

## ENGINE MODEL V 1708 C2

## TECHNICAL DATA

No. Cylinder & Arrangement	8V - 90°
Bore	170 mm
Stroke	170 mm
Total Displacement	30,9 l
Compression ratio	13,2
Valves per cylinder	2 intake
	2 exhaust

## PERFORMANCE

## V 1708 C2 MLL

## Rated Power ICFN 815 kW

Speed	1935 rpm
B.M.E.P.	16,4 bar
Emissions compliance	IMO MARPOL Tier II / EPA Tier II Without After Treatment System
Mean piston speed	10,97 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	32° C
Relative humidity	100%

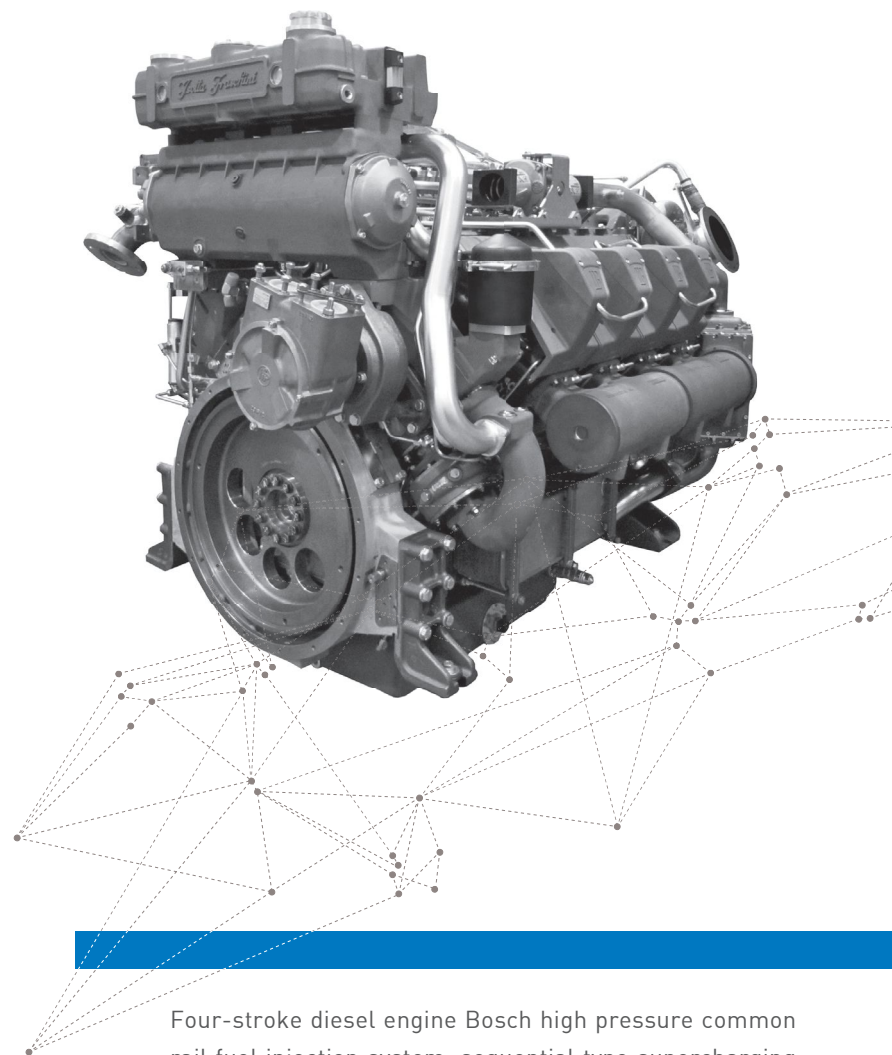


*Isotta Fraschini Motori*  
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the added value to your project

## V 1708 C2

### MARINE DIESEL ENGINE



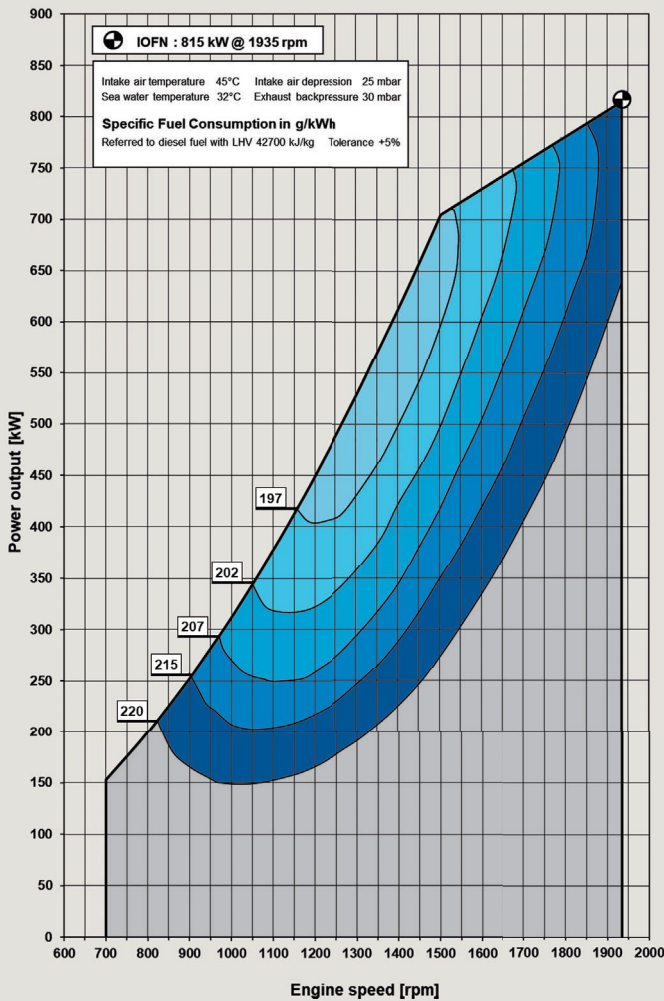
Four-stroke diesel engine Bosch high pressure common rail fuel injection system, sequential type supercharging system with exhaust gas operated turbochargers and tube-type sea water/charge air intercoolers, engine cooling system with fresh water/sea water plate type heat exchanger with integrated header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

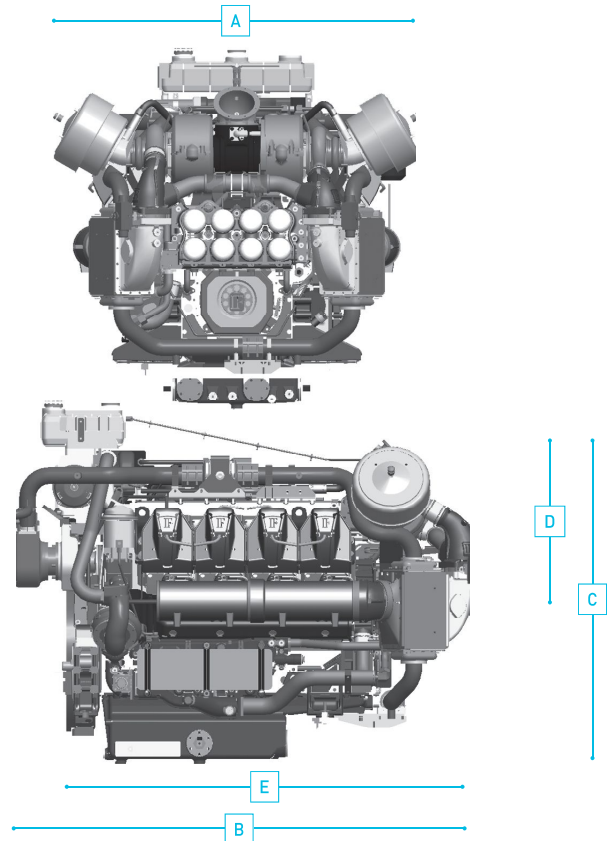
# PERFORMANCE DIAGRAM

## V 1708 C2 ENGINE



NOTE: Engines Power in reference to ISO 3046 -1

# V 1708 C2 MARINE DIESEL ENGINE



### DIMENSIONS & WEIGHTS

<b>A</b>	Engine Width	1500 mm	<b>E</b>	Length at Flywheel	1870 mm
<b>B</b>	Engine Length	2000 mm	<b>F</b>	Engine Dry mass	3550 Kg
<b>C</b>	Engine Height	1650 mm	<b>I</b>	Flywheel and Housing size	SAE 18 SAE 0
<b>D</b>	Height at Engine shaft	1170 mm			

### 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)

### PRESSURE SENSORS:

- Charge air pressure
- Lube oil pressure
- Fresh waterpressure
- 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 (TVC)
- Long storage preservation treatment
- Pneumatic starting system
- Intake air dry type filters
- Bilge Pump
- Turning gear



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