

ENGINE MODEL V 1312 C2

TECHNICAL DATA

No. Cylinder & Arrangement	12V - 90°
Bore	130 mm
Stroke	126 mm
Total Displacement	20,07 l
Compression ratio	15,4
Valves per cylinder	2 intake
	2 exhaust

PERFORMANCE

V 1312 C2 MSD

Rated Power ICFN 1100 kW

Speed	2800 rpm
B.M.E.P.	23,5 bar
Emissions compliance	IMO MARPOL Tier II / EPA Tier II Without After Treatment System
Mean piston speed	11,76 m/s
Idle speed	700 rpm

AMBIENT REFERENCE CONDITIONS

According to Marine Classification Societies requirements (ISO 3046/1 for unrestricted navigation)

Ambient temperature	45° C
Sea water temperature	32° C
Barometric pressure	1000 mbar
Relative humidity	60%

Rated power available without any derating up to:

Ambient temperature	55° C
Sea water temperature	36° C
Relative humidity	100%

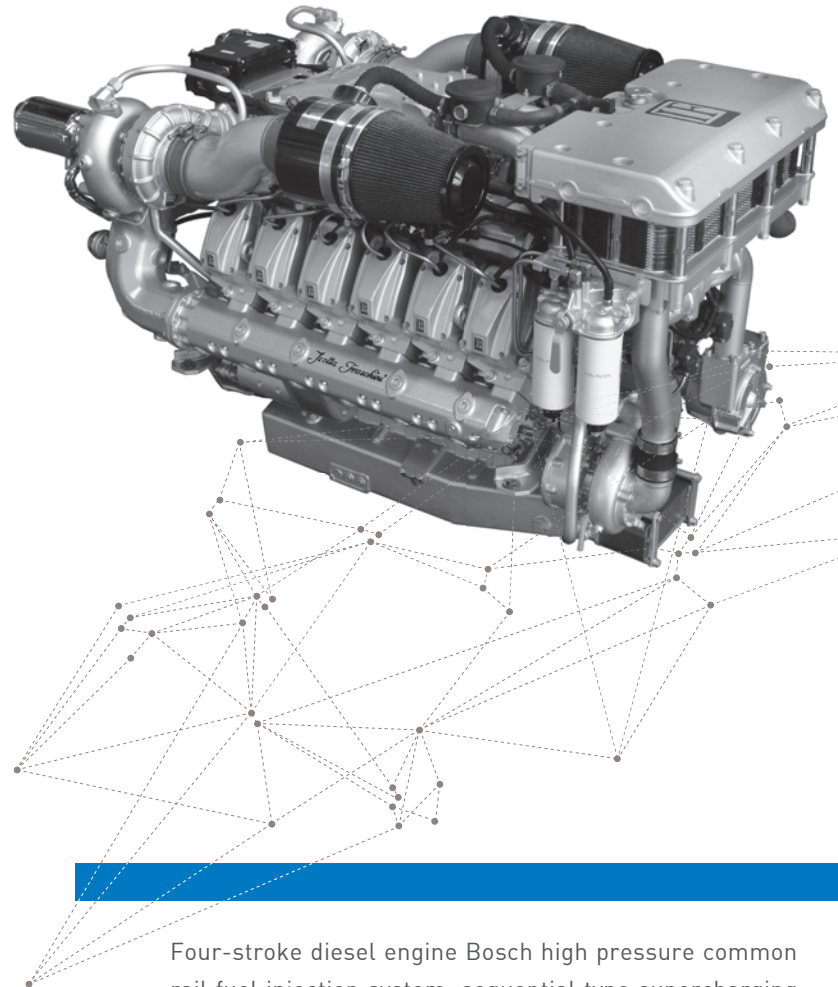


Isotta Fraschini Motori
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the added value to your project

V 1312 C2

MARINE DIESEL ENGINE



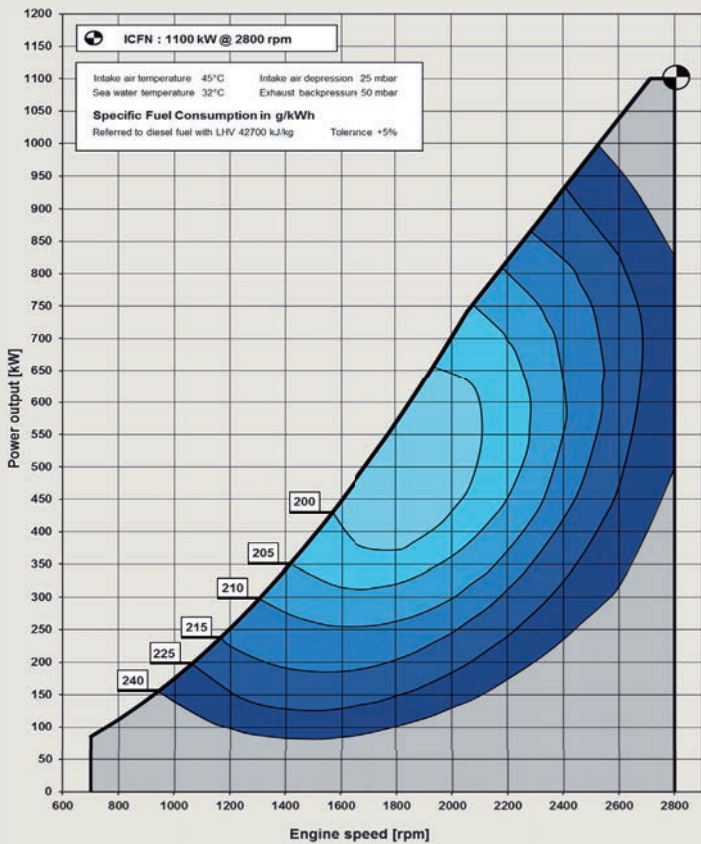
Four-stroke diesel engine Bosch high pressure common rail fuel injection system, sequential type supercharging system with exhaust gas operated turbochargers and tube-type sea water/charge air intercoolers, engine cooling system with fresh water/sea water plate type heat exchanger with integrated header tank and thermostatic control, thermal insulated exhaust gas manifolds.

Single cylinder heads with 4 valve technology; efficient combustion with low fuel consumption; outstanding low end torque for excellent acceleration and reliable high output power, in all operating conditions.

Engine with exclusive power to weight ratio.

PERFORMANCE DIAGRAM

V 1312 C2 ENGINE

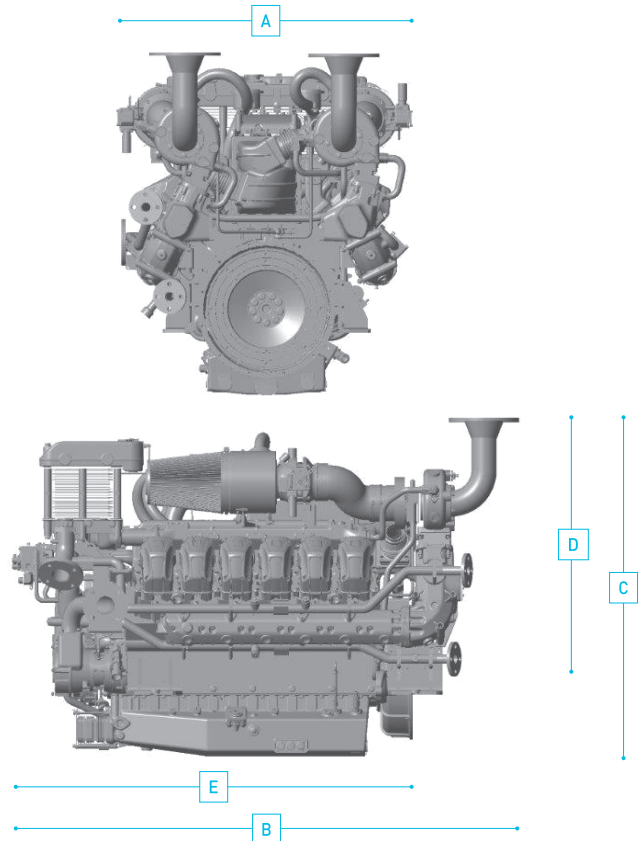


NOTE: Engines Power in reference to ISO 3046 -1

BASIC ENGINE BUILD STANDARD

- Engine cooling circuits with engine-driven centrifugal pumps (sea water pump of self-priming type)
- Forced engine lubrication by engine-driven gear type pump, plate-type oil/ fresh water cooler unit, cartridge type oil filter unit
- Fuel system complete with BOSCH High Pressure pump with feeding pump
- Duplex fuel filter, cartridge replaceable whilst running
- Electric system provided with terminal box
- Electric starting motor (24V, 2 x 9 kW)
- Alternator for battery charging (28V, 100A)
- Exhaust gas bellows
- Intake air bellows
- Flexible mountings
- Electric pre-lubrication pump
- Shielded High Pressure Injection pipes
- Torsional vibration damper
- Local Control Panel (LCP)
- Standard tools
- Operating and maintenance manual (commercial type)
- Illustrated spare parts catalogue (commercial type)

V 1312 C2 MARINE DIESEL ENGINE



DIMENSIONS & WEIGHTS

A	Engine Width	1115 mm	E	Length at Flywheel	1584 mm
B	Engine Length	1794 mm	F	Engine Dry mass	1600 Kg
C	Engine Height	1252 mm	I	Flywheel and Housing size	SAE 14 SAE 1
D	Height at Engine shaft	909 mm			

OPTIONAL ITEMS

PRESSURE SENSORS:

- Charge air pressure
- Lube oil pressure
- Fresh water pressure
- Sea water pressure
- Fuel oil pressure

TEMPERATURE SENSORS:

- Charge air temperature
- Fresh water temperature
- Lube oil temperature
- Fuel oil temperature
- Exhaust gas temperature

NOTE

All technical data are subject to variation without notice.
To be used only as indicative.
To be confirmed with a purchase order.

OPTIONAL ITEMS

- Overspeed engine stopping device
- Marine painting
- Fresh water pre-heating system with thermostat system
- Lube oil pre-heating system with thermostat system
- Remote Control Panel-Dashboard
- Throttles kit
- Reverse & reduction gear box (torsional coupling included)
- Cardan shaft
- Classification society test certificate
- Torsional vibration analysis calculation (TVCA)
- Long storage preservation treatment
- Pneumatic starting system
- Intake air dry type filters
- Bilge Pump
- Turning gear