

MARINE PROPULSION

ENGINE SPECIFICATIONS

Engine Type	Inline-4 Cylinders, 4-Stroke Diesel
Bore X Stroke	105mm X 124mm
Aspiration	Turbocharged/Intercooled
Displacement	4.3L
Rotation	Anti-clockwise facing flywheel
Emissions	IMO II



POWER RATINGS & PERFORMANCE DATA

Power Rating	Continuous duty					
Rated RPM	1500			1800		
kW	63	80	90	100	70	110
Fuel Oil Consumption in rated power L/Hr	15	19	21.5	23.8	16.7	26.2

ENGINE FEATURES

Certifications

Emissions compliant to IMO ANNEX VI of MARPOL 73/78 guidelines. Certifications available for CCS

Engine Design

Robust engine block designed for continuous duty operation and long life. Metric O-ring seals and edge molded gaskets eliminate fluid leaks. L.O oscillating cooled aluminum alloy AVL piston design with 3 high performance rings, fracture split connecting rod with angle tightening method. Dry type replaceable cylinder sleeve. One whole piece cast iron AVL design cylinder head assembly, each unit with two inlet valves and two exhaust valves. Cast steel crankshaft with 5 bearings

Cooling System

Fresh/raw water heat exchanger with integrated thermostatic valves and expansion tank. Cast iron centrifugal fresh water pump and cast iron centrifugal raw water pump

Electrical System

Voltage: 24Vcc, electrical starter on flywheel crown, local control and alarm panel

Fuel Oil System

Inline injection fuel pump with full speed mechanical governor or electrical actuator. Double skin fuel injection pipe with fuel leak alarm. Spin-on single unit fuel oil secondary filter

Lubrication System

Spin-on single unit oil filter provide extended service interval and less maintenance. Special oil pan design in order to enhance crank case ventilation and L.O circulation. F.W cooled plate type L.O cooler

Exhaust & Intake Air System

Dry type exhaust manifold with insulation coverage. Dry turbo with insulation. Raw water cooled intake air cooler which made of high corrosive resistance bronze fins. Intake air manifold is integrated with cylinder head

Options

Air starter, dirty oil hand pump, pre-lub hand pump, remote control panel, stainless/ bronze raw water pump, water separating primary fuel oil filter, engine stop solenoid valve

ENGINE DIMENSIONS

Model	Length mm	Width mm	Height mm	Weight kG
SC4H/Turbocharged	1012	723	1079	430
SC4H/Turbo&Intercooled	1053	717	1158	460
Continuous duty:	Unrestricted load operations, load factor: 80-100%, typical running hours more than 5000 hrs/year			