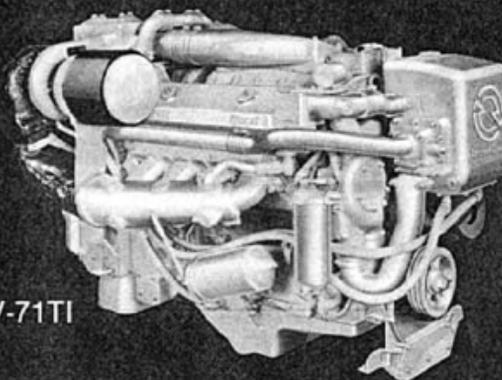


# Detroit Diesel Engines

## marine models

8V-71  
333 hpLow Profile 8V-71  
333 hpLow Profile 8V-71TI  
462 hp

Typical  
Low Profile 8V-71TI  
Marine Model



## basic specifications

Basic Engine	8V-71	Low profile 8V-71	Low profile 8V-71TI
Model-Port	7082-3000	7082-3001	7082-3300
Starboard	7082-7000	7082-7001	7082-7300
Description	Naturally Aspirated	Naturally Aspirated	Turbocharged-Intercooled
Number of Cylinders	8	8	8
Bore and Stroke	4.25 in x 5 in (108 mm x 127 mm)	4.25 in x 5 in (108 mm x 127 mm)	4.25 in x 5 in (108 mm x 127 mm)
Displacement	568 cu in (9.32 liters)	568 cu in (9.32 liters)	568 cu in (9.32 liters)
Compression Ratio	18.7 to 1	18.7 to 1	17 to 1
Net Weight (dry)	3130 lbs (1420 kg)	3100 lbs (1406 kg)	3430 lbs (1556 kg)

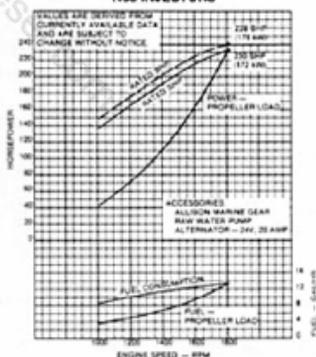
## power specifications

Continuous Injectors	N55	N55	No continuous rating is currently available for the 8V-71TI.
Rated Gross Power	239 BHP (178 kW) @ 1800 RPM*	239 BHP (178 kW) @ 1800 RPM*	
Rated Net Power	230 SHP (172 kW) @ 1800 RPM*	230 SHP (172 kW) @ 1800 RPM*	
Intermittent Injectors	N65	N65	N70
Rated Gross Power	304 BHP (227 kW) @ 2100 RPM*	304 BHP (227 kW) @ 2100 RPM*	349 BHP (260 kW) @ 2100 RPM*
Rated Net Power	296 SHP (221 kW) @ 2100 RPM*	296 SHP (221 kW) @ 2100 RPM*	340 SHP (254 kW) @ 2100 RPM*
Maximum Injectors	N70	N70	N90
Rated Gross Power	333 BHP (248 kW) @ 2300 RPM*	333 BHP (248 kW) @ 2300 RPM*	462 BHP (345 kW) @ 2300 RPM*
Rated Net Power	325 SHP (242 kW) @ 2300 RPM*	325 SHP (242 kW) @ 2300 RPM*	450 SHP (336 kW) @ 2300 RPM*

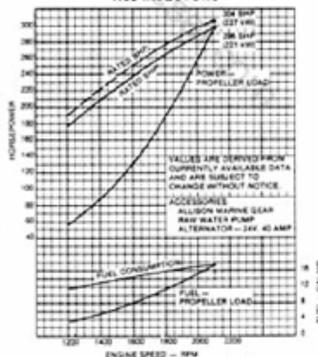
\*Rating conditions of: 85 °F (29.4 °C) and 29.00 in Hg (98.19 kPa) Barometer (Dry).

## 8V-71

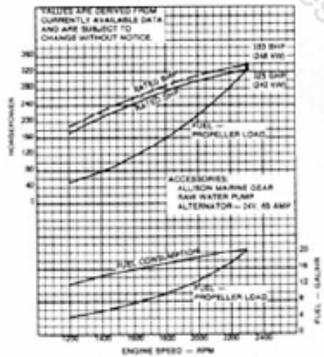
**\*MODEL 8V-71  
MARINE CONTINUOUS RATING  
N55 INJECTORS**



**\*MODEL 8V-71  
MARINE INTERMITTENT RATING  
N65 INJECTORS**

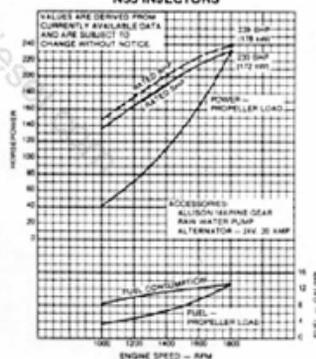


**\*MODEL 8V-71  
MARINE MAXIMUM RATING  
N70 INJECTORS**

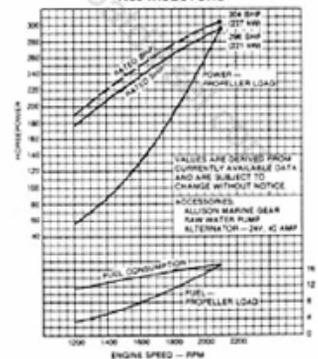


## 8V-71 Low Profile

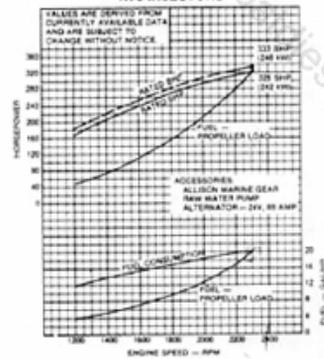
**\*MODEL 8V-71 LOW PROFILE  
MARINE CONTINUOUS RATING  
N55 INJECTORS**



**\*MODEL 8V-71 LOW PROFILE  
MARINE INTERMITTENT RATING  
N65 INJECTORS**

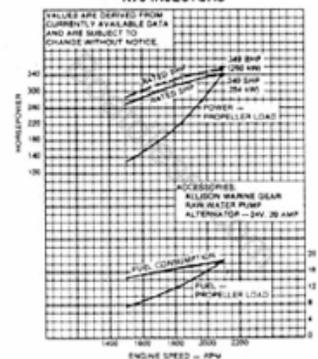


**\*MODEL 8V-71 LOW PROFILE  
MARINE MAXIMUM RATING  
N70 INJECTORS**

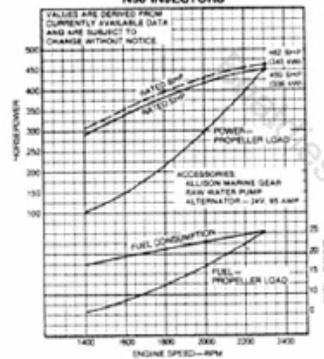


## 8V-71TI Low Profile

**\*MODEL 8V-71TI  
MARINE INTERMITTENT RATING  
N70 INJECTORS**



**\*MODEL 8V-71TI  
MARINE MAXIMUM RATING  
N90 INJECTORS**



No continuous rating is currently available for the 8V-71TI

### Rating Explanation

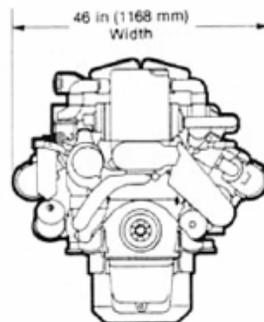
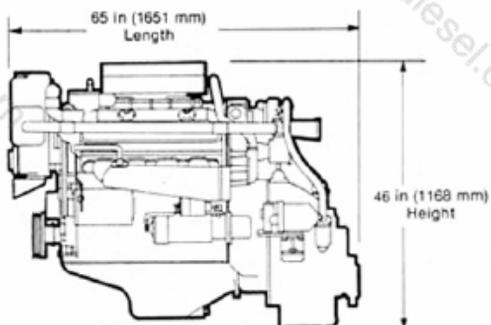
**RATED BHP**—Basic engine gross horsepower.  
**RATED SHP**—Net power available at the marine gear output shaft.  
**PROPELLER LOAD**—Indicates horsepower absorbed by a typical propeller and the corresponding fuel

consumption throughout the speed range.  
**POWER OUTPUT** guaranteed within 5% at standard ambient conditions.  
**MARINE ENGINE RATING**—The use of the ratings e.g., maximum, intermittent and continuous; varies with

type of vessel in which the engine is installed. See your Detroit Diesel Allison representative for the rating that will apply to your vessel.  
\*Rating conditions of 85°F (29.4°C) and 29.00 in Hg (98.19 kPa) Barometer (Dry)

### Model 7082-3000, 7082-7000

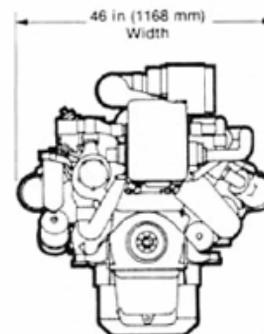
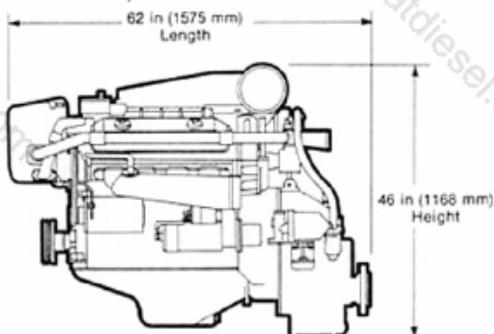
8V-71



Approximate dimensions shown.  
For complete dimensional information, refer to installation drawing 2SA235.

### Model 7082-3001, 7082-7001

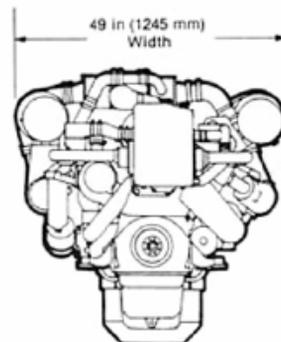
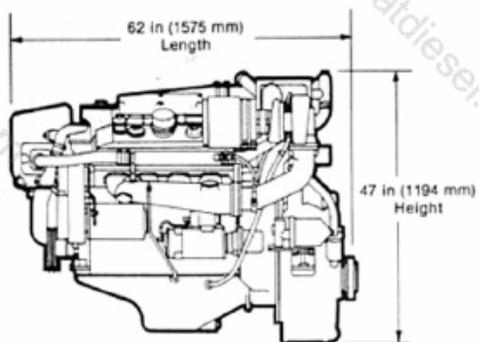
8V-71 Low Profile



Approximate dimensions shown.  
For complete dimensional information, refer to installation drawing 2SA366.

### Model 7082-3300, 7082-7300

8V-71TI Low Profile



Approximate dimensions shown.  
For complete dimensional information, refer to installation drawing 2SA366.

# standard equipment

**Air Inlet Housing**

**Air Silencer**

**Alternator**—24 volt, 50 amp, 8V-71TI only; 24 volt, 65 amp, 8V-71 and 8V-71 low profile

**Crankshaft Pulley**

**Engine Mounts**—Includes mounts for both engine and marine gear

**Exhaust Manifold**—Water cooled

**Flywheel Housing**—SAE #2

**Fuel Filters**—Spin-on

**Governor**—Variable speed

**Heat Exchanger**—Includes raw water pump and piping

**Injectors**—Cam operated, unit type, clean tip

**Instruments**—Includes ammeter, hourmeter, tachometer, water temperature gauge, and oil pressure gauges for both engine and marine gear

**Intercooler**—8V-71TI only

**Lube Oil Cooler**—16 plate, 8V-71 and 8V-71 low profile; 18 plate, 8V-71TI only

**Lube Oil Filter**—Full-flow, spin-on

**Marine Gear**—Allison "M" type, hydraulic reverse and reduction gear, 2 to 1 ratio, 8V-71 low profile, and 8V-71TI; Allison "MH" type, hydraulic reverse and reduction gear, 1.97 to 1 ratio, 8V-71 only

**Oil Pan**—Cast iron, designed for 0°-15° inclination angle, rear sump

**Starting Motor**—24 volt

**Turbocharger**—TH08A64, .96 A/R

**Water Filter**—Fresh water filter with 30-gallon (113.5 liters) capacity

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

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