LS-20T

SULLAIR

200-500 hp.
Sullair LS-20T Series Air Compressors
Two-stage, high pressure performance. Sullair dependability.

Compressor unit
Two-stage, flood lubricated and cooled, asymmetrical lobe, rotary screw type.
Axially ported inlet.
First-stage compressor unit equipped with tapered roller bearings for high load carrying capacity.
Second-stage equipped with with angular contact ball bearings.

Motor
460V standard NEMA TSD frame, D-flange Class B insulation, open drip-proof, squirrel cage induction type; 1200 RPM on model LS-20T-500, 1800 RPM on all other models.

Starter – Magnetic full voltage
Optional on this series. Consult factory for various combinations offered.

Coupling
Motor couples 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.
Oversized for long life.
Cleanable and easily replaced.

Air/fluid separation
ASME 400 PSIG rated tank with ASME pressure relief valve.
Exclusive fluid filler to prevent over filling.
Fluid level sight glass.
Pleated air/fluid separator element.
Minimum pressure 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 fluid filters.
Equipment includes mounted and piped air-cooled aftercooler with 1200 RPM fan for quiet discharge; or water-cooled aftercooler with water through the tubes, air in shell.
Complete with moisture separator and condensate trap.
The lubrication system consists of full-flow main strainer and bearing fluid filter, fluid thermal bypass valve; water flow control 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 Sullimatic control.
Inlet butterfly valve is controlled by a diaphragm and a pressure regulator holding constant pressure. Below 40 percent air demand, machine will unload by use of a pressure switch and a pneumatic blowdown valve, reducing receiver pressure and minimizing no-load power consumption.

Protective devices
Thermistor-type high pressure discharge temperature switch with dual probes at compressor interstage and receiver.
Switches for
High discharge pressure.
Motor overload.
Low water pressure (on water-cooled models).
Fan motor overload (on air-cooled models).

Control panel
Supervisor Microprocessor Controller
Is standard, and reliability and simplifies controls.
Hourmeter.
Start/stop switches.
Differential pressure indicator for air filter, fluid bearing filter and separator element.

General
Optional heavy gauge steel sound attenuating enclosure with removable panels.
No special foundation or tie-down required for normal application; requirements may vary with changing environments or customer specifications.