SPECIFICATIONS

SULLAIR INDUSTRIAL PRODUCTS

LS-20T Series

200-300 HP Industrial Air Compressor

COMPRESSOR UNIT:	Two-stage, flood lubricated and cooled, asymmetrical lobe, rotary screw type. Axially ported inlet. Both stages are 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. 1200 RPM on model 20/12-500, 1800 RPM for other models. 40°C maximum ambient temperature.
STARTER:	Optional on this series. Consult factory for various combinations offered.
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 inside safety element and differential pressure indicator. Sized for long life. First stage is cleanable, both elements individually secured and easily replaced.
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 integral air-cooled or integral water-cooled heat exchanger and fluid filters. Equipment includes integral air-cooled aftercooler with 1200 RPM fan for quiet discharge; or integral water-cooled aftercooler with water through the tubes, air in the shell; complete with moisture separator and condensate trap. The lubrication system consists of full flow fluid filter and fluid thermal bypass valve.
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 sound attenuating enclosure with removable panels. No special foundation or tie down required for normal application; requirement may vary with changing environments or customer specifications.

NOTE: Data subject to change without notice.

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