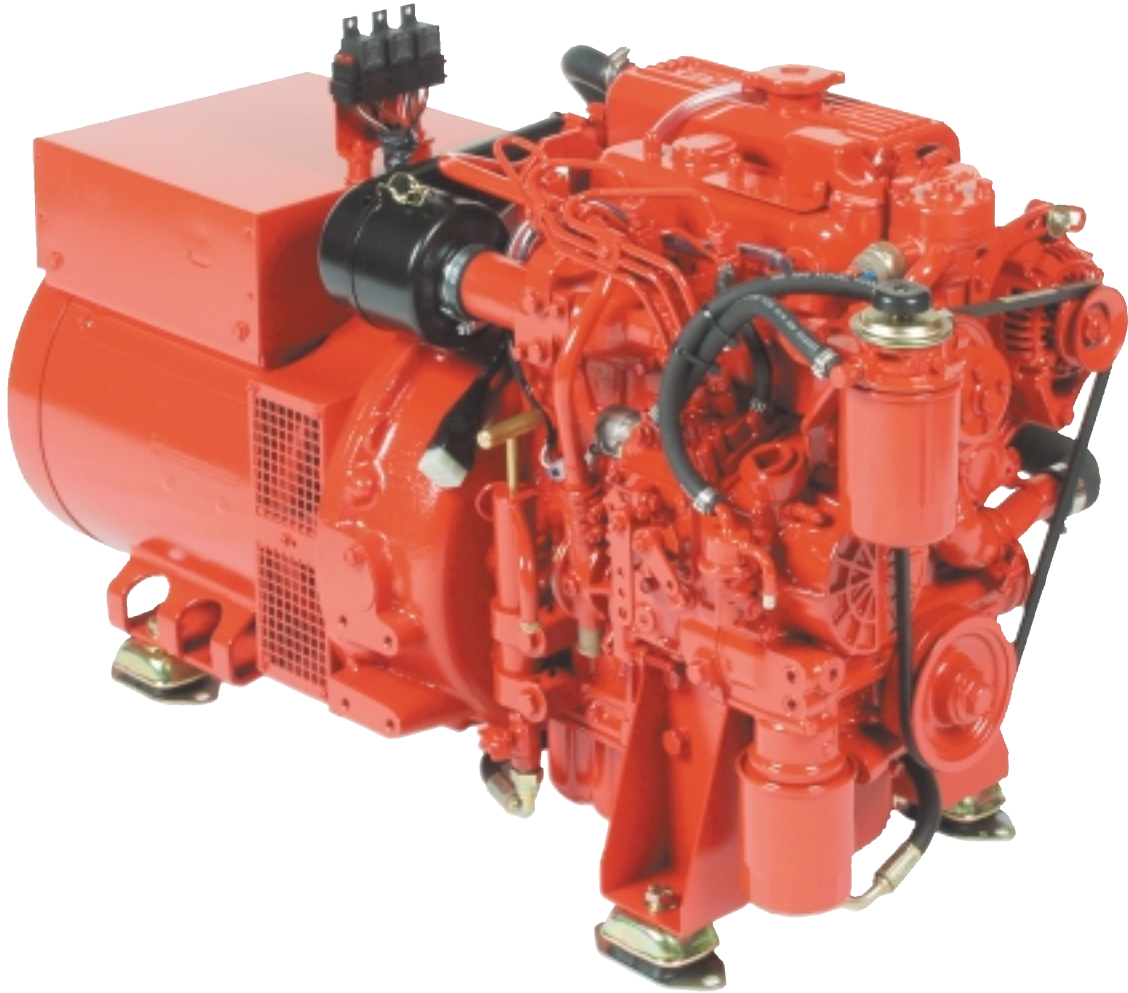


BETA MARINE

MARINE DIESEL GENERATING SETS 3.75 TO 44 kVA - 50 Hz and 60 Hz



- Designed for the yacht, powerboat, inland and workboat markets where long life and quiet running are essential.
- Compact dimensions and low weight make this range very competitive.
- Only the most advanced Kubota diesels are used with close coupled single bearing air cooled synchronous generators.
- Low exhaust emissions meet latest regulations and international requirements
- Low noise levels can be further reduced with our specially engineered acoustic housing option.
- Heat exchanger cooling with engine driven sea water pump.
- Built in our UK factory to a standard specification or as a special to customer's requirements.
- Worldwide distributor and dealer network.



Typical acoustic housing option

Typical Acoustic Housing



Control Module



Cut out dimensions:

Width:	66mm
Height:	66mm
Clearance depth:	90mm

Beta Marine's considerable experience in building marine generating sets for world wide application in passenger ferries, fast patrol boats, yachts and fishing trawlers has been used in the development of this range of small sets covering 3.75 to 44kVA.

These are available with a frequency of 50Hz at both 1500 and 3000 rpm and 60Hz at 1800 rpm as detailed in the chart below. The basic model comprises the complete unit (similar to that illustrated on the front cover) with the control module shown above, to this can be added an acoustic housing and other options.

kVA Rating Table, 2-pole, 3000 rpm – 50Hz,

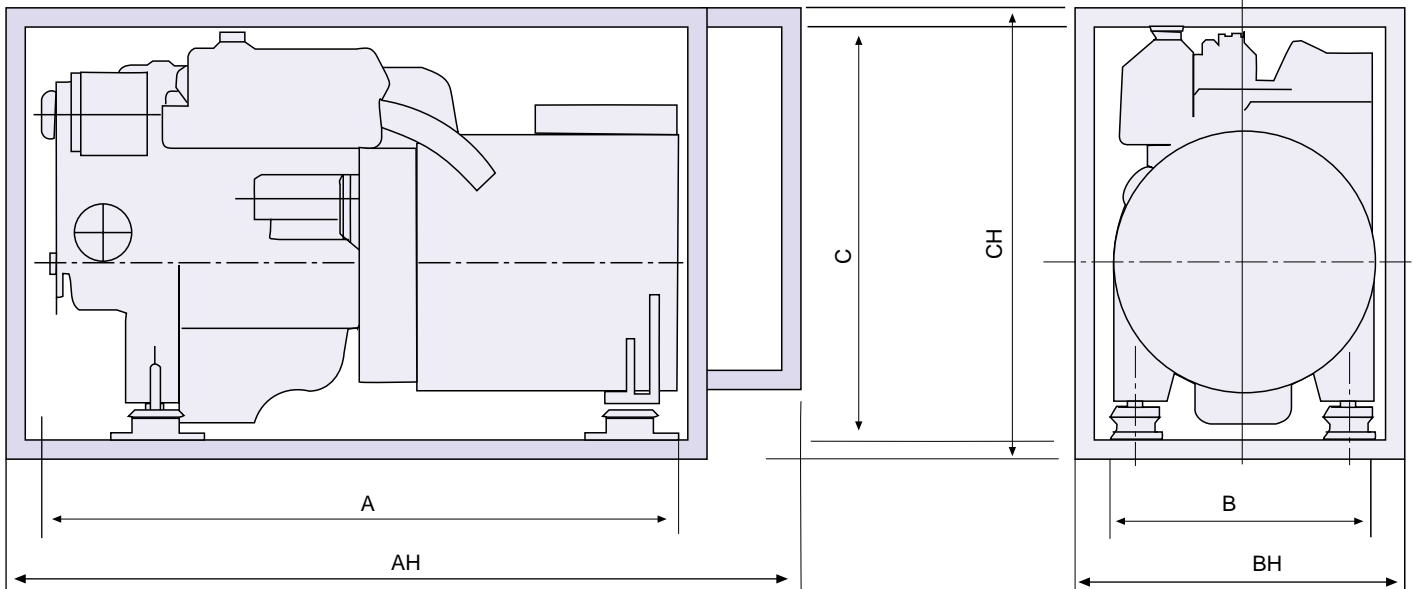
Model	Single Phase	Three Phase	Cylinders	Volume	Bore and Stroke	Fuel lt/hr
BZ 482	3.75	–	2	479cc	67 x 68 mm	1.15
BZ 482	5.25	6.25	2	479cc	67 x 68 mm	2.09
BD 722	11.3	11.6	3	719cc	67 x 68 mm	3.25
BD 1005	15	15	3	1001cc	76 x 73.6 mm	4.32
BV 1305	20	20	4	1335cc	76 x 73.6 mm	5.78
BV 1505	22.5	23	4	1498cc	78 x 78.4 mm	6.60

kVA Rating Table, 4-pole, 1500 rpm - 50Hz & 1800 rpm - 60Hz,

Model	1500 rpm - 50 Hz		1800 rpm - 60 Hz		Cylinders	Volume	Bore & Stroke	Fuel lt/hr
	Single	3 Phase	Single	3 Phase				
BD 905	6.5	6.5	7.1	7.1	3	899cc	72 x 73.6 mm	2.10
BD 1105	8.5	8.8	9.8	10.5	3	1124cc	78 x 78.4 mm	2.67
BV 1305	9.7	10.2	11.7	12.3	4	1335cc	76 x 73.6 mm	3.00
BV 1505	11.2	11.8	13.5	14.6	4	1498cc	78 x 78.4 mm	3.51
BD1703	12.7	12.9	15.0	15.2	3	1647cc	87 x 92.4 mm	4.25
BV 1903	14.7	15.7	17.3	18.7	4	1857cc	80 x 92.4 mm	4.75
BV 2203	18.0	19.2	22.0	22.0	4	2197cc	87 x 92.4 mm	5.59
BV 3300	23.0	23.8	28.0	27.5	4	3318cc	98 x 110mm	6.20
BV 3300	32.0	34.0	39.0	41.0	4	3318cc	98 x 110mm	8.40
BV 3300T	40.5	44.0	49.0	51.0	4	3318cc	98 x 110mm	10.70

Ratings are based on normal standard conditions as defined in ISO 3046. kVA ratings are at 0.8 power factor. Fuel consumptions are for 50 Hz ratings.

DIMENSIONS TABLE



MODEL	BASIC GENERATING SET			Dry Weight kgs	WITH ACOUSTIC HOUSING			Dry Weight kgs
	Dimensions (mm)				Dimensions (mm)			
	A	B	C		AH	BH	CH	

2 Pole Models, 1 Phase: 3000 rpm 50 Hz

BZ482	756	438	578	116	795	490	585	165
BD722	841	438	582	199	1002	567	650	259
BD1005	893	549	613	264	1054	580	690	395
BV1305	992	549	613	296	1153	580	690	409
BV1505	1040	549	613	286	1200	580	690	399

4 Pole Models, 1 Phase: 1500 rpm 50 Hz/1800 rpm 60Hz

BD905	868	549	613	237	1028	580	690	316
BD1105	868	549	613	245	1028	580	690	324
BV1305	967	549	613	267	1137	580	690	347
BV1505	967	549	613	283	1137	580	690	363
BD1703	933	560	703	390	1158	670	815	498
BV1903	1224	560	703	412	1480	670	815	530
BV2203	1270	560	703	454	1480	670	815	580
BV3300	1324	619	855	602	1535	710	887	792
BV3300	1449	619	855	670	1680	710	887	860
BV3300T	1449	680	808	690	1680	710	887	890

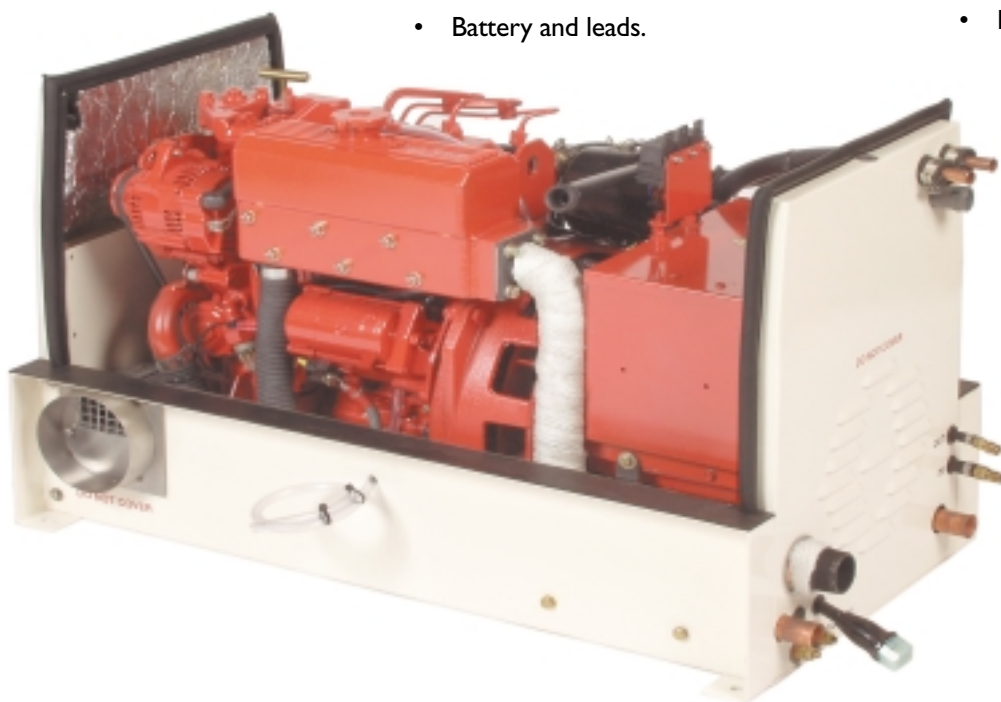
- Care must be taken to ensure the free circulation of air both in and out of the set.
- Sound levels will vary depending on the specification and size of the set but will be less than 60 dBA at 7 metres (free field) when installed in our acoustic enclosure.
- Dimensions given above are typical for single phase sets.
- Please refer to Beta Marine for certified dimensions and weights and for those of three phase sets.
- We reserve the right to change the specification and prices without notice.

STANDARD SPECIFICATION

- Indirect injection 4 stroke water cooled diesel engine.
- Multi cylinder concept for smooth running.
- Naturally aspirated except BV3300T.
- Heater plugs for cold start.
- Fuel and oil filters, mechanical fuel lift pump.
- Cast iron head and block with advanced 3 vortex combustion system for very quiet running.
- Sump drain pump engine mounted for quick servicing.
- Combined heat exchanger and water cooled exhaust manifold system for reliability with cupro nickel tube stack and phosphor bronze end caps and anode.
- 12 Volt electric start with alternator and shutdown solenoid. 2 wire grounded systems (except for BV3300 models that are fully insulated return).
- Gear driven camshaft and engine driven sea water pump.
- Engine control module with start/stop, alarms for low oil pressure and high water temperature with shutdown on fault, supplied with 3m extension loom and hour counter.
- Heavy duty feet and marine type failsafe flexible mounts.
- Installation angles 15° max static, 25° heeling with set fore and aft.
- Single bearing generators for reliability and long life.
- Controlled voltage output.
- Automatic voltage regulator (except BZ482)
- Generator high performance cooling fan for use in marine ambients
- Flexible fuel supply and leak off pipe connections, (flame retardant, approved type).

OPTIONS

- Remote panel with extension cable to suit the installation.
- Acoustic enclosure.
- Exhaust silencer and kit.
- Battery and leads.
- Steel underbase (not with acoustic enclosure).
- Insulated return electrics (standard on BV3300).
- Keel cooled with dry exhaust stub.



Typical acoustic housing option with cover removed

Distributor/Dealer:

BETA MARINE

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Stroud, Glos. GL5 5EU. U.K.

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