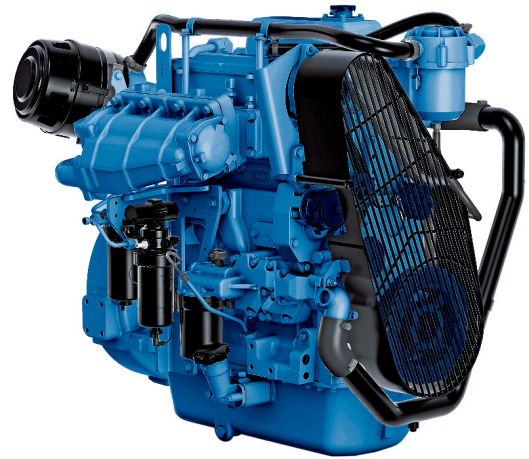




N5 series

4.5l Marine engines
From 137 to 228 hp



General data

Engine base..... John Deere
Displacement [l-cu in]4.5 - 275
Compression ratio17.2:1
Bore [mm-in].....106 - 4.17
Stroke [mm-in]127 - 5.00
Electrical system.....24V

Applications

- Crew boats, dive boats
- Light-duty commercial
- Fishing boats
- Rescue boats

Engine overview

Engine type	4 cycle Diesel, Direct Injection
Cylinders	4 cylinders in line
Engine block	Replaceable Wet-type Cylinder Liners
Air Intake	Turbocharged with air-to-seawater or air-to-coolant
Engine cooling	Heat exchanger or Keel Cooled

Features and benefits

High Torque and Low Rated RPM

- Enables the engine to turn larger propellers at lower speed for best efficiency
- Excellent vessel control and maneuvering
- Lower rated rpm limits vibration and noise for better crew comfort

Internal Balancers

- Low noise and vibration for crew comfort

Replaceable Wet-type Cylinder Liners

- Excellent heat dissipation
- Hardened and precision machined for long life
- Rebuild to original specifications

Corrosion Resistant Components

- Provides engine protection from the effects of seawater

Fuel System

- Proven and reliable Mechanical Governor

Heat exchanger or Keel Cooled

- High-capacity heat exchanger designed for reliable operation in adverse conditions
- Integrated expansion tank, heat exchanger and exhaust manifold reduce chances of leaks
- Heat exchanger or Keel cooler options provide application flexibility

Either-side Service

- Oil fill and dipstick combinations
- Remote oil filter for easier service access
- Application and service flexibility to provide installation convenience plus fast and easy maintenance

N5 series

Performance & ratings



	Ratings	Fuel Injection System	Rated Power [kW]	Rated Power [hp]	Rated Speed [rpm]	Peak Torque [Nm]	Peak Torque Speed [rpm]	Fuel consumption [l/h]	Emissions
N5.150	M4	Mechanical	112	152	2600	507	1800	29.7	1A
N5.140 E	M3	EDC	101	137	2600	477	1800	29.4	1A, 4
N5.160 CR2	M1	HPCR	118	161	2300	604	1800	33.2	1, 3, 4
N5.180 CR2	M2	HPCR	134	182	2400	640	2000	37	1, 3, 4
N5.200 CR2	M3	HPCR	149	202	2500	695	2000	44	1, 3, 4
N5.230 CR2	M4	HPCR	168	228	2600	714	2100	49	1, 3, 4

Emission: [1.Marpol Annex IV compliant], [1A.Marpol Annex IV exempt], [2.EPA Marine Tier 2], [3.EPA Marine Tier 3], [4.NRMM 97/68/EC as amended],

Ratings definition

The rating definitions are provided as a guide to help in the selection of the engine that best fits the application requirements. Consult your Nanni representative to verify the optimal rating for your specific application.

Rating	Operating hours	Load factor ¹	Duty cycle ²
M1	24 hours per day	Over 65%	Uninterrupted full power
M2	3000 to 5000 per year	Up to 65%	Full power for no more than 16 hours out of each 24 hours of operation
M3	2000 to 4000 per year	Up to 50%	Full power for no more than 4 hours out of each 12 hours of operation
M4	1000 to 3000 per year	Up to 40%	Full power for no more than 1 hour out of each 12 hours of operation
M5	300 to 1000 per year	Up to 35%	Full power for no more than 30 minutes out of each 8 hours of operation

¹ Load factor: Fuel burned over a period of time divided by the full-power fuel consumption for the same period of time.

² The remaining time of operation must be at or below cruising speeds.

Contact your local Nanni dealer for more information regarding Nanni engines and optional equipment & accessories.

Specifications are subject to change without notice. All combination of optional equipment are not available. Photographs and illustrations may show non-standard equipments.
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