

SPECIFICATIONS

V-320TS Series 60Hz

200 - 450HP Heavy Duty Industrial Air Compressor

COMPRESSOR UNIT:	Two Stage Tandem, heavy duty, flood lubricated, asymmetrical lobe, rotary screw type. First & second stage units feature back to back tapered roller bearings on both drive rotors and both idler rotors for maximum L-10 bearing life.
MOTOR:	Premium Efficient, 460V standard NEMA TS frame, Class F insulation, 4 pole, Open Drip-proof, squirrel cage induction type. 40°C maximum ambient temperature. A separate (Epact rated) cooling fan motor (TEFC) for air-cooled machines is provided.
DRIVE:	Variable speed drive (VSD), (460V) in a NEMA 1 enclosure (shipped loose) is standard. 575V is available as an option.
COUPLING:	Motor couples direct to compressor unit through non-lubricated, flexible coupling on 200HP through 350HP models and disc type spacer coupling on 400 and 450HP models. Split type coupling guard is provided for easy access and 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 HOUSING & SEPARATION SYSTEM:	ASME 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 element; combination minimum pressure and discharge check valve on 200HP through 350HP models. Separate check valve and air operated minimum pressure valve on 400 and 450HP models.
COOLING LUBRICATING SYSTEM:	Fluid removes heat of compression from compressor unit and is circulated by air pressure differential (no pump required) through integral mounted air-cooled or water-cooled heat exchanger and filter. Equipment includes air-cooled aftercooler/fluid cooler combination mounted for updraft discharge or water-cooled aftercooler and fluid cooler with water through the tubes and air or fluid in the shell with moisture separator and electric drain. Spin on full flow fluid filter, fluid thermal bypass valve, and cooling fan motor starter on air-cooled machines. "O" ring seals are used on fluid connections. Maximum ambient temperature of air-cooled packages is 40°C (104°F). Optional higher ambient cooling packages are available.
CONTROL:	Variable Speed Drive (VSD) Control System is used to match compressor output to system demand by controlling compressor speed. Capacity modulation range covers from 100 to 20 percent Below 20 percent air demand, the machine will unload and shutdown at the same time relieving sump pressure to atmosphere.

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**CONTROL PANEL AND
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 overload, cooling fan motor overload, or cooling water pressure and sensor malfunctions. 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. VSD screen display has the following key functions: 1.: Capacity, 2.: Power Consumption, 3.: Energy Savings.

GENERAL:

Standard fluid is biodegradable, non-varnishing, 10000 hour synthetic- SULLUBE. lubricant with 10-year air end warranty. All components are assembled and mounted as an integral package. Corrosion resistant control tubing and fittings are standard. All units are factory tested for mechanical integrity.

OPTIONS AVAILABLE:

Cold weather package; TEFC main motor premium efficient; enclosure with removable doors, EES heat recovery, water regulating valve and weatherhood. Other options available to meet specific applications consult factory.

NOTE: Data subject to change without notice.

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