

# MARINE DIESEL ENGINE MINI-48

BASED ON MITSUBISHI, 4 CYLINDERS 45 HP



### Light and compact

These engines are outstanding for their low weight and small size, due to their new compact design and the use of materials such as cast iron and aluminium.

### Low vibration and noise level

The small mass of the moving parts, such as pistons, conrods, the new combustion chamber design and direct injection provide a very low vibration and noise level, as well as clean exhaust gases.

### Heat exchanger

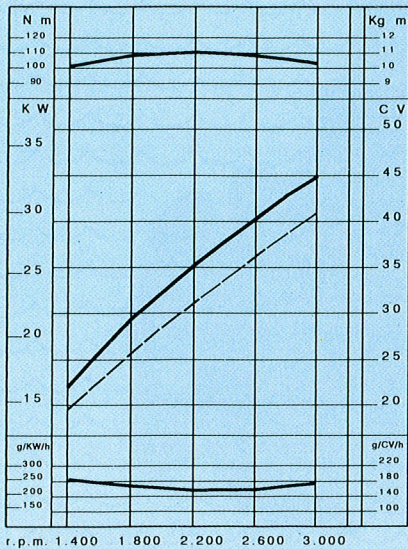
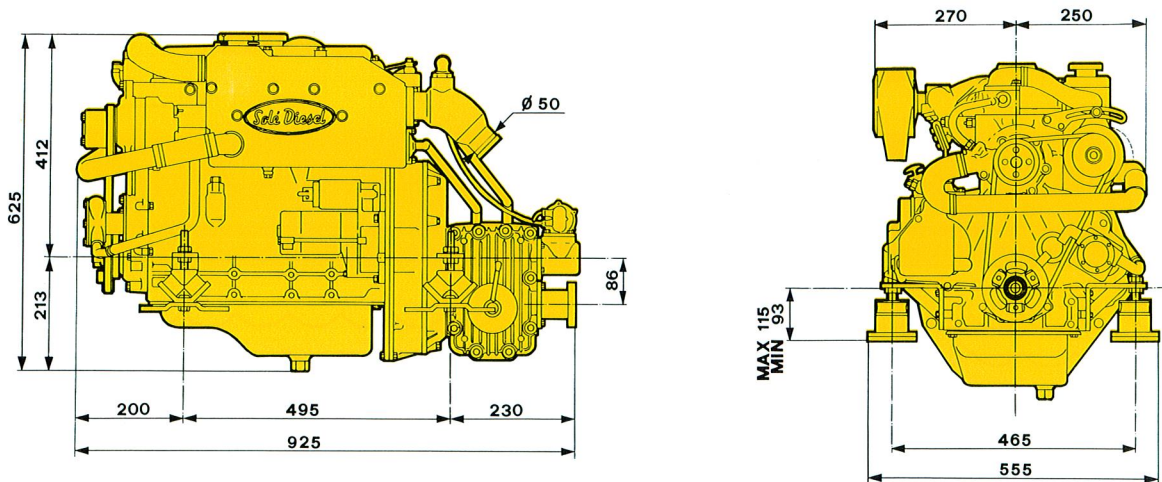
The cooling system using a thermostatically controlled heat exchanger keeps the uniform engine temperature at the correct level, therefore providing for longer engine life.

### Electrics

12 V starter motor and powerful 12 V 40 A alternator with highly reliable built-in regulator. The engine is delivered complete with electrics. Control panel includes tachometer with hour-counter, water temperature gauge, audible and visual oil pressure, water temperature and battery charge control alarms, allowing for perfect control of the engine parameters.



# MINI-48



## SPECIFICATIONS:

Type .....	Diesel, 4 stroke.
N.º of cylinders .....	4 in line.
Diameter x stroke mm (in) .....	84 x 90 (3,31 x 3,55)
Total displacement cc (cu.in) ....	1.994 (121,67)
Compression ratio .....	18:1
Max. Output Contin. DIN 6270A	41 Hp. (30,18 KW)
Max. Output Interm. DIN 6270B	45 Hp. (33,12 KW)
Max. speed Continuous .....	3.000
Max. speed Intermittent .....	3.000
Combustion system .....	Direct injection.
Cooling system .....	Fresh water, using heat exchanger, cooled exhaust manifold.
Electrical system .....	12 V starter motor. 2 kw. Alternator 40 A.
Gear box .....	SMI type, mechanical, with helical gears.
Reduction ratio .....	Standard 2:1 - Optional 2.5:1 / 3:1
Weight with gear box Kg (lbs.) ....	220 (485)
Installation angle .....	Continuous 20° - Intermittent 25°

### Standard equipment:

Electrical starter and alternator, electric stop, control panel with tachometer, hour counter, starter switch, water temperature gauge, audible alarm for oil and water, oil filter, cooled exhaust manifold, flexible mountings, 4 mts wirings and connection kit for control cables.

### Optional equipment:

Waterstrainer, water filter, fuel filter with water separator, remote engine control, propeller shaft, stern tube and propellers.

Specifications are subject to change without prior notice.

IMPORTER:

DEALER: