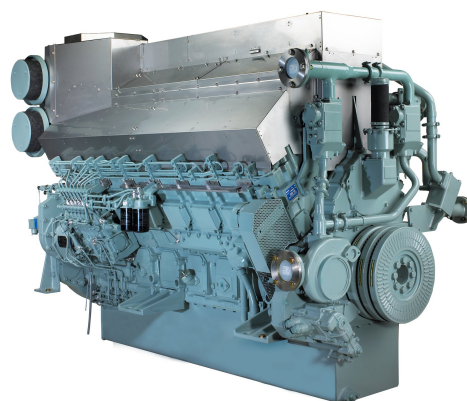


**MITSUBISHI MARINE ENGINE**

# S16R2-T2MPTAW

1568–1960 kW | Marine Generator

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

**Reliable mechanical engine**


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

| RATING <sup>1,2</sup>     |                                 |  |       |
|---------------------------|---------------------------------|--|-------|
| <b>Application</b>        | Generator                       |  |       |
| <b>Duty Class</b>         | Prime                           |  | Prime |
| <b>Output (kW)</b>        | 1568                            |  | 1960  |
| <b>Output (bhp)</b>       | 2102                            |  | 2627  |
| <b>Engine speed (rpm)</b> | 1200                            |  | 1500  |
| <b>Emissions</b>          | IMO-T2 and IMO-T3 (SCR option)* |  |       |

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

<sup>2</sup> 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.

## STANDARD EQUIPMENT

### GOVERNOR (MANDATORY)

- Electronic governor, with speed control box

### 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
- 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

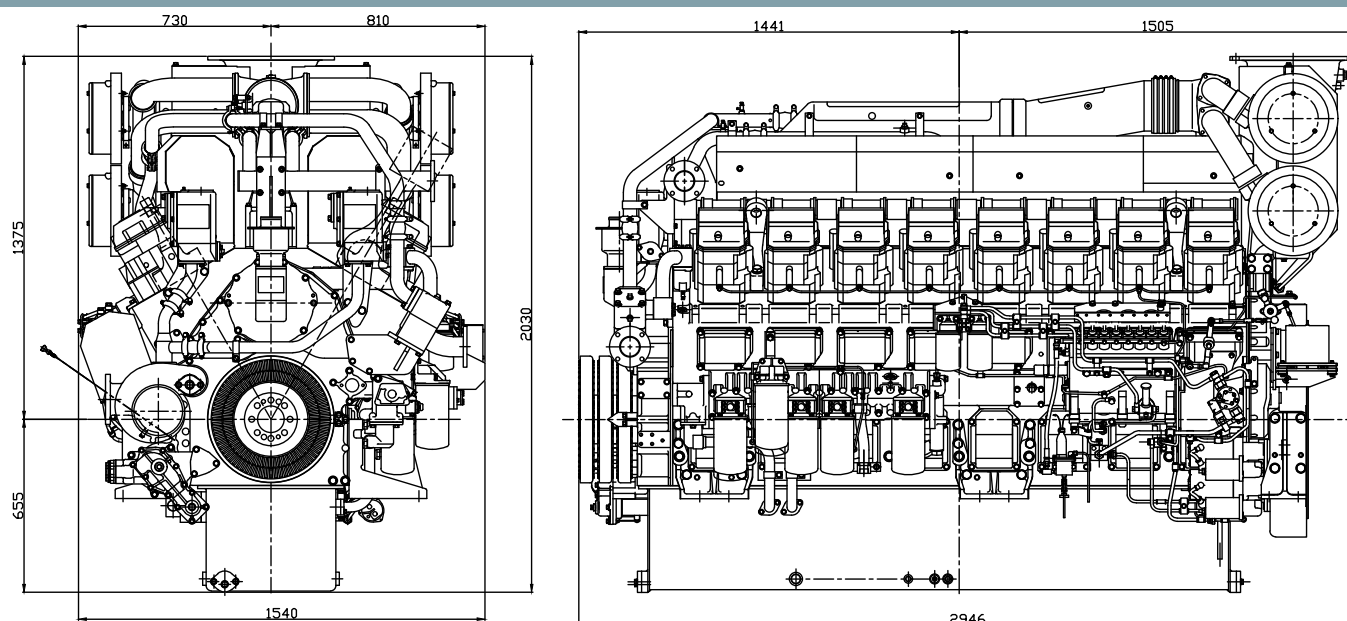
- Mounting brackets for rigid mounting
- Flywheel and housing, SAE standard
- Torsional vibration damper

## 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](http://engine-genset.mhi.com)

## OPTIONAL EQUIPMENT

### CERTIFICATION / CLASSIFICATION

- Available in cooperation with major classification societies.

### 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

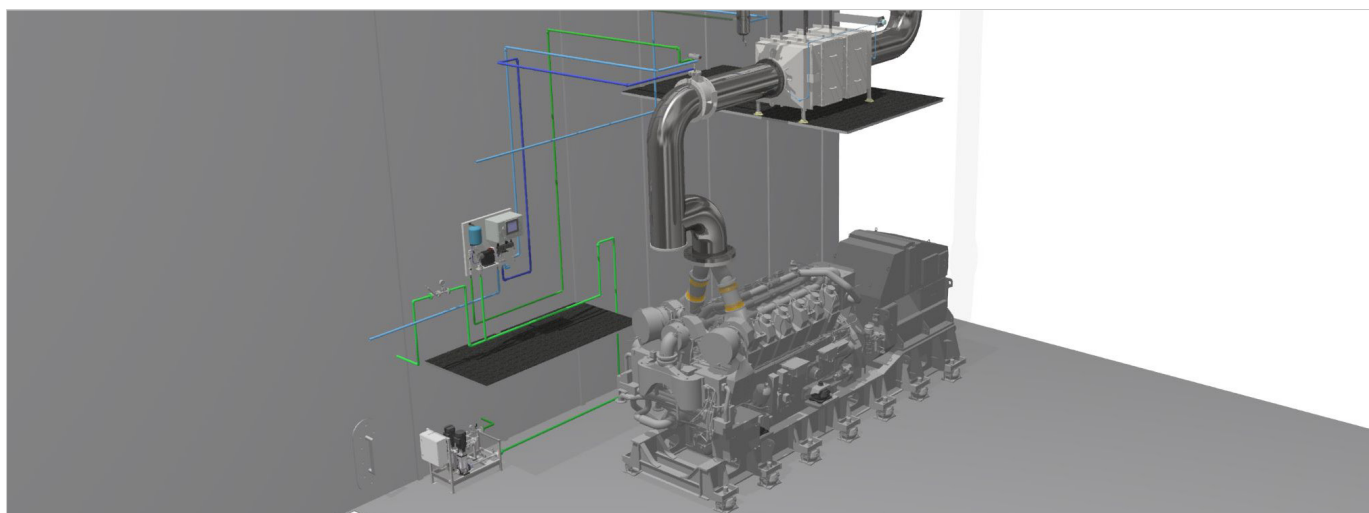
- Flexible expansion joint
- Horizontal exhaust instead of vertical

## 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.

### More information

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