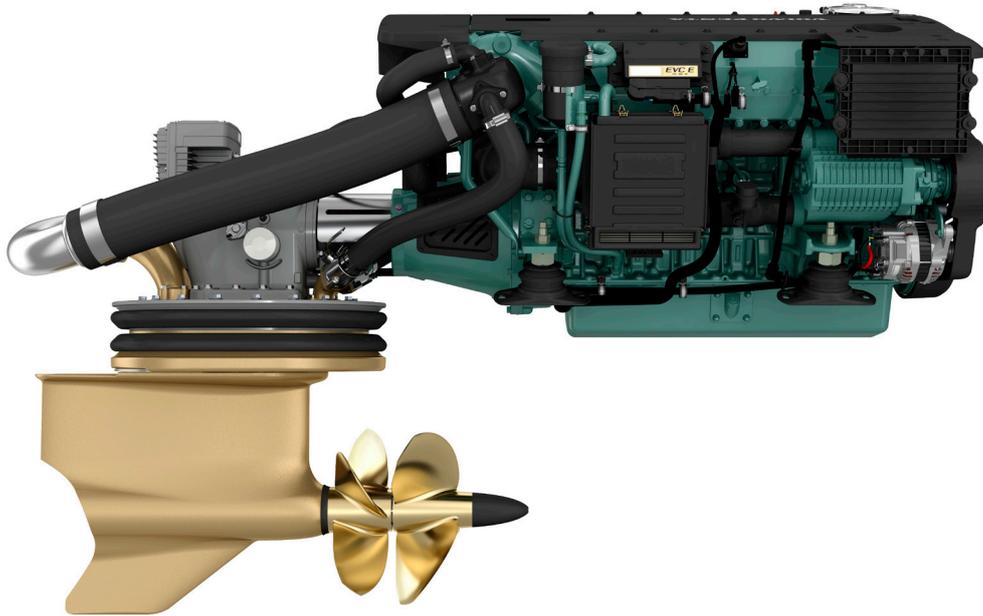


# IPS400MC/450



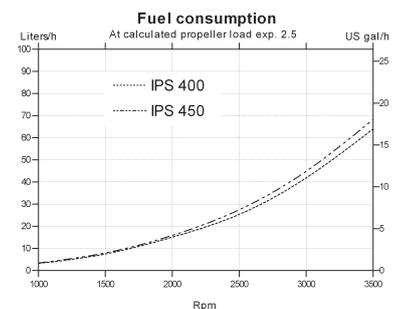
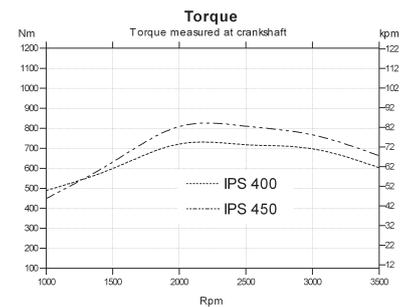
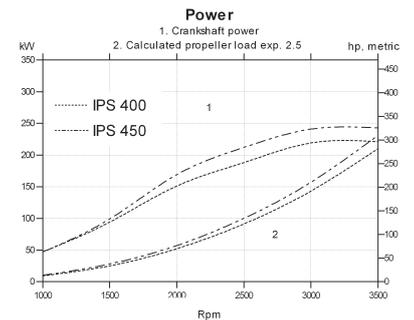
## General Data

System designation	IPS400MC	IPS450
Engine displacement, l (in <sup>3</sup> )	5.5 (336)	5.5 (336)
Configuration	in-line 6	in-line 6
Crankshaft power, kW (hp) @ 3500 rpm	221 (301)	243 (330)
Propshaft power, kW (hp) @ 3500 rpm	210 (286)	230 (314)
Aspiration	Turbo, aftercooler	Turbo, aftercooler
Rating	R4*	R4*
Package weight, kg (lb)	863 (1903)	863 (1903)
Propeller series	T2-T10, TS3-TS6	T2-T10, TS3-TS6
Voltage	12 V or 24V	12V or 24V
Emission compliance	IMO NO <sub>x</sub> , EU RCD Stage II, US EPA Tier 3	
Application	Twin/multiple engine installation in planing hulls	
Speed range	20 to 45 knots	
Driveshaft	Compact (standard), jackshaft as option	

Technical data according to ISO 8665. With fuel having an LHV of 42700 kJ/kg and density of 840 g/liter at 15 °C (60 °F). Merchant fuel may differ from this specification which will influence engine power output and fuel consumption.

\*RATING 4. For light planing craft in commercial operation

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



# IPS400MC/450

## Technical description:

### Engine block and head

- Cylinder block and cylinder head made of cast-iron
- Ladder frame fitted to engine block
- 4-valve technology with hydraulic lash adjusters
- Double overhead camshafts
- Integrated cylinder liners
- Seven-bearing crankshaft

### Engine mounting

- Flexible engine mounting

### Lubrication system

- Easily replaceable separate full-flow and bypass oil filter
- Seawater-cooled tubular oil cooler

### Fuel system

- Common rail fuel injection system
- Control unit for processing the injection
- Fine filter with water separator

### Air inlet and exhaust system

- Air filter with replaceable insert
- Crankcase gases vented into the air inlet
- Exhaust elbow or exhaust riser
- Turbocharger, freshwater-cooled
- Loss of sea water alarm

### Cooling system

- Thermostatically regulated freshwater cooling
- Tubular heat exchanger with separate large volume expansion tank
- Connections for hot water outlet
- Seawater strainer and easily accessible impeller pump

### Electrical system

- 115A marine alternator with Zener-diodes to protect the system from peak voltage, and integrated charging regulator with battery sensor cable for maximum use of alternator
- Engine reset fuses
- Auxiliary stop button

### Instruments/control

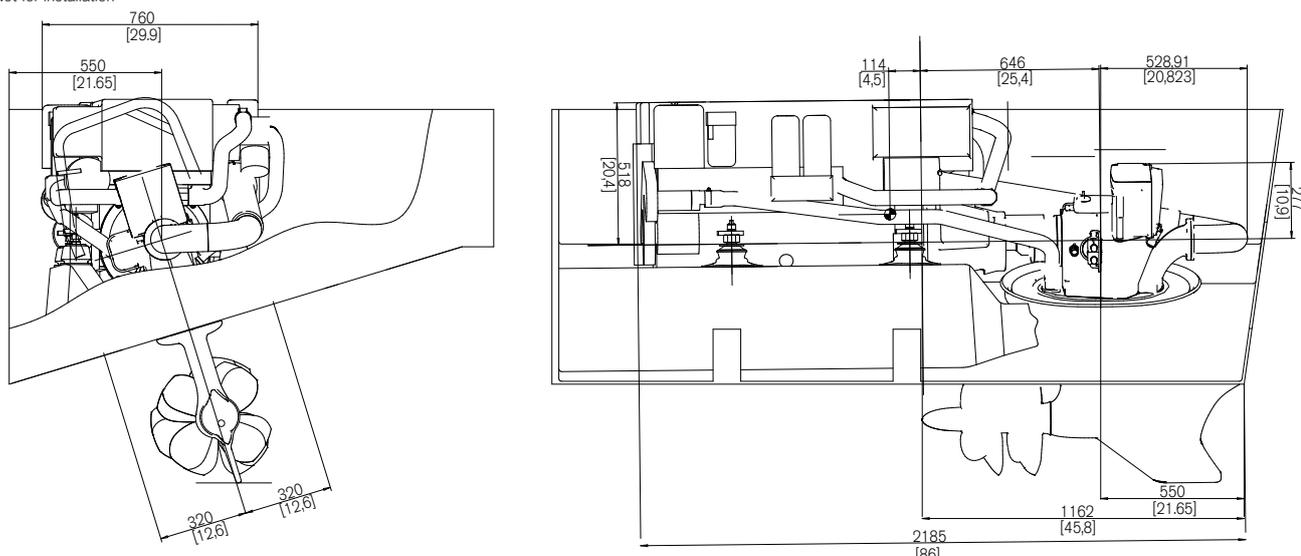
- Complete instrumentation including key switch
- EVC monitoring panels (option)
- Electronic remote control for throttle, shift and steering
- Plug-in connectors

### Pod transmission

- Forward-facing, twin counter-rotating propellers
- Electronic steering, enabling features such as joystick maneuvering
- Integrated exhaust system
- Hydraulic gear shift system with low speed mode as standard
- Nickel Aluminum Bronze and stainless steel in all main under water components
- Complete range of propellers available
- Several optional jackshaft lengths

## Dimensions IPS400MC/450

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](http://www.volvopenta.com)



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# VOLVO PENTA

AB Volvo Penta

SE-405 08 Göteborg, Sweden  
[www.volvopenta.com](http://www.volvopenta.com)

Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice. The engine illustrated may not be entirely identical to production standard engines.