D3-170,200,220



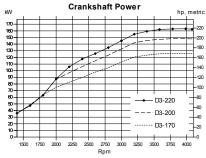
Technical Data

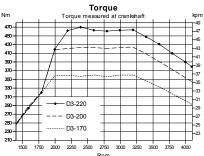
Engine designation	D3-170 I	D3-200 I	D3-220 I
Crankshaft power, kW (hp)	125 (170)	147 (200)	162 (220)
Propeller shaft power, kW (hp)	121 (165)	143 (194)	157 (213)
Engine speed, rpm	4000	4000	4000
Displacement, I (in ³)	2.4 (146)	2.4 (146)	2.4 (146)
Number of cylinders	5	5	5
Bore/stroke, mm (in.)	81/93.2 (3.19/3.67)	81/93.2 (3.19/3.67)	81/93.2 (3.19/3.67)
Compression ratio	16.5:1	16.5:1	16.5:1
Dry weight with HS45AE, kg (lb)	301 (664)	301 (664)	301 (664)
Dry weight with HS63IVE, kg (lb)	335 (739)	335 (739)	335 (739)
Rating	R5*	R5*	R5*
Emission compliance	IMO NOx (D3-200 & D3-220), EU RCD, US EPA Tier 3		

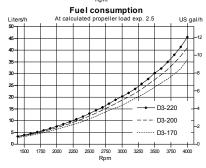
Technical data according to ISO 8665. With fuel having an LHV of 42700 kJ/kg and density of 840 g/liter at 15 $^{\circ}$ C (60 $^{\circ}$ F).

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

*RATING 5. For pleasure craft applications, and can be used for high speed planing crafts in commercial applications









D3-170,200,220

Technical description:

Engine block and head

- Cylinder block and head made 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 cooler

Fuel system

- · Common rail fuel injection system
- Piezo-electric injectors
- Constant power output regardless of fuel quality or temperature (5–55°C/41–131°F)

 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 elbow
- 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 impeller pump

Electrical system

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

Instruments/control

· Electronic shift and throttle

• Full range of instrumentation available

Reverse gear

HS45AE Hydraulic – drop center with 8° down angled output shaft.

- Ratio 2.43:1 or 2.03:1 (RH/LH)

HS63IVE Hydraulic V-drive.

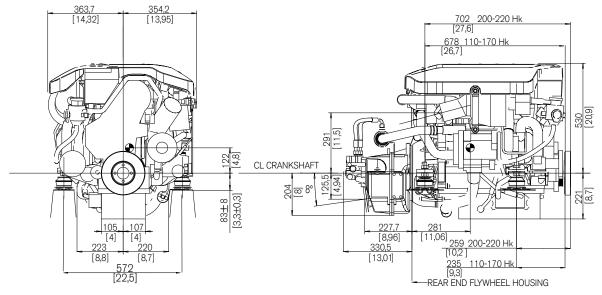
- Ratio 2.48:1 or 1.99:1 (RH/LH).

Option

U.S.C.G./MED (SOLAS) kit available.

Dimensions D3-170,200, 220/HS45AE

Not for installation



More information

Contact your nearest Volvo Penta dealer for more information about Volvo Penta engines and optional equipment/accessories or go to www.volvopenta.com





Download the Volvo Penta dealer locator App for your IPhone or Android



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