

**8LV-320Z/8LV-370Z Series**

|                                    |   |                    |
|------------------------------------|---|--------------------|
| Configuration                      | 4-stroke, vertical, water-cooled diesel engine  |                    |
| Maximum output at crankshaft       | 235 kW@3800 rpm   | [320 mhp@3800 rpm] |
| according ISO 8665: 2006           | 272 kW@3800 rpm   | [370 mhp@3800 rpm] |
| Displacement                       | 4.46 ltr [272.24 cu in]   |                    |
| Bore x stroke                      | 86 mm x 96 mm [3.38 in x 3.78 in]   |                    |
| Cylinders                          | 8 in V-90°  |                    |
| Combustion system                  | Direct injection Common Rail System   |                    |
| Compression ratio                  | 15:8  |                    |
| Low Idle rpm                       | 550 rpm   |                    |
| Aspiration                         | Turbocharged with twin TC   |                    |
| Electric system                    | 12V   |                    |
| Alternator                         | 12V - 180A  |                    |
| Start-assist                       | Glow-plug system  |                    |
| Cooling system                     | Fresh water cooling by centrifugal fresh water pump<br>Sea water cooling by rubber impeller seawater pump |                    |
| Lubrication system                 | Enclosed, forced lubricating system   |                    |
| Direction of rotation [crankshaft] | Counterclockwise viewed from flywheel side  |                    |
| Dry weight without gear            | 435 kg  | [959 lbs]          |
| Environmental                      | EU: RCD   | EMC                |
|                                    | US: EPA Tier3   |                    |
| Engine mounting                    | Rubber type flexible mounting   |                    |

NOTE:

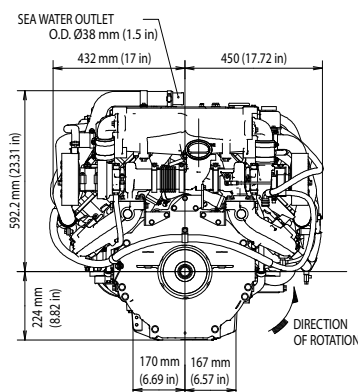
Fuel condition: Density at 15°C = 0.84 g/cm<sup>3</sup>

Fuel temperature 40°C at the inlet of the fuel injection pump [ISO 8665: 2006]

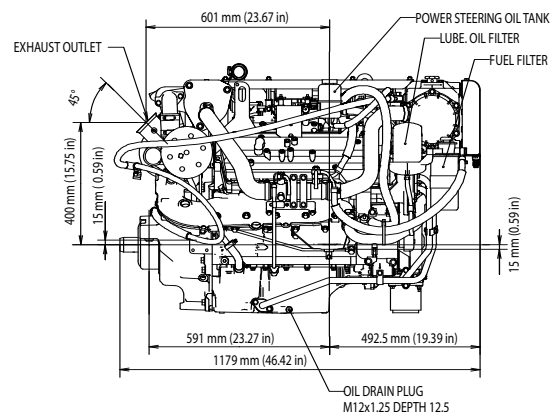
Technical data is according to ISO 8665: 2006/3046-1

DIMENSIONS

**Gear view**

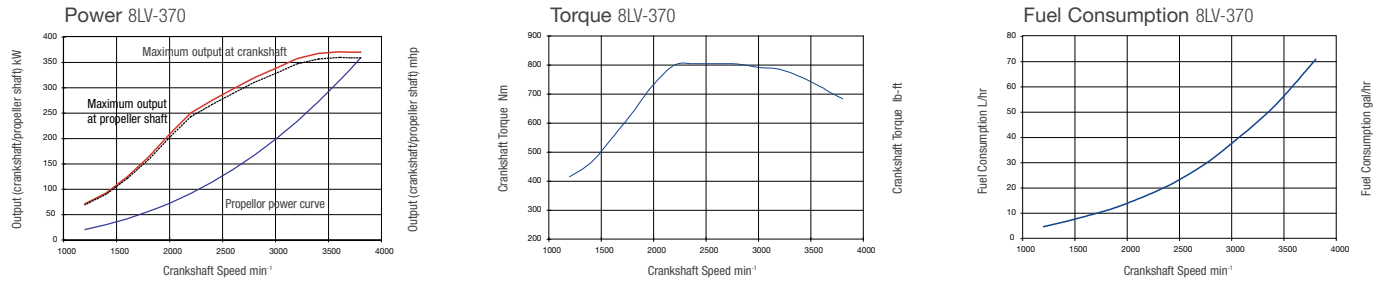


**Right side view**



8LV-320Z/8LV-370Z

### PERFORMANCE CURVES



### DRIVE SYSTEMS

|   |   |  |           |
|---|---|--|-----------|
| <b>Model</b>                                | <b>ZT370 [Steerable Z-drive with dual prop]</b>       |  |           |
| Type  | Hydraulic actuated multi-friction disc clutch         |  |           |
| Dry weight with propellers                  | 112 kg [247 lbs]                                      |  |           |
| Reduction ratio [fwd/asn]                   | 1.65/1.65   |  | 1.78/1.78 |
| Propellor speed                             | 2424/2424   |  | 2247/2247 |
| Direction of rotation viewed from the stern | Clockwise [rear prop] & Counterclockwise [front prop] |  |           |
| Lub oil specifications                      | API class: GL5 SAE grade #80W90                       |  |           |
| Dry weight engine with sterndrive           | 547 kg [1205 lbs]                                     |  |           |
| Shift control                               | Mechanical or electro-magnetic                        |  |           |
| Trim range                                  | -6° - +10°  |  |           |
| Trailer limit                               | 51°   |  |           |

### CONTROL SYSTEM

- Yanmar CAN-bus control system
- Electronic CAN-bus control-head
- Multi-function colour display
- NMEA2000 or J1939 gauge output
- Second or third station - optional