

DETROIT DIESEL



12V-92TA
1080 BHP

Marine Pleasure Craft



General Specifications

Basic Engine	12V-92TA
Model	8122-7400
Description	Turbocharged-Aftercooled with Bypass Blower
Number of Cylinders	12
Bore and Stroke	4.84 in x 5.00 in (123 mm x 127 mm)
Displacement	1104 cu in (18.1 liters)
Compression Ratio	17.0 to 1
Weight (dry)	4895 lbs (2225 kg)

Rated Power Output—Maximum

Gross Power	1080 BHP (805 kW) @ 2300 RPM
Net Power	1040 SHP (775 kW) @ 2300 RPM

Rated Power Output—Intermittent-Maximum

Gross Power	900 BHP (671 kW) @ 2300 RPM
Net Power	870 SHP (649 kW) @ 2300 RPM

Equipment Specifications

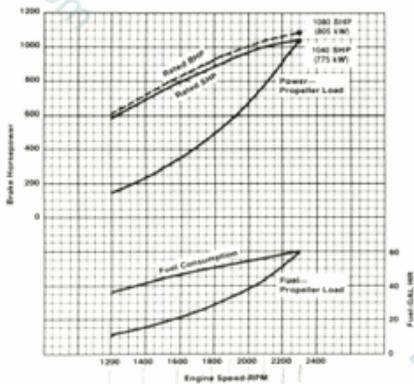
Air Inlet Housing	—With manual shutdown
Aftercooler	—Two-pass with pre-cooled coolant supply
Alternator	—24 volt, 65 amp, flange mounted
Cooling System	—Low profile heat exchanger with aluminum expansion tank and raw water pump
Crankcase vapor collectors	with silencers
Crankshaft Pulley	—5 Grooves, .50 inch wide
Engine Mounts	
Exhaust System	—Fresh water-cooled manifolds and twin turbine housings
Flywheel Housing	—SAE #1
Fuel System	—Cam operated unit injectors with low pressure USCG type A external hoses, fuel filters and cooler
Governor	—Variable speed
Lube Oil Filter	—Full flow, spin on
Marine Gear	—Available with Detroit Diesel-232EV (1.29, 1.50, 1.76, 1.96 reduction ratios)
Oil Pan	—Cast, designed for 15° inclination angle, rear sump
Starting Motor	—24 volt
Vibration Damper	—Viscous torsional damper

Rating conditions: ISO 3046, SAE J1349, SAE J1228
77°F (25°C) and 29.31 in. Hg. (99kPa) Barometer (Dry)

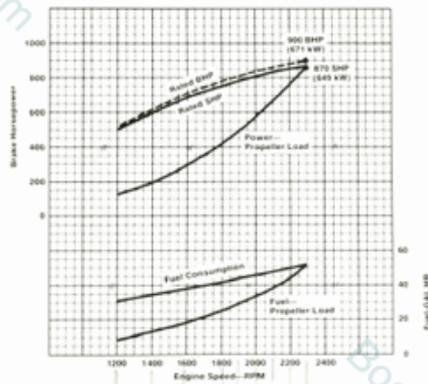
For a complete listing of standard and optional equipment, consult your authorized Detroit Diesel Corporation representative.

Performance Curves

Model 12V-92TA—Maximum



Model 12V-92TA—Intermittent-Maximum



Rating Explanation

RATED BHP Basic engine gross horsepower.

Rated SHP Net power available at the marine gear output flange.

PROPELLER LOAD indicates horsepower absorbed by a typical fixed pitch propeller.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

MARINE MAXIMUM The marine maximum rating applies to high performance boats where speed is of primary importance and overall load factors are low. Normal or continuous cruising RPM should be limited to 90% of rated engine RPM, and the use of full rated power should be limited to 10% (average) of operating time. This rating is normally reserved for privately-owned yachts in non-revenue applications with an average annual hour accumulation of 500 hrs.

MARINE INTERMITTENT-MAXIMUM The intermittent-maximum rating is reserved for privately-owned yachts with long-range cruising capability and/or used in seasonal charter operation. Normal or continuous cruising RPM should be limited to 90% of the rated engine RPM and the use of full rated power should be limited to 10% (average) of operating time. All boats in this category are limited to a maximum of 1,000 hours per year.

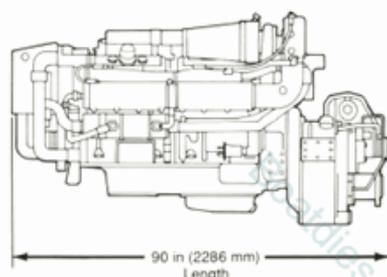
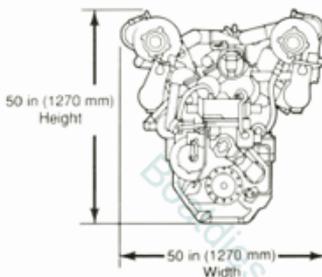
NOTE: Other boats, e.g., fire, police, with an overall duty cycle similar to maximum or intermittent-maximum may be applied at the appropriate rating.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

Dimensional Drawing

Model 8122-7400
12V-92TA

Approximate dimensions shown.
For complete dimensional information,
refer to installation drawing 2SA521.



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