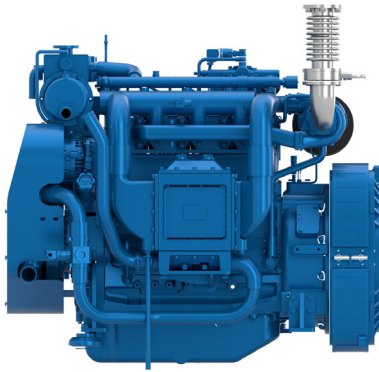




4W105

Auxiliary Diesel Engine



Number of cylinders	4 in line
Bore and stroke (mm)	105 X 130
Total displacement (L)	4.5
Compression ratio	18/1
Engine rotation	counter clockwise
Idle speed	650
Flywheel	SAE 3
Flywheel housing	SAE 11.5"

Customer benefits

Continuous compact power with reference performances in its category

Easy service with accessible components and unit cylinder heads

Simple technology with mechanical injection

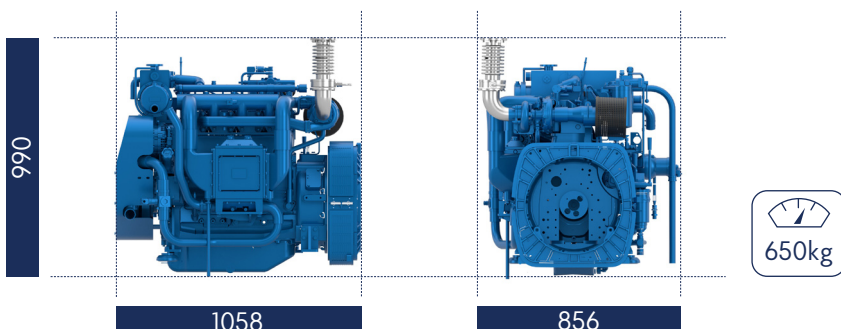
Life cycle cost efficiency with extended MTBO (Mean time between overhauls)

4W105				Fuel Consumption		Emissions
Ratings	HP	kW (PRP)	RPM	g/kWh	l/h	IMO
PRP	121	90	1500	194	17	NA
PRP	139	104	1800	198	22	NA

Generator Sets Engines

Power Class		Definition
PRP	Prime Power	Unrestricted running time Time at full load \leq 500hrs/year Load variation \leq 75% of rated power 10% overload 1hr/12hrs

Dimensions and dry weight (mm/kg)



Standard equipment

Cooling System	Two - stage cooling circuit with built - in HT thermostatic valve Integrated fresh water expansion tank High efficiency tubular heat exchanger Gear driven centrifugal raw water pump Self priming raw water pump
Lubrication System	Full flow lube oil filters duplex type Fresh water cooled lube oil heat exchanger
Fuel System	Mechanical injection High pressure pump with shielded high pressure injection rail and pipes Fuel oil filter duplex type External fuel pre-filter with water separator
Intake Air and Exhaust System	Double flow raw water cooled intake air heat exchanger module High efficiency dry turbocharger with ball bearing technology Single Stage Turbocharging system
Electrical System	Voltage: 24V DC insulated Electrical starter 55A battery alternator

Optional Equipment

Keel cooling configuration
Elastic pads mounting
Wet exhaust
Front PTO

Please check with the Sales person to avail full list of options

Power definition

(Standard ISO 3046/1 - 1995 (F))

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%
	(DIN ISO 3046-1)
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