



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 m<sup>3</sup>/min ..... 30
- Rec air intake pipe diam mm (min) ..... 100
- Minimum intake air per eng (cm<sup>2</sup>) ..... 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 m<sup>3</sup>/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

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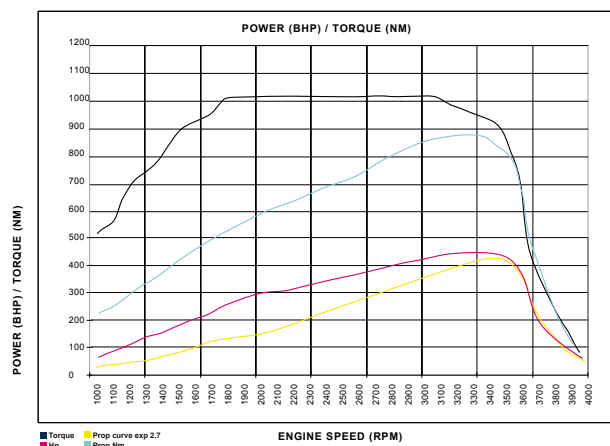
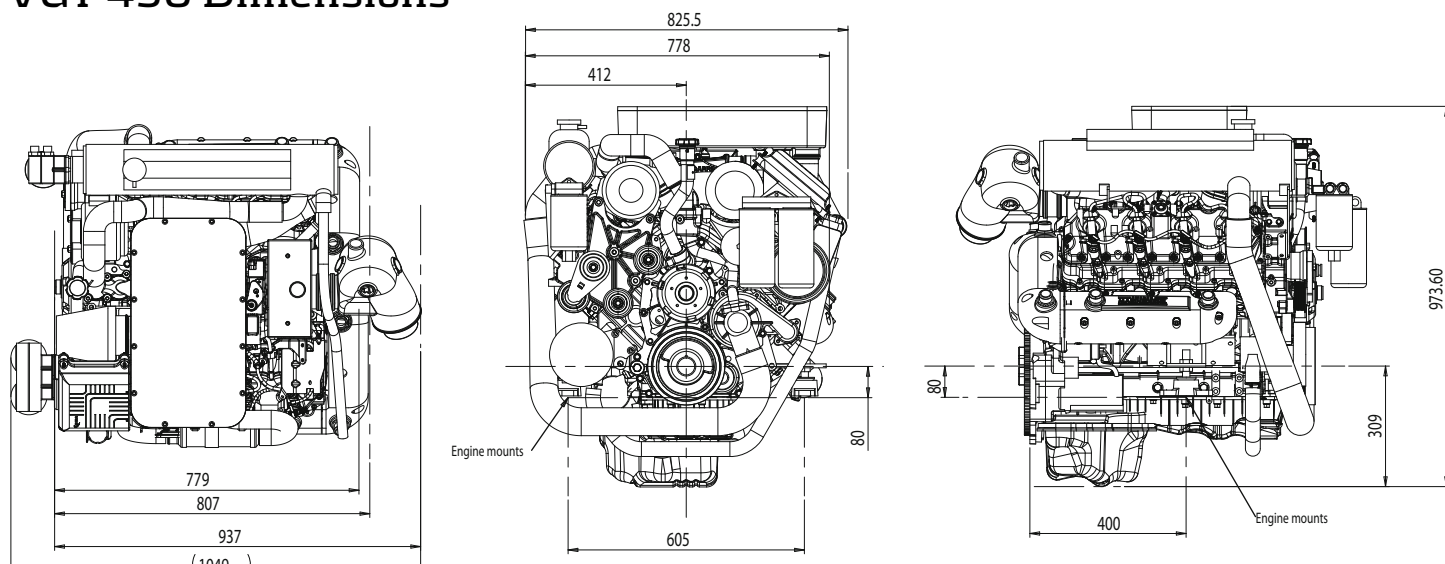
### VGT 450 Specifications

|                    |                         |
|--------------------|-------------------------|
| 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                  | 969          |
| 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



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