1060	26	38	62	58
OFC2208-E-230	30	94-116	93.2	Enclosed	1710	54	38	62	59
OFC2210-E-230	30	123-145	73.7	Enclosed	1710	54	38	62	59
OFC3008-E-230	40	94-116	124.3	Enclosed	2070	54	38	62	60
OFC3010-E-230	40	123-145	99.2	Enclosed	2070	54	38	62	60
<b>460 Volt</b>									
OFC1108-E-460	15	94-116	46.2	Enclosed	875	26	38	62	56
OFC1110-E-460	15	123-145	37.5	Enclosed	875	26	38	62	56
OFC1508-E-460	20	94-116	61.6	Enclosed	1060	26	38	62	58
OFC1510-E-460	20	123-145	49.5	Enclosed	1060	26	38	62	58
OFC2208-E-460	30	94-116	93.2	Enclosed	1710	54	38	62	59
OFC2210-E-460	30	123-145	73.7	Enclosed	1710	54	38	62	59
OFC3008-E-460	40	94-116	124.3	Enclosed	2070	54	38	62	60
OFC3010-E-460	40	123-145	99.2	Enclosed	2070	54	38	62	60

TANK MOUNTED									
Model	hp	Pressure	Flow CFM	Tank Capacity (gal)	Weight (lb)	L (in)	W (in)	H (in)	dBA
<b>230 Volt</b>									
OFC0308-T06-230	5	85-115	15.4	60	455	48	29	48	61
OFC0310-T06-230	5	115-145	12.7	60	455	48	29	48	61
OFC0508-T08-230	7.5	85-115	23.7	80	580	63	29	49	74
OFC0708-T08-230	10	85-115	31.5	80	630	63	29	49	75
OFC0708-T12-230	10	85-115	30.5	120	800	68	43	52	62
OFC0710-T12-230	10	115-145	25.6	120	800	68	43	52	62
<b>460 Volt</b>									
OFC0308-T06-460	5	85-115	15.4	60	455	48	29	48	61
OFC0310-T06-460	5	115-145	12.7	60	455	48	29	48	61
OFC0508-T08-460	7.5	85-115	23.7	80	580	63	29	49	74
OFC0708-T08-460	10	85-115	31.5	80	630	63	29	49	75
OFC0708-T12-460	10	85-115	30.5	120	800	68	43	52	62
OFC0710-T12-460	10	115-145	25.6	120	800	68	43	52	62

For more information, contact your local authorized Sullair distributor.