

# **4 WIO5M**

#### 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

Ref	erence	condi	tions
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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  $\pm$  0,005 Lower calorific power 42 700 kJ/kg Consumption tolerances 0  $\pm$  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**

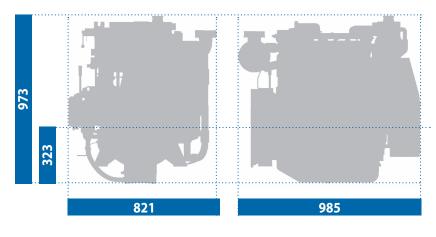
Cooling system adapted for box / keel cooling Connection for emergency raw water circuit

Resilient mounts under engine

Exhaust water injection after turbocharger

Contact us for full list of options available

# **Dimensions and dry weight** (mm / kg)



# 650

### **Performance**

P2 - 95 kW - 130 hp @2100 rpm

