MITSUBISHI HEAVY INDUSTRIES

HVO

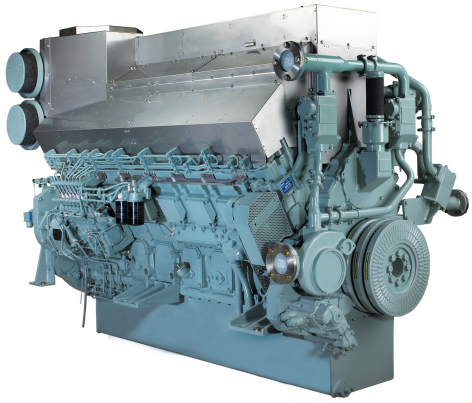
MITSUBISHI MARINE ENGINE

S16R2-T2MPTAW

1450–1885 kW | Marine Propulsion

IMO-T2 and IMO-T3 (SCR option)*

Reliable mechanical engine



ENGINE DATA			
Engine model	S16R2-T2MPTAW	**Method of operation**	16-cylinder, 4-stroke, water-cooled diesel engine, with direct-injection, turbocharger and air-cooler
Cylinder configuration	16/60°V		
Bore × stroke (mm)	170 x 220		
Total displacement (l)	79.9		
Compression ratio	14.0:1	**Cooling method**	separate high and low temperature cooling circuit; charge air cooler by closed freshwater system controlled by thermostat (intercooler)
Flywheel and housing	SAE 21 / SAE 00		
Dry weight (kg)	7750		
Aspiration	Turbocharged and after-cooled		

RATING [1,2]			
Duty Class	UCD	HD	MD
Output (kW)	1450	1600	1885
Output (bhp)	1943	2144	2526
Engine speed (rpm)	1350	1400	1500
Running Hours	7000 - unlimited	5000-7000	3000 - 5000
Propulsion System	CPP/FPP	CPP/FPP	CPP/FPP
Emissions	IMO-T2 and IMO-T3 (SCR option)*		

1 For rating definitions, please see our website.

2 Atmospheric condition: barometric pressure: 100 kPa, ambient temperature: 298 K, relative humidity: 30%.

* The SCR after treatment can be provided through our partners. Please contact MTEE for more information.

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STANDARD EQUIPMENT

GOVERNOR (MANDATORY)
- Hydraulic governor

FUEL SYSTEM
- Flexible fuel supply - and return hoses
- Fuel feed pump
- Fuel fine filters, change-over type
- Fuel injection pump
- 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
- Fresh water pump including piping and thermostat (HT)
- Front pulley PTO standard
- Big capacity front PTO
- Cooling water pipe on thermostat housing (HT)

AIR INLET SYSTEM
- Mitsubishi turbocharger
- Air inlet silencer with pre-cleaner
- Inlet air aftercooler or intercooler
- Inlet manifolds or ducts

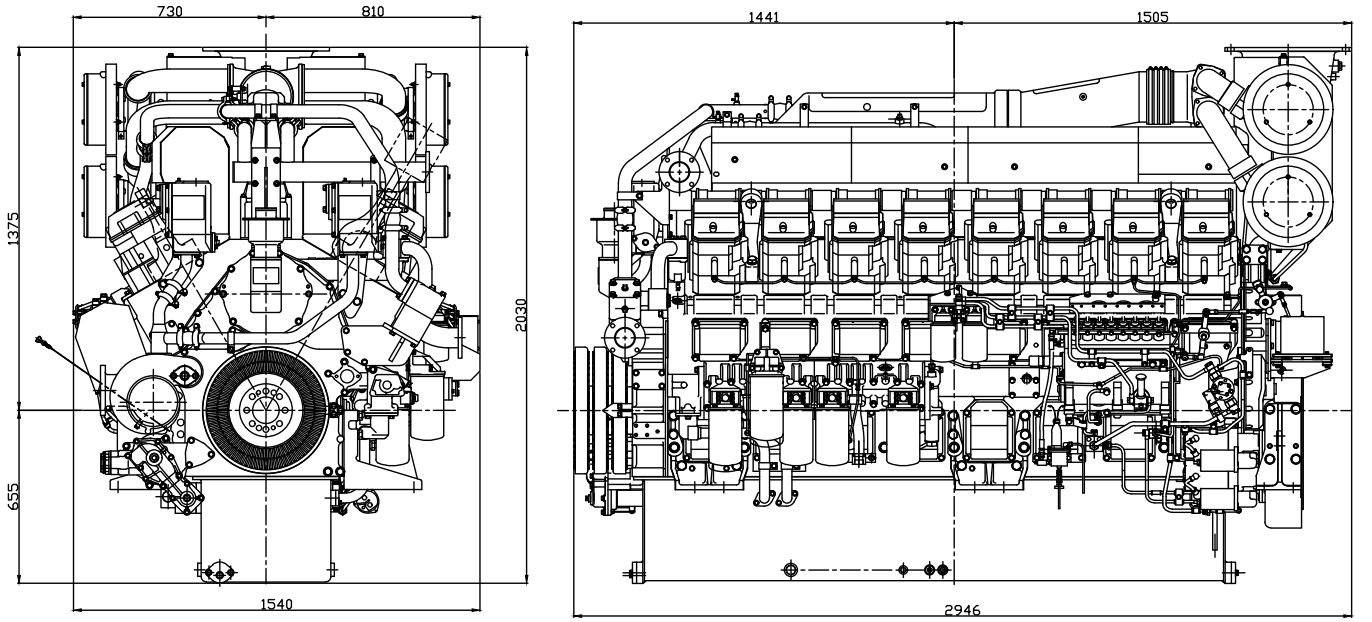
EXHAUST SYSTEM
- Stainless steel insulation (SOLAS)

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

OPTIONAL EQUIPMENT

SCR Aftertreatment
For more details, please see page 3

DIMENSIONS



More information

Contact your local dealer for more information regarding Mitsubishi Marine Engines and optional equipment or, visit **engine-genset.mhi.com**

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OPTIONAL EQUIPMENT

CERTIFICATION / CLASSIFICATION
• Available in cooperation with major classification societies.

GOVERNOR (MANDATORY)
• Electronic governor (not available for single engine propulsion)

FUEL SYSTEM
• Drip tray fuel filters

LUBRICATING OIL SYSTEM
• Drip tray oil filters
• Pre-lubrication oil system

MONITORING SYSTEM
• Complete digital monitoring system
• Sensor package; sensors mounted on engine with terminal box

STARTING AND ELECTRICAL SYSTEM
• Air starter motor (30 bar)

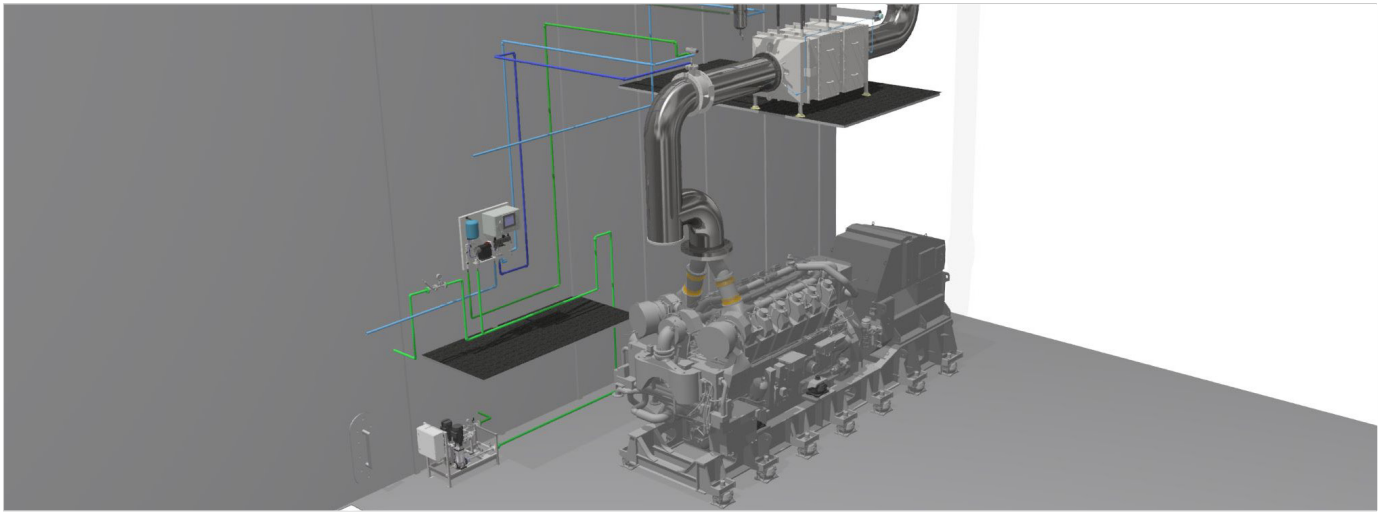
COOLING SYSTEM
• Cooling water heater with circulation pump

EXHAUST SYSTEM
• Flexible expansion joint
• Horizontal exhaust instead of vertical

SCR AFTER TREATMENT SYSTEM

• SCR reactor
• Injection unit
• Dosing unit
• Shoot blower system
• Control system
• Urea pump unit

DIMENSIONS



Dimensions

Engine L x W x H (mm)	2946 x 1525 x 2030
SCR unit (SCR49) size (excl. insulation) L x W x H (mm)	1195 x 1190 x 2658
Mixing pipe requirements diameter (DN)*	600
Mixing pipe length (mm)*	2600

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

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