D13-700



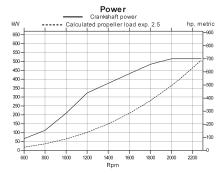
Technical Data

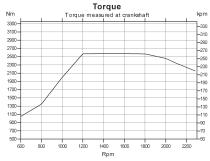
D13-700
in-line 6
4-stroke, direct-injected, turbocharged diesel engine with charge air cooler
131/158 (5.16/6.22)
12.78 (779.7)
16.5:1
1450 (3197)
515 (700)
2930 (2162)
IMO NOx, EU RCD, US EPA Tier 3*
3**
ASTM-D975 1-D & 2-D, EN 590 or JIS KK 2204
212 (0.343)
14"/SAE1

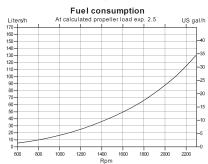
Technical data according to ISO 8665. With fuel having an LHV of 42700 kJ/kg and density of 840 g/liter at $15\,^{\circ}\text{C}$ (60 °F).

Merchant fuel may differ from this specification which will influence engine power output and fuel consumption.

- * Pending EPA approval
- **RATING 3. For commercial vessels or craft with high demands on speed and acceleration, planing or semi-planing hulls in cyclical operation.









D13-700

Technical description:

Engine and block

- · Cylinder block made of cast iron
- One-piece cast-iron cylinder head
- · Ladder frame fitted to engine block
- Replaceable wet cylinder liners and valve seats/guides
- Drop forged crankshaft with induction hardened bearing surfaces and fillets with seven main bearings
- Four-valve-per-cylinder layout with overhead camshaft and center position of unit injectors
- Each cylinder features cross-flow inlet and exhaust ducts
- Gallery oil-cooled cast aluminum alloy pistons with three piston rings
- · Rear-end transmission

Engine mounting

• Flexible engine mounting

Lubrication system

- Integrated oil cooler in cylinder block
- Rear positioned twin full flow oil filter of spin-on type and by-pass filter

Fuel system

- · Electronic high pressure unit injectors
- · Gear-driven fuel pump and injection timing
- Electronically controlled central processing system (EMS – Engine Management System)
- Single fine fuel filter of spin-on type

Air inlet and exhaust system

- Twin entry turbo technology with freshwatercooled charge air cooler
- · Air filter with replaceable inserts
- Wet exhaust elbow/riser (option)

Cooling system

- · Seawater-cooled plate heat exchanger
- Coolant system prepared for hot water outlet
- Easily accessible seawater pump in rear end of flywheel housing

Electrical system

 24V/110A plus an optional extra 24V/110A alternator

Instruments/controls (option)

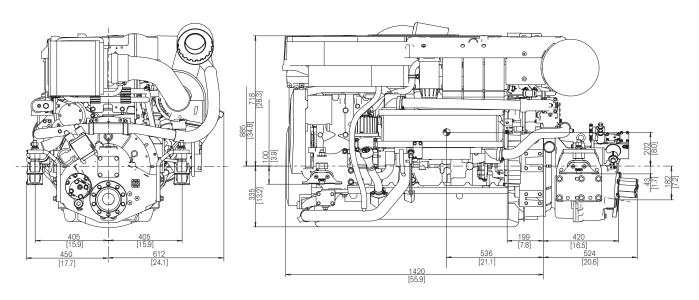
- Complete instrumentation including key switch and interlocked alarm
- EVC monitoring panels for single or twin installations
- · Electronic shift and throttle
- · Plug-in connectors
- · EVC system color display

Reverse gear

- ZF325-1AE, with low speed as option, electronically shifted
- MGX-5096A, with QuickShift® and low speed as standard, electronically shifted

Dimensions D13-700 with ZF325-1AE

Not for installation



More information

Contact your local Volvo Penta dealer for more information regarding Volvo Penta engines and optional equipment/accessories or visit www.volvopenta.com





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