



# ES-6 *S-energy*<sup>®</sup>

Encapsulated Rotary Screw Air Compressors

4-7 kW • 5-10 hp



# LEGENDARY SULLAIR PRODUCTS

Since 1965, Sullair Compressed Air Solutions have been known for their Reliability, Durability and Performance. The legacy continues now as Hitachi Global Air Power – featuring the legendary Sullair product line. Together, two titans in the industry bring experience, engineering and expertise for every compressed air need.

**RELIABILITY.  
DURABILITY.  
PERFORMANCE.**

*These are the pillars that drive the quality of Sullair compressed air solutions. It's a promise we keep with every machine we make.*

## RELIABILITY

Customers who work with Sullair compressors have found intangibles make all the difference—things like trust, confidence and peace of mind. They go to work every day having full faith in their equipment, as well as the knowledge they have access to true compressor experts ready to support them every step of the way.

## DURABILITY

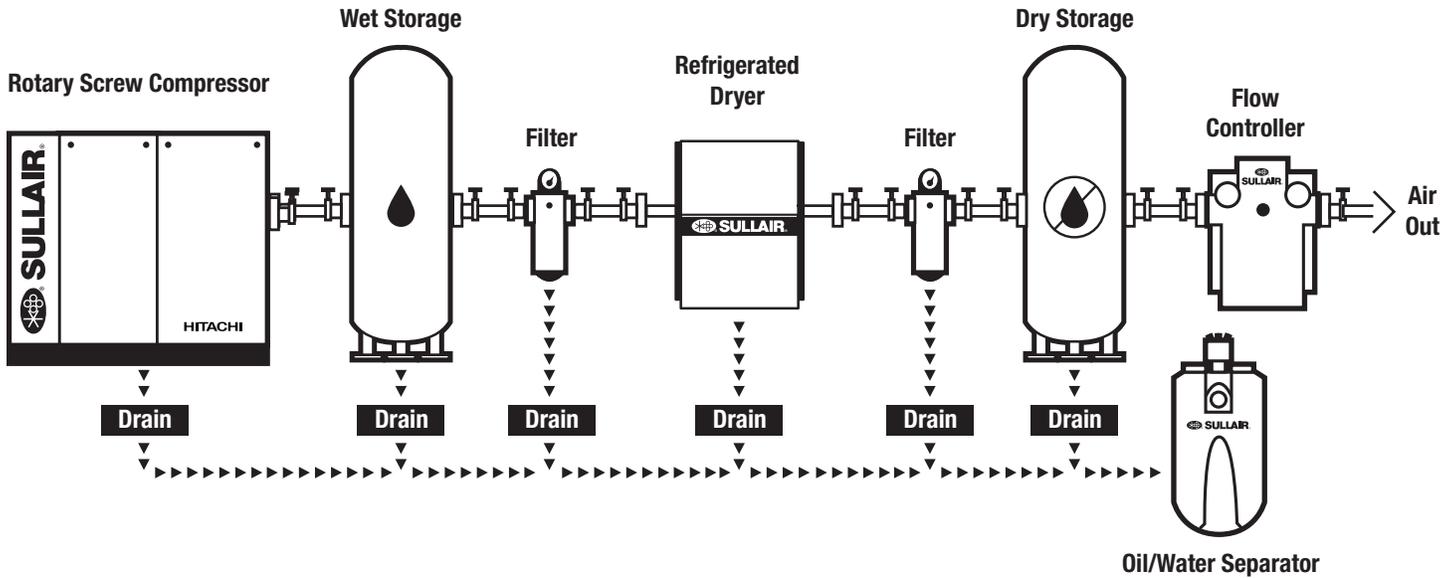
Hitachi Global Air Power represents the collective strength of more than 150 years of compressor experience and the legendary durability of Sullair products. In shops and factories all around the world, our products have withstood the test of time, running consistently today as they did on day one.

## PERFORMANCE

Sullair compressors are constantly engineered to incorporate the most advanced innovations to improve machine performance. This means machines engineered for energy efficiency, ease of use and simplified service and maintenance.

*The Hitachi Global Air Power network of engineering and quality experts continues to build next-generation, environment-forward compressed air solutions to meet the demands of today's hard-working customers.*

# SULLAIR INDUSTRIAL AIR POWER SYSTEMS



Hitachi Global Air Power offers total compressed air systems to help compressed air users reduce energy costs and improve productivity by analyzing, managing and controlling compressed air systems.

Sullair compressed air solutions include: plant air audits, energy efficient products, compressed air system controls, equipment to monitor and manage systems, air distribution products, and after-purchase support.

Each component of the system is carefully matched for capacity and pressure to provide maximum performance and energy efficiency.

## The system includes:

- Rotary screw compressor
- Wet storage
- Refrigerated dryer or desiccant dryer
- Filters to meet your requirement
- Dry storage
- Flow controller
- Drains
- Oil/water separator

## Solutions to Help Reduce Life Cycle Costs



- Equipment
- Maintenance
- Electricity

## Air Compressor Life Cycle Costs

According to *Best Practices for Compressed Air Systems, Compressed Air Challenge* [Second Edition, 2007] energy costs now represent 82% of the total operating expenses. Energy savings from S-energy® compressors can significantly reduce life cycle costs.

## S-energy compressors significantly reduce operating and energy costs over the entire compressor life cycle.

- Proven Sullair air end with a low restriction inlet valve
- High-efficiency fan
- Low-pressure-drop air-fluid separation system to prevent energy loss

## Our filter designs deliver cost savings for the life of the product by improving air filtration. This means:

- Extended separator life
- Improved fluid filter life
- Less lubricant contamination

## S-energy compressors are factory-filled with biodegradable Genuine Sullube® fluid.

- Protects and cleans (no varnish)
- Controls operating temperatures
- Optimal viscosity
- Environmentally friendly
- Reduces fluid loss
- High flash point (505°F/263°C)

# SULLAIR ES-6 S-ENERGY®

## ENCAPSULATED ROTARY SCREW AIR COMPRESSOR

### 1. Aftercooler / Oil Cooler

- Air-cooled
- Simplified access
- Easy cleaning

### 2. Heavy-Duty Air Filter

- Protects premature failure of key components
- Extends separator, fluid filter and fluid life

### 3. Sullair Versatile Control System

- Allows the compressor to run in modulation or load/no load operation
- Matches output to demand
- Stabilizes system pressure
- Extends package life
- Package instrumentation

### 4. Encapsulated Design

- Maintenance items are easy to replace
- Minimizes connections

### 5. Multi-Stage Air-Fluid Separator

- Reduces fluid carryover to less than 2 ppm
- Lowers make-up fluid costs
- Separator element is easily replaced

### 6. Fluid Sight Glass

### 7. Spin-On Fiberglass Fluid Filter

- Aircraft-quality media provides better filtration
- Up to 20% more efficient than conventional paper elements
- Lengthens life of the compressor
- Filter service life is extended up to one year

### 8. Oil Drain Tube

### 9. Starter

- Integrated full voltage starter





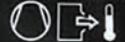
**SULLAIR**



LINE PRESSURE



DISCHARGE TEMP.



OFF/RESET

ON

AUTO

POWER ON

MANUAL



**DANGER**



Lethal shock hazard inside.

To be opened by authorized personnel only.

Disconnect all power at source before opening or servicing.

**DANGER**  
Lethal shock hazard. Disconnect all power at source before opening or servicing.

**DANGER**  
Danger mortel de électrocution. Déconnectez toute source d'alimentation avant toute ouverture ou intervention de maintenance de la machine.

**GEFÄHRDUNG**  
Tödliche Stromschlaggefahr. Die Quelle (230V) oder jeden Energiefeld angeschlossen oder an Schaltschrank anschließen Stromabklemmen.

**PERICOLO**  
Pericolo mortale di elettrocuzione. Disconnettere tutta la fonte di alimentazione prima di qualsiasi apertura o di qualsiasi intervento di manutenzione della macchina.

**PERICULO**  
Peligro mortal de electrocucion. Desconectar toda las fuentes de alimentacion antes de abrir o de realizar una intervencion de mantenimiento en la maquina.

**⚡ 危險**  
致命電氣危險。切斷電源之前切勿打開機殼或修理。

022004071-472

**ES-6**



**SULLAIR**

# SUPERIOR FEATURES AND BENEFITS

## Simple, Compact Design

Sullair encapsulated compressors use a simple design to provide exceptional reliability and extremely low maintenance. Designed with a smaller footprint and 40% fewer parts than conventional models, these compact machines redefine industry standards for continuous duty compressors in the 5 to 10 hp range.

## Rotary Screw Reliability

S-energy® encapsulated compressors use the legendary Sullair Single-Stage Rotary Screw Air End, featuring patented E-Profile rotors and rugged bearing design.

## Lower Maintenance Costs

Thanks to a simplified design using fewer parts and connections, S-energy compressors require only minimum routine maintenance.

## Superior Package Design

- 40% fewer parts improve reliability
- Small footprint
- Designed for continuous duty

## Optional Sound Enclosure

- Reduces sound levels as low as 68 dBA
- Lift out doors

## Legendary Sullair Air End

- Patented E-profile rotor design
- Longer bearing life

## Helical Design Drive Gears

- Reduces thrust load
- Increases bearing life

## Bearing Fluid Reservoirs

- Ensures fluid is available at start-up
- Extends air end life

## Flange-Mounted Motor and Air End

- Provides positive alignment
- Optimizes bearing life of air end and motor
- Motor enclosure is Totally Enclosed Air Over (TEAO)
- Available voltages include 200v, 230v, 460v and 575v

## Factory-filled with biodegradable Genuine Sullube® fluid.

- Protects and cleans (no varnish)
- Controls operating temperatures
- Optimal viscosity
- Environmentally friendly
- Reduces fluid loss
- High flash point (263°C)

## PristineFG™ is Optional

- Meets USDA and FDA H1 requirements
- Reduces lubricant consumption
- Performs in wide temperature range
- Extends compressor life

## Sullair 10-Year Diamond Warranty

The Sullair 10-Year Diamond Warranty provides comprehensive protection for Sullair oil flooded rotary screw air compressors. This program distinguishes itself by covering all major components for new air compressors (with discharge pressures up to 150 psi):

### 10-Year Coverage:

- Sullair air end

### 5-Year Coverage:

- Main motor
- Aftercooler
- Oil cooler
- Separator vessel



# S-energy®

## PERFORMANCE AIR SYSTEM

Compressed air is a vital to operations. To meet varying air quality requirements, we offer a total compressed air package.



### S-energy® Performance Air System

- ES-6 compressor
- Refrigerated dryer
- Liquid and particulate filter
- Receiver tank

All System components have been perfectly sized to provide maximum performance. Plus, the Performance Air System is simple to install and has a compact footprint—saving floor space.

### Clean, Dry Air is Essential

Quality air treatment — the removal of condensate and particulate — is essential to protect your plant air system and air-using equipment. Plus, quality air can help improve the quality of your product and processes.

We take the guesswork out of putting your system together and help achieve your goals with:

- Matched refrigerated dryer — to help remove water vapor found in compressed air.
- High-efficiency filter — to help remove particles as well as coalesced liquid and lubricants.

# TECHNICAL SPECIFICATIONS

FOR MORE INFORMATION, CONTACT YOUR LOCAL AUTHORIZED SULLAIR DISTRIBUTOR.



60HZ MOTOR FREQUENCY	MOTOR		PERFORMANCE FULL-LOAD CAPACITIES			
Model	hp	kW	125 psi/cfm	8.6 bar / m³/min	175 psi/cfm	12.1 bar / m³/min
5H	5	3.7	17	.48	—	—
5XH	5	3.7	—	—	13	.36
7.5H	7.5	5.5	28	.79	—	—
7.5XH	7.5	5.5	—	—	20	.56
10H	10	7.4	36	1.01	—	—
10XH	10	7.4	—	—	30	.84

STYLE	CUSTOMER CONNECTION	DIMENSIONS, ALL ES-6 MODELS						ES-6 5H/XH			ES-6 7.5H/XH			ES-6 10H/XH		
		Length		Width		Height		Weight		dBA Rating*	Weight		dBA Rating*	Weight		dBA Rating*
		in	mm	in	mm	in	mm	lbs	kg		lbs	kg		lbs	kg	
Open	½" NPT	29.5	749	25.5	648	22.8	579	230	104	80	270	122	82	280	127	85
Enclosed	¾" NPT	44.0	1117	28.0	711	28.0	711	400	181	68	440	199	69	450	204	70

STYLE	CUSTOMER CONNECTION	DIMENSIONS, ALL ES-6 MODELS						ES-6 5H/XH			ES-6 7.5H/XH			ES-6 10H/XH		
		Length		Width		Height		Weight		dBA Rating*	Weight		dBA Rating*	Weight		dBA Rating*
		in	mm	in	mm	in	mm	lbs	kg		lbs	kg		lbs	kg	
Open Tankmount 80 gal	1¼" NPT	64.5	1638	26.5	650	50.0	1270	560	254	80	600	272	82	610	276	85
Open Tankmount 120 gal	1¼" NPT	67.0	1702	27.0	686	54.0	1371	650	294	80	690	312	82	700	317	85
Enclosed Tankmount 80 gal	1¼" NPT	66.0	1676	28.0	711	52.5	1333	710	322	68	750	340	69	760	344	70
Enclosed Tankmount 120 gal	1¼" NPT	68.0	1727	28.0	711	56.5	1435	800	362	68	840	381	69	850	385	70

STYLE WITH DRYER / FILTER	CUSTOMER CONNECTION	DIMENSIONS, ALL ES-6 MODELS						ES-6 5H/XH			ES-6 7.5H/XH			ES-6 10H/XH		
		Length		Width		Height		Weight		dBA Rating*	Weight		dBA Rating*	Weight		dBA Rating*
		in	mm	in	mm	in	mm	lbs	kg		lbs	kg		lbs	kg	
Open Tankmount 80 gal	½" NPT	69.5	1765	26.5	673	50.0	1270	640	290	80	680	308	82	690	312	85
Open Tankmount 120 gal	½" NPT	71.0	1803	27.0	686	54.0	1371	730	331	80	770	349	82	780	353	85
Enclosed Tankmount 80 gal	½" NPT	71.0	1803	28.0	711	52.5	1333	810	367	68	850	385	69	860	390	70
Enclosed Tankmount 120 gal	½" NPT	72.0	1828	28.0	711	56.5	1435	900	408	68	930	421	69	940	426	70

\* At 1 meter