

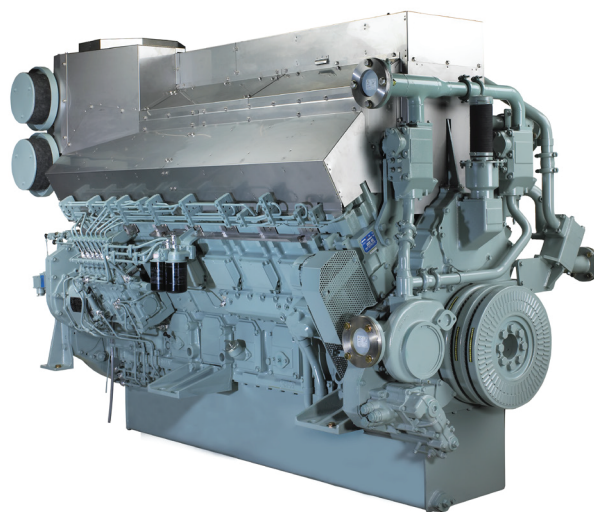
## S16R2-T2MPTAW

1568 - 1960 kW | MARINE GENERATOR

IMO TIER III

# MITSUBISHI MARINE ENGINE

RELIABLE MECHANICAL ENGINE



### ENGINE DATA

|                        |                 |
|------------------------|-----------------|
| Engine model           | S16R2-T2MPTAW   |
| Cylinder configuration | 16/60°V         |
| Total displacement     | 79.9            |
| Bore x stroke (mm)     | 170 x 220       |
| Flywheel and housing   | SAE 21 / SAE 00 |
| Compression ratio      | 14.0:1          |
| Dry weight (kg)        | 7750            |

### 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 <sup>1,2</sup>

| Application        | Diesel-Electric Propulsion |      | Auxiliary Generator |       |
|--------------------|----------------------------|------|---------------------|-------|
|                    | DEP                        | DEP  | Prime               | Prime |
| Output (kW)        | 1568                       | 1960 | 1568                | 1960  |
| Output (bhp)       | 2102                       | 2628 | 2102                | 2627  |
| Engine speed (rpm) | 1200                       | 1500 | 1200                | 1500  |
| Emissions          | IMO Tier III               |      |                     |       |

<sup>1</sup> For rating definitions, please see our website.

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

## STANDARD AND OPTIONAL EQUIPMENT

### STANDARD EQUIPMENT

#### Governor (mandatory)

- Electronic governor, with speed control box

#### 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 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)

- Big capacity front PTO

#### 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

#### 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 water heater with circulation pump

#### Exhaust system

- Flexible expansion joint

#### SCR after-treatment system

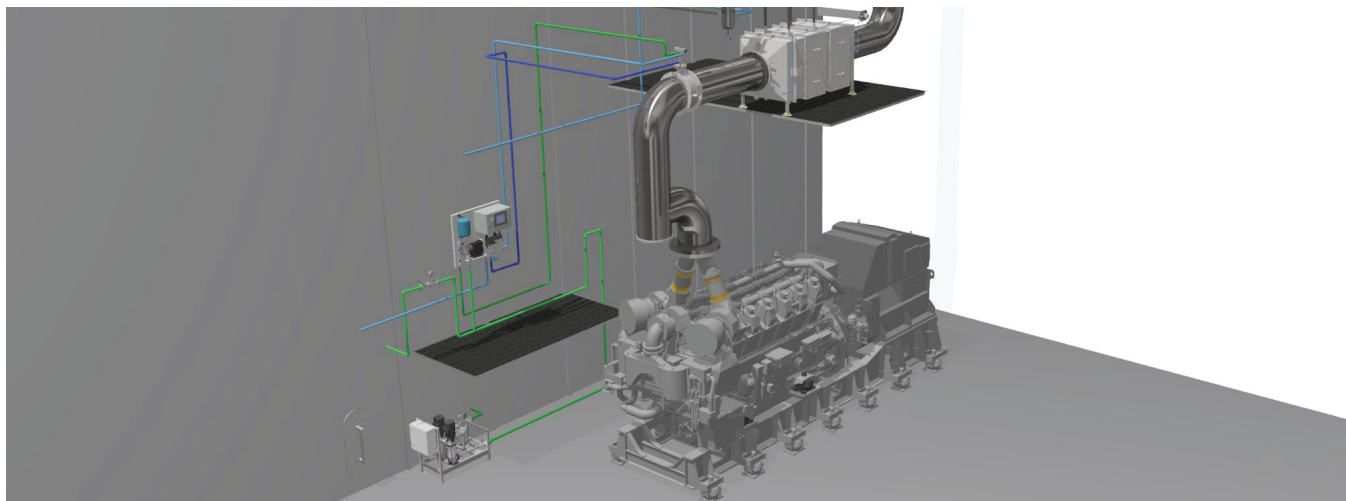
- Urea pump unit

### OPTIONAL EQUIPMENT

#### Classification

We are cooperating with many of the major classification societies.

## DIMENSIONS



### Dimensions

|                                                                          |                    |
|--------------------------------------------------------------------------|--------------------|
| Engine L x W x H (mm)                                                    | 2946 x 1525 x 2030 |
| SCR unit (Horizontal or vertical) 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.

#### More information

Contact your local dealer for more information regarding Mitsubishi Marine Engines and optional equipment or, visit [www.mtee.eu](http://www.mtee.eu)

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