

SPECIFICATIONS

SULLAIR INDUSTRIAL PRODUCTS 

LS16T Series 60Hz

100 - 200 HP Industrial Air Compressor

COMPRESSOR UNIT:	Two-stage, flood lubricated and cooled, asymmetrical lobe, rotary screw type. Axially ported inlet. Unit equipped with tapered roller bearings for high load capacity.
MOTOR:	Premium efficient standard NEMA TSD frame, D-Flange, Class F insulation, open drip-proof, squirrel cage induction type. 40°C maximum ambient temperature.
STARTER:	Full Voltage magnetic with 120-volt control circuit, transformer, terminal strip and full three-phase overload protection in NEMA 4 enclosure, mounted and wired.
COUPLING:	Motor couples direct to compressor unit through long life non-lubricated, flexible coupling. Motor is flange mounted to compressor, and mounted on heavy steel unitized sub-base for positive alignment.
INLET AIR FILTER:	Heavy-duty, two stage dry type with differential pressure gauge with an over-sized, cleanable element for longer life and easy replacement.
AIR / FLUID RECEIVER & SEPARATION SYSTEM:	ASME 400 PSIG rated tank with ASME pressure relief valve; exclusive fluid filler to prevent overfilling; fluid level sight glass; two stage nested and pleated, high efficiency, long life air/fluid separator elements, combination minimum pressure and discharge check valve; pneumatic blowdown valve.
COOLING/LUBRICATION SYSTEM:	Fluid removes heat of compression from compressor unit and is circulated by air pressure differential (no pump required) through air-cooled or water-cooled heat exchanger and filter. Equipment includes mounted and piped air-cooled aftercooler with 1200 RPM fan updraft discharge; or watercooled aftercooler with water through the tubes, air in shell; complete with moisture separator and condensate trap. The lubrication system consists of full flow fluid filter, fluid thermal bypass valve; water flow control valve on water-cooled machines.
CONTROL:	Capacity modulation range from 100 to 40 percent. Operating pressure can be set from 225 to full load PSIG with pneumatic control. A pressure regulator matching compressor output to system demand controls inlet valve piston. Below 40 percent air demand will unload by use of pressure switch and pneumatic blowdown valve, reducing receiver pressure and minimizing no load power consumption. Automatic start / stop of the compressor package via pressure switch to match system demands.
CONTROL PANEL & PROTECTIVE DEVICES:	Supervisor Controller microprocessor control with pressure and temperature inputs provides warning and shutdown indication on a 4-line, full text, backlite display. Message display for high unit discharge temp, high unit discharge pressure, main drive motor overload, cooling fan motor overload, or water pressure and sensor malfunctions. Mounted in NEMA 4 enclosure. Continuous monitoring and display of essential functions: discharge line pressure, load status, unit discharge temperature, total hours run and power on. Touch pad keys may select additional points. Maintenance indication for air filter, fluid filter and air/fluid separator is also displayed. Help key provides built-in troubleshooting guide. Service and preventive maintenance screens indicate consumable part life remaining (fluid, air filter, fluid filter and separators). RS-232 and RS-485 communication ports allow for several communications and remote monitoring control options.
GENERAL:	Standard fluid fill is biodegradable, non-varnishing - SULLUBE. Optional heavy gauge steel attenuating enclosure with removable panels. No special foundation or tie down requirements.

NOTE: Data subject to change without notice.

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