



powering **marine** safety

VGT 450

BUKH HIGH OUTPUT DIESEL MARINE ENGINES

Durability, diesel economy and dependable power are synonymous with the new VGT-series.

All BUKH VGT Common-Rail engines are based on the 6.6L V8 configuration and are designed to be as compact and light weight as possible while maintaining durability and serviceability. The BUKH VGT 450 is intended for medium to high speed vessels and has a light duty rating (Medium Duty as option).

Laptop based diagnostics tool is available for VGT engines. J1939 and NEMA2000 CAN communication.



Standard Equipment:

Air System

- Max intake restriction kPa 6
- Engine air flow m³/min 30
- Rec air intake pipe diam mm (min) 100
- Minimum intake air per eng (cm²) 600

Cooling System

- Cooling system closed cooling
- Closed system coolant flow L/min 304
- Raw water pump flow L/min 180
- Thermostat start to open °C 7
- Thermostat fully open °C 93
- Engine coolant capacity L 18
- Recommended press cap psi 16

Fuel System

- Fuel injection pump Bosch common rail
- Governor regulation 1%
- Governor type Electronic

Maximum fuel transfer pump suction

- Distance of fuel m 2.5
- Fuel filter micron size 10

Lubrication System

- Oil pressure@2000rpm – psi 30-45
- Oil pressure at low idle – psi 12
- In pan oil max temperature °C 120

Exhaust System

- Exhaust flow m³/min (max) 60
- Exhaust temperature °C (max) 700
- Max allowable exh backpress kPa 7.5

Electrical System

- Recommended battery capacity CCA
12 volt system – amp 050
- Maximum allowable start circuit resistance
12 volt system – ohm 0.001



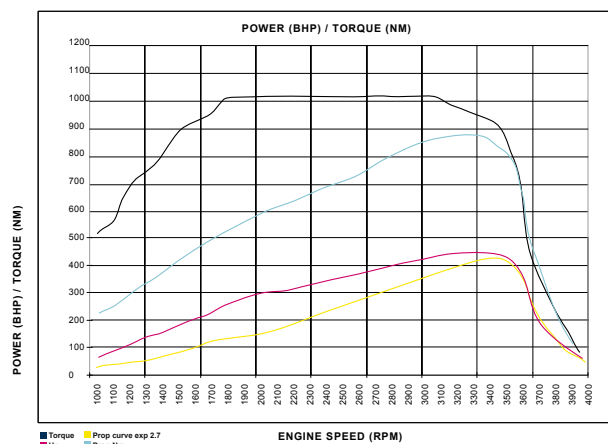
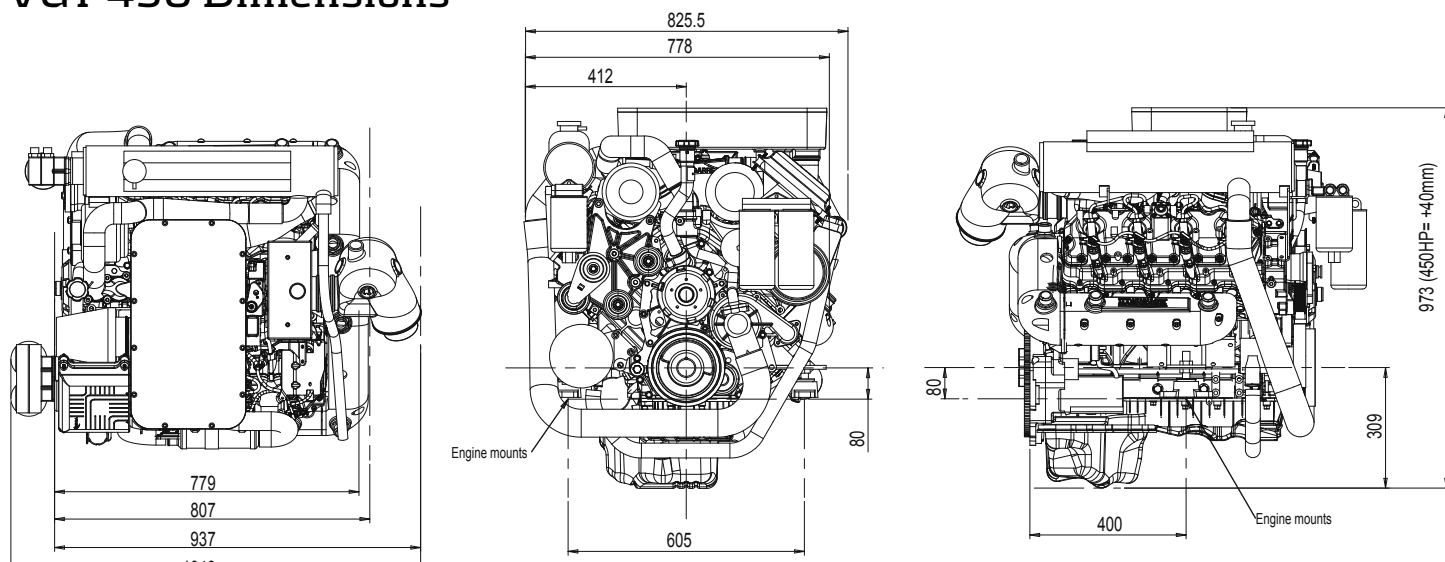
VGT 450 Specifications

Model	MD-VGT32
Number of cyl	8
Bore and stroke mm	103/98
Displacement L	6.6
Compression ratio	16.8:1
Valves per cyl	4
Firing order	1-2-7-8-4-5-6-3
Combustion system	DI Common rail
Engine type	V8
Aspiration	Variable geometry turbo

Charge air cooling	Air to water
Engine crankcase vent syst	Closed
Max crankcase press kPa	0.5
Length mm	779
Width mm	825
Height mm	1013
Weight dry kg	450

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

VGT 450 Dimensions



Marine Gear

Optional gearbox packages:

- Jet adaptor
- TTM60A Gear
- TTM60V V-drive
- ZF63
- TTM50A
- TTM50V V-drive