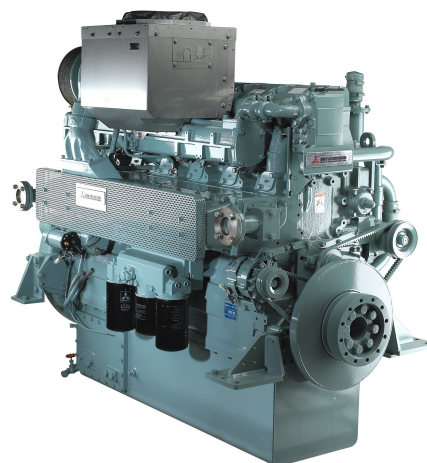


**mitsubishi marine engine**

# S6R-MPTAW

Propulsion engine · 324–605 kW

IMO-T2, IMO-T3 (SCR option)\* and EU-5

**Reliable mechanical engine**


| ENGINE DATA            |                               |                     |                                                                                                                                         |
|------------------------|-------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Engine model           | S6R-MPTAW                     | Method of operation | 6-cylinder, 4-stroke, water-cooled diesel engine, with direct-injection, turbocharger and air-cooler                                    |
| Cylinder configuration | 6 in-line                     |                     |                                                                                                                                         |
| Bore × stroke (mm)     | 170 x 180                     |                     |                                                                                                                                         |
| Flywheel and housing   | SAE 18 / SAE 00               |                     |                                                                                                                                         |
| Compression ratio      | 14.5:1                        | Cooling method      | separate high and low temperature cooling circuit; charge air cooler by closed freshwater system controlled by thermostat (intercooler) |
| Total displacement (l) | 24.51                         |                     |                                                                                                                                         |
| Dry weight (kg)        | 2,830                         |                     |                                                                                                                                         |
| Aspiration             | Turbocharged and after-cooled |                     |                                                                                                                                         |

| RATING <sup>1,2</sup>                     |                              |                                       |                                       |                                       |                                       |
|-------------------------------------------|------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Rating                                    | UCD                          | UCD                                   | UCD                                   | HD                                    | MD                                    |
| Output (kW)                               | 324                          | 447                                   | 470                                   | 520                                   | 605                                   |
| Output (bhp)                              | 434.26                       | 599.11                                | 629.94                                | 696.96                                | 810.88                                |
| Engine speed (rpm)                        | 1,600                        | 1,600                                 | 1,600                                 | 1,650                                 | 1,800                                 |
| Gross torque (Nm)                         | on request                   | 2805                                  | 2805                                  | 3009                                  | 3210                                  |
| Fuel cons. 100% load (g/kWh)              | on request                   | 219                                   | 219                                   | 224                                   | 231                                   |
| Fuel cons. 75% load (g/kWh)               | on request                   | 211                                   | 211                                   | 209                                   | 216                                   |
| Fuel cons. 50% load (g/kWh)               | on request                   | 211                                   | 211                                   | 210                                   | 212                                   |
| Running Hours                             | 7000 - unlimited             | 7000 - unlimited                      | 7000 - unlimited                      | 5000-7000                             | 3000 - 5000                           |
| Propulsion System                         | CPP/FPP                      | CPP/FPP                               | CPP/FPP                               | CPP/FPP                               | CPP/FPP                               |
| Emissions                                 | IMO-T2, IMO-T3 (SCR option)* | IMO-T2, IMO-T3 (SCR option)* and EU-5 | IMO-T2, IMO-T3 (SCR option)* and EU-5 | IMO-T2, IMO-T3 (SCR option)* and EU-5 | IMO-T2, IMO-T3 (SCR option)* and EU-5 |
| * SCR after-treatment option, see page 3. |                              |                                       |                                       |                                       |                                       |

<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%.

<sup>3</sup> Fuel consumption based on ISO3046-1.

## STANDARD AND OPTIONAL EQUIPMENT

### AIR INLET SYSTEM

- Air inlet silencer with pre-cleaner
- Inlet air aftercooler or intercooler
- Inlet manifolds or ducts

### LUBRICATING OIL SYSTEM

- (Optional) Drip tray oil filters
- (Optional) Lubricating oil drain pump
- (Optional) Pre-lubrication oil system
- By-pass filter
- Lubricating oil filters, change-over type
- Oil cooler with thermostat
- Oil pressure pump, gear driven
- Wet type oil pan with inspection covers

### CLASSIFICATION

- (Optional) We are cooperating with many of the major classification societies.

### FUEL SYSTEM

- (Optional) Drip tray fuel filters
- Dual walled high-pressure fuel lines
- Flexible fuel supply - and return hoses
- Fuel feed pump
- Fuel fine filters, change-over type
- Fuel injection pump
- Fuel injectors

### STARTING AND ELECTRICAL SYSTEM

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

### MONITORING SYSTEM

- (Optional) Complete digital monitoring system
- (Optional) Sensor package; sensors mounted on engine with terminal box

### GOVERNOR (MANDATORY)

- (Optional) Electronic governor (not available for single engine propulsion)
- (Optional) Hydraulic governor

### COOLING SYSTEM

- (Optional) Cooling system with fresh water pump, V-belt including piping and thermostat (LT)
- (Optional) Cooling water heater with circulation pump
- Fresh water pump including piping and thermostat (HT)
- Front pulley PTO standard
- Mitsubishi turbocharger

### EXHAUST SYSTEM

- (Optional) Flexible expansion joint
- Stainless steel insulation (SOLAS)

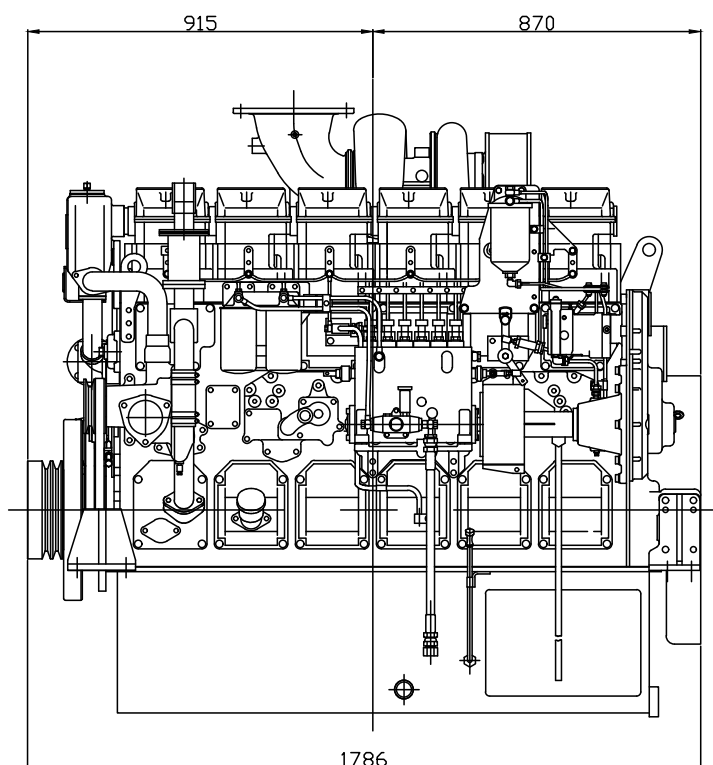
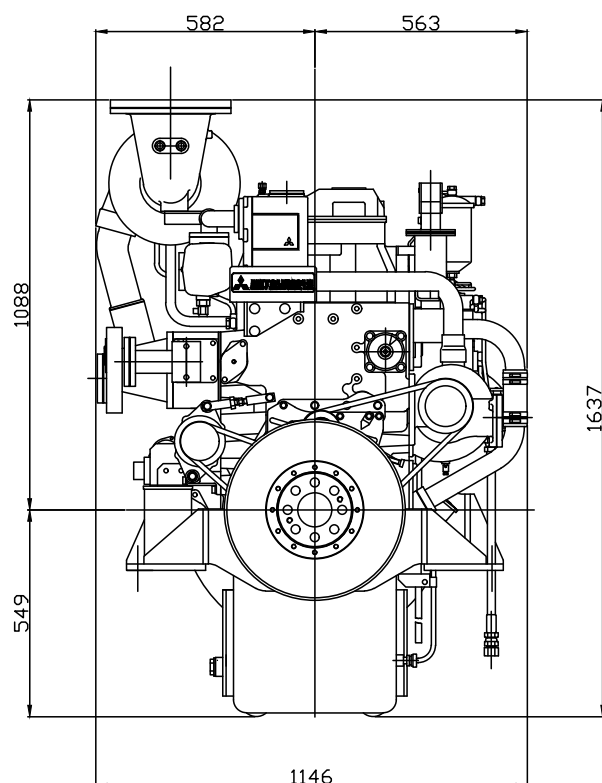
### OTHER

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

### OPTIONAL EQUIPMENT

IMO Tier III compliance – SCR after treatment

## DIMENSIONS



### 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)

## OPTIONAL EQUIPMENT

### Optional: IMO TIII equipment

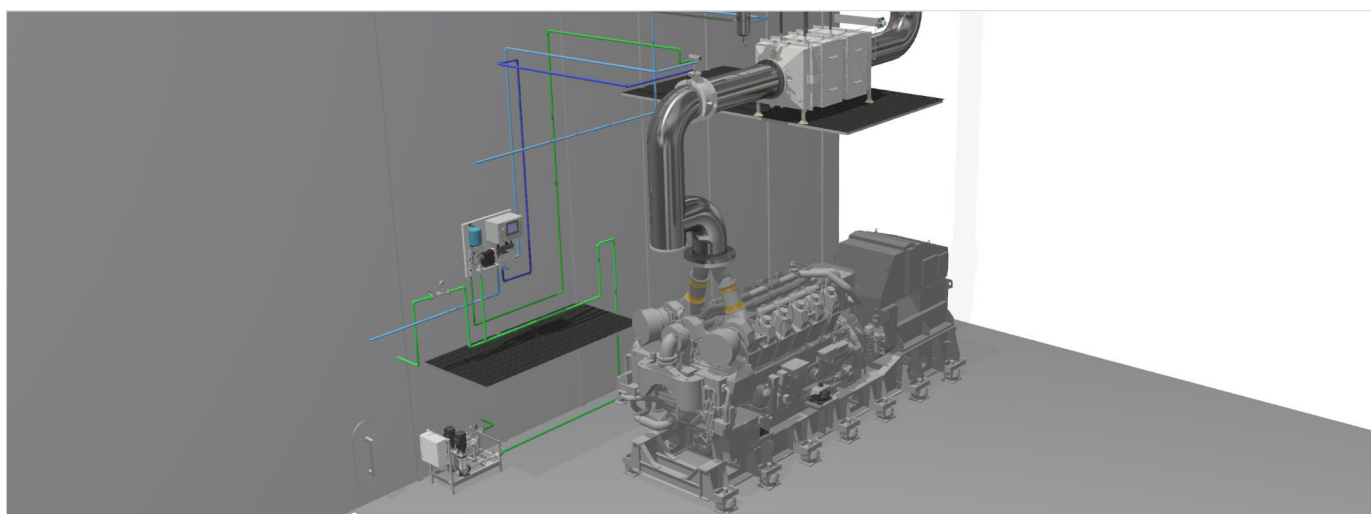
#### SCR AFTER-TREATMENT SYSTEM

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

#### SCR AFTER-TREATMENT SYSTEM

- Urea pump unit

## DIMENSIONS



### Dimensions

|                                                         |                    |
|---------------------------------------------------------|--------------------|
| Engine L x W x H (mm)                                   | 1786 x 1220 x 1650 |
| SCR unit (SCR25) size (excl. insulation) L x W x H (mm) | 893 x 882 x 2349   |
| Mixing pipe requirements diameter (DN)*                 | 400                |
| Mixing pipe length (mm)*                                | 2200               |

\* 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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