

TECHNICAL DATA

TS-32S Series - 450 HP 60 Hz Horsepower Rated

MODEL	450L	450H	450HH
<u>Compressor Performance*</u>			
Full Load Pressure - psig	100	125	150
Capacity at Full Load Pressure - acfm	2350	2135	1943
Power at Full Load Pressure - bhp	477.0	475.0	475.0
Package kW Air-Cooled	382.3	380.6	380.6
Package kW Water-Cooled	369.9	368.3	368.3
Gear Ratio	1.10	1.00	0.91
<u>Cooling Data</u>			
Fluid Flow - gpm	77	86	94
Heat Rejection - Fluid Clr. BTU/min.	16281	16595	16958
Heat Rejection - Aft. Clr. BTU/min.	3944	3545	3182
<u>Water-Cooled Series Flow (w/aftercooler)</u>			
Flow at 80°F Water in - gpm	87	87	87
Pipe connection NPT In/Out - in.	2.5 / 2.5	2.5 / 2.5	2.5 / 2.5
Max./Min. Water Pressure - psig	75 / 25	75 / 25	75 / 25
Water Outlet Temperature F°	105	105	105
<u>Cooling Air Flows</u>			
Air Flow Water-cooled Fan w/encl. - cfm	8300	4150	4150
Water-cooled Vent Fan - hp	0.75 (2)	3/4	3/4
Air Flow Air-cooled Fan - cfm	28500	30500	30500
Air-cooled Fan Motor-hp	15.0	15.0	15.0
Air-cooled Fan Motor Nominal Efficiency - %	90.2	90.2	90.2
Standard Fan Water Column - in	1/4	1/4	1/4
Optional High Static Fan Water Column - in	1/2	1/2	1/2
<u>Air/Fluid Housing</u>			
Fluid Fill Capacity - U.S. Gal.	48	48	48
Volume - Cubic Feet Air (U.S. Gal.)	32 (240)	32 (240)	32 (240)
Rated Pressure - psig	160	160	210
<u>dBa Ratings at 1 Meter (Typical)</u>			
Air-cooled w/o enclosure	98.5	98.5	98.5
Water-cooled w/o enclosure	93.8	93.8	93.8
Air-cooled w/enclosure	90.9	90.9	90.9
Water-cooled w/enclosure	83.2	83.2	83.2

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Filter Rating

Inlet Air	99.9% Eff. To 3 microns per SAE J726C
Main Lubricant Flow Beta	Beta 3 = 2, Beta 23 = 75 Per ISO 4572

Dimensions & Weights w/o Enclosure

Length - in.	175	175	175
Width - in.	84	84	84
Height - in.	91	91	91
Weight - lbs. - Air-Cooled	14800	14800	14800
Weight - lbs. - Water-Cooled	14500	14500	14500
Discharge Connection - in. Flanged	4	4	4
Moisture Drain Connection - in. NPT	3/4	3/4	3/4

Dimensions & Weights w/Enclosure

Length - in.	175	175	175
Width - in.	84	84	84
Height - in.	92	92	92
Weight - lbs. - Air-Cooled	15900	15900	15900
Weight - lbs. - Water-Cooled	15600	15600	15600
Discharge Connection - in. Flanged	4	4	4
Moisture Drain Connection - in. NPT	3/4	3/4	3/4

Electrical Data (Typical across all models)	460V	575V
Motor HP	450	450
Motor Nominal Efficiency	96.2%	96.2%
Nominal RPM	1800	1800
Frame Size (ODP)	507US	507US
Service Factor	1.15	1.15
Nameplate Amps	495	396
Locked Rotor Amps - Max.	3250	2759
Starter Enclosure Rating	NEMA 4	NEMA 4
Starter Size Amp Rating	360	360
Variable Speed Drive Enclosure Rating	N/A	N/A
Variable Speed Drive Amp Rating	N/A	N/A
Fan Amps (Air Cooled)	19.40	15.50
Package Amps 450L - AC/WC	545.9/528.2	436.7/422.8
Package Amps 450H - AC/WC	543.7/525.9	435.0/420.8
Package Amps 450HH - AC/WC	543.7/525.9	435.0/420.8

* Capacity per CAGI/PNEUROP PN2CPTC2 (Annex C to ISO 1217)

**Data is based upon 80°F & 80% R.H. Ambient Conditions.

NOTE: Data subject to change without notice

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