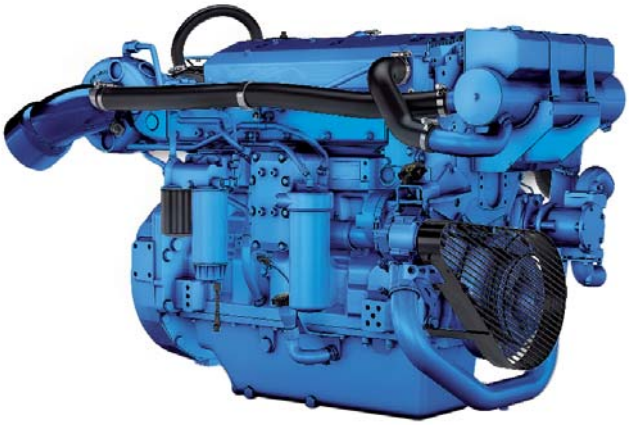

N13 series

13.5l Marine engines
From 370 to 760 hp

General data

Engine base..... John Deere
Displacement [l-cu in] ...13.5 - 824
Compression ratio 15.3:1
Bore [mm-in] .....132 - 5.20
Stroke [mm-in] .....165 - 6.50
Injection .....HPCR
Governor Type..... Electronic
Electrical system.....24V

Applications

- Recreational yachts, cruisers sport fishing boats.
- Crew boats, dive boats
- Light-duty commercial
- Fishing boats
- Rescue boats

Engine overview

Engine type	4 cycle Diesel, Direct Injection
Number of valves	4 valves cylinder head
Cylinders	6 cylinders in line
Fuel system	High Pressure Common Rail Electronically controlled
Air Intake	Turbocharged with air-to-seawater or air-to-coolant
Engine cooling	Heat exchanger or Keel Cooled

Features and benefits

Watercooled Turbocharger and Exhaust Manifold

- Cooler and quieter environment for vessel and crew
- Reduced external connections eliminates hoses and fittings that can leak or break

Directed Top-liner Cooling

- Reduces upper liner temperature by as much as 130 degrees Fahrenheit
- Durable and reliable power cylinder components

Replaceable Wet-type Cylinder Liners

- Hardened and precision machined for long life

Heat Exchanger

- High-capacity heat exchanger designed for reliable operation in adverse conditions

High Torque and Low Rated RPM

- Excellent vessel control and maneuvering
- Lower rated rpm limits vibration and noise for better crew comfort

Fuel System

- Electronically controlled unit injectors provide precise fuel delivery with variable timing resulting in excellent fuel economy and excellent performance

N13 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
N13.370 CR1	M1	HPCR	272	370	1800	1998	1300	73	1, 2, 4
N13.430 CR1	M2	HPCR	317	431	1900	2204	1300	86	1, 2, 4
N13.510 CR1	M3	HPCR	373	507	2000	2375	1500	104	1, 2, 4
N13.580 CR1	M4	HPCR	429	583	2100	2483	1500	114	1, 2, 4
N13.430 CR2	M1	HPCR	317	431	1800	2328	1300	79	1, 3, 4
N13.510 CR2	M2	HPCR	373	507	1900	2544	1400	94	1, 3, 4
N13.580 CR2	M3	HPCR	429	53	2000	2731	1500	111	1, 3, 4
N13.660 CR2	M4	HPCR	485	659	2100	2877	1600	124	1, 3, 4
N13.760 CR2	M5	HPCR	559	760	2200	2913	1700	146	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.

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