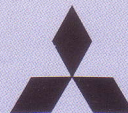
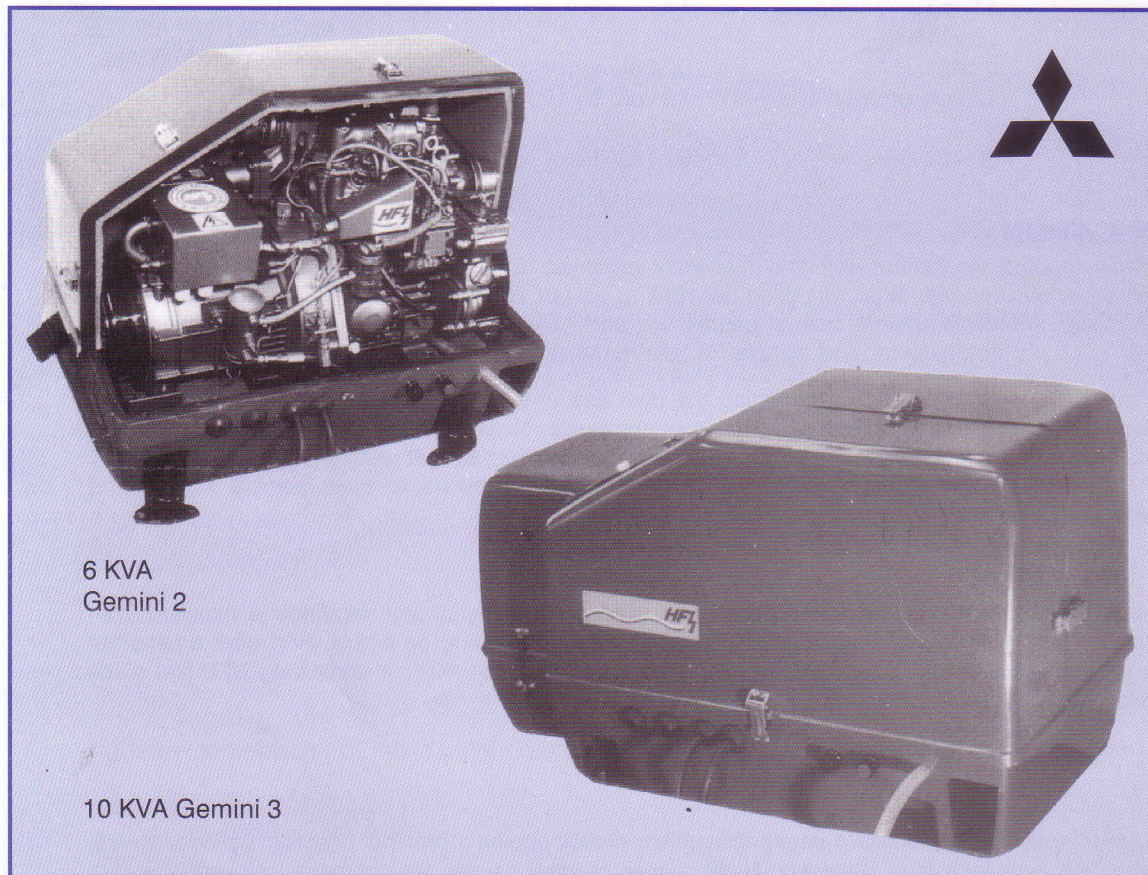




**GEMINI 2
GEMINI 3**

6 - 12 KVA

MARINE DIESEL GENERATOR



**High-speed
reliability**

**Compact
dimensions**

Low noise

**Free waste
energy for
warm air
heating**

**Connections
for calorifier
available**

6 KVA
Gemini 2

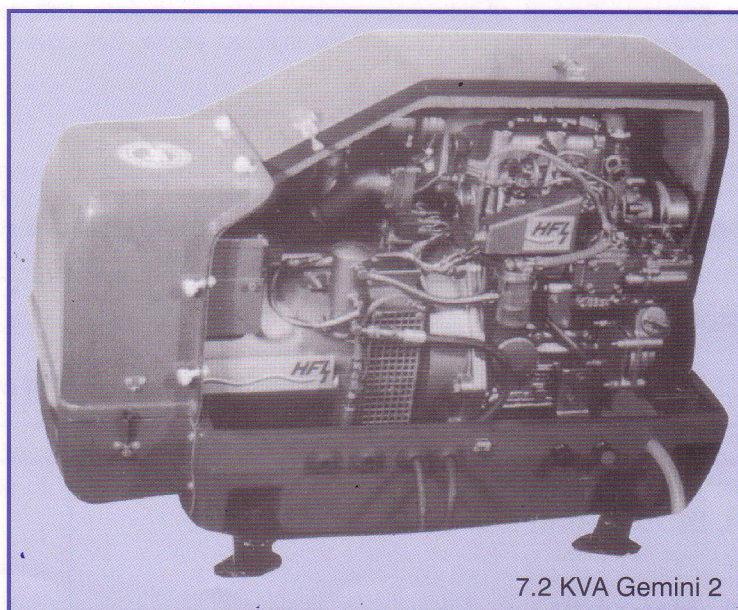
10 KVA Gemini 3

**with MITSUBISHI diesel engine
and synchron Alternator
the power on board**

NOISE-COCOONED

Standard Accessories

- 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
- antivibration mountings
- waste heat usage



7.2 KVA Gemini 2

★ **generating confidence afloat** ★

Model Modell	KVA	KW	Hz	Phase	Amp	Voltage Spannung	COCOON DIMENSIONS KOKON mm L x W x H	Weight Kg
H2M6M1C	6	6	50	1	25	230	780x515x590	148
H2E72M1C	7.2	6.5	50	1	30	230	950x515x590	179
H2E8M3C	8	7.2	50	3	-	220/380	950x515x590	180
H3E10M1C	10	9	50	1	40	230	1050x515x590	196
H3E12M3C	12	10	50	3	-	220/380	1050x515x590	210

* For secondary mounts add 25mm for width and 35mm for height.

MODEL/No. of Cyl.	L2/2 Cyl.	L3/3 Cyl.	INCLINATION ANGLE
HP at 3000 rpm	11	17	25 DEGREES IN ALL DIRECTIONS
BORE/STROKE mm	70 x 70	70 x 70	MAX. 30 DEGREES
DISPLACEMENT L	0.538	0.808	
STARTER BATTERY	12 volt, 60 Ahs	12 volt, 80-100 Ahs	
FUEL CONS. L/hr	3 - 4	5 - 6	
NOISE at 7m	60 - 64 dBA	60 - 63 dBA	

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 BS 649 and DIN 6270, governing class A2. Failsafe system to provide protection against lack of oilpressure 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 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 heatexchanger can be utilised to heat a calorifier in order to provide hot water on

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 mech. centrifugal type governor. Forced oil lubrication system. Marinsation by HFL using dual circuit cooling via heat exchanger and watercooled exhaust manifold with water injected elbow. Belt-driven seawatepump with easily accessible belt tension adjustment.

ALTERNATOR

Brushless, lightweight alternator. Good current-compounding characteristic which offers excellent motor starting without overloading engine. Powerfactors vary between 0.8 up to unity. Overload capacity of up to 300% ie 2 to 3 f.l. current. Radio suppression to meet VDE 0875 grade N and BS 800 as standard.

All machines to comply to 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

Designed and Manufactured by

HFL INDUSTRIAL & MARINE POWER LTD.

HFL. MANTECH

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