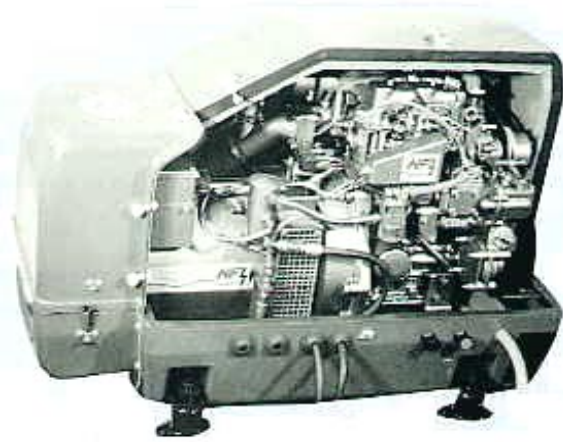


GEMINI 2/3 SERIES 6-12KVA

MARINE DIESEL GENERATOR

- With Mitsubishi diesel engine and synchron Alternator
- Noise Cocooned
- 12V Electric Start
- Oil Pressure and C/W Temp.Supervision
- Battery Trickle Charging
- Heat Exchanger Cooling
- Speed Fine Adjustment
- Fuel Lift Pump
- Seawater Pump
- Watercooled Exhaust Manifold
- Anti-vibration Mountings
- Waste Heat Usage



Standard Specification

Engine and alternator close coupled via bellhousing and resiliently mounted. Engine supports raised to achieve low vibration performance. All pipework and electrical wiring on set, Rating as per BS649 and DIN 6270, governing class A2. Failsafe system to provide protection against lack of oil pressure and overheating. Fan for hot air extraction from under the sound enclosure. Each set factory tested and sprayed in blue hammer, heat resistant paint. The sound enclosure is of substantial construction, combining the best use of GRP and Balsa Wood. Lead sheeting is laminated into the glass fibre structure to improve the acoustic performance. Noise reduction is considerable, bearing in mind the small dimensions and the low weight. The new cocooned set incorporates all relevant features to simplify installation on board. All services to and from the cocoon have external connections to ease service access and increase cost effectiveness.

Waste Energy

The radiated hot air created as a result of engine heat radiation and cooling of the alternator windings is expelled from the cover via an engine driven fan. This waste heat can be utilised for warm air heating on board. HFL offer a separate heating kit which allows for easy installation. Do not attempt your own modification without consulting HFL first since poisonous exhaust emission has to be considered. Cooling water from the engine heat exchanger can be utilised to heat a calorifier in order to provide hot water on board.

Engine

Low weight, low profile, high-speed watercooled 4-stroke Mitsubishi diesel engine from the L-family. Cylinder heads and blocks are light-weight but rigid with high durability. High degree of interchangeability of parts between 2 and 3 cylinder engines. Low noise, smooth running characteristics with Bosch M-type injection pump and mechanical centrifugal type governor. Forced oil lubrication system. Marinisation by HFL using dual circuit cooling via heat exchanger and watercooled exhaust manifold with water injected elbow. Belt-driven seawater pump with easily accessible belt tension adjustment.

Alternator

Brushless, lightweight alternator. Good current compounding characteristic which offers excellent motor starting without overloading engine. Power factors vary between 0.8 up to unity. Overload capacity of up to 300% i.e. 2 to 3 f.l. current. Radio suppression to meet VDE 0875 grade N and BS 800 as standard. All machines to comply with BS 5000:3, BS 4999, IEC 34-1 and VDE 0530. Voltage: 110/220 dual 1 phase; 220/380 3 phase.

Specifications may be altered without notice

Model	KVA	KW	Hz	Phase	Voltage	A	Dimensions LxWxH mm	Weight kg
H2W6M1C	6	6	50	1	230	25	780x515x590	148
H2E7.2M1C	7.2	6.5	50	1	230	30	950x515x590	179
H2E8M3	8	7.2	50	3	220/380	-	950x515x590	180
H3E9M1C	9	7.2	50	1	230	35	1050x515x590	196
H3E11M1C	11	8.8	50	1	230	45	1120x515x590	210

SPECIFICATIONS		
	GEMINI 2	GEMINI 3
Engine	Mitsubishi L2E	Mitsubishi L3E
HP at 3000 rpm	11	17
Bore / Stroke mm	70/70	70/70
Displacement L	0.538	0.808
Inclination Angle	25 degrees in all directions, Max 30 degrees	
DC Voltage / Battery	12V / 60 Ahs	12V / 80-100 Ahs
Fuel Consumption 1/hr	3-4	5-6
Noise Emission at 7m	60-64 dBA	60-63 dBA