



SN SERIES

Lubricated Rotary Screw Air Compressors
Constant Speed and Variable Speed Drives

55–75 kW • 75–100 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.



EFFICIENCY

HIGH-PERFORMANCE. LOW ENERGY USAGE.

SN Series efficiency is achieved by carefully selecting high-efficiency components.

DURABILITY

- Legendary Sullair Air End
- Robust 3G enclosure
- High-quality craftsmanship
- Precisely-engineered design

RELIABILITY

SN Series compressors are engineered for reliable performance — helping ensure maximum uptime.

QUICK & EASY SERVICE

- Lift-off panels
- Oil sampling valve
- Tilt & slide oil/aftercooler
- Integrated moisture separator



SN SERIES

*SN Series air compressors feature the robust, globally-recognized air end with a highly efficient asymmetric profile and tapered roller bearings — all backed by the Sullair comprehensive 10-year Diamond Warranty.**

SN Series compressors include:

- 3G enclosure design with lift-off panels for easy maintenance
- Improved air/oil separator design
- Oversized oil/aftercooler with higher cooling capacities (46°C/115°F)
- Efficient centrifugal fan and housing
- 7" Sullair Touch Screen Controller (STS): Provides easy access to all key compressor performance parameters
- Easy-access oil sampling valve
- Factory-filled with Genuine Sullube®

SN Series compressors can significantly reduce operating and energy costs over the entire compressor life cycle:

- Proven air end with the low-restriction inlet valve
- Premium efficient drive motor design
- Low-pressure-drop air/fluid separation system to help increase energy efficiency

Improved air filtration means:

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

* Maintaining the Sullair 10-Year Diamond Warranty requires using Genuine Sullair parts and Sullube, as well as the oil sampling program.

THE SULLAIR ADVANTAGE

STANDARD FEATURES

- Legendary air end
- Low-restriction inlet valve
- Low-carryover air/oil separator design
- High-efficiency drive and fan motor
- Integral compressor sequencing
- NEMA 4 Wye-Delta starter cabinet
- TEFC Motor
- 7" Sullair Touch Screen Controller (STS)
- Compact footprint
- Genuine Sullube® non-varnishing, biodegradable compressor fluid
- Optimalair® inlet filter designed to catch particles up to 5 times smaller compared to substitute products
- AirLinx® remote monitoring ready*
 - Easy-to-enable remote monitoring of key compressor operation parameters, warnings and alarms to help maximize uptime and efficiency

QUIET DESIGN

- Air end, motor and receiver tank mounted on rubber isolators
- Insulated intake and exhaust louvers
- Low-noise fan

OPTIONS

- Choice of air- or water-cooled
- Cold-weather package
- Weather hood
- EES® heat recovery system
- Spiral Valve technology
- VSD starter
- Magnetic air inlet filters (standard on VSD)
- High-ambient package (55°C, 131°F)
Available on SN55 models only
- PristineFG™ food-grade compressor fluid
- Oil containment pan (ships loose)



*Learn more about AirLinx



YOUR DIAMOND DECADE STARTS TODAY

Confirming the Sullair rugged design and commitment to customer satisfaction, all new lubricated stationary air compressors (with discharge pressures up to 150 psi) include comprehensive extended warranty coverage:

10-year air end protection

5-year coverage on:

- Main motor
- Fan motor
- Aftercooler
- Oil cooler
- Separator vessel
- Variable Speed Drive (VSD) *if equipped*

* Maintaining the Sullair 10-Year Diamond Warranty requires using Genuine Sullair parts and Sullube, as well as the oil sampling program.



GENUINE
SULLUBE®

To reduce fluid disposal costs, SN Series 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)

SN SERIES 75–100 hp Compressors



VARIABLE SPEED DRIVE (VSD)

- Robust, reliable and compact
- Maximum efficiency
- Operating consistency

DRIVE COUPLING ELEMENT

- Easy access allows change without disturbing hubs
- Designed for air end/motor protection

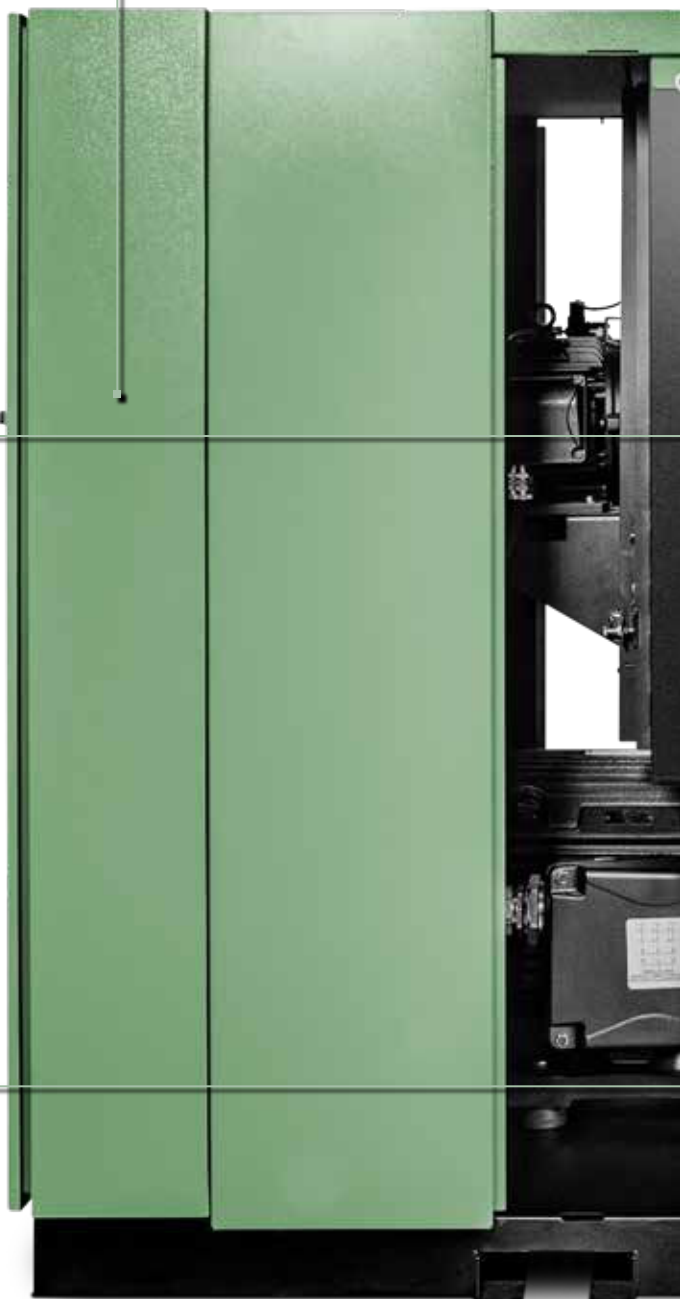
AFTERCOOLER/OIL COOLER

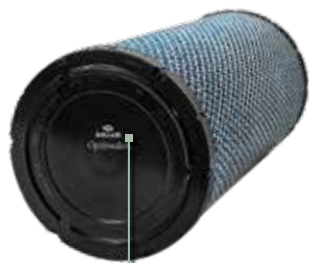
- Oversized two-piece design helps eliminate thermal shock
- Integrated moisture separator
- Rated at 46°C/115°F



LEGENDARY SULLAIR AIR END

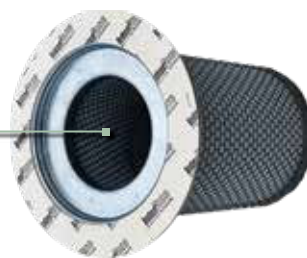
- Asymmetrical rotors made in the USA
- Durable
- Proven bearing design
- Backed by 10-year Diamond Warranty*





SULLAIR OPTIMALAIR® INLET FILTER

- Provides industry's finest inlet filtration
- Keeps fluid clean and extends internal component life
- Reduced pressure drop during operating life results in energy savings
- 99.95%+ overall efficiency/0.4 micron



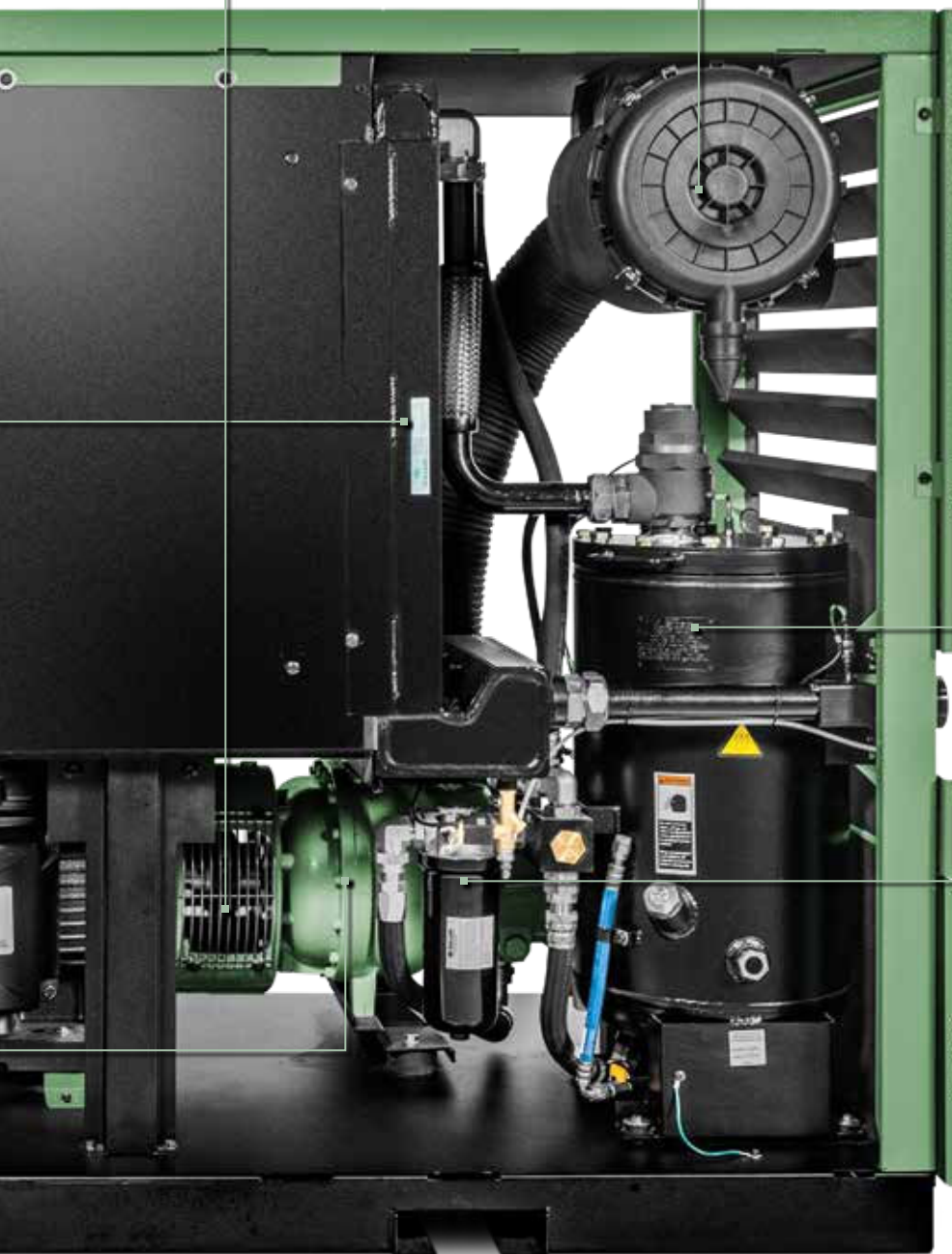
SULLAIR OPTIMIZER™ AIR-FLUID SEPARATOR

- High-efficiency media
- Low pressure drop for reduced power consumption
- Less than 3 ppm carryover to reduce make-up fluid



OIL SAMPLING VALVE

- Easy push button, metered valve allows for sampling while machine is in operation
- Simplifies maintaining your Diamond Warranty

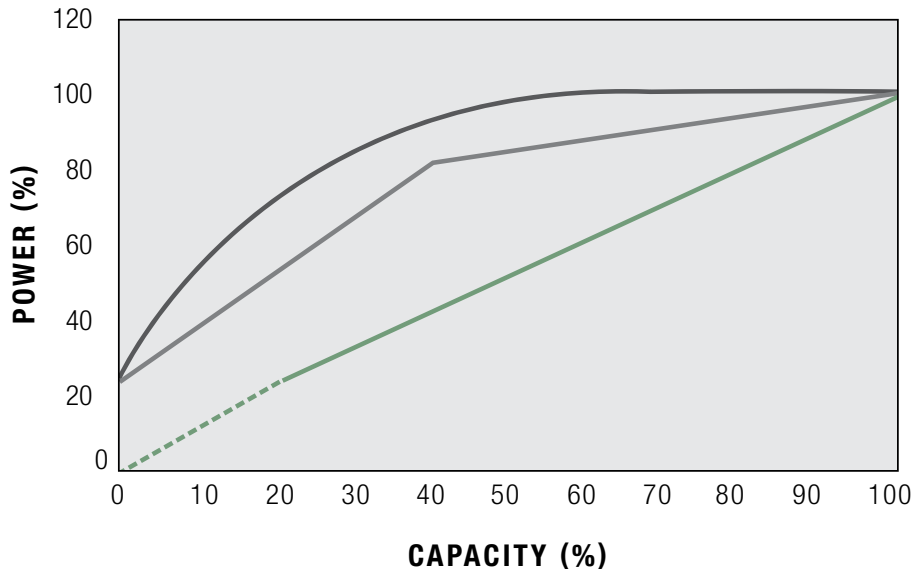


7500V model shown

AIR COMPRESSOR CAPA

VARIABLE SPEED DRIVE (VSD)

PART-LOAD PERFORMANCE ASSESSMENT



- Single-Stage Lubricated Load/Unload (based on one gallon/storage per cfm)
- Single-Stage Lubricated Inlet Modulation with Blowdown
- Single-Stage Lubricated Variable Speed



Reference: Compressed Air and Gas Handbook, 6th Edition, pages 221-223.

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
- DC link choke

The chart above is a representation of nominal control systems for generic comparative purposes. A detailed and accurate comparison of specific compressor models is available from your authorized distributor.

YOUR COMPRESSED AIR SYSTEM CAN IMPROVE YOUR BOTTOM LINE:

35% energy savings in the first five years

In just five years, the electrical power cost to operate a standard compressor can be more than six times greater than its purchase price.

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 other 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

CITY CONTROL OPTIONS

SPIRAL VALVE TECHNOLOGY

How Spiral Valve Operation Works

Compression volume varies to suit air demand by progressively opening or closing internal bypass ports on the air end.

Capacity is matched to system demand, reducing cycling time and extending component life.

Part-load capacity and efficiency can produce energy savings from 17–35%.

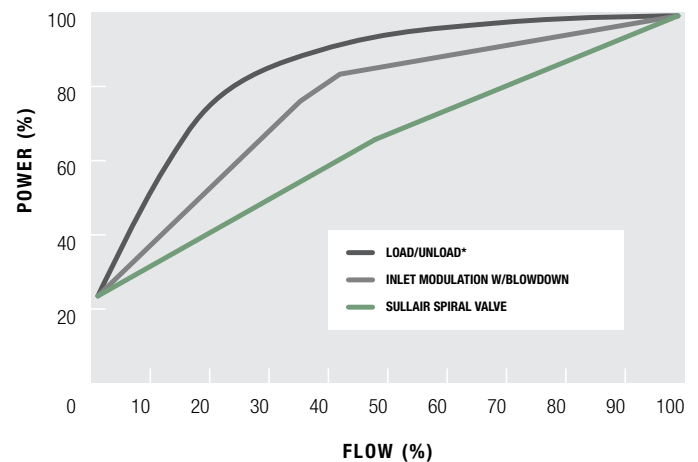
Variable Displacement Air End

The Sullair Variable Displacement Air End maintains system pressure to the plant to match air demand. Since the Spiral Valve compressors use large, efficient, slow-running rotors, a lower power consumption is achieved at the top end of capacity. Oil foaming does not occur, air is not wasted to atmosphere and bearings last longer.

The motor and air end run at optimum speed helping maintain optimum efficiency throughout the full variable output range.

Sullair Spiral Valve compressors react quickly to rapid changes in demand. The effective rotor length is progressively reduced as the demand is reduced which provides the most efficient part load control system to 55% output. This system is extremely simple and provides a cost-effective, energy-efficient control alternative.

COMPRESSOR PERFORMANCE COMPARISON



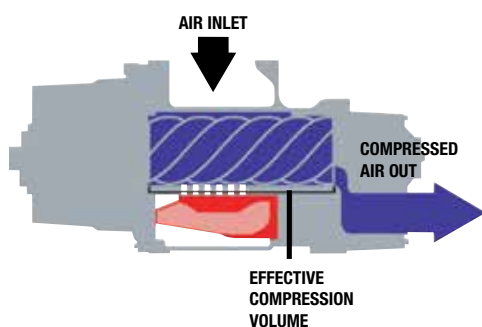
The chart above is a representation of nominal control systems for generic comparative purposes. A detailed and accurate comparison of specific compressor models is available from your authorized distributor.



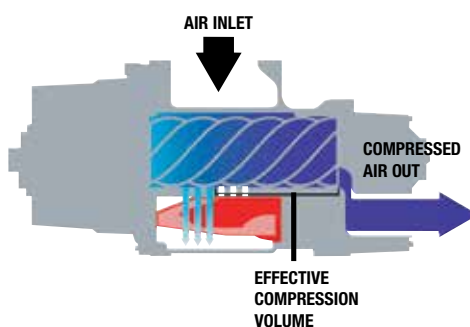
BYPASS PORTS IN STATOR

Rotors removed to show Bypass Ports

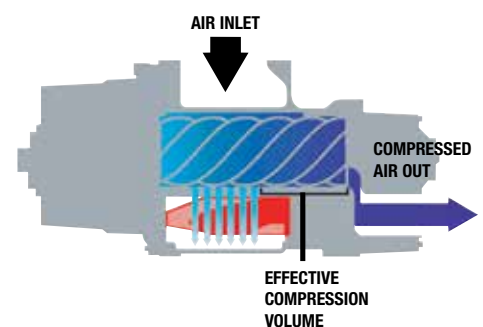
CLOSED BYPASS PORTS



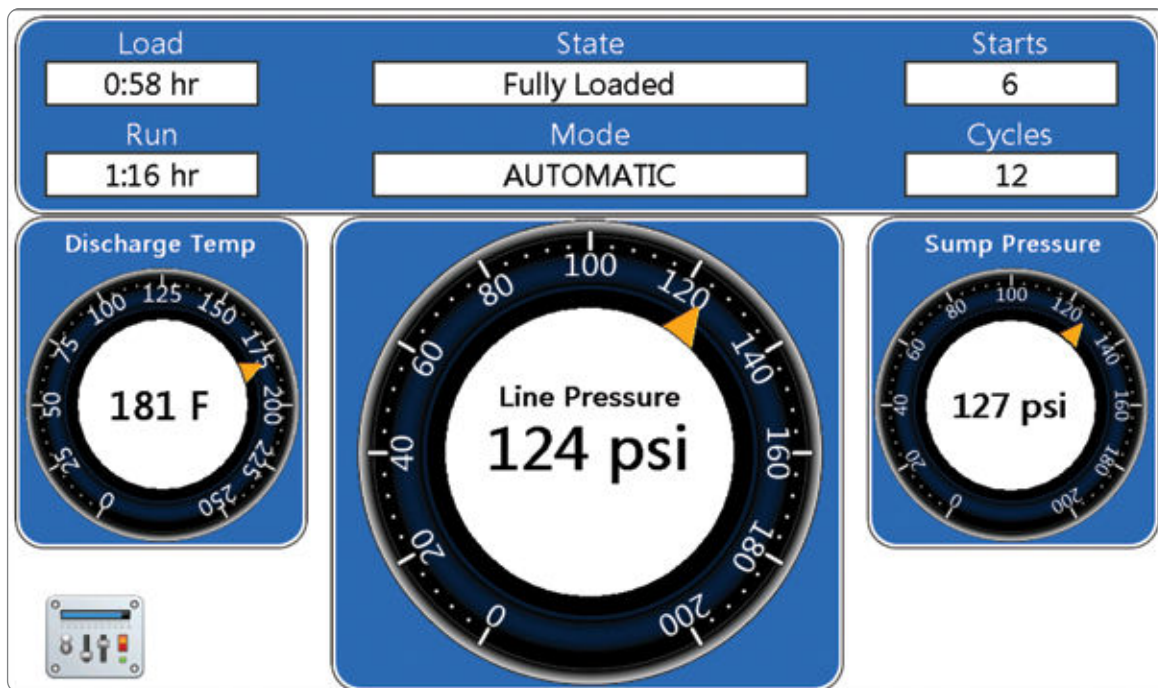
PARTIALLY OPEN BYPASS PORTS



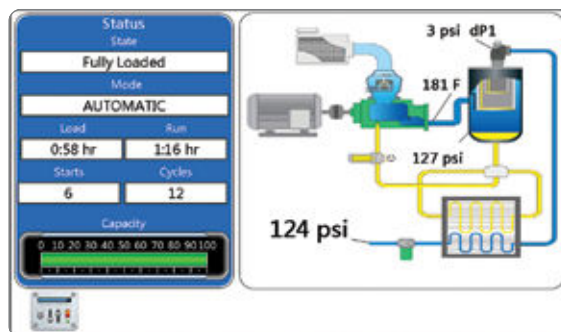
OPEN BYPASS PORTS



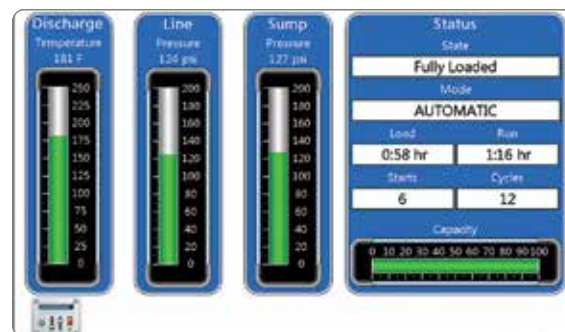
ULTIMATE IN USER CONTROL



Actual Size



Optional Mimic Screen



Optional Analog /Digital Screen

The Sullair Touch Screen (STS) Controller utilizes a large 7" color screen for easy viewing in any lighting condition

MENU-DRIVEN SCREENS PROVIDE EASY ACCESS TO ALL COMPRESSOR CONTROLS

- Support for sequencing up to 16 compressors
- More communication capabilities: Ethernet, ModBus RTU and ModBus TCP, Cellular (AirLinx® service)
- Remote access capability via VNC (Virtual Network Computing) protocol
- Start/Stop scheduling with pressure control
- NEMA 4 environmental protection
- Discreet Start and Stop buttons
- Bright operating status LEDs even when display is dimmed
- Expandable I/O for additional sensor monitoring and output control
- Supports power monitoring
- Trend graphing of operational parameters
- Most controller functions and adjustments via protected controller submenus
- New data download capabilities

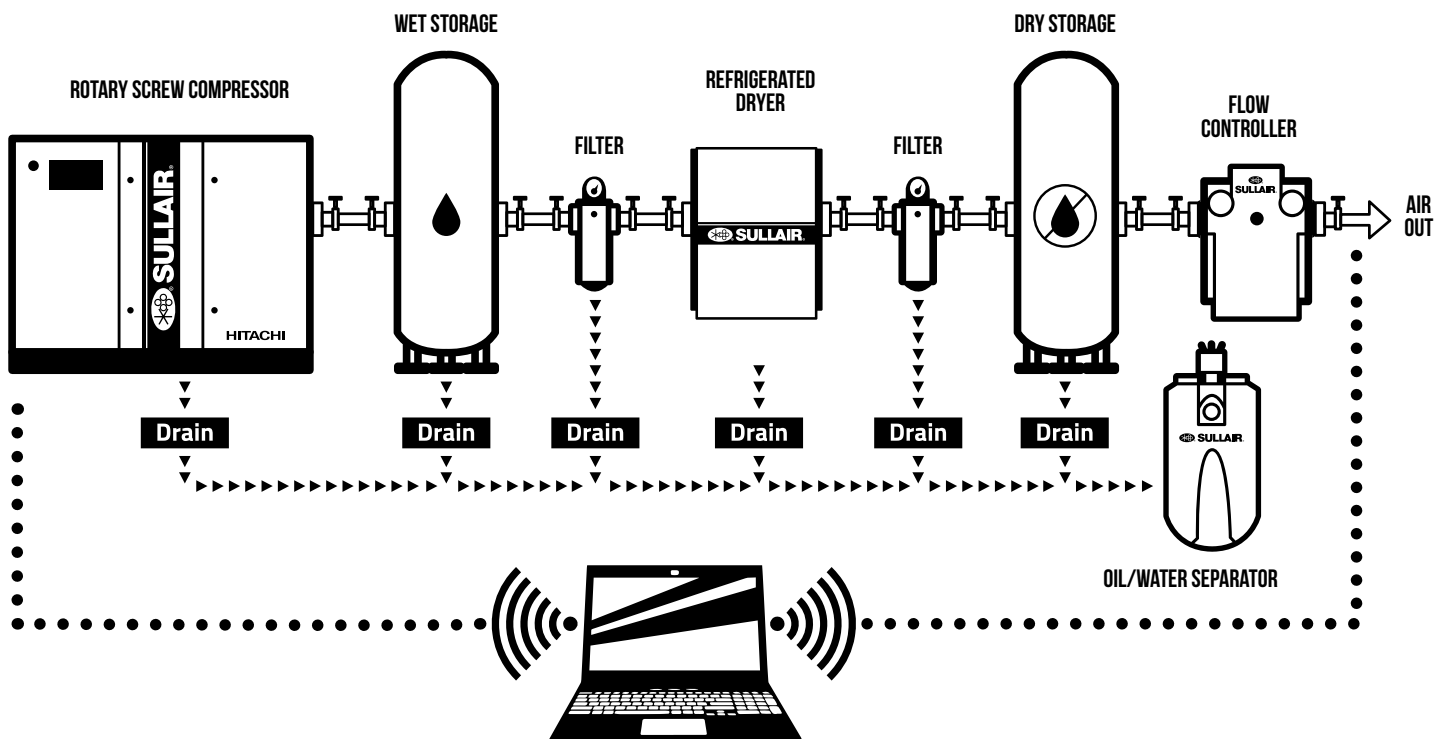
STATIONARY AIR POWER SYSTEMS

With our expertise in analyzing, managing and controlling compressed air, Hitachi Global Air Power offers total compressed air solutions to help you reduce energy costs and improve productivity.

- Plant air audits
- Energy-efficient products
- Compressed air system controls
- Equipment to monitor and manage air systems
- Air distribution products
- After-purchase support

Plus, a full line of premium OEM parts and lubricants to help keep your compressor running optimally.

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



TECHNICAL SPECIFICATIONS

FOR MORE INFORMATION, CONTACT YOUR
LOCAL AUTHORIZED SULLAIR DISTRIBUTOR.

60 Hz FREQUENCY			FULL LOAD CAPACITIES								WEIGHT (ODP)		DISCHARGE CONNECTION	DIMENSIONS	SOUND LEVEL
MODEL #	MOTOR		100 psi cfm	7 bar m³/min	125 psi cfm	8.6 bar m³/min	150 psi cfm	10.3 bar m³/min	175 psi cfm	12.1 bar m³/min	lbs	kg	in	L x W x H in (mm)	dBA
	hp	kW													
SN5500	75	55	377	10.68	344	9.74	297	8.41	277	7.84	3248	1473	2" NPT	88 x 43 x 69 (2223 x 1103 x 1740)	70–73
SN5500V	75	55	377	10.68	341	9.66	306	8.66	278	7.87	3346	1518			
SN5500S	75	55	387	10.96	354	10.02	—	—	—	—	3390	1538			
SN7500	100	75	490	13.88	444	12.57	398	11.27	370	10.48	3476	1577			
SN7500V	100	75	500	14.16	457	12.94	420	11.89	394	11.16	3729	1691			
SN7500S	100	75	500	14.16	457	12.94	418	11.84	371	10.51	3618	1641			