

## Marine Engines

# 4 W105M

### 4 Stroke diesel engine, direct injection

Bore and stroke	105 x 130 mm
Number of cylinders	4 in line
Total displacement	4,5 litres
Compression ratio	18/1
Engine rotation (ISO 1204 standard)	counterclockwise
Idle speed	650 rpm
Flywheel housing	SAE 3
Flywheel	SAE 11,5"



### Customer benefits

**Continuous compact power** with reference performances in its category

**Global environment care** with low exhaust emissions and controlled fuel consumption at any running cycle

**Simple technology with mechanical injection**

**Life cycle cost efficiency** with extended mean time between overhauls (MBTO)

### Rated power - Fuel consumption

Duty	kW	hp	rpm	Fuel consumption g/kWh	Peak torque / speed (N.m / rpm)
P2	95	130	2100	214	535 / 1500

	P2
Application	continuous
Engine load variations	numerous
Average engine load factor	30 to 80%
Annual working time	3000 to 5000 h
Time at full load	8 h each 12 h

### Power definition

Standard ISO 3046/1

#### Reference conditions

Ambient temperature	25 °C / 77 °F
Barometric pressure	100 kPa
Relative humidity	30%R
Raw water temperature	25 °C / 77 °F

#### Fuel oil

Relative density	0,840 ± 0,005
Lower calorific power	42 700 kJ/kg
Consumption tolerances	0 ± 5%
Inlet limit temperature	35 °C / 95 °F

**Our ratings also comply with classification societies maximum temperature definition without power derating.**

Ambient temperature	45 °C / 113 °F
Raw water temperature	32 °C / 90 °F

## Standard equipment

### Cooling system

Fresh / raw water heat exchanger with integrated thermostatic valves and expansion tank  
Cast iron centrifugal fresh water pump, mechanically driven  
Bronze self-priming raw water pump, mechanically driven

### Lubrication system

Full flow screwable oil filters  
Fresh water cooled lube oil cooler

### Fuel system

In-line injection pump with flanged mechanical governor  
Double wall injection bundle  
Duplex fuel filters replaceable while engine running  
Water separator

### Intake air and exhaust system

Insulated exhaust gas manifold  
Turbo blower with insulated turbine housing  
Low water temperature cooled intake air cooler

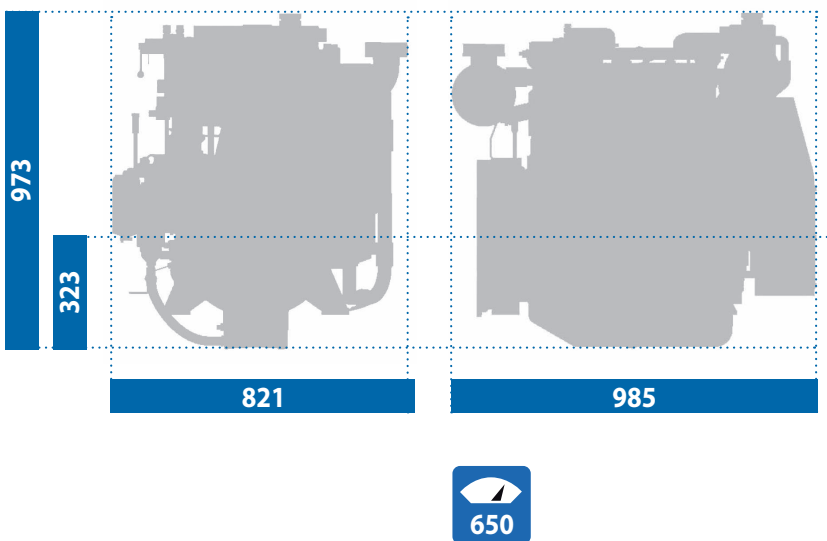
### Electrical system

Voltage: 24Vcc insulated  
Electrical starter on flywheel crown  
55A battery charger

## Optional equipment

Cooling system adapted for box / keel cooling  
Connection for emergency raw water circuit  
Resilient mounts under engine  
Exhaust water injection after turbocharger  
**Contact us for full list of options available**

## Dimensions and dry weight (mm / kg)



## Performance

P2 - 95 kW - 130 hp @2100 rpm

