

SULLAIR OFS SERIES

Oil Free Rotary Screw Air Compressors

100–350 hp | 75–261 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 Sullair 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 AND ROTARY SCREW DEPENDABILITY

The Sullair OFS Series of air compressors utilizes proprietary rotary screw technology in providing 100% oil free air.

Sullair OFS 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

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.

The Sullair OFS Series

Available in horsepower ranges from 100 to 350 hp (75 to 261 kW) Sullair OFS Series compressors are capable of providing pressures nominally rated from 100 to 150 psi (7 to 10 bar) – with flows from 400 cfm to over 1600. Each OFS compressor utilizes two-stage compression – and is available with or without Variable Speed Drive (VSD).

Sullair OFS Air Ends

Unlike oil-flooded rotary screw compressors, Sullair OFS Series compressors introduce no oil into the compression stage. While maintaining the Sullair reputation for durable air ends, Sullair OFS Series compressors add specific elements to ensure 100% oil free operation.

- High efficiency asymmetrical profile rotors are coated with FDA-approved food-grade PTFE to resist corrosion and extend life
- Rotor housings are cast and jacketed to assure thermal stability
- Air passages are coated with food-grade PTFE to resist corrosion

Sullair OFS Series compressors are independently certified for Class 0 Oil Free performance in accordance with ISO 8573-1.

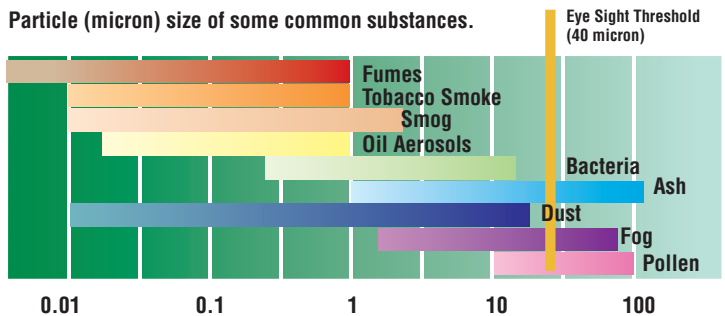
Class 0 Oil Free Air — For applications in which air purity is essential, including pharmaceuticals, food and beverages, electronics, automotive painting, and textiles.

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.

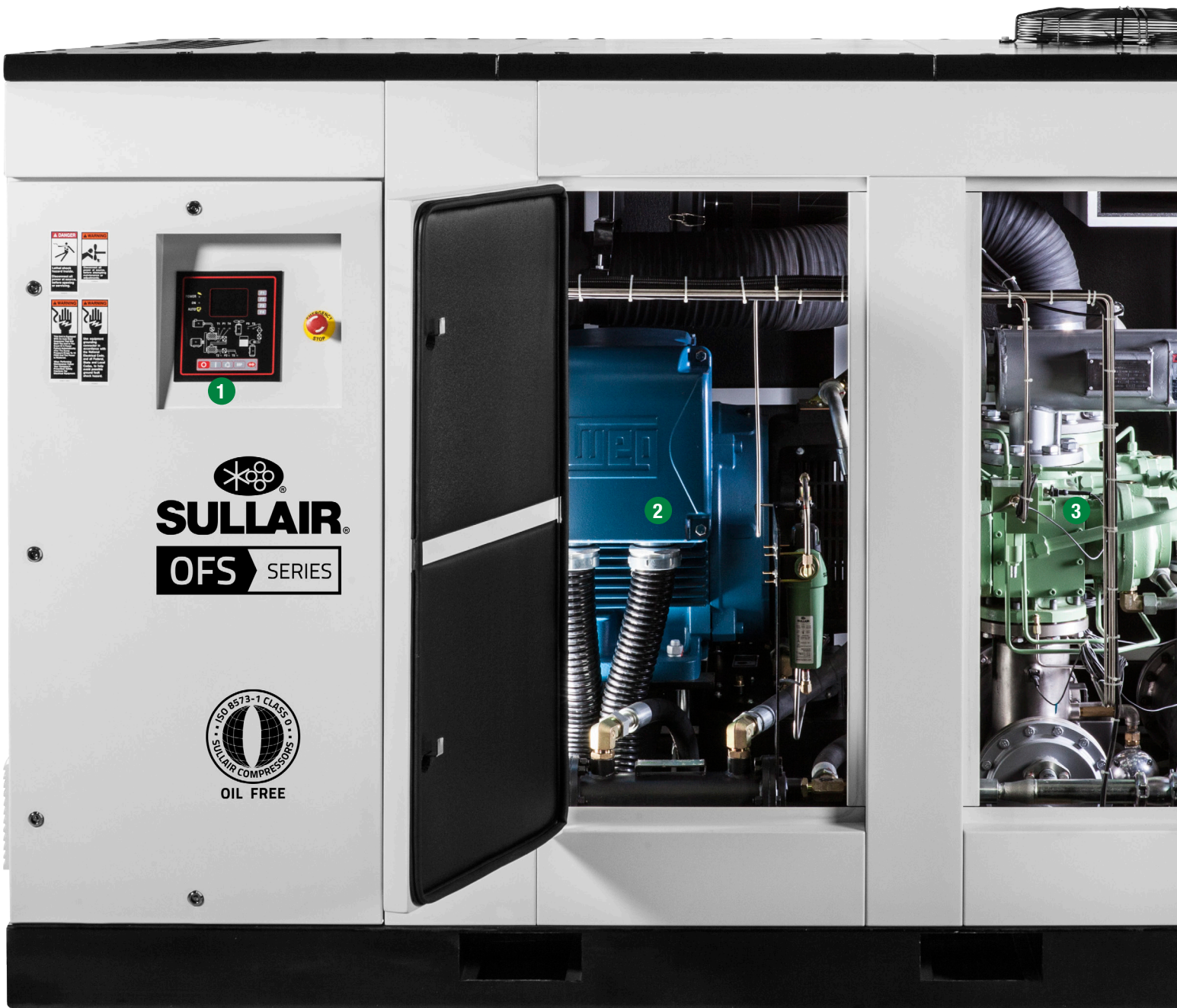


Air Quality Standards ISO 8573-1 Classes

Particle (micron) size of some common substances.



Class	Solid Particle Maximum number of particles per m ³			Pressure Dew Point °F (°C)	Oil (incl. vapor) mg/m ³
	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°)	—



OIL FREE ROTARY SCREW AIR COMPRESSORS

1. SULLAIR CONTROLLER

- Sullair WS I/O
- Multiline digital screen with contextual multicolor backlight
- Multiple communications protocols
- Built-in sequencing capability

2. MAIN MOTOR

- WEG W22 series motors
- NEMA premium efficient
- TEFC Standard (IP55)
- 50° C temperature capability

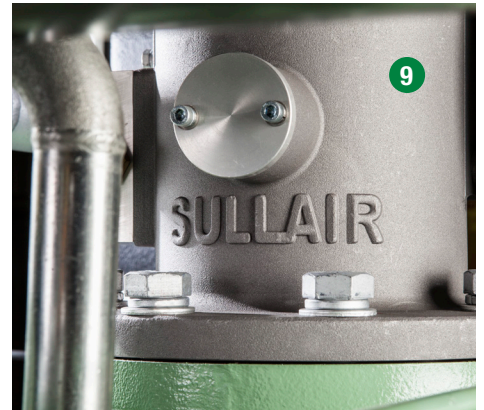
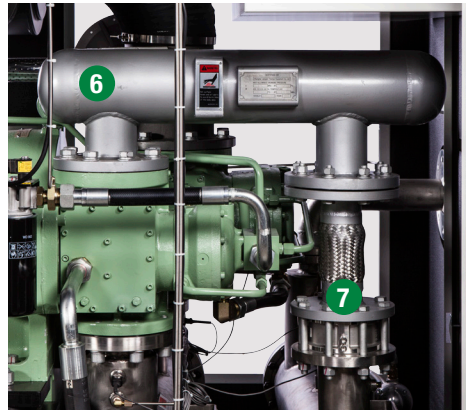
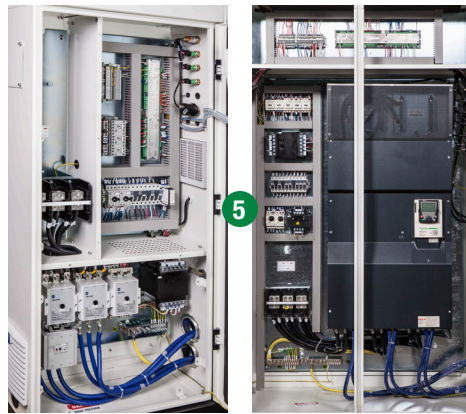
3. SULLAIR AIR END

- Legendary Sullair rotary screw technology with proven two-stage efficiency
- Ultra-long bearing life
- Robust AGMA 12 class gears
- Food-grade PTFE coating on elements

4. COOLERS

- Corrosion resistant stainless steel shell and tube air/water and oil coolers
- Air/Water coolers feature integrated moisture separators
- Coolers are ASME coded standard





5. STARTER/DRIVE

- Fixed Speed/Wye-Delta Standard
- UL design
- Optional integrated VSD
- IP54 protection for fixed speed
- IP42 protection for VSD

6. SILENCER

- Eliminates pulsation in the airstream
- Improved sound attenuation
- ASME Coded

7. DISCHARGE CHECK VALVE

- Prevents reverse air flow in order to protect the compressor from damage
- Stainless steel components ensure long life and proper operation

8. AUTOMATED CONDENSATE DRAINS

- Highest efficiency solution
- Automated — eliminates programming under changing conditions
- Robust design for long life

9. AIR INTAKE

- Combined pneumatically actuated load/unload air inlet
- High efficiency air inlet filter
- Non-corrosive components help ensure long life and durability

AIR END LUBRICATION SYSTEM (Not Pictured)

- Sullair AWF® lubricant for wide range of temperature applications
- Independently operated oil pump
- Combination of labyrinth and carbon ring seals

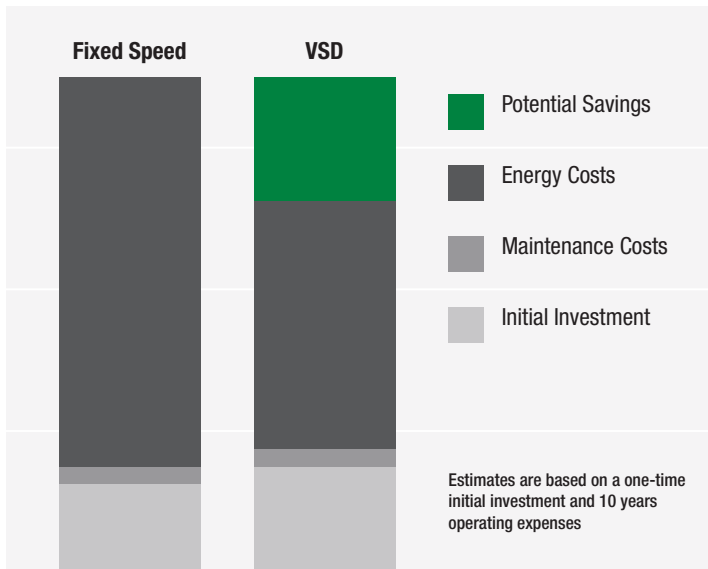


AIR COMPRESSORS WITH VSD

TECHNICAL SPECIFICATIONS

60Hz MOTOR FREQUENCY MODEL	MOTOR		FULL LOAD CAPACITIES					
	hp	kW	100 PSI acfm	7 bar m ³ /min	125 PSI acfm	9 bar m ³ /min	150 PSI acfm	10 bar m ³ /min
7507W	100	75	448	12.7				
7509W	100	75			447	12.7		
9007W	125	93	534	15.1				
9009W	125	93			533	15.1		
9011W	125	93					446	12.6
11507W	150	112	655	18.5				
11509W	150	112			655	18.5		
11511W	150	112					532	15.1
15007W	200	149	801	22.7				
15009W	200	149			822	23.3		
15011W	200	149					654	18.5
19007W	250	186	1248	35.3				
19009W	250	186			1112	31.5		
19011W	250	186					1017	28.8
22507W	300	224	1370	38.8				
22509W	300	224			1308	37		
22511W	300	224					1244	35.2
25007W	350	261	1654	46.8				
25009W	350	261			1484	42		
25011W	350	261					1367	38.7

FOR MAXIMUM ENERGY EFFICIENCY AND OPERATING CONSISTENCY



Sullair Compressors with VSD Provide:

- Excellent energy savings
- Relief from potential peak demand charges
- Possible utility company rebates
- Stable system pressure
- Consistent product quality
- Reduced system air leaks
- Reduced storage requirements
- Flexibility for future growth
- Lowest life-cycle cost

YOUR COMPRESSED AIR SYSTEM CAN IMPROVE YOUR BOTTOM LINE:

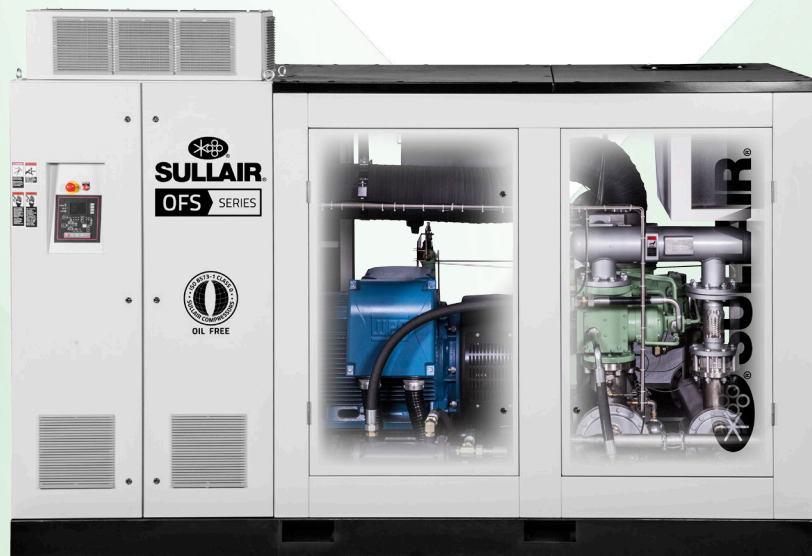
Total Compressor Flexibility

Sullair VSD compressors provide flexibility to vary both capacity and pressure. This allows you to “grow” your air system without adding more compressors.

Soft Start is Standard with Unlimited Starts and Stops

- No need for Wye Delta and solid state soft starters
- No need to control the number of hot or cold starts
- Unlimited starts and stops save electrical costs
- Avoids high electrical current at start-up

WEIGHT	WEIGHT WITH VSD	LENGTH	LENGTH WITH VSD	WIDTH	HEIGHT	HEIGHT WITH VSD
lbs (kg)	lbs (kg)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
7170 (3250)	7280 (3300)	105 (2650)	105 (2650)	67 (1700)	71 (1800)	81.5 (2070)
7170 (3250)	7280 (3300)					
7390 (3350)	7500 (3400)					
7390 (3350)	7500 (3400)					
7390 (3350)	7500 (3400)					
7610 (3450)	7720 (3500)					
7610 (3450)	7720 (3500)					
7610 (3450)	7720 (3500)					
7830 (3550)	7940 (3600)					
7830 (3550)	7940 (3600)					
7830 (3550)	7940 (3600)	130 (3300)	138 (3500)	75 (1900)	83 (2100)	95 (2400)
11,030 (5000)	11,250 (5100)					
11,030 (5000)	11,250 (5100)					
11,030 (5000)	11,250 (5100)					
11,250 (5100)	11,470 (5200)					
11,250 (5100)	11,470 (5200)					
11,250 (5100)	11,470 (5200)					
11,470 (5200)	11,690 (5300)					
11,470 (5200)	11,690 (5300)					
11,470 (5200)	11,690 (5300)					



For more information, contact your local authorized Sullair distributor.