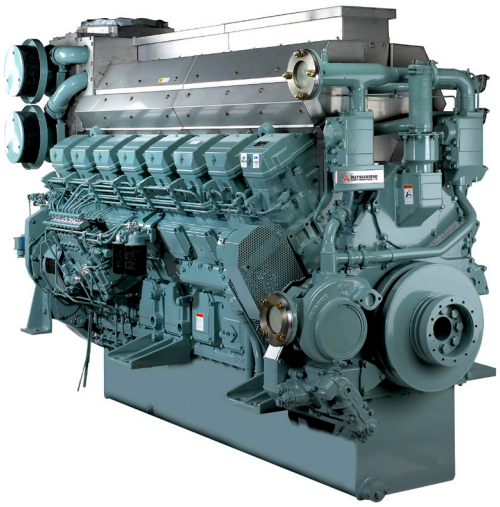
MITSUBISHI HEAVY INDUSTRIES

S16R-MPTAW

1120 - 1690 kW | MARINE GENERATOR
IMO TIER III

MITSUBISHI MARINE ENGINE

RELIABLE MECHANICAL ENGINE



ENGINE DATA	
Engine model	S16R-MPTAW
Cylinder configuration	16/60°V
Total displacement	65.37
Bore x stroke (mm)	170 x 180
Flywheel and housing	SAE 21 / SAE 00
Compression ratio	14.5:1
Dry weight (kg)	6780

Method of operation	4-stroke, water-cooled diesel engine, with direct-injection, turbocharger, air-cooler and exhaust after-treatment by SCR
Cooling method	separate high and low temperature cooling circuit; charge air cooler by closed freshwater system controlled by thermostat (intercooler)

RATING[1,2]

Application	Diesel-Electric Propulsion			Auxiliary Generator			Harbour Emergency Generator		
Rating	DEP	DEP	DEP	Prime	Prime	Prime	Prime	Prime	Prime
Output (kW)	1120	1500	1536	1120	1500	1690	1120	1500	1690
Output (bhp)	1502	2012	2060	1502	2011	2265	1502	2011	2265
Engine speed (rpm)	1200	1500	1500	1200	1500	1800	1200	1500	1800
Emissions	IMO Tier III								

[1] For rating definitions, please see our website.
[2] Atmospheric condition: barometic pressure: 100kPa, ambient temperature: 298K, relative humidity: 30%.

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STANDARD AND OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

Fuel system
- Flexible fuel supply - and return hoses
- Fuel feed pumps
- Fuel fine filters, change-over type
- Fuel injection pumps
- Dual walled high-pressure fuel lines
- Fuel injectors

Lubricating oil system
- Wet type oil pan with inspection covers
- Oil pressure pump, gear driven
- Lubricating oil filters, change-over type
- By-pass filter
- Oil cooler with thermostat

Starting and electrical system
- Electric starter (Earth floated 24V)
- Alternator, 30 Amps.
- Stop solenoid (ETS)

Cooling system
- Freshwater pump including piping and thermostat (HT)
- Cooling water pipe on thermostat housing (HT)
- Front pulley PTO standard

Air inlet system
- Mitsubishi turbochargers
- Air inlet silencers with pre-cleaner
- Inlet air aftercoolers or intercoolers
- Inlet manifolds or ducts

Exhaust system
- Stainless steel insulation (SOLAS)

SCR after-treatment system
- SCR reactor
- Injection unit
- Dosing unit
- Shoot blower system
- Control system

Other
- Mounting brackets for rigid mounting
- Flywheel and housing, SAE standard
- Torsional vibration damper

OPTIONAL EQUIPMENT

Classification
We are cooperating with many of the major classification societies.

Governor (mandatory)
- Hydraulic governor
- Electronic governor, with speed control box

Fuel system
- Drip tray fuel filters

Lubricating oil system
- Pre-lubrication oil system
- Drip tray oil filters

Monitoring system
- Complete digital monitoring system
- Sensor package; sensors mounted on engine with terminal box

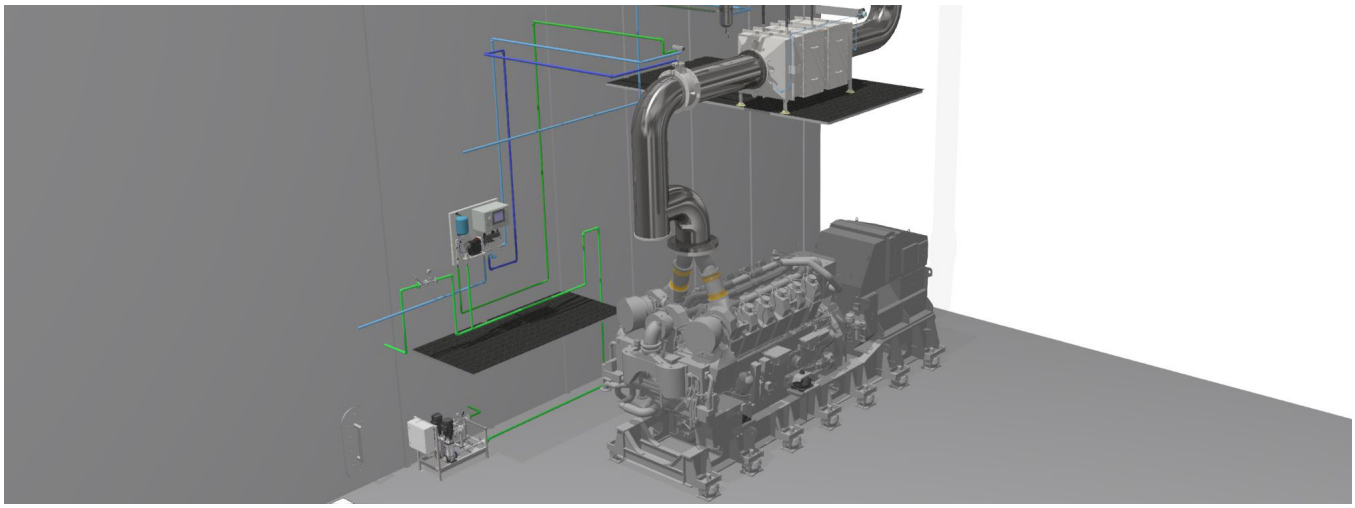
Starting and electrical system
- Air starter motor (30 bar)

Cooling system
- Cooling system with freshwater pump, V-belt including piping and thermostat (LT)
- Big capacity front PTO
- Cooling water heater with circulation pump

Exhaust system
- Flexible expansion joint
- Horizontal exhaust instead of vertical

SCR after-treatment system
- Urea pump unit

DIMENSIONS



Dimensions	1500 / 1800 rpm	1200 rpm
Engine L x W x H (mm)	2971 x 1585 x 1960	2971 x 1585 x 1960
SCR unit (Horizontal or vertical) size (excl. insulation) L x W x H (mm)	1195 x 1190 x 2658	893 x 882 x 2349
Mixing pipe requirements diameter (DN)*	600	400
Mixing pipe length (mm)*	2800	2700

* Insulation of the SCR system is not included in the scope of supply, to be supplied and installed by the shipyard.

More information
Contact your local dealer for more information regarding Mitsubishi Marine Engines and optional equipment or, visit www.mtee.eu

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CS-M-S16R-MPTAW-2102V1.0