



powering **marine** safety

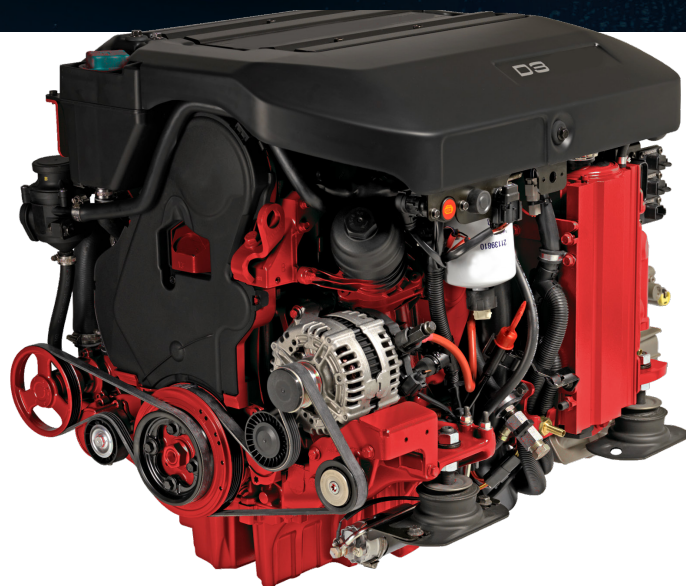
D3-220

**BUKH SOLAS MARINE DIESEL ENGINE
220 HP (162 KW)**



Bukh's 5-cylinder D3-220 is developed from the latest design in modern diesel technology. The engine is extremely lightweight and compact.

Combined with features like common rail fuel injection system, double overhead camshafts, 4 valves per cylinder, variable geometry turbocharger, after cooler and the EVC system (Electronic Vessel Control) a world-class diesel performance, combined with low emissions, is achieved.



TECHNICAL DESCRIPTION:

ENGINE BLOCK AND HEAD

- Cast iron cylinder block and head mad of aluminum
- Cylinder block with integrated bed plate
- 4 valve technology with hydraulic lash adjusters
- Double overhead camshafts
- Oil cooled pistons with two compression rings and one oil scraper ring
- Cast in grey iron cylinder liners
- Replaceable valve seats
- Six bearing crankshaft
- Front-end transmission

ENGINE MOUNTING

- Flexible engine mounting

LUBRICATION SYSTEM

- Easily replaceable (insert) full-flow oil filter
- Plate oil coolerr

FUEL SYSTEM

- Common rail fuel injection system
- Piezo electric injectors
- Fine filter with water separator and water in fuel sensor with alarm

AIR INLET AND EXHAUST SYSTEM

- Replaceable air filter
- Closed crankcase ventilation with oil separator and filter
- Stainless steel exhaust system
- Turbocharger with variable geometry

COOLING SYSTEM

- Thermostatically regulated freshwater cooling
- Tubular heat exchanger with separate large volume expansion tank
- Coolant system prepared for hot water outlet
- Easily accessible seawater impeller pump

ELECTRICAL SYSTEM

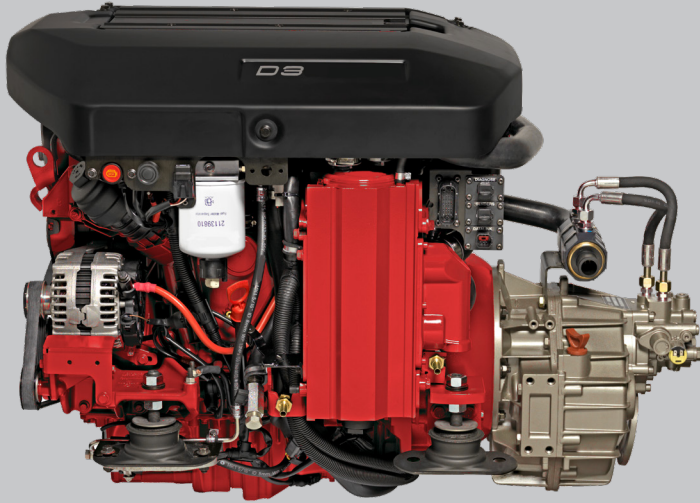
- 12V one-pole electrical system
- 180A alternator, and integrated temperature
- Auxiliary stop button

INSTRUMENTS/CONTROLS

- Complete instrumentation/display packages, including e-key
- Electronic shift and throttle available as extras

D3-220

BUKH SOLAS MARINE DIESEL ENGINE



D3-220 Specifications

Engine type	D3
Engine duty rating	C12 - High Speed Craft Commercial_3
Crankshaft power [hp(kW)]	220 (162)
Rpm@full load	4000
Cylinders	In-line 5
Displacement [L]	2,4
Bore [mm]	81
Stroke [mm]	93,2
Compression ratio	16.5:1
Injection system	Common Rail fuel injection system
Alternator [V -A]	14V - 180A
Electronic engine diagnostic	YES
Max. Fuel consumption [L/h]	45,7
Dry Weight Bobtail [kg]	260
Propulsion system	Shaft Drive / Waterjet

As BUKH is always endeavouring to improve the engines, specifications mentioned are subject to alterations without previous notice.

D3-220 Dimensions

Not for installation

