

## TECH DATA

### SN75S Series - 100 HP 60 Hz Horsepower Rated

<b>MODEL</b>	<b>SN7507S</b>	<b>SN7509S</b>	<b>SN7510S</b>	<b>SN7512S</b>
<b><u>Compressor Performance*</u></b>				
Full Load Pressure - psig	100	125	150	175
Capacity at Full Load Pressure - acfm	500	457	418	371
Power at Full Load Pressure - bhp	111.1	111.5	109.6	105.7
Package kW Air-Cooled	89.4	89.7	88.2	85.2
Package kW Water-Cooled	87.1	87.5	86.0	82.9
Gear Ratio	1.71	1.59	1.46	1.33
<b><u>Cooling Data</u></b>				
Fluid Flow - gpm	23.0	26.0	23.0	25.0
Heat Rejection - Fluid Clr. BTU/min.	3803	3897	3888	3809
Heat Rejection - Aft. Clr. BTU/min.	912	833	762	677
<b><u>Water-Cooled Series Flow (w/aftercooler)</u></b>				
Flow at 80°F Water in - gpm	20.0	20.0	20.0	20.0
Pipe connection NPT In/Out - in.	1 1/2 / 1 1/2	1 1/2 / 1 1/2	1 1/2 / 1 1/2	1 1/2 / 1 1/2
Max./Min. Water Pressure - psig	75/25	75/25	75/25	75/25
Water Outlet Temperature F°	110	110	110	110
<b><u>Cooling Air Flows</u></b>				
Air Flow Water-Cooled Fan w/encl. - cfm	2845	2845	2845	2845
Water-Cooled Vent Fan - hp	1/4	1/4	1/4	1/4
Air Flow Air-Cooled Fan - cfm	8200	8200	8200	8200
Air-Cooled Fan Motor - hp	3.0	3.0	3.0	3.0
Air-Cooled Fan Motor Nominal Efficiency	89.5%	89.5%	89.5%	89.5%
Standard Fan Water Column - in.	1/8	1/8	1/8	1/8
High Static Fan Water Column - in.	3/4	3/4	3/4	3/4
<b><u>Air/Fluid Housing</u></b>				
Fluid Fill Capacity - U.S. Gal.	5.0	5.0	5.0	5.0
Volume - Cubic Feet Air (U.S. Gal.)	3.1 (23)	3.1 (23)	3.1 (23)	3.1 (23)
Rated Pressure - psig	210	210	210	210
<b><u>dba Ratings at 1 Meter (Typical)</u></b>				
Air-Cooled w/enclosure	71	71	71	71
Water-Cooled w/enclosure	CONSULT FACTORY			
<b><u>Filter Rating</u></b>				
Inlet Air	99.9% Eff. To 3 Microns Per SAE J726C			
Main Lubricant Flow Beta	Beta 20 = 200 Per ISO 16889			

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### Dimensions & Weights w/Enclosure - Uncrated (Crated)

Length - in.	87.6 (97.0)	87.6 (97.0)	87.6 (97.0)	87.6 (97.0)
Width - in.	43.4 (49.9)	43.4 (49.9)	43.4 (49.9)	43.4 (49.9)
Height - in.	68.5 (77.2)	68.5 (77.2)	68.5 (77.2)	68.5 (77.2)
Weight - lbs.	3709 (4039)	3709 (4039)	3709 (4039)	3709 (4039)
Discharge Connection - in. NPT	2	2	2	2
Moisture Drain Connection - in. NPT	1/4	1/4	1/4	1/4

<b>Electrical Data (Typical across all models)</b>	<b>230V</b>	<b>460V</b>	<b>575V</b>
Motor HP	100	100	100
Motor Nominal Efficiency	95.4%	95.4%	95.4%
Nominal RPM	1780	1780	1780
Frame Size (TEFC)	404/5TSC	404/5TSC	404/5TSC
Service Factor	1.2	1.2	1.2
Nameplate Amps	222.0	111.0	90.4
Locked Rotor Amps - Max.	1465	733	660
Starter Enclosure Rating	NEMA 4	NEMA 4	NEMA 4
Starter Size Amp Rating	300	115	115
Fan Amps (Air Cooled)	8.83	4.41	3.53
Package Amps (Air Cooled)	254.8	127.4	101.9
Package Amps (Water Cooled)	248.4	124.2	99.4

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

**NOTE:** Data subject to change without notice

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