

TNV IDI Series Industrial Diesel Engine



Features

Clean Emissions

Building off the proven TNE design, Yanmar has achieved superior exhaust emissions by improving the combustion chamber and fuel injection equipment design. Engines are compliant with 2008 EPA Tier 4.

Reliable and Durable

The TNV engines now proudly take up the running as Yanmar's premium small industrial diesel. They offer even more enhanced durability due to better block cooling, a stiffer crank and pistons, finer tolerance in the journal, and more. CAE analysis has brought lower vibrations and higher strength to the mounting structure for even better reliability in heavy-duty jobs.

Fuel Delivery and Economy

A newly designed, in-line ML fuel injection pump is utilized to assure more precise fuel delivery and control. The result is reduced emissions, improved performance over a wide range of applications and good fuel economy which assures that Yanmar's reputation for superior starting characteristics continues.

Noise Level Reduction

Yanmar's original CAE techniques have optimized the stiffness, minimized transformation, and reduced radiant noise in the cylinder block. Gear noise reduction is achieved through an improved gear tooth profile resulting in less mechanical noise.

Additional Information

Address: Yanmar America Corp 101 International Pkwy Adairsville, GA 30103 www.yanmar.com Distributed By:

3TNV70-GGE General Specification 10.7 hp (8.0 kW) @ 1800 rated rpm*

Standard Engine Equipment

General

Intake & Exhaust Manifold
Muffler/Exhaust Pipe Gasket (shipped loose)

Lubrication System

2.8 L Capacity Shallow Oil Pan Trochoid Oil Pump Paper Element Oil Filter Oil Pressure Switch Crankcase Breather, Closed Type

Electrical System

12V, 40 Amp Alternator 12V Starter Motor 12V Super Quick Glow Plugs Preheat Timer (shipped loose) Stop Solenoid Timer (shipped loose)

Fuel System

In-line ML Fuel Injection Pump
Mechanical Fuel Feed Pump
Paper Element Fuel Filter
Water Separator (shipped loose)
Stop Solenoid, Integral to Fuel Injection Pump

Cooing System

Water Pump, Belt Driven 5-Blade, 310 mm Cooling Fan—Pusher Type 21° C (160° F) Thermostat Temperature Switch Fan Belt

Power Take Off

Flywheel, SAE 7 1/2" Flywheel Housing, SAE #5 (124 mm deep)

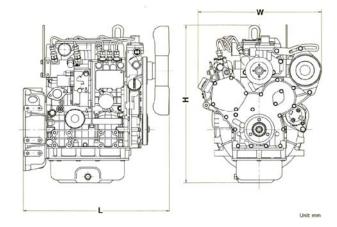


3TNV70-GGE

Industrial Diesel Engine

Performance Data

Dimensions



Length 21.4 in (545 mm) Width 16.8 in (427 mm) Height 21.5 in (547 mm)

Note: Dimensions depend on final specifications.

Please Contact Yanmar for Details

kW to Hp conversion used is expressed as: hp = (kW value) x 1.34

Rated Speed (rpm)	Net rated kW	Net rated hp
1800	7.9	10.7

Ratings Definitions and Conditions

*Rated power listed is NET engine output. The engine operating environment and driven machine conditions must be studied carefully when selecting an engine in order to ensure correct engine selection, maximize engine performance, extend engine service life and improve machine capacity.

Consult the TNV Application Manual for additional engine ratings and engine application information.

Application standards for Yanmar industrial engines: Inlet air standard conditions with a total barometric pressure of 100kPa (29.5 in. Hg), with 30% relative humidity, and 25° C (77°F).

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