

BETA MARINE

Seagoing

Saildrives

Inland Waterways

Marine Generating Sets

Spares & Support

Your needs . . .



. . . our tailored solutions delivering reliability and peace of mind

4 to 58kVA Generating Set Range

BetaSet-BetaGen 7 to 49T IIIA

Why Beta Marine?

Your needs . . .

- Our company has built its renowned reputation on over 30 years of customer centred focus, listening to maritime propulsion or power needs and providing value solutions. Proving our support & product at pre-purchase, during installation be it a new build or re-power and post-purchase with the delivery of an after sales service both nationally and internationally that is second to none.
- We value our employees equally as highly as our customers, are extremely proud of the retained bank of skills, experience and loyalty that we have built and have available in place today, which enables us to excel at providing maritime solutions to fit bespoke needs.
- Our company strives to continue to build our reputation with all our customers be they end users, dealers, international distributors or boat builders and our mission is simply to capture, retain and service your valued custom throughout our products natural life cycle.
- The combined experience of our dedicated generating set team, national & international dealer network, supported by state of the art computer aided design we have planned, installed and provided power for thousands of recreational craft & commercial vessels and sit comfortably & confidently that we can support your unique needs and exceed your expectation.

. . . our tailored solutions delivering reliability and peace of mind



Beta Marine are an ISO Quality Assured Firm. Since 1987, we have been continually improving our Quality Procedures, whilst being monitored annually by ISO Quality Services Ltd.



**ISO
9001**

Quality
Management
Certification

The BetaSet-BetaGen Generating Set Range



- BetaSet-BetaGen Generating Sets are based upon technically advanced, high quality Kubota diesel engines that give you very smooth, quiet power, with torque that is immediate at low RPM. They are renowned for fuel efficiency, durability, longevity & reliability and as such are an ideal auxiliary engine base for a generating set application.
- The Kubota engine drives an AC alternator manufactured in the United Kingdom by Mecc Alte (UK) Ltd, an ISO Quality Assured Firm.

BetaSet-BetaGen Compliance

Engine Model	EU Compliance	EU Seagoing Use	EU Inland Use
BetaSet-BetaGen 7	Not Required*	R: Yes C: Yes	R: Yes C: Yes
BetaSet-BetaGen 10	EU.2016/1628 Stage V**	R: Yes C: Yes	R: Yes C: Yes
BetaSet-BetaGen 12	EU.2016/1628 Stage V**	R: Yes C: Yes	R: Yes C: Yes
BetaSet-BetaGen 14	EU.2016/1628 Stage V**	R: Yes C: Yes	R: Yes C: Yes
BetaSet-BetaGen 21	EU.2016/1628 Stage V**	R: Yes C: Yes	R: Yes C: Yes
BetaSet-BetaGen 26	97/68/EU Stage IIIA	R: Yes C: Yes	R: Yes C: Yes***
BetaSet-BetaGen 33	97/68/EU Stage IIIA	R: Yes C: Yes	R: Yes C: Yes***
BetaSet-BetaGen 40	Not Available	R: Yes C: Yes	R: No C: No***
BetaSet-BetaGen 40T - IIIA	97/68/EU Stage IIIA	R: Yes C: Yes	R: Yes C: Yes***
BetaSet-BetaGen 49	Not Available	R: Yes C: Yes	R: No C: No***
BetaSet-BetaGen 49T - IIIA	97/68/EU Stage IIIA	R: Yes C: Yes	R: Yes C: Yes***
BetaSet-BetaGen 4/2	Not Required*	R: Yes C: Yes	R: Yes C: Yes
BetaSet-BetaGen 6/2	Not Required*	R: Yes C: Yes	R: Yes C: Yes
BetaSet-BetaGen 11/2	Not Required*	R: Yes C: Yes	R: Yes C: Yes
BetaSet-BetaGen 22/2	Not Available	R: Yes C: Yes	R: Yes C: No
BetaSet-BetaGen 25/2	Not Available	R: Yes C: Yes	R: Yes C: No

For EPA compliance, all sets must be especially quoted for.

R: Recreational subject to directive 2013/53/EU (RCD2) | C: Commercial

* The BetaSet/BetaGen 7, 10, 12, 14, 21, 4/2, 6/2 and 11/2 have engines below 19kW in power and are currently unregulated for most marine applications. This means they are suitable for use on seagoing, recreational and inland waterways craft.

** Stage IIIA engines are only suitable for craft on European Inland Waterways if the vessel is under 20m in length or under 100m³ displacement, or the craft is a recreational craft subject to RCD2. Stage IIIA is equivalent to CCNR2.

For craft 20m and over in length and/or 100m³ and over in displacement, all engines 19kW and over must be Stage V approved.

Note: All passenger vessels carrying 12 or more passengers on European inland waterways must have Stage V approved engines.

(Ref: Directives EU 2016/1628; EU 2016/1629; European Standard for Inland Navigation Vessels ES-TRIN:2019/1).

*** BetaSet/BetaGen 40 and 49 are only Stage II compliant and cannot be used on European Inland Waterways (canals, lakes and rivers including the Rhine).

Important: Local regulations may override these statements and should be checked.

The above statements are Beta Marines interpretation of the afore mentioned directives and standards and are for guidance only. Beta Marine strongly advise that the customer/installer verifies that the intended engine to be supplied and installed meets the requirements of the authority in whose area it is intended that the vessel/craft will operate in. Beta Marine accept no liability for local non-compliance issues, however, do guarantee to supply engines to meet our current published specification/standard.

Note: The information on this page refers only to constant speed generator set application.

Generating Set Range - Specifications

2, 3 or 4 cylinders with high inertia flywheel for smooth running at low rpm.

Heater plugs for cold starting below 5°C, fuel filter, **MECHANICAL** fuel lift pump, **MECHANICAL** fuel injection pump and **MECHANICAL** engine governing* ensures steadfast performance regardless of ambient conditions.

QUIET GEAR DRIVEN CAMSHAFT for maximum engine reliability and reduced servicing, as no timing chains or toothed belts have to be replaced.

Subject to criteria, Kubota based engines accommodate installation angles up to 15° maximum when static and 25° when heeling.

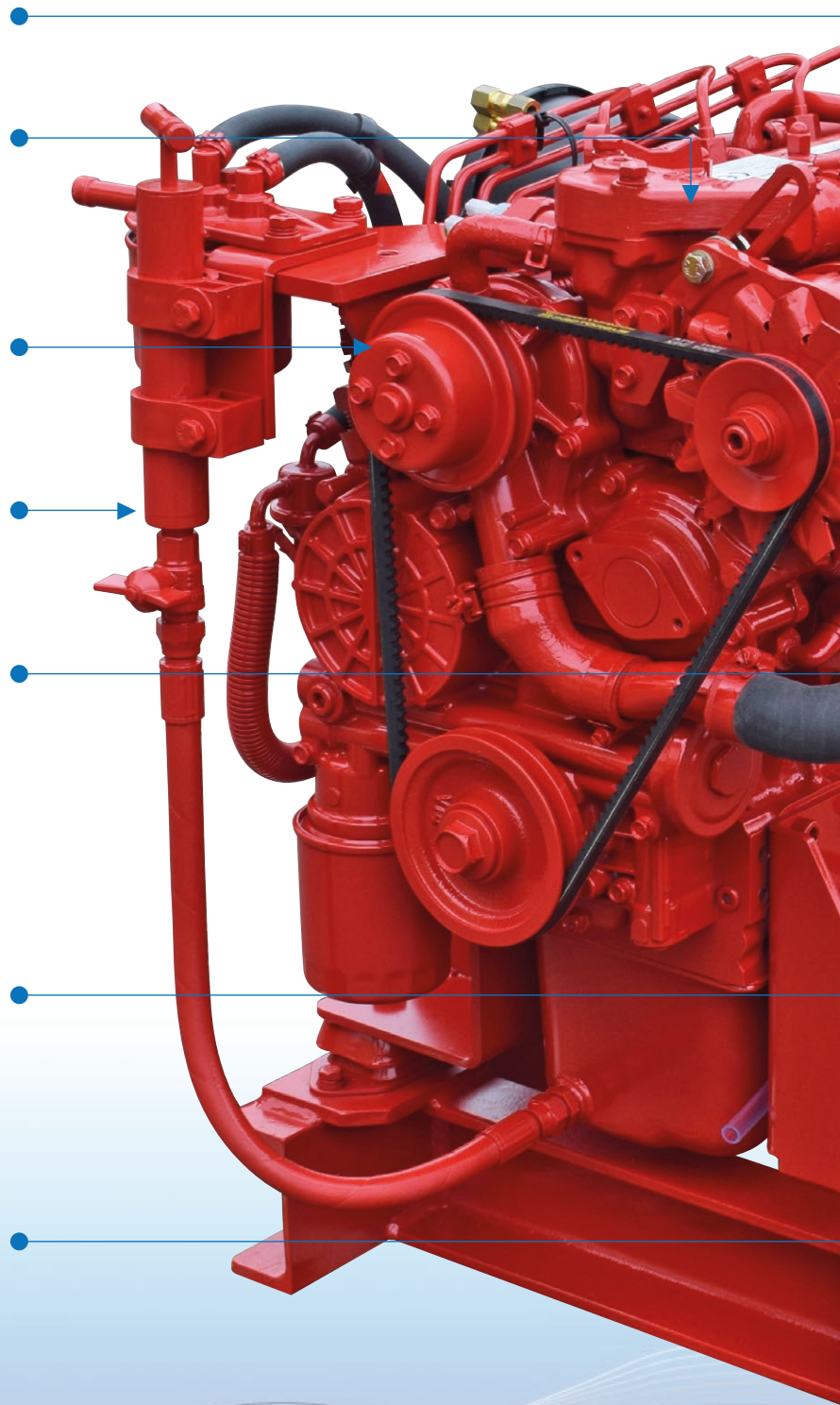
All BetaSet-BetaGen models are 12 volt electric start as standard, models up to the BetaSet-BetaGen 21 are equipped with a 45 amp battery charging alternator, the BetaSet-BetaGen 26 though to the BetaSet-BetaGen 49 are equipped with a 70 amp insulated return battery charging alternator. Optional 24 volt electric start is available for selected models.

The engine and generator alternator are close coupled together and mounted on steel feet with marine failsafe anti-vibration mountings ensuring isolation. Base frames are an optional extra for all BetaSet models.

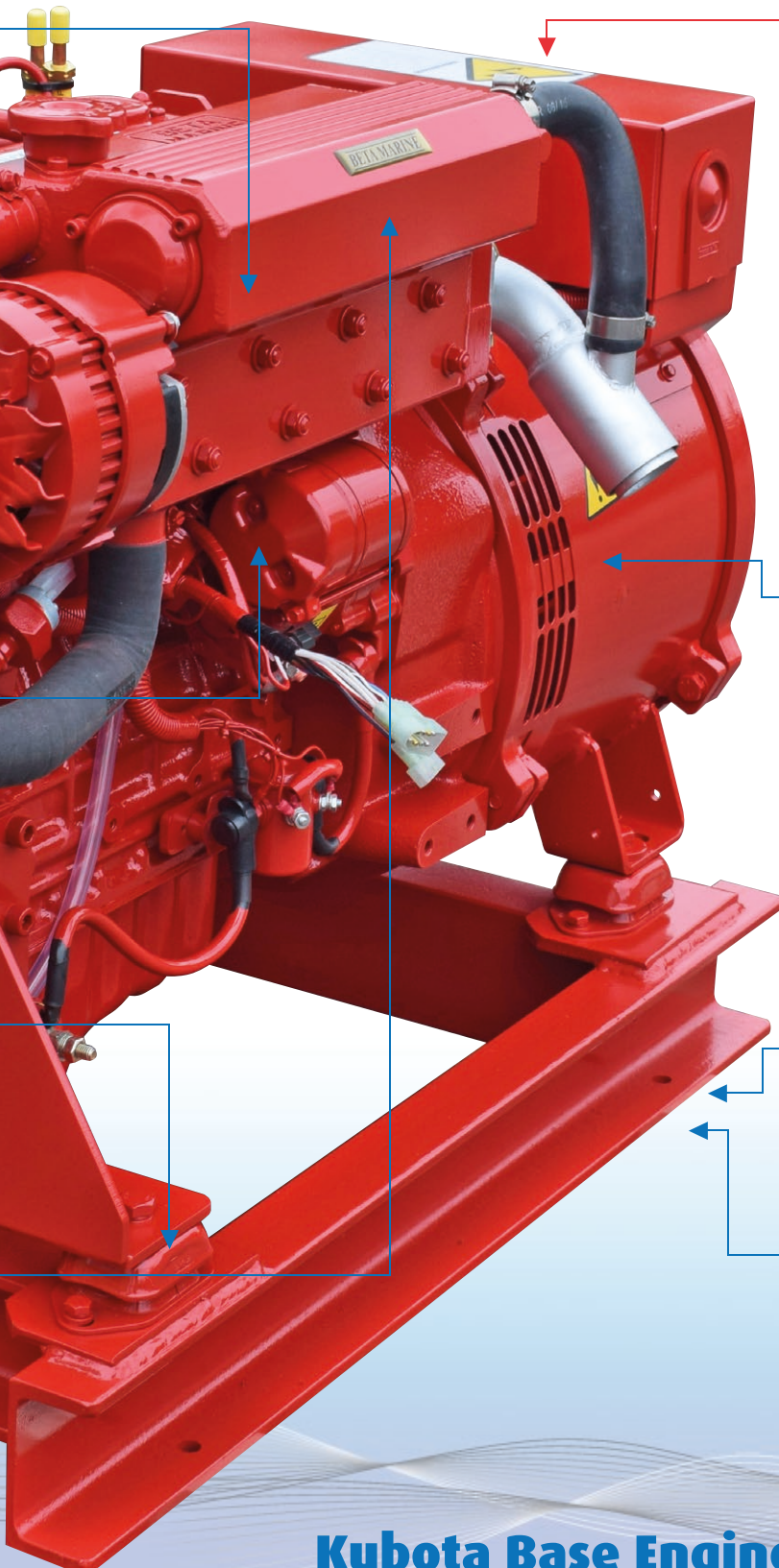
Available as **HEAT EXCHANGER**, **KEEL** or **RADIATOR COOLED**, all BetaSet-BetaGen models are naturally aspirated except the BetaSet-BetaGen 40T IIIA & 49T IIIA which are turbocharged.

*The BetaSet-BetaGen 40T IIIA & 49T IIIA are mechanically governed with an electronic actuator.

Images Are For Illustration Purposes & Not Necessarily Representative.



BETA MARINE



Complete with either "PSM720" or "EPM72" Control Module & 3m of interconnection cable. Please refer to relevant generating set or control panel pages.

The marine rated generating set alternator operates at 0.8pf, with either 50 Hz or 60 Hz frequency and has a ventilated drip proof enclosure with IP 22 protection & single bearing construction. The generator is self-regulating, self-excited and is complete with terminal box and automatic voltage regulator. Suitable for operation in engine room temperatures of up to 45°C. Standard 50 Hz voltage is 230v single phase, 400v 3 phase, or standard 60 Hz is 120v single phase, 208v 3 phase, other voltages are available upon request.

Kubota three vortex combustion (E-TVCS) with indirect injection for quiet running, low emissions and excellent fuel consumption – All BetaSet-BetaGen variants except the BetaSet-BetaGen 40T IIIA & 49T IIIA.

Kubota centre direct injection (E-CDIS) for quiet running, low emissions and excellent fuel consumption – BetaSet-BetaGen 40T IIIA & 49T IIIA.

Kubota Base Engine

BetaSet Standard Specification

The BetaSet is available as standard as:

- 4 – Pole 220/230/240v 50Hz – 1 Phase and 380/400/415v 50Hz – 3 Phase operating @ 1,500 rpm or
- 4 – Pole 120v 60Hz – 1 Phase and 208/120v 60Hz – 3 Phase operating @ 1,800 rpm.

All are available with either Heat Exchanger, Keel or Radiator Cooling.

We can supply most electrical voltages and frequencies between 120 volt single phase to 415 volt 3 phase, additionally we can also build to bespoke individual specifications.

Common Standard Specification

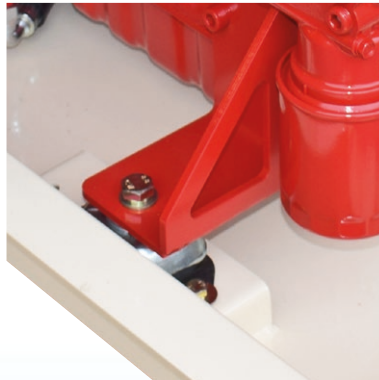
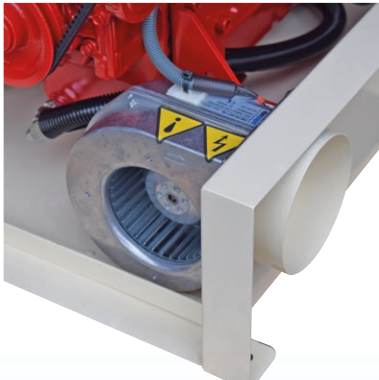
- Beta Marine water cooled 'Kubota' based diesel engine, naturally aspirated (turbocharged for Stage IIIA variants), mechanically governed electronically assisted as specified above for operation in accordance with ISO 3046* for marine diesel generating sets.
 - **HEAT EXCHANGER** cooling complete with cupro-nickel tube bundle and phosphor bronze end caps, sacrificial anode, fresh water and sea water pumps. Water cooled exhaust manifold, water injection exhaust bend, sump drain pump, fuel, oil, and air filtration. CE approved fuel supply and return flexible connection hoses or
 - **KEEL COOLED** header tank and water cooled exhaust manifold, fresh water pump, dry exhaust outlet including exhaust elbow and flexible stainless steel bellows, sump drain pump, fuel, oil, and air filtration. CE approved fuel supply and return flexible connection hoses.
 - 12 volt electric start system with 70 Amp battery charging insulated return alternator and stop solenoid valve.
 - A combined start/stop, alarm and protection module is supplied loose with 3 metres of connection cable. The module includes: engine start and stop push buttons, an hours run meter and indicators with shutdown on fault for either low lubricating oil pressure or high coolant temperature. On insulated system push buttons are replaced with a key switch and separate hour counter is supplied
 - The Mecc Alte marine rated "generator" operates at 0.8pf** and has a ventilated drip proof enclosure with IP 22 protection and single bearing construction. The generator is self-regulating, self-excited and is complete with terminal box and automatic voltage regulator. Suitable for operation in engine room temperatures of up to 45°C.
 - Engine and generator are close coupled together and mounted on substantial steel feet with marine failsafe anti-vibration mountings to isolate the set from the vessels seating.
 - Each generating set is "full load" tested in accordance with our quality document QA023.
 - Paint: The generating set is painted Beta Red for heat exchanger or Dark Brunswick Green for keel cooled engines, the acoustic enclosures are off-white.
 - Warranty: 12 months from date of commissioning or 18 months from date of despatch – whichever comes first and subject to the Warranty Terms and Conditions, section 17 within our General Terms and Conditions of Sale.
 - Tri-wall packed on a wooden base.
- *For operation in ambient temperature of 45°C the output will be de-rated by 8%. Please contact Beta Marine for further information.
- **The BetaSet-BetaGen 4/2 and 6/2 are unity power factor machines.

Beta Marine specialise in bespoke customer support, for further information please contact one of our specialist generating set team.

BetaGen 'Super Silent' Additional Specification

Although our generating sets are quiet by comparison as standard, for customers or installations that demand especially quiet operation, Beta Marine have developed a highly insulated acoustic enclosure option. These enclosures reduce noise level down to a low 60 dB(A) when measured at seven metres under free field conditions at normal operating speed.

Manufactured from 'zintec' steel and finished in off white 'powder coated' paint to complement our engine colour, the panel frame is bolted together for rigidity & strength and is lined with high quality 38mm flame retardant acoustic foam material (including a 4mm polymeric barrier), held in place with high temperature silicon adhesive.



Quick release "service" panels facilitate easy, simple and unobstructed access to the engine, alternator and ancillaries. Acoustic attenuating ducts provide air flow in and out of the enclosure assisted by a ventilation fan.

The design allows the engine and AC alternator unit to rest on flexible mountings within the enclosure and all necessary connections including battery +ve and -ve terminals, fuel inlet and return, cooling water inlet and return, calorifier feed and return (if specified), wet exhaust outlet (Heat Exchanger engine) or dry exhaust outlet (Keel Cooled engine) – ready for a quick and easy installation.



Generating Sets for Living Aboard

Whilst Beta Marine has had many years of experience and technical expertise delivering marine electrical power solutions for Inland Waterways, Seagoing leisure, Seagoing commercial vessels and Port Authorities, only general guidance can be given within this brochure as electrical power requirements for a vessel or a port are a complex subject with many variables that need to be taken into account and considered.

Depending on needs, this could be an integrated mix of electric energy delivered by a combination that may include engine alternators, domestic battery banks, inverters, generating sets and shore power.

Marine generating set manufacturers quote power rated in kVA, electrical appliances/equipment are normally rated in Watts and kW. There is a direct correlation between them.

One thousand watts 1000W = 1kW (kilowatt)

The relationship of kVA to kW is based on a 0.8 power factor and one of the following appropriate calculations:

kVA multiplied by 0.8 = kW or kW divided by 0.8 = kVA.

To select the correct specification generating set there are several key factors that should be taken into consideration.

Typical Use - 50 Hz

An average family home with a 100 Amp 230v AC (Single Phase 50 Hz) mains electrical supply would be unlikely to require more than a total of 23 kW of power used in total at any one given point in a normal family weekly schedule.

Should you wish your vessel to be used as 'live aboard' and to be as convenient as an average family home using electrical power to the same schedule then a BetaSet or BetaGen model 33 which produces 33 kVA or 28 kW would be a base starting point.

However by moderating or rescheduling which appliances are being used at the same time which reduces the total given kW required at a given time, a smaller generating set can be considered.

Thought should be given to what appliances will be used together, when and for how long. Based on these needs, a weekly schedule should be compiled which also has all the appliances maximum loads listed, so an appropriate calculation for the maximum kW/kVA at a given time and duration is known. This will then guide you to the most appropriate generating set model.

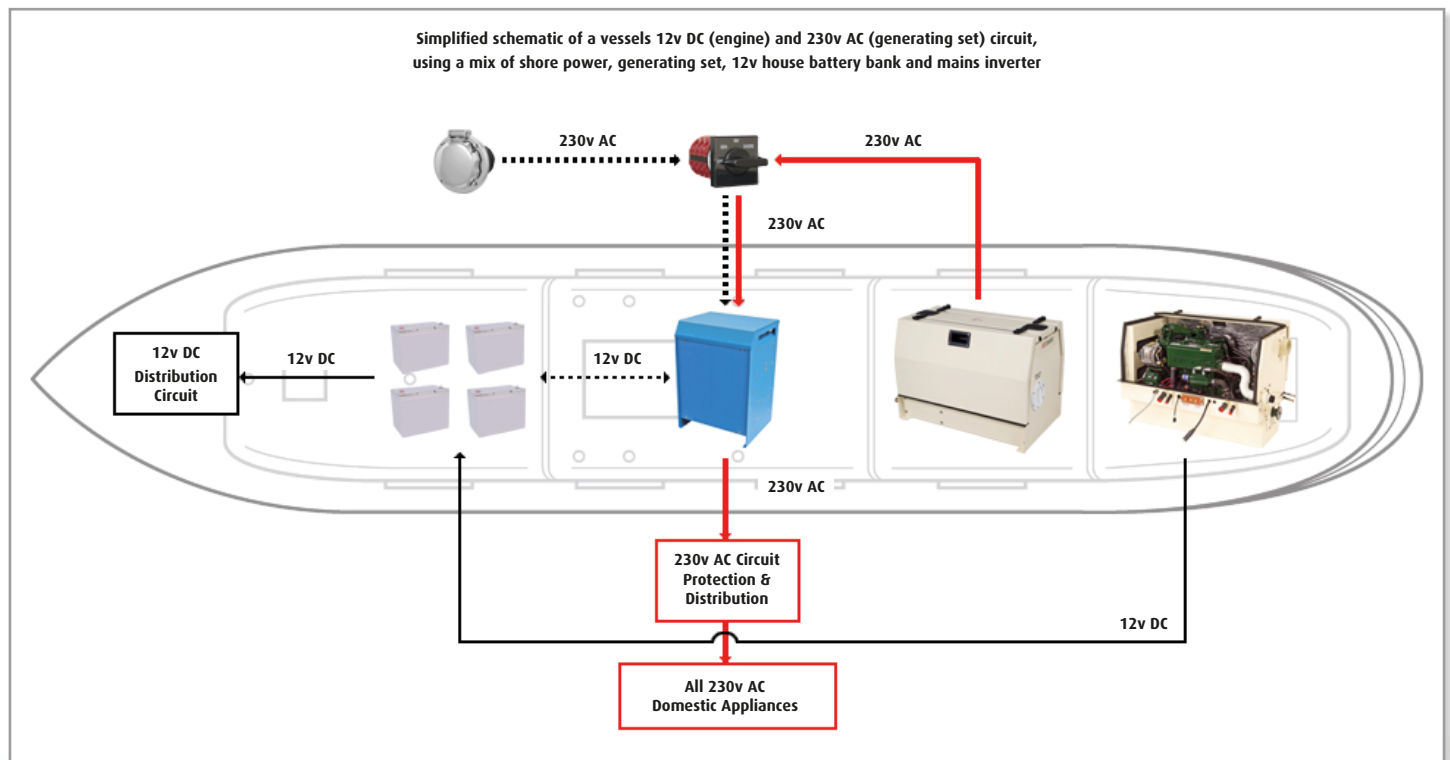
Note: It would be prudent to factor in any appliances that are at presently omitted but may possibly be planned for in the future.

Typical Electrical Requirement - 50 Hz

Appliances on a vessel can be a mix of:

- 230V AC: Which are mains powered items that on land would be powered by the domestic mains supply – (Single Phase, 50 Hz) powered by an integrated mix of battery bank, 50 Hz inverter, generating set and shore power.
- 12 Volt DC: Are items that are usually powered from the vessels battery bank or engine alternators such as 12v interior lighting, navigation lights & equipment, engine room ventilation fans, domestic water pump, non mains fridge or television etc.

Calculations will need to be made to ensure adequate electrical power Amp hours are available from the battery bank to service both 50 Hz inverter & 12 Volt DC needs.



Should your calculations indicate a maximum demand no greater than either 3.5 or 5kVA an alternative solution could be a Beta Marine engine fitted with a Travel Power inverter which generates 230 volt AC 50 Hz.

60 Hz frequency generating sets are additionally available.

Beta Marine specialise in bespoke customer support, for further information please contact one of our specialist generating set team.






BetaSet-BetaGen 7

Available With Heat Exchanger, Keel Or Radiator Cooling



BetaGen 7
Keel Cooled

Kubota Base Engine

4-Pole AC Alternator	1 Phase, 50Hz 1,500 rpm 0.8PF	3 Phase, 50Hz 1,500 rpm 0.8PF	1 Phase, 60Hz 1,800 rpm 0.8PF	3 Phase, 60Hz 1,800 rpm 0.8PF
 Max. Output	7.2 kVA	7.2 kVA	7.8 kVA	8.6 kVA
 Typical Load	23 A*	7 A**	48 A***	17 A****
 Cylinders	3	3	3	3
 Cubic Capacity	898 cc	898 cc	898 cc	898 cc
 Fuel[^]	2.2 Lt/Hr	2.2 Lt/Hr	2.3 Lt/Hr	2.2 Lt/Hr

* Typical Maximum Amps at 230v based on kW Electrical Load.

** Typical Maximum Amps at 415v based on kW Electrical Load.

*** Typical Maximum Amps at 120v based on kW Electrical Load.

**** Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

[^] Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

PSM720 Start & Stop Protection Module	Std.
EPM72 Start & Stop Protection Module	Opt.*
RSM72 Local & LPM72 Remote Control Module	Opt.

DSE3110 Manual & Auto Start Control Module	Opt.
DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.

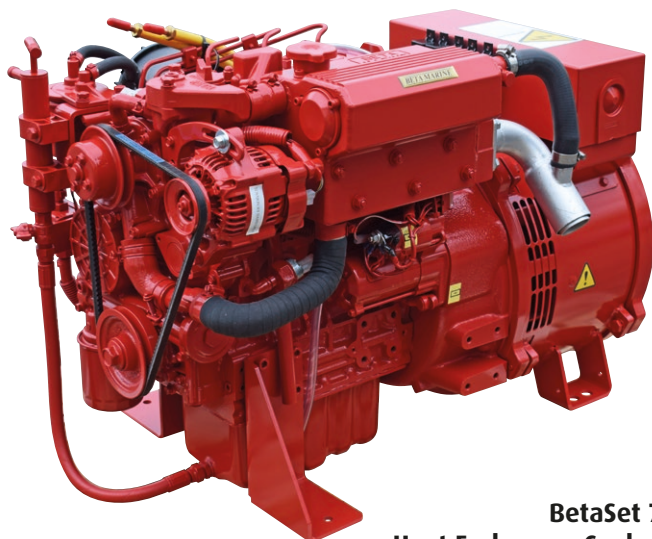
*Only when an optional 70 Amp, 12 Volt Insulated Return Alternator is specified.



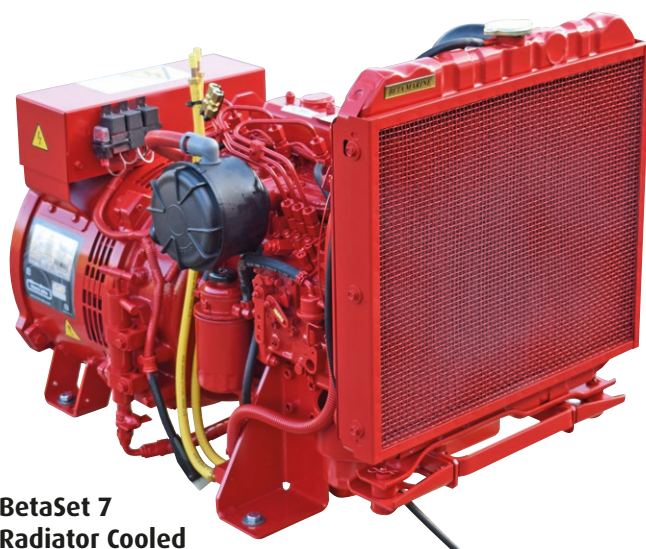
Engine Electrical Options

45 Amp, 12 Volt Alternator	Std.
70 Amp, 12 Volt Insulated Return Alternator	Opt.

55 Amp, 24 Volt Electric Start & Alternator	Opt.
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BetaSet 7
Heat Exchanger Cooled

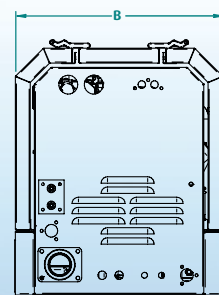
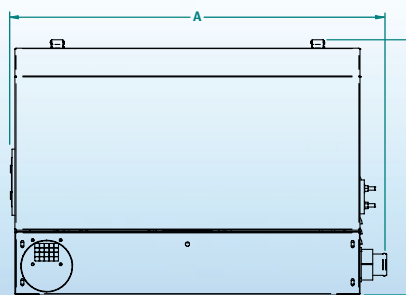
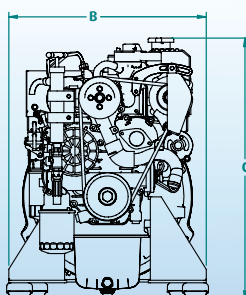
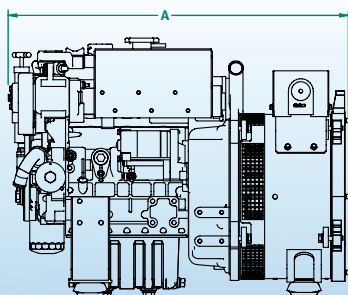


BetaSet 7
Radiator Cooled



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



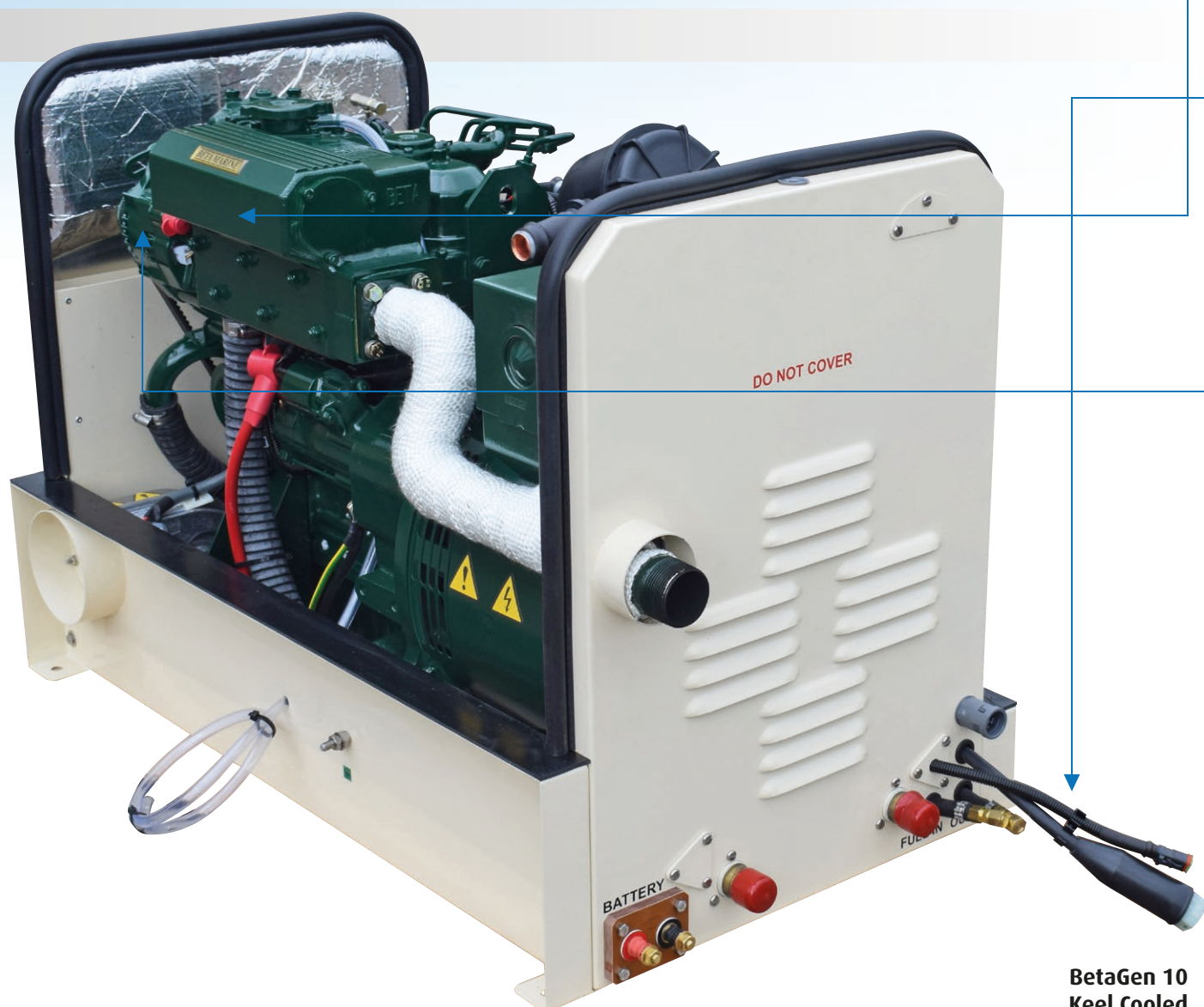
	A	B	C	Weight
BetaSet 7	80	50	61	237Kg

	A	B	C	Weight
BetaGen 7	96	54	69	290Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct






BetaSet-BetaGen 10

Available With Heat Exchanger, Keel Or Radiator Cooling



BetaGen 10
Keel Cooled

Kubota Base Engine

4-Pole AC Alternator	1 Phase, 50Hz 1,500 rpm 0.8PF	3 Phase, 50Hz 1,500 rpm 0.8PF	1 Phase, 60Hz 1,800 rpm 0.8PF	3 Phase, 60Hz 1,800 rpm 0.8PF
 Max. Output	9.7 kVA	10.1 kVA	9.7 kVA	11.5 kVA
 Typical Load	31 A*	10 A**	64.6 A***	25 A****
 Cylinders	3	3	3	3
 Cubic Capacity	1,123 cc	1,123 cc	1,123 cc	1,123 cc
 Fuel^	2.7 Lt/Hr	2.9 Lt/Hr	3.1 Lt/Hr	3.1 Lt/Hr

* Typical Maximum Amps at 230v based on kW Electrical Load.

** Typical Maximum Amps at 415v based on kW Electrical Load.

*** Typical Maximum Amps at 120v based on kW Electrical Load.

**** Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

^ Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

PSM720 Start & Stop Protection Module	Std.
EPM72 Start & Stop Protection Module	Opt.*
RSM72 Local & LPM72 Remote Control Module	Opt.

DSE3110 Manual & Auto Start Control Module	Opt.
DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.

*Only when a 70 Amp, 12 Volt Insulated Return Alternator is specified.



Engine Electrical Options

45 Amp, 12 Volt Alternator	Std.
70 Amp, 12 Volt Insulated Return Alternator	Opt.

55 Amp, 24 Volt Electric Start & Alternator	Opt.
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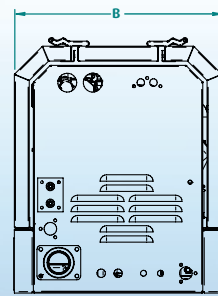
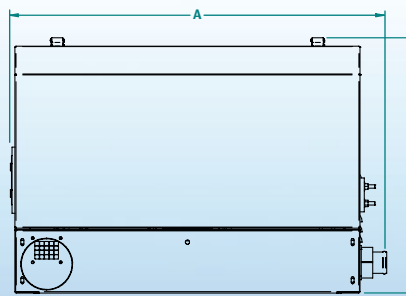
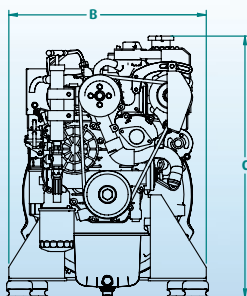
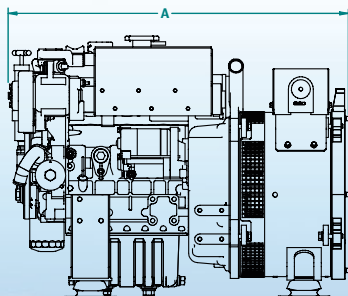


BetaSet 10
Heat Exchanger Cooled



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



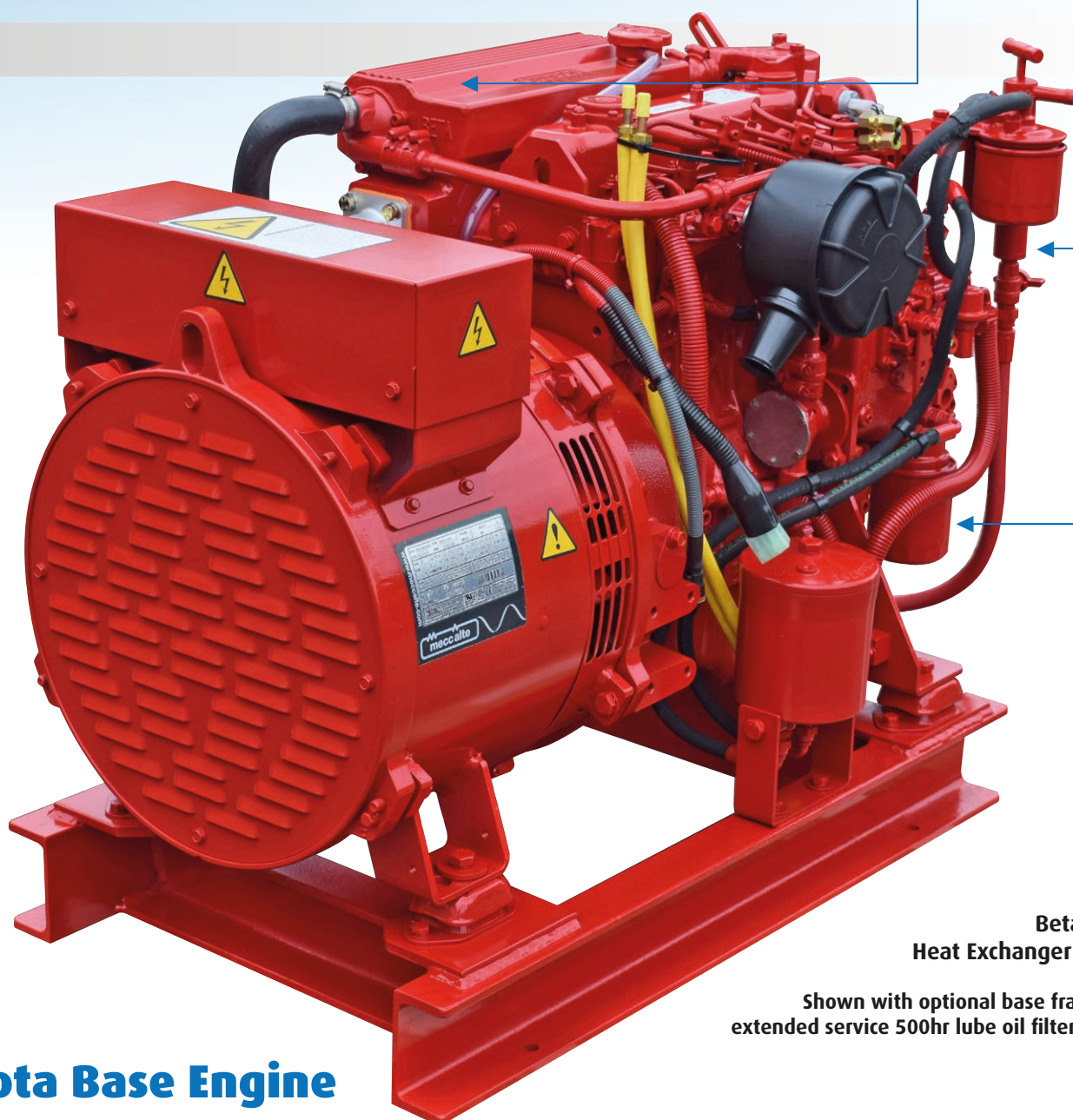
	A	B	C	Weight
BetaSet 10 (1Ph)	88	43	59	245Kg

	A	B	C	Weight
BetaGen 10	96	54	67	300Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct

BetaSet-BetaGen 12






Available With Heat Exchanger, Keel Or Radiator Cooling



BetaSet 12
Heat Exchanger Cooled

Shown with optional base frame and
extended service 500hr lube oil filter system

Kubota Base Engine

4-Pole AC Alternator	1 Phase, 50Hz 1,500 rpm 0.8PF	3 Phase, 50Hz 1,500 rpm 0.8PF	1 Phase, 60Hz 1,800 rpm 0.8PF	3 Phase, 60Hz 1,800 rpm 0.8PF
 Max. Output	12.3 kVA	13.0 kVA	15.5 kVA	16.1 kVA
 Typical Load	39 A*	13 A**	94 A***	33 A****
 Cylinders	4	4	4	4
 Cubic Capacity	1,498 cc	1,498 cc	1,498 cc	1,498 cc
 Fuel^	3.6 Lt/Hr	3.7 Lt/Hr	4.3 Lt/Hr	4.4 Lt/Hr

* Typical Maximum Amps at 230v based on kW Electrical Load.

** Typical Maximum Amps at 415v based on kW Electrical Load.

*** Typical Maximum Amps at 120v based on kW Electrical Load.

**** Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

^ Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

PSM720 Start & Stop Protection Module	Std.
EPM72 Start & Stop Protection Module	Opt.*
RSM72 Local & LPM72 Remote Control Module	Opt.

DSE3110 Manual & Auto Start Control Module	Opt.
DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.

*Only when a 70 Amp, 12 Volt Insulated Return Alternator is specified.



Engine Electrical Options

45 Amp, 12 Volt Alternator	Std.
70 Amp, 12 Volt Insulated Return Alternator	Opt.

55 Amp, 24 Volt Electric Start & Alternator	Opt.
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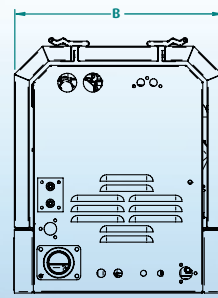
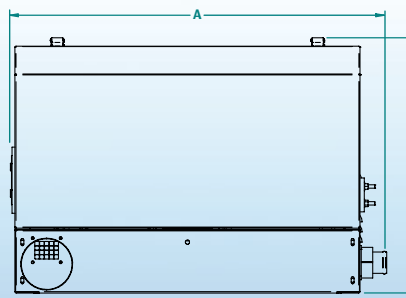
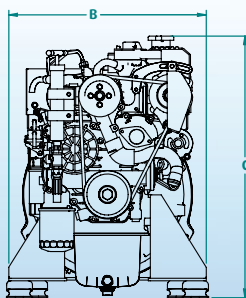
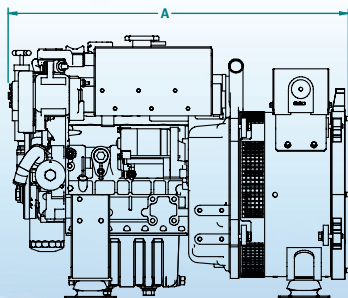


**BetaGen 12
Keel Cooled**



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



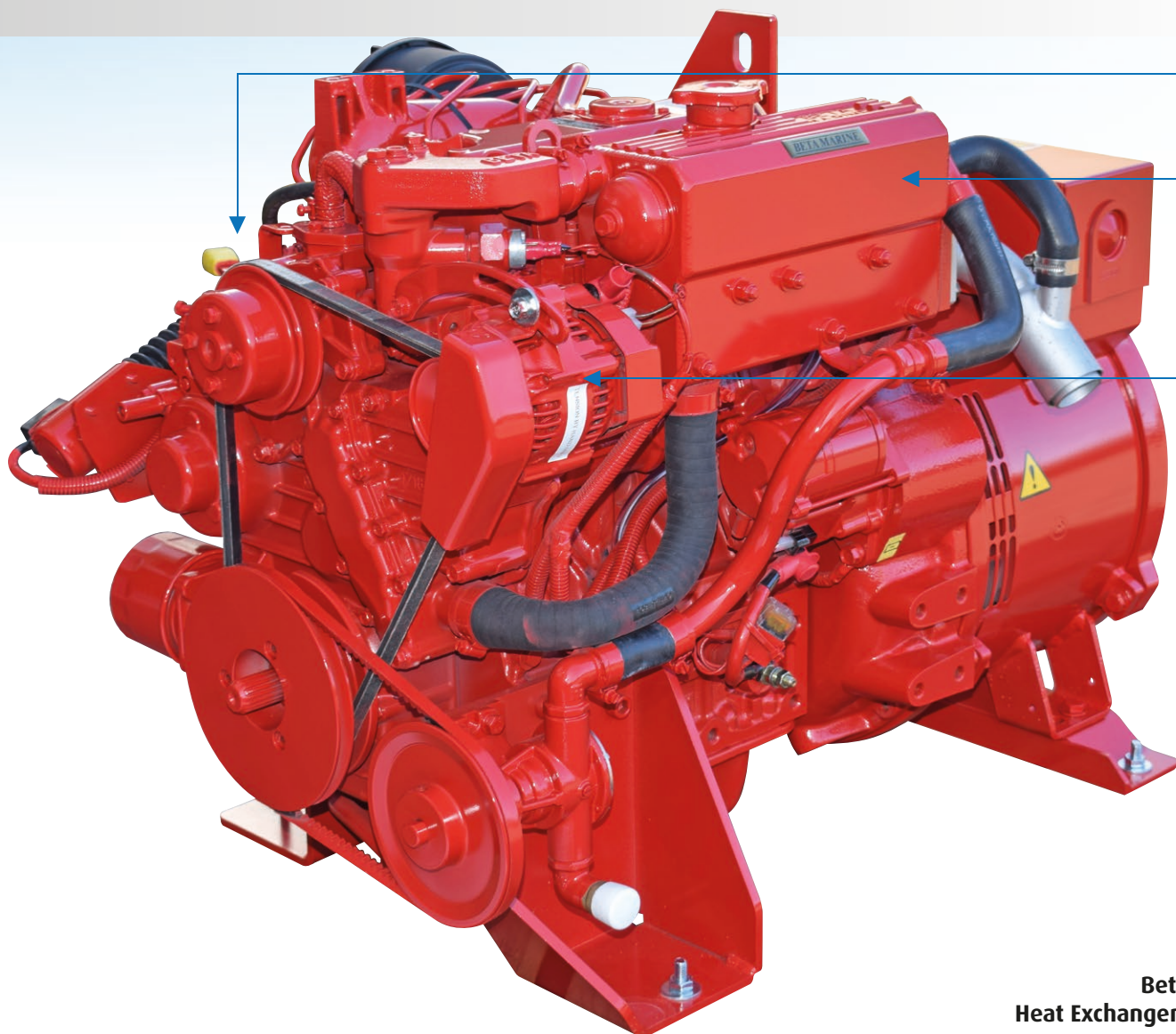
	A	B	C	Weight
BetaSet 12 (1Ph)	95	50	61	283Kg

	A	B	C	Weight
BetaGen 12	107	57	65	345Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct






BetaSet-BetaGen 14

Available With Heat Exchanger, Keel Or Radiator Cooling



BetaSet 14
Heat Exchanger Cooled

Kubota Base Engine

4-Pole AC Alternator	1 Phase, 50Hz 1,500 rpm 0.8PF	3 Phase, 50Hz 1,500 rpm 0.8PF	1 Phase, 60Hz 1,800 rpm 0.8PF	3 Phase, 60Hz 1,800 rpm 0.8PF
 Max. Output	14.0 kVA	14.5 kVA	17.6 kVA	18.2 kVA
 Typical Load	44 A [*]	15 A ^{**}	107 A ^{***}	37 A ^{****}
 Cylinders	3	3	3	3
 Cubic Capacity	1,647 cc	1,647 cc	1,647 cc	1,647 cc
 Fuel [^]	3.6 Lt/Hr	3.7 Lt/Hr	4.6 Lt/Hr	4.6 Lt/Hr

^{*} Typical Maximum Amps at 230v based on kW Electrical Load.

^{**} Typical Maximum Amps at 415v based on kW Electrical Load.

^{***} Typical Maximum Amps at 120v based on kW Electrical Load.

^{****} Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

[^] Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

PSM720 Start & Stop Protection Module	Std.
EPM72 Start & Stop Protection Module	Opt.*
RSM72 Local & LPM72 Remote Control Module	Opt.

DSE3110 Manual & Auto Start Control Module	Opt.
DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.

*Only when a 70 Amp, 12 Volt Insulated Return Alternator is specified.



Engine Electrical Options

45 Amp, 12 Volt Alternator	Std.
70 Amp, 12 Volt Insulated Return Alternator	Opt.

55 Amp, 24 Volt Electric Start & Alternator	Opt.
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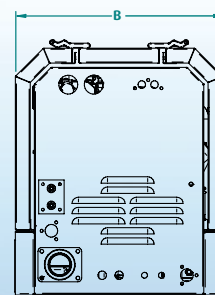
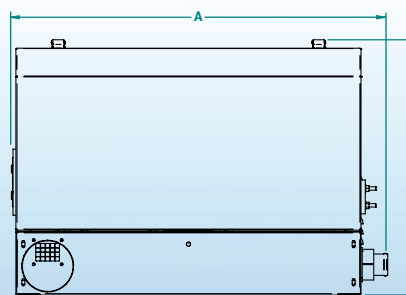
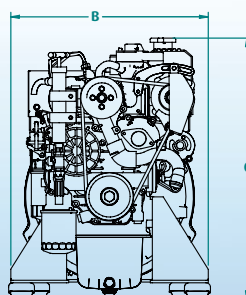
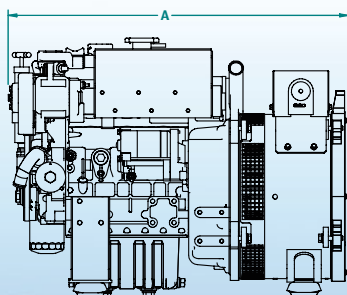


**BetaGen 14
Keel Cooled**



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



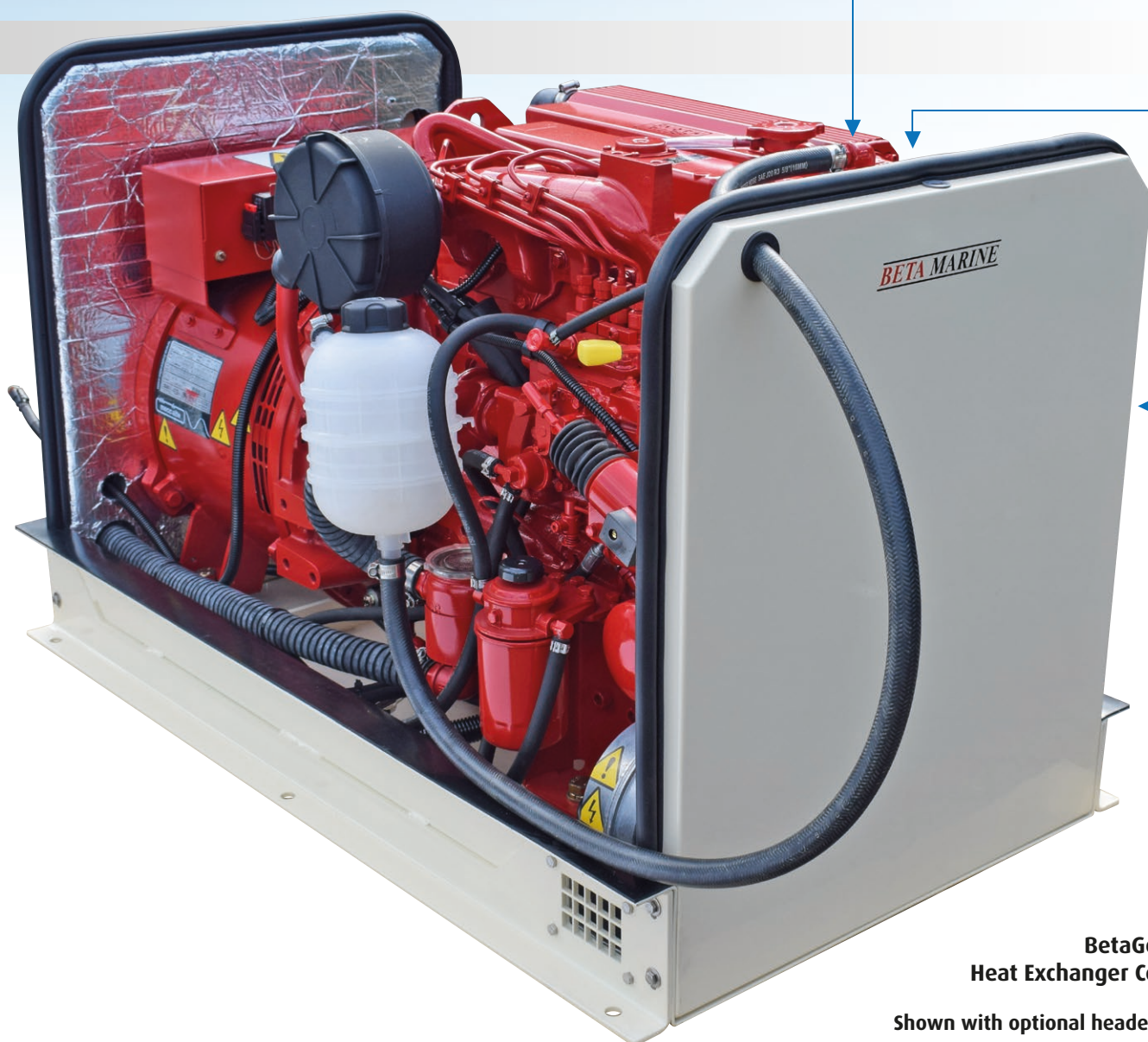
	A	B	C	Weight
BetaSet 14 (1Ph)	91	57	71	390Kg

	A	B	C	Weight
BetaGen 14	116	67	82	498Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct

BetaSet-BetaGen 21






Available With Heat Exchanger, Keel Or Radiator Cooling



BetaGen 21
Heat Exchanger Cooled

Shown with optional header tank

Kubota Base Engine

4-Pole AC Alternator	1 Phase, 50Hz 1,500 rpm 0.8PF	3 Phase, 50Hz 1,500 rpm 0.8PF	1 Phase, 60Hz 1,800 rpm 0.8PF	3 Phase, 60Hz 1,800 rpm 0.8PF
 Max. Output	19.4 kVA	20.0 kVA	24.8 kVA	24.8 kVA
 Typical Load	61.2 A*	20.2 A**	150 A***	51 A****
 Cylinders	4	4	4	4
 Cubic Capacity	2,197 cc	2,197 cc	2,197 cc	2,197 cc
 Fuel^	4.7 Lt/Hr	4.8 Lt/Hr	5.8 Lt/Hr	6.0 Lt/Hr

* Typical Maximum Amps at 230v based on kW Electrical Load.

** Typical Maximum Amps at 415v based on kW Electrical Load.

*** Typical Maximum Amps at 120v based on kW Electrical Load.

**** Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

^ Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

PSM720 Start & Stop Protection Module	Std.
EPM72 Start & Stop Protection Module	Opt.*
RSM72 Local & LPM72 Remote Control Module	Opt.

DSE3110 Manual & Auto Start Control Module	Opt.
DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.

*Only when a 70 Amp, 12 Volt Insulated Return Alternator is specified.



Engine Electrical Options

45 Amp, 12 Volt Alternator	Std.
70 Amp, 12 Volt Insulated Return Alternator	Opt.

55 Amp, 24 Volt Electric Start & Alternator	Opt.
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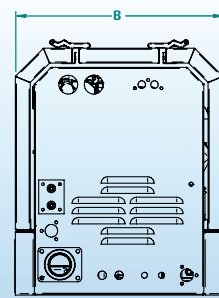
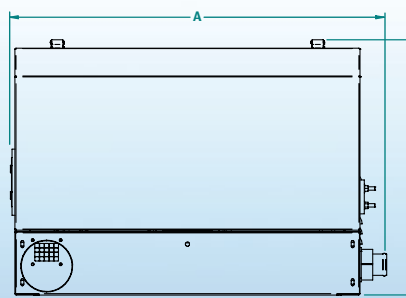
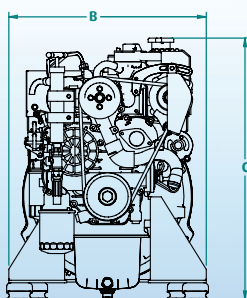
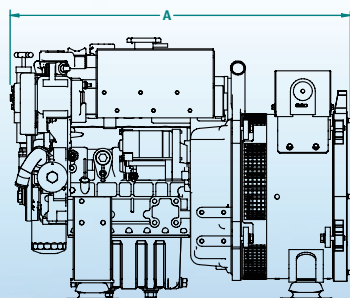


BetaSet 21
Radiator Cooled



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



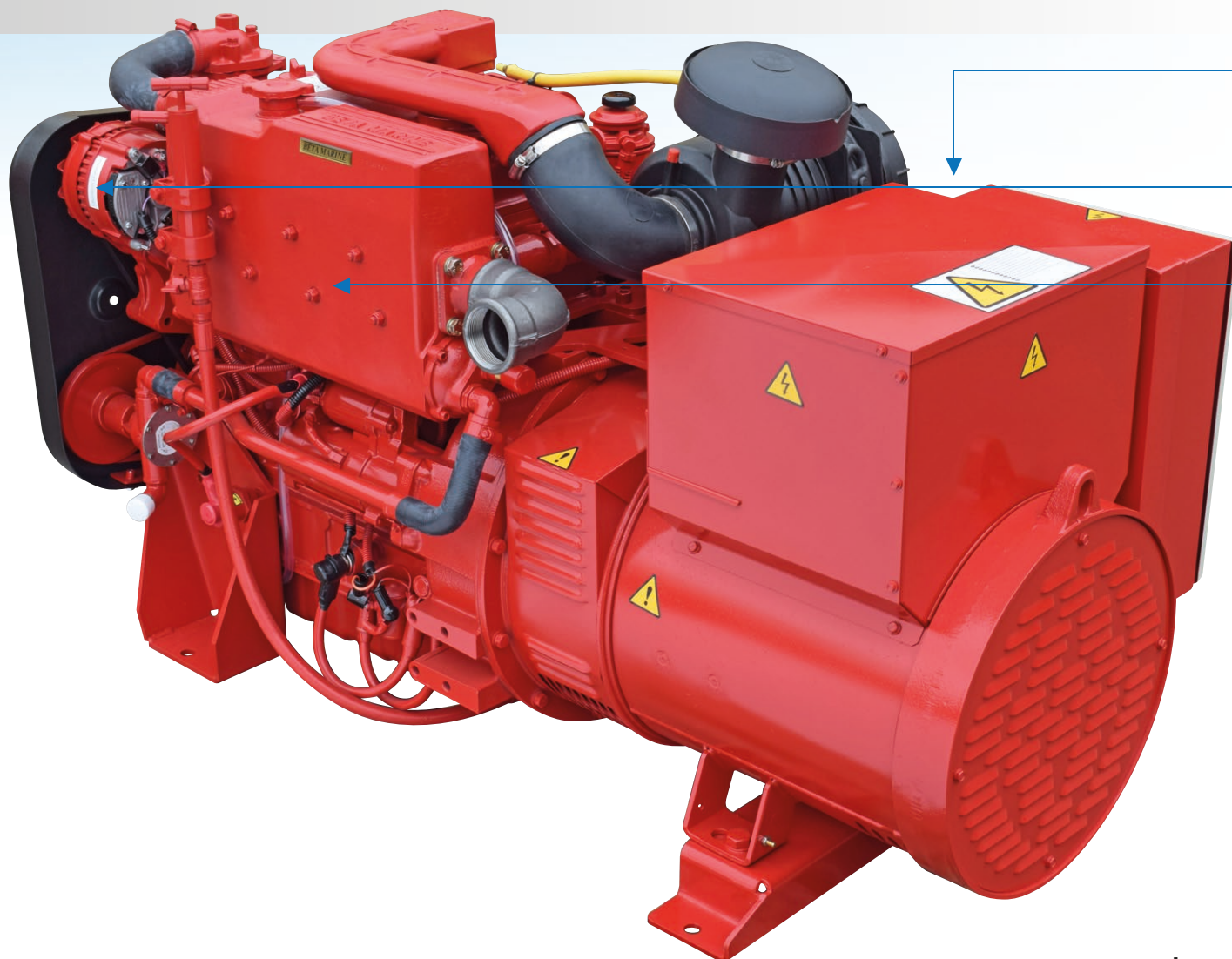
	A	B	C	Weight
BetaSet 21 (1Ph)	127	57	71	454Kg

	A	B	C	Weight
BetaGen 21	156	67	79	580Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct

BetaSet-BetaGen 26






Available With Heat Exchanger, Keel Or Radiator Cooling



BetaSet 26 Heat Exchanger

Shown with optional forward
end DC alternator guard

Kubota Base Engine

4-Pole AC Alternator	1 Phase, 50Hz 1,500 rpm 0.8PF	3 Phase, 50Hz 1,500 rpm 0.8PF	1 Phase, 60Hz 1,800 rpm 0.8PF	3 Phase, 60Hz 1,800 rpm 0.8PF
 Max. Output	25.3 kVA	26.2 kVA	29.7 kVA	30.3 kVA
 Typical Load	80 A*	27 A**	180 A***	62 A****
 Cylinders	4	4	4	4
 Cubic Capacity	3,318 cc	3,318 cc	3,318 cc	3,318 cc
 Fuel^	6.3 Lt/Hr	6.3 Lt/Hr	7.3 Lt/Hr	7.0 Lt/Hr

* Typical Maximum Amps at 230v based on kW Electrical Load.

** Typical Maximum Amps at 415v based on kW Electrical Load.

*** Typical Maximum Amps at 120v based on kW Electrical Load.

**** Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

^ Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

EPM72 Start & Stop Protection Module	Std.
RSM72 Local & LPM72 Remote Control Module	Opt.
DSE3110 Manual & Auto Start Control Module	Opt.

DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.
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Engine Electrical Options

70 Amp, 12 Volt Insulated Return Alternator	Std.
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55 Amp, 24 Volt Electric Start & Alternator	Opt.
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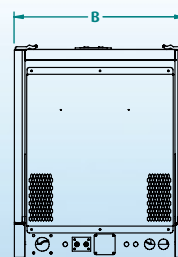
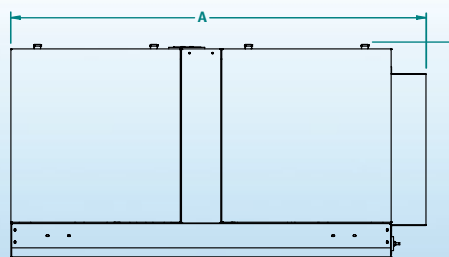
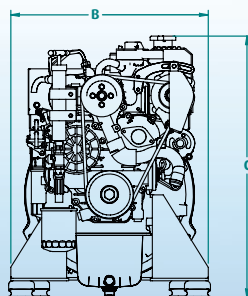
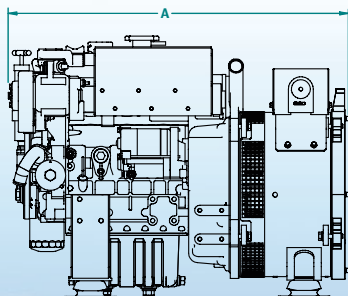


BetaGen 26
Heat Exchanger Cooled



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



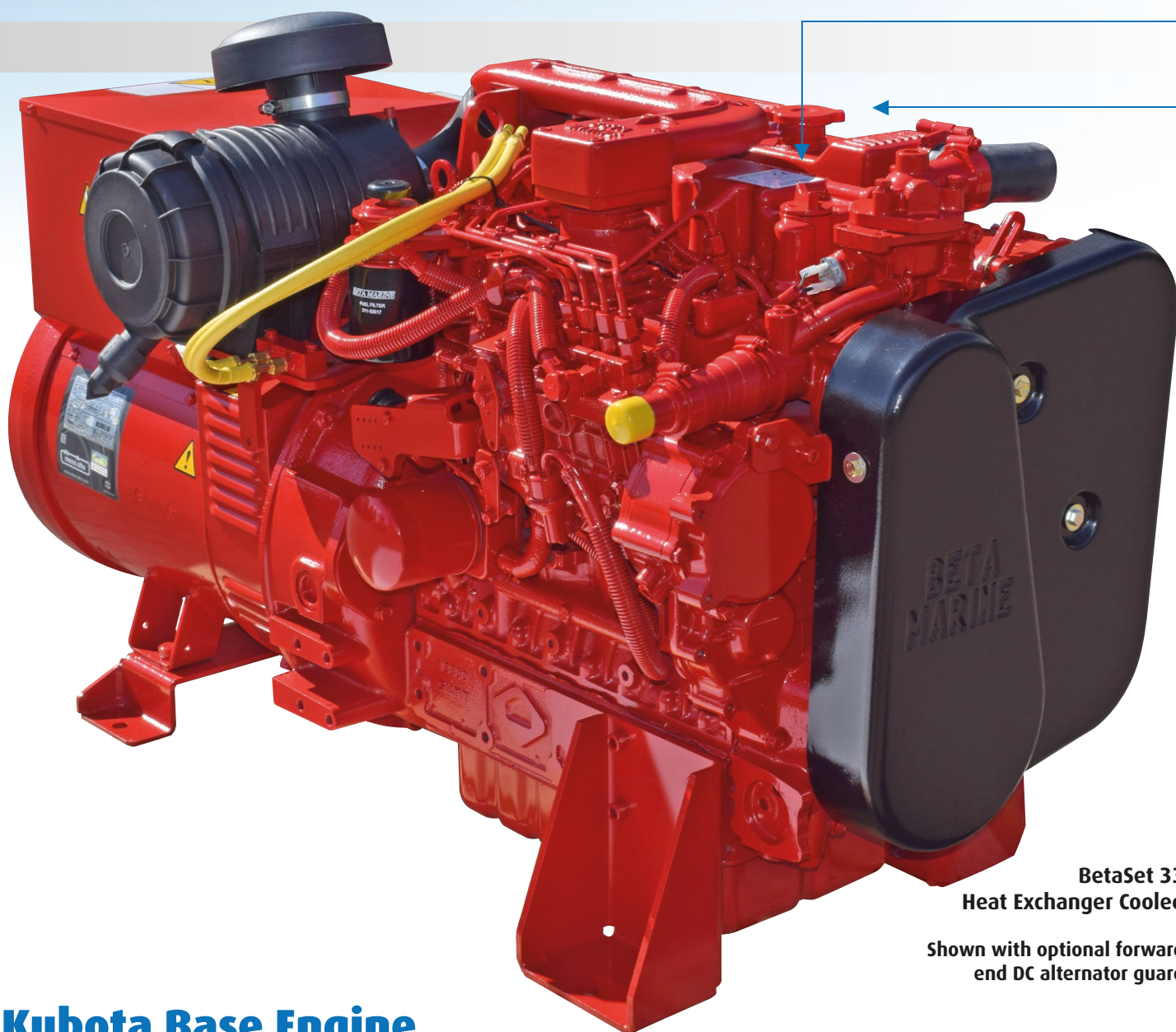
	A	B	C	Weight
BetaSet 26	133	63	86	602Kg

	A	B	C	Weight
BetaGen 26	180	74	91	792Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct

BetaSet-BetaGen 33






Available With Heat Exchanger, Keel Or Radiator Cooling



BetaSet 33
Heat Exchanger Cooled

Shown with optional forward
end DC alternator guard

Kubota Base Engine

4-Pole AC Alternator	1 Phase, 50Hz 1,500 rpm 0.8PF	3 Phase, 50Hz 1,500 rpm 0.8PF	1 Phase, 60Hz 1,800 rpm 0.8PF	3 Phase, 60Hz 1,800 rpm 0.8PF
 Max. Output	32.0 kVA	33.5 kVA	39.6 kVA	39.6 kVA
 Typical Load	101 A*	34 A**	240 A***	81 A****
 Cylinders	4	4	4	4
 Cubic Capacity	3,318 cc	3,318 cc	3,318 cc	3,318 cc
 Fuel^	7.8 Lt/Hr	7.9 Lt/Hr	9.7 Lt/Hr	9.5 Lt/Hr

* Typical Maximum Amps at 230v based on kW Electrical Load.

** Typical Maximum Amps at 415v based on kW Electrical Load.

*** Typical Maximum Amps at 120v based on kW Electrical Load.

**** Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

^ Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.	Radiator Cooled	Opt.
Keel Cooled	Std.		



Control Module Options

EPM72 Start & Stop Protection Module	Std.	DSE7310 Auto Start Control Module	
RSM72 Local & LPM72 Remote Control Module	Opt.	& DSE2510 Auto Start Display Module	Opt.
DSE3110 Manual & Auto Start Control Module	Opt.		



Engine Electrical Options

70 Amp, 12 Volt Insulated Return Alternator	Std.	55 Amp, 24 Volt Electric Start & Alternator	Opt.
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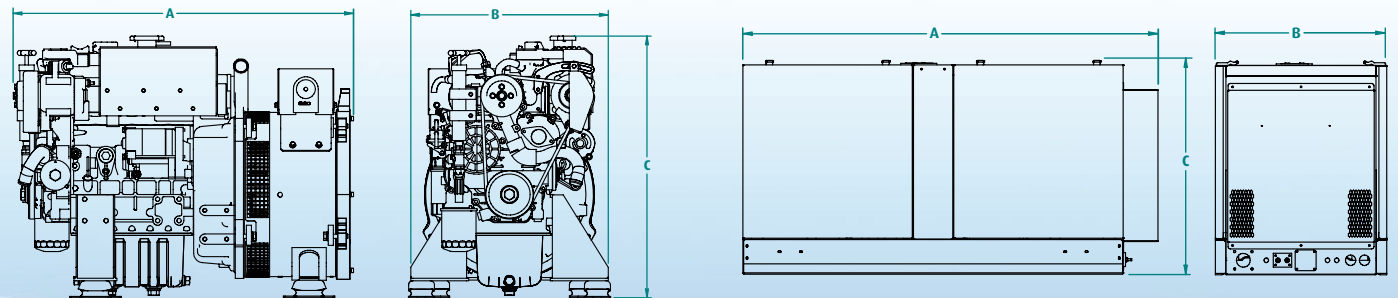


BetaGen 33
Heat Exchanger Cooled



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



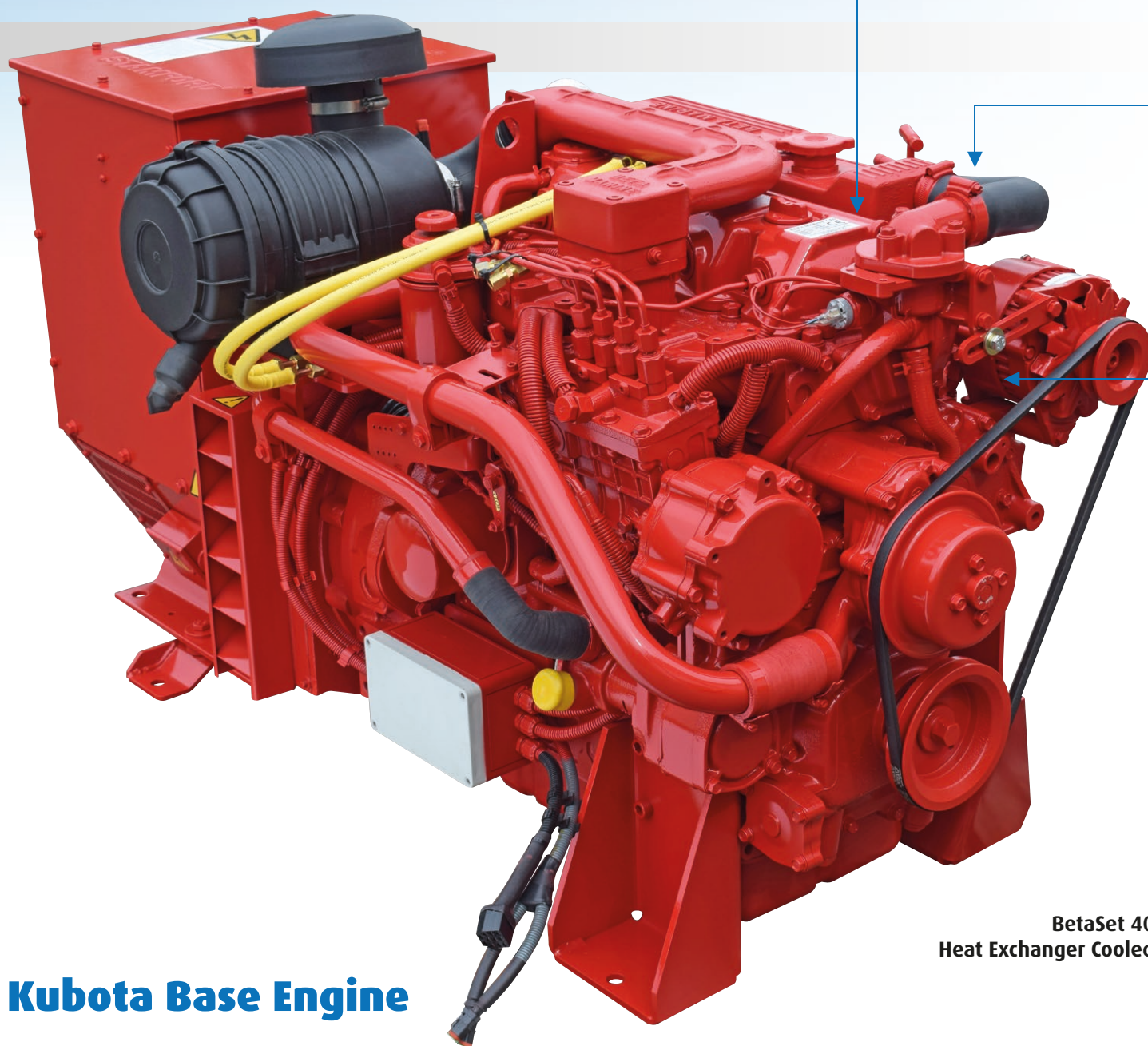
	A	B	C	Weight
BetaSet 33 (1Ph)	133	63	86	670Kg

	A	B	C	Weight
BetaGen 33	180	74	91	860Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct






BetaSet-BetaGen 40

Available With Heat Exchanger, Keel Or Radiator Cooling



BetaSet 40
Heat Exchanger Cooled

Kubota Base Engine

4-Pole AC Alternator	1 Phase, 50Hz 1,500 rpm 0.8PF	3 Phase, 50Hz 1,500 rpm 0.8PF	1 Phase, 60Hz 1,800 rpm 0.8PF	3 Phase, 60Hz 1,800 rpm 0.8PF
 Max. Output	38.5 kVA	39.6 kVA	42.9 kVA	46.2 kVA
 Typical Load	122 A[*]	40 A^{**}	260 A^{***}	95 A^{****}
 Cylinders	4	4	4	4
 Cubic Capacity	3,769 cc	3,769 cc	3,769 cc	3,769 cc
 Fuel[^]	8.5 Lt/Hr	8.5 Lt/Hr	9.2 Lt/Hr	9.4 Lt/Hr

^{*} Typical Maximum Amps at 230v based on kW Electrical Load.

^{**} Typical Maximum Amps at 415v based on kW Electrical Load.

^{***} Typical Maximum Amps at 120v based on kW Electrical Load.

^{****} Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

[^] Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

EPM72 Start & Stop Protection Module	Std.
RSM72 Local & LPM72 Remote Control Module	Opt.
DSE3110 Manual & Auto Start Control Module	Opt.

DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.
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Engine Electrical Options

70 Amp, 12 Volt Insulated Return Alternator	Std.
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55 Amp, 24 Volt Electric Start & Alternator	Opt.
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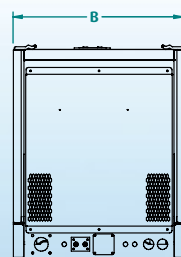
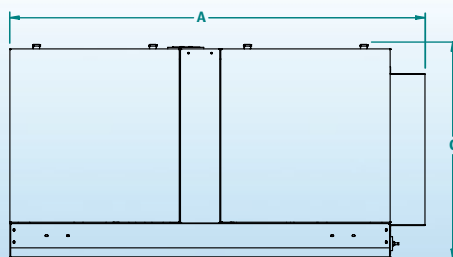
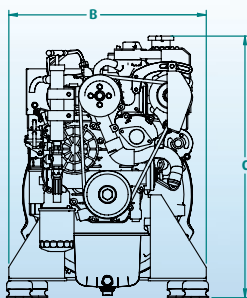
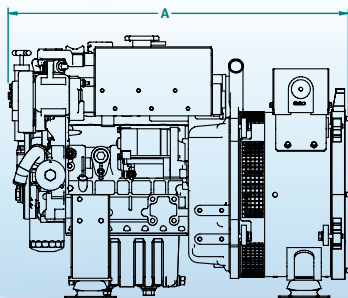


**BetaGen 40
Keel Cooled**



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



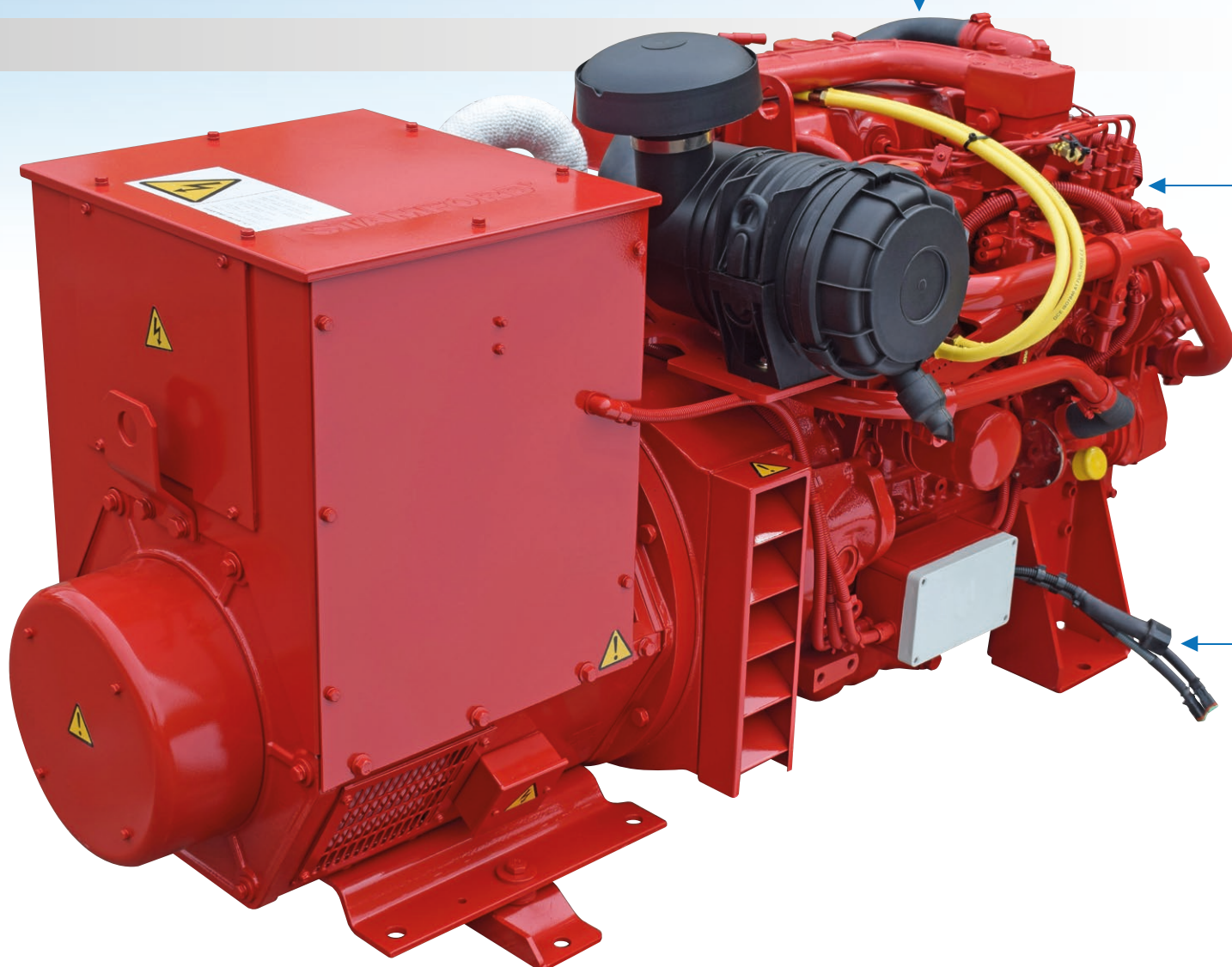
	A	B	C	Weight
BetaSet 40	154	63	84	690Kg

	A	B	C	Weight
BetaGen 40	180	74	91	890Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct






BetaSet-BetaGen 49

Available With Heat Exchanger, Keel Or Radiator Cooling



BetaSet 49
Heat Exchanger Cooled

Kubota Base Engine

4-Pole AC Alternator	1 Phase, 50Hz 1,500 rpm 0.8PF	3 Phase, 50Hz 1,500 rpm 0.8PF	1 Phase, 60Hz 1,800 rpm 0.8PF	3 Phase, 60Hz 1,800 rpm 0.8PF
 Max. Output	42.5 kVA	45.0 kVA	49.5 kVA	53.4 kVA
 Typical Load	134 A*	47 A**	300 A***	113 A****
 Cylinders	4	4	4	4
 Cubic Capacity	3,769 cc	3,769 cc	3,769 cc	3,769 cc
 Fuel [^]	9.2 Lt/Hr	9.2 Lt/Hr	10.5 Lt/Hr	10.6 Lt/Hr

* Typical Maximum Amps at 230v based on kW Electrical Load.

** Typical Maximum Amps at 415v based on kW Electrical Load.

*** Typical Maximum Amps at 120v based on kW Electrical Load.

**** Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

[^] Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

EPM72 Start & Stop Protection Module	Std.
RSM72 Local & LPM72 Remote Control Module	Opt.
DSE3110 Manual & Auto Start Control Module	Opt.

DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.
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Engine Electrical Options

70 Amp, 12 Volt Insulated Return Alternator	Std.
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55 Amp, 24 Volt Electric Start & Alternator	Opt.
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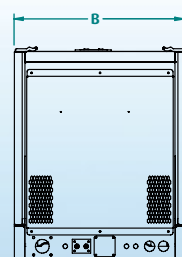
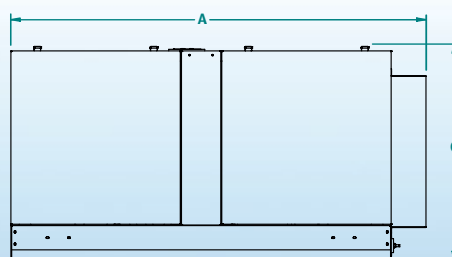
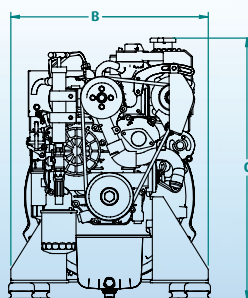
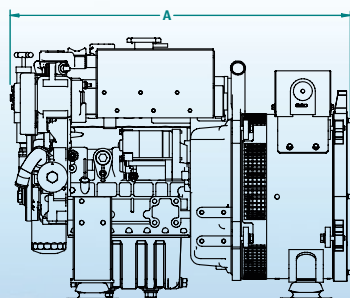


BetaGen 49
Keel Cooled



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



	A	B	C	Weight
BetaSet 49	154	63	84	735Kg

	A	B	C	Weight
BetaGen 49	180	74	91	950Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct

BetaSet-BetaGen 40T IIIA






Available With Heat Exchanger, Keel Or Radiator Cooling



BetaSet 40T IIIA
Heat Exchanger Cooled

Shown with optional base frame
and forward end DC alternator guard

Kubota Base Engine

4-Pole AC Alternator	1 Phase, 50Hz 1,500 rpm 0.8PF	3 Phase, 50Hz 1,500 rpm 0.8PF	1 Phase, 60Hz 1,800 rpm 0.8PF	3 Phase, 60Hz 1,800 rpm 0.8PF
 Max. Output	40.0 kVA	42.0 kVA	42.9 kVA	46.2 kVA
 Typical Load	126 A [*]	43 A ^{**}	260 A ^{***}	95 A ^{****}
 Cylinders	4	4	4	4
 Cubic Capacity	3,769 cc	3,769 cc	3,769 cc	3,769 cc
 Fuel [^]	9.3 Lt/Hr	9.2 Lt/Hr	9.9 Lt/Hr	10.1 Lt/Hr

^{*} Typical Maximum Amps at 230v based on kW Electrical Load.

^{**} Typical Maximum Amps at 415v based on kW Electrical Load.

^{***} Typical Maximum Amps at 120v based on kW Electrical Load.

^{****} Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

[^] Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

EPM72 Start & Stop Protection Module	Std.
RSM72 Local & LPM72 Remote Control Module	Opt.
DSE3110 Manual & Auto Start Control Module	Opt.

DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.
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Engine Electrical Options

70 Amp, 12 Volt Insulated Return Alternator	Std.
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55 Amp, 24 Volt Electric Start & Alternator	Opt.
---	------

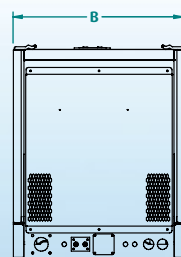
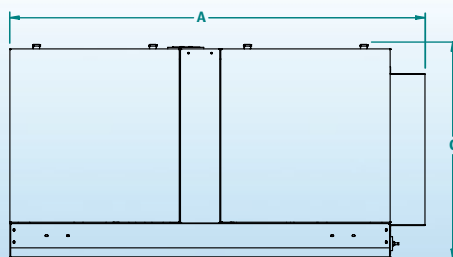
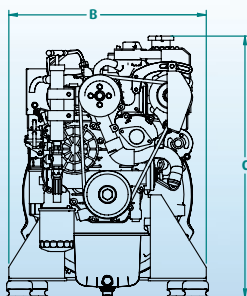
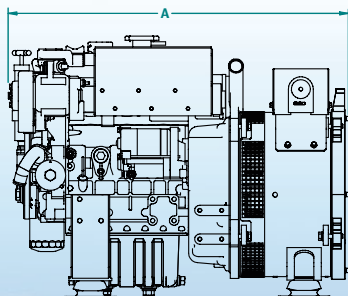


**BetaGen 40T IIIA
Keel Cooled**



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



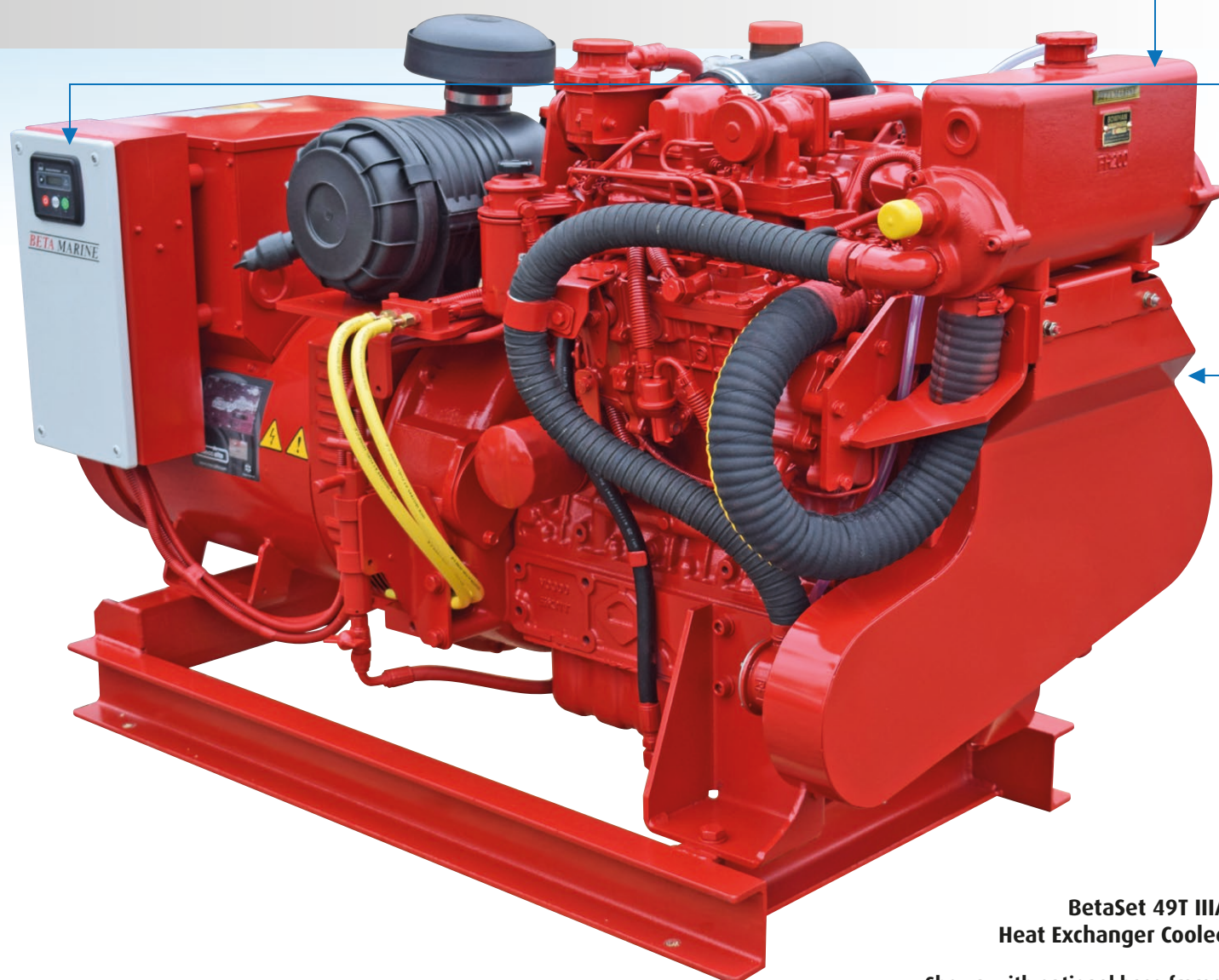
	A	B	C	Weight
BetaSet 40 IIIA	146	67	86	690Kg

	A	B	C	Weight
BetaGen 40 IIIA	180	74	91	890Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct

BetaSet-BetaGen 49T IIIA






Available With Heat Exchanger, Keel Or Radiator Cooling



BetaSet 49T IIIA
Heat Exchanger Cooled

Shown with optional base frame,
forward end DC alternator guard
and mounted control panel

Kubota Base Engine

4-Pole AC Alternator	1 Phase, 50Hz 1,500 rpm 0.8PF	3 Phase, 50Hz 1,500 rpm 0.8PF	1 Phase, 60Hz 1,800 rpm 0.8PF	3 Phase, 60Hz 1,800 rpm 0.8PF
 Max. Output	45.0 kVA	48.0 kVA	52.8 kVA	58.0 kVA
 Typical Load	142 A*	49 A**	320 A***	119 A****
 Cylinders	4	4	4	4
 Cubic Capacity	3,769 cc	3,769 cc	3,769 cc	3,769 cc
 Fuel^	10.4 Lt/Hr	10.3 Lt/Hr	11.8 Lt/Hr	12.3 Lt/Hr

* Typical Maximum Amps at 230v based on kW Electrical Load.

** Typical Maximum Amps at 415v based on kW Electrical Load.

*** Typical Maximum Amps at 120v based on kW Electrical Load.

**** Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

^ Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

EPM72 Start & Stop Protection Module	Std.
RSM72 Local & LPM72 Remote Control Module	Opt.
DSE3110 Manual & Auto Start Control Module	Opt.

DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.
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Engine Electrical Options

70 Amp, 12 Volt Insulated Return Alternator	Std.
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55 Amp, 24 Volt Electric Start & Alternator	Opt.
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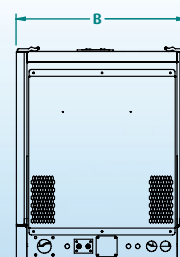
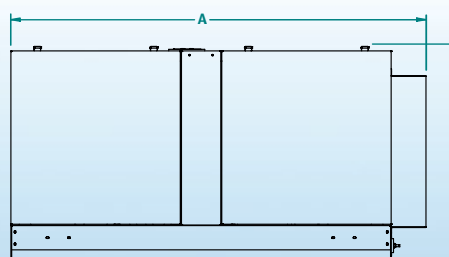
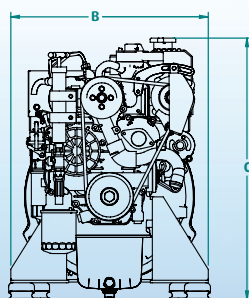
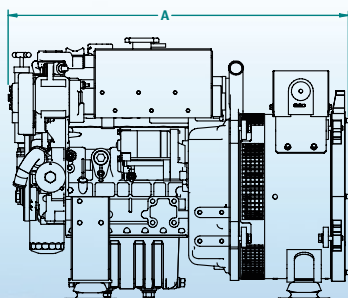


**BetaGen 49T IIIA
Keel Cooled**



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



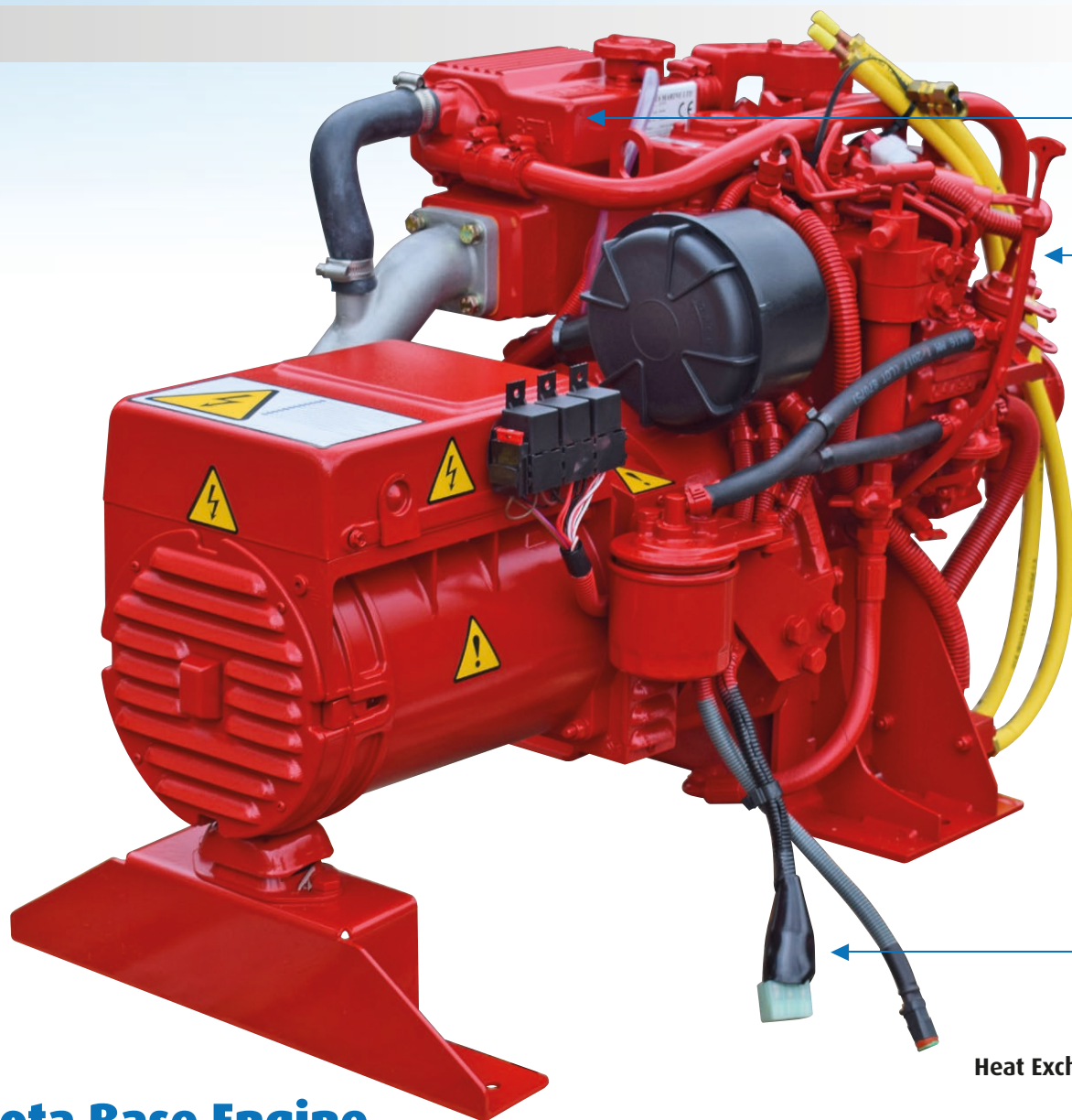
	A	B	C	Weight
BetaSet 49 IIIA	146	67	86	735Kg

	A	B	C	Weight
BetaGen 49 IIIA	180	74	91	950Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct






BetaSet-BetaGen 4/2

Available With Heat Exchanger, Keel Or Radiator Cooling



BetaGen 4/2
Heat Exchanger Cooled

Kubota Base Engine

	2-Pole AC Alternator	1 Phase, 50Hz 3,000 rpm	1 Phase, 60Hz 3,600 rpm
 Max. Output		4.0 kVA	4.5 kVA
 Typical Load		16 A*	34 A***
 Cylinders		2	2
 Cubic Capacity		479 cc	479 cc
 Fuel[^]		1.4 Lt/Hr	1.7 Lt/Hr

The BetaSet-BetaGen 4/2 are
unity power factor machines

* Typical Maximum Amps at 230v based on kW Electrical Load.

** Typical Maximum Amps at 415v based on kW Electrical Load.

*** Typical Maximum Amps at 120v based on kW Electrical Load.

**** Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

[^] Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

PSM720 Start & Stop Protection Module	Std.
EPM72 Start & Stop Protection Module	Opt.*
RSM72 Local & LPM72 Remote Control Module	Opt.

DSE3110 Manual & Auto Start Control Module	Opt.
DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.

*Only when a 70 Amp, 12 Volt Insulated Return Alternator is specified.



Engine Electrical Options

45 Amp, 12 Volt Alternator	Std.
70 Amp, 12 Volt Insulated Return Alternator	Opt.

55 Amp, 24 Volt Electric Start & Alternator	Opt.
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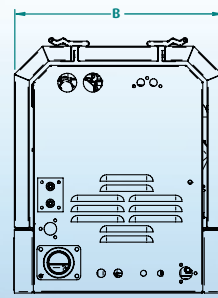
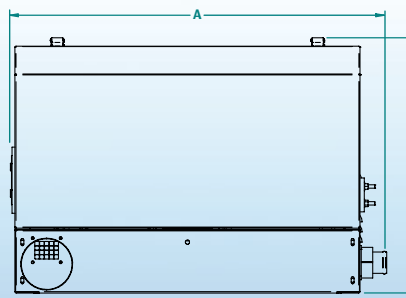
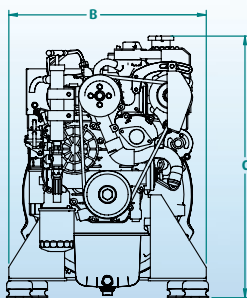
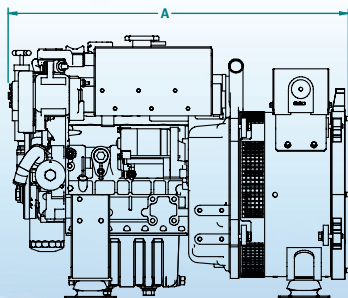


BetaGen 4/2
Heat Exchanger Cooled



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



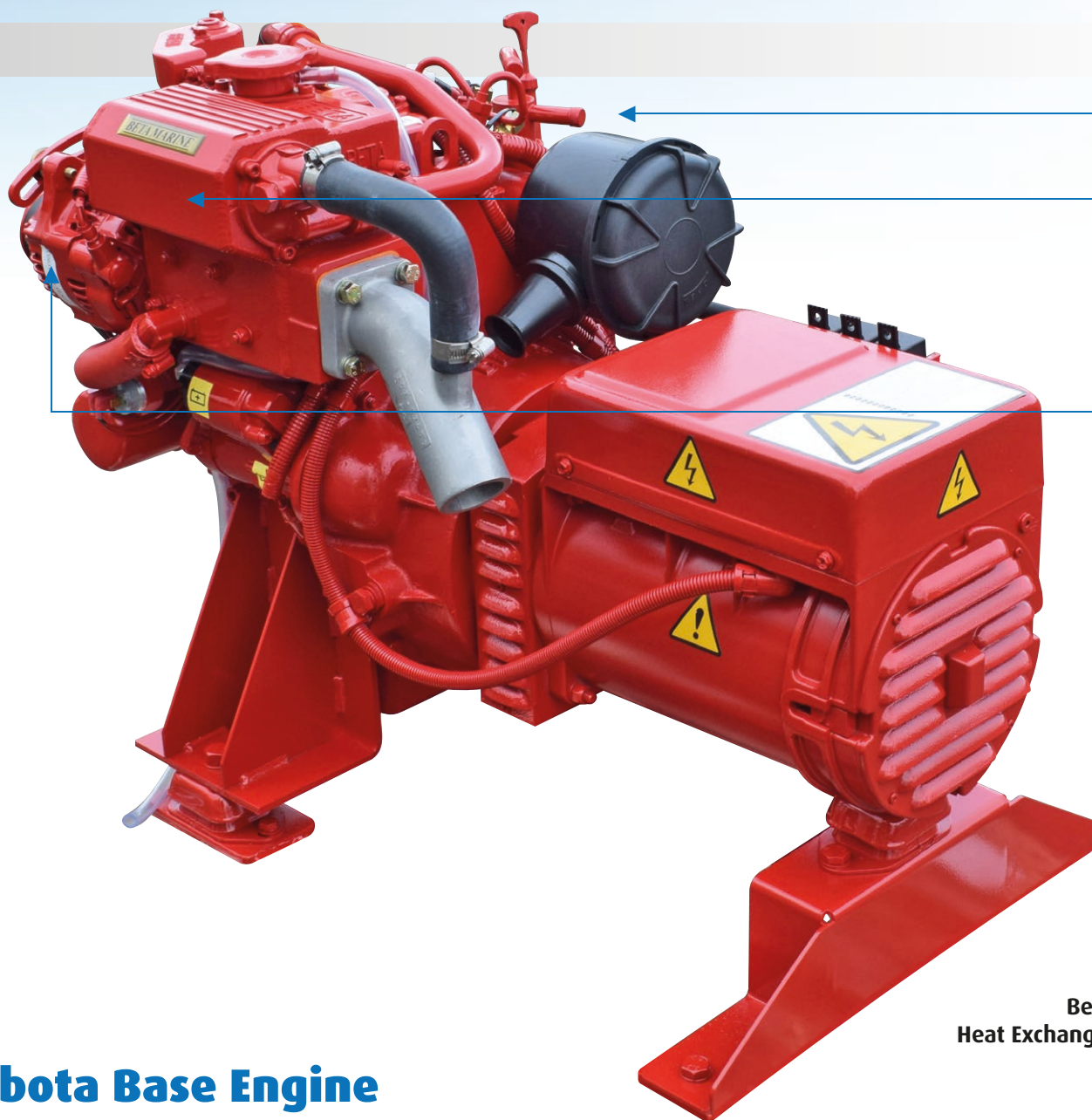
	A	B	C	Weight
BetaSet 4/2	76	44	58	116Kg

	A	B	C	Weight
BetaGen 4/2	80	49	59	160Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct






BetaSet-BetaGen 6/2

Available With Heat Exchanger, Keel Or Radiator Cooling



BetaSet 6/2
Heat Exchanger Cooled

Kubota Base Engine

	2-Pole AC Alternator	1 Phase, 50Hz 3,000 rpm	1 Phase, 60Hz 3,600 rpm
 Max. Output		6.5 kVA	7.7 kVA
 Typical Load		26 A [*]	58 A ^{***}
 Cylinders		2	2
 Cubic Capacity		479 cc	479 cc
 Fuel[^]		2.3 Lt/Hr	2.9 Lt/Hr

The BetaSet-BetaGen 6/2 are
unity power factor machines

^{*} Typical Maximum Amps at 230v based on kW Electrical Load.

^{**} Typical Maximum Amps at 415v based on kW Electrical Load.

^{***} Typical Maximum Amps at 120v based on kW Electrical Load.

^{****} Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

[^] Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.	Radiator Cooled	Opt.
Keel Cooled	Std.		



Control Module Options

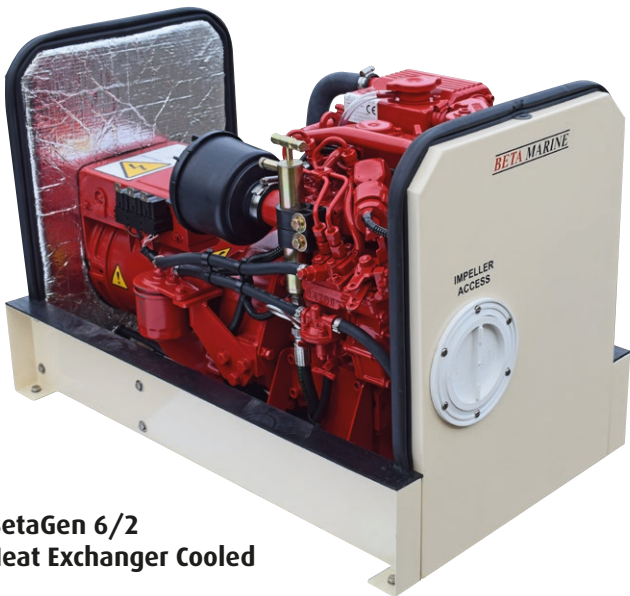
PSM720 Start & Stop Protection Module	Std.	DSE3110 Manual & Auto Start Control Module	Opt.
EPM72 Start & Stop Protection Module	Opt.*	DSE7310 Auto Start Control Module	
RSM72 Local & LPM72 Remote Control Module	Opt.	& DSE2510 Auto Start Display Module	Opt.

*Only when a 70 Amp, 12 Volt Insulated Return Alternator is specified.



Engine Electrical Options

45 Amp, 12 Volt Alternator	Std.	55 Amp, 24 Volt Electric Start & Alternator	Opt.
70 Amp, 12 Volt Insulated Return Alternator	Opt.		

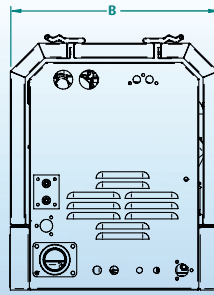
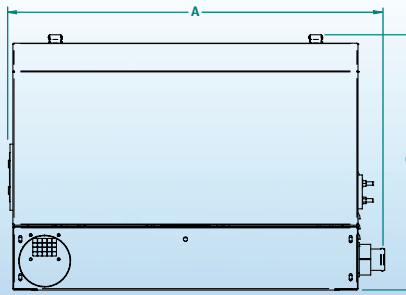
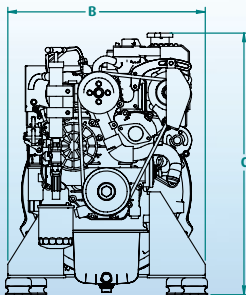
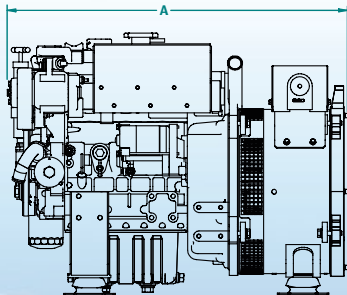


BetaGen 6/2
Heat Exchanger Cooled



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



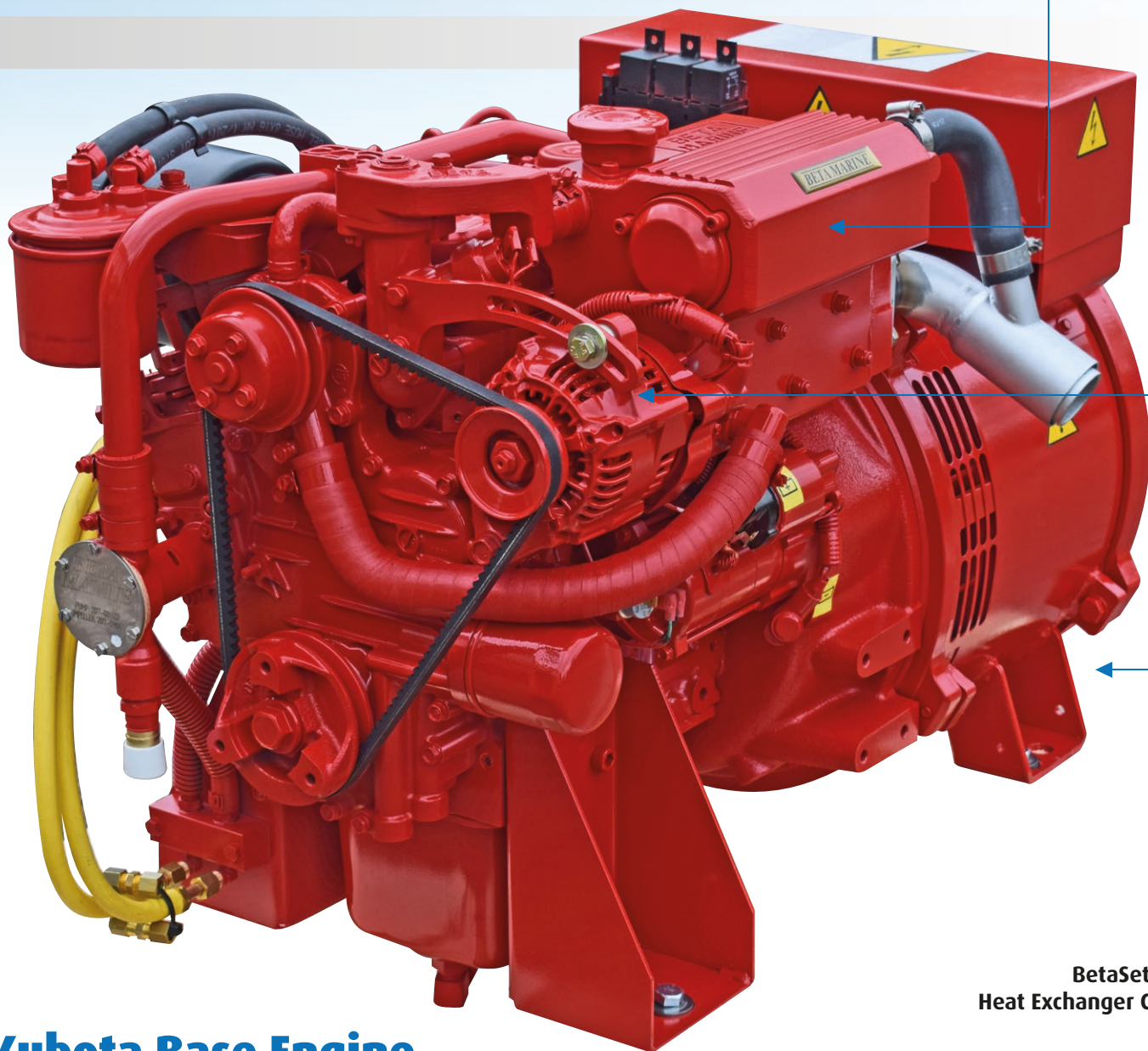
	A	B	C	Weight
BetaSet 6/2	76	44	58	116Kg

	A	B	C	Weight
BetaGen 6/2	80	49	59	160Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct






BetaSet-BetaGen 11/2

Available With Heat Exchanger, Keel Or Radiator Cooling



BetaSet 11/2
Heat Exchanger Cooled

Kubota Base Engine

2-Pole AC Alternator	1 Phase, 50Hz 3,000 rpm 0.8PF	3 Phase, 50Hz 3,000 rpm 0.8PF	1 Phase, 60Hz 3,600 rpm 0.8PF	3 Phase, 60Hz 3,600 rpm 0.8PF
 Max. Output	12.2 kVA	13.7 kVA	14.0 kVA	15.0 kVA
 Typical Load	39 A*	14 A**	85 A***	31 A****
 Cylinders	3	3	3	3
 Cubic Capacity	719 cc	719 cc	719 cc	719 cc
 Fuel^	3.5 Lt/Hr	3.6 Lt/Hr	4.2 Lt/Hr	4.3 Lt/Hr

* Typical Maximum Amps at 230v based on kW Electrical Load.

** Typical Maximum Amps at 415v based on kW Electrical Load.

*** Typical Maximum Amps at 120v based on kW Electrical Load.

**** Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

^ Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

PSM720 Start & Stop Protection Module	Std.
EPM72 Start & Stop Protection Module	Opt.*
RSM72 Local & LPM72 Remote Control Module	Opt.

DSE3110 Manual & Auto Start Control Module	Opt.
DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.

*Only when a 70 Amp, 12 Volt Insulated Return Alternator is specified.



Engine Electrical Options

45 Amp, 12 Volt Alternator	Std.
70 Amp, 12 Volt Insulated Return Alternator	Opt.

55 Amp, 24 Volt Electric Start & Alternator	Opt.
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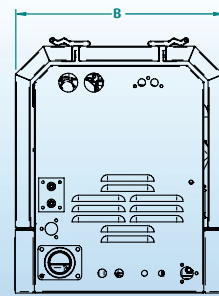
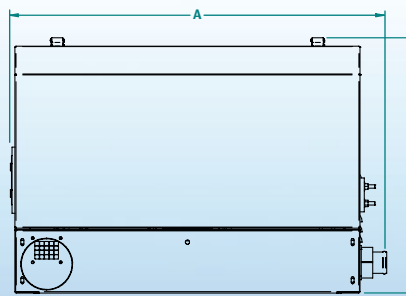
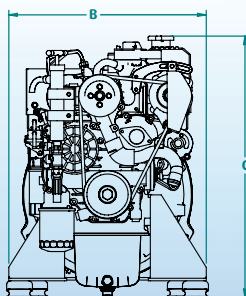
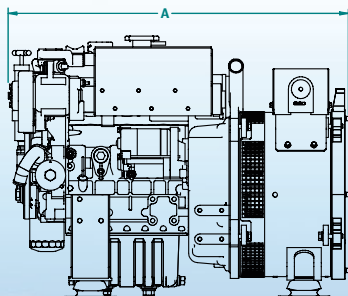


**BetaGen 11/2
Keel Cooled**



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



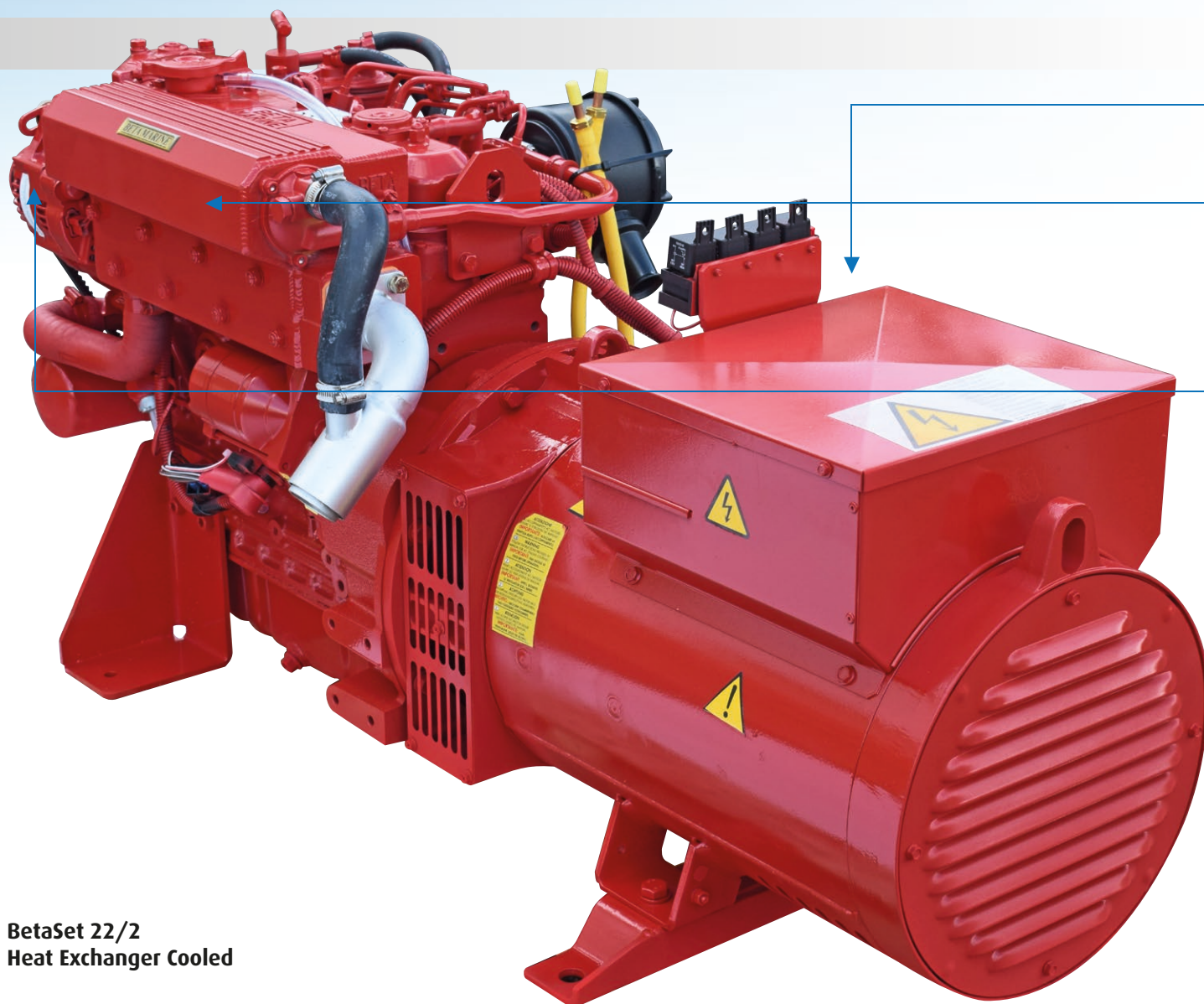
	A	B	C	Weight
BetaSet 11/2	100	46	58	225Kg

	A	B	C	Weight
BetaGen 11/2	120	56	65	286Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct






BetaSet-BetaGen 22/2

Available With Heat Exchanger, Keel Or Radiator Cooling



BetaSet 22/2
Heat Exchanger Cooled

Kubota Base Engine

2-Pole AC Alternator	1 Phase, 50Hz 3,000 rpm 0.8PF	3 Phase, 50Hz 3,000 rpm 0.8PF	1 Phase, 60Hz 3,600 rpm 0.8PF	3 Phase, 60Hz 3,600 rpm 0.8PF
 Max. Output	16.5 kVA	23.1 kVA	17.0 kVA	24.0 kVA
 Typical Load	52 A*	23 A**	103 A***	48 A****
 Cylinders	4	4	4	4
 Cubic Capacity	1,498 cc	1,498 cc	1,498 cc	1,498 cc
 Fuel^	4.5 Lt/Hr	5.9 Lt/Hr	4.8 Lt/Hr	6.4 Lt/Hr

* Typical Maximum Amps at 230v based on kW Electrical Load.

** Typical Maximum Amps at 415v based on kW Electrical Load.

*** Typical Maximum Amps at 120v based on kW Electrical Load.

**** Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

^ Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

PSM720 Start & Stop Protection Module	Std.
EPM72 Start & Stop Protection Module	Opt.*
RSM72 Local & LPM72 Remote Control Module	Opt.

DSE3110 Manual & Auto Start Control Module	Opt.
DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.

*Only when a 70 Amp, 12 Volt Insulated Return Alternator is specified.



Engine Electrical Options

45 Amp, 12 Volt Alternator	Std.
70 Amp, 12 Volt Insulated Return Alternator	Opt.

55 Amp, 24 Volt Electric Start & Alternator	Opt.
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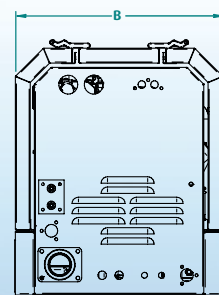
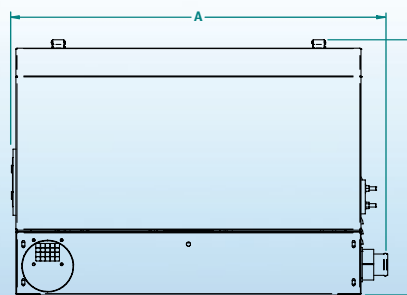
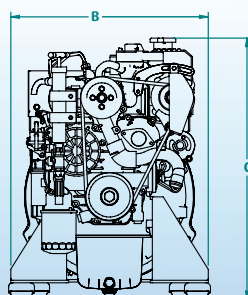
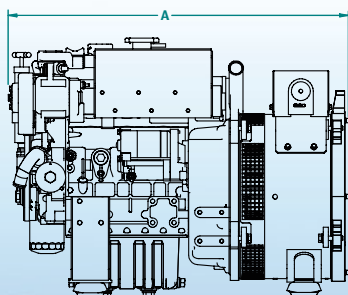


**BetaGen 22/2
Keel Cooled**



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



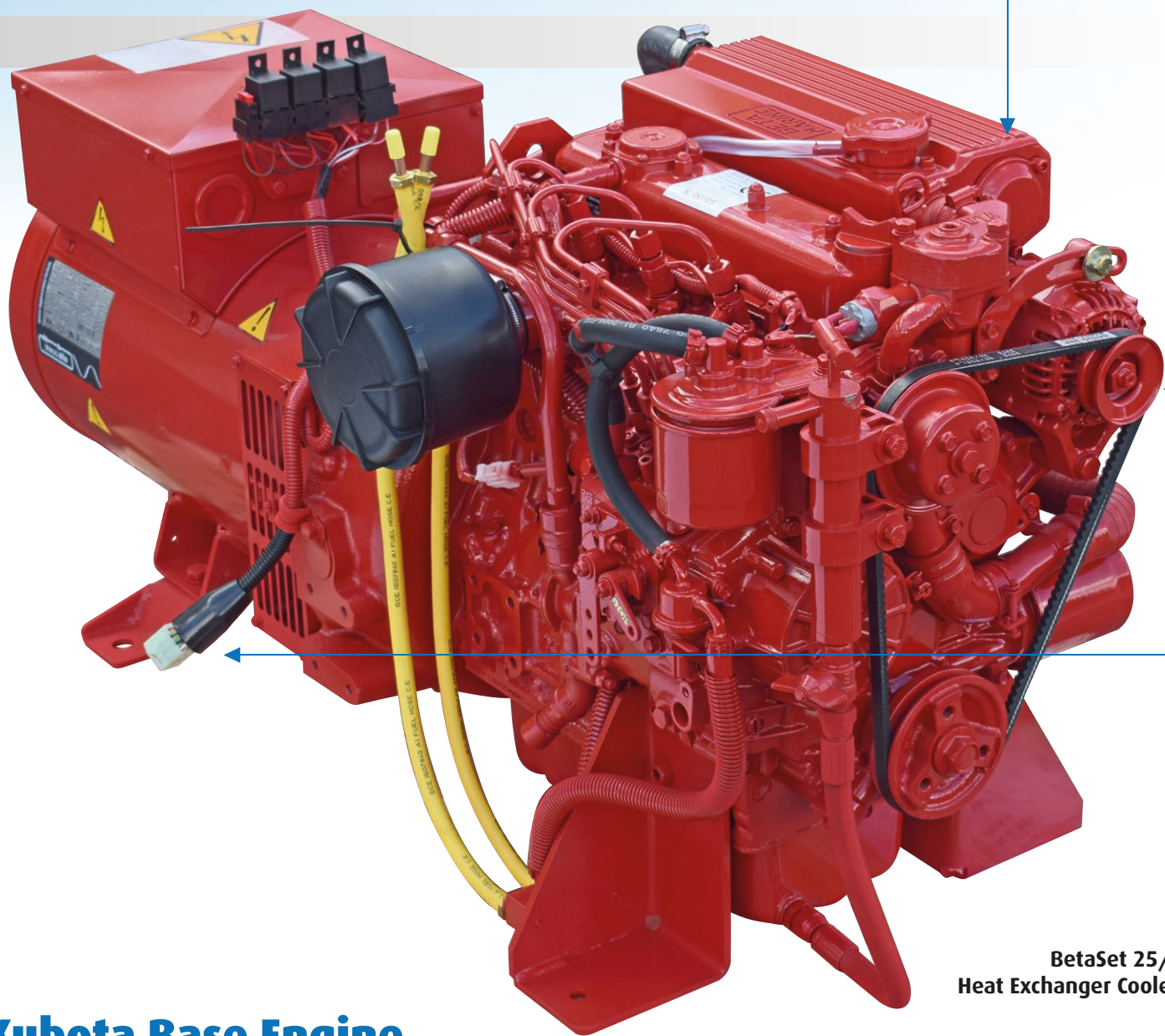
	A	B	C	Weight
BetaSet 22/2	116	51	62	286Kg

	A	B	C	Weight
BetaGen 22/2	138	56	67	380Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct






BetaSet-BetaGen 25/2

Available With Heat Exchanger, Keel Or Radiator Cooling



BetaSet 25/2
Heat Exchanger Cooled

Kubota Base Engine

2-Pole AC Alternator	1 Phase, 50Hz 3,000 rpm 0.8PF	3 Phase, 50Hz 3,000 rpm 0.8PF	1 Phase, 60Hz 3,600 rpm 0.8PF	3 Phase, 60Hz 3,600 rpm 0.8PF
 Max. Output	25.5 kVA	28.0 kVA	25.5 kVA	32.0 kVA
 Typical Load	81 A[*]	28 A^{**}	154 A^{***}	61 A^{****}
 Cylinders	4	4	4	4
 Cubic Capacity	1,498 cc	1,498 cc	1,498 cc	1,498 cc
 Fuel[^]	6.8 Lt/Hr	7.1 Lt/Hr	7.2 Lt/Hr	8.4 Lt/Hr

^{*} Typical Maximum Amps at 230v based on kW Electrical Load.

^{**} Typical Maximum Amps at 415v based on kW Electrical Load.

^{***} Typical Maximum Amps at 120v based on kW Electrical Load.

^{****} Typical Maximum Amps at 208v based on kW Electrical Load.

All kVA continuous output ratings are Marine Class F temperature rises.

[^] Approximate Fuel Consumption.



Cooling Options

Heat Exchanger Cooled	Std.
Keel Cooled	Std.

Radiator Cooled	Opt.
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Control Module Options

PSM720 Start & Stop Protection Module	Std.
EPM72 Start & Stop Protection Module	Opt.*
RSM72 Local & LPM72 Remote Control Module	Opt.

DSE3110 Manual & Auto Start Control Module	Opt.
DSE7310 Auto Start Control Module & DSE2510 Auto Start Display Module	Opt.

*Only when a 70 Amp, 12 Volt Insulated Return Alternator is specified.



Engine Electrical Options

45 Amp, 12 Volt Alternator	Std.
70 Amp, 12 Volt Insulated Return Alternator	Opt.

55 Amp, 24 Volt Electric Start & Alternator	Opt.
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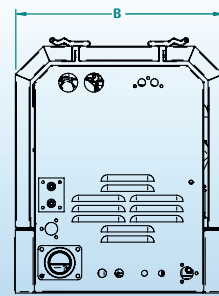
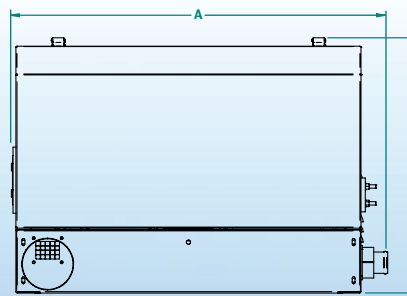
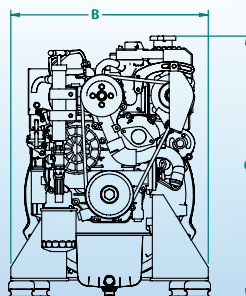
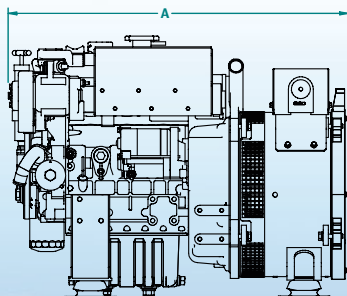


**BetaGen 25/2
Keel Cooled**



Dimensions & Weight

Images Below Are For Illustrating Dimensions & Not Necessarily Representative



	A	B	C	Weight
BetaSet 25/2	118	51	62	296Kg

	A	B	C	Weight
BetaGen 25/2	138	56	67	390Kg

These are typical dimensions: visit our website for all BetaSet-BetaGen option drawings or contact Beta Marine direct

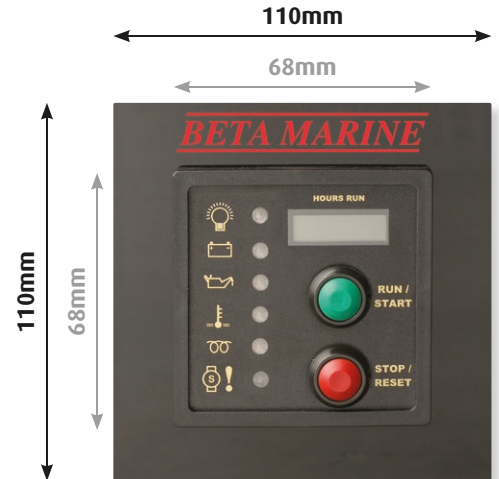
Control Modules

PSM720 Push Button Start & Stop Protection Module

Standard for the BetaSet-BetaGen 7 through to 21

This control module is micro-processor based for engine monitoring and alarms with protection*. Complete with manual push buttons for automatic engine start with timed pre-heat and engine stop, has an hours run meter and LED indicators for DC on, starter battery no charge, low lubricating oil pressure* and high water coolant temperature*.

*Automatic shutdown protection on fault function.

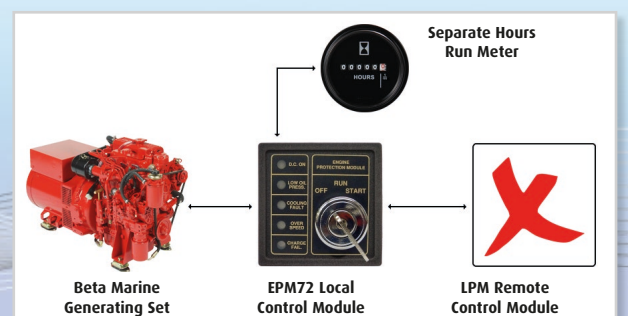
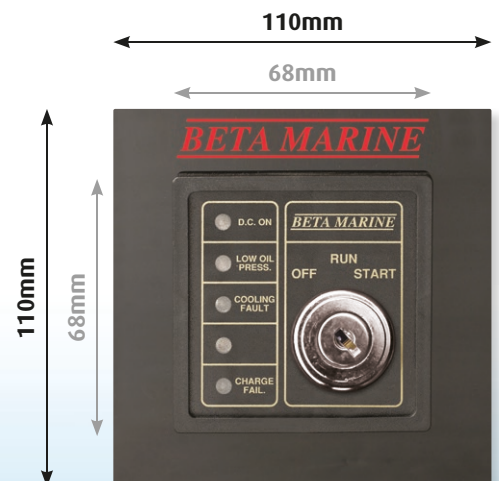


EPM72 Key Switch Start & Stop Protection Module

Standard for the BetaSet-BetaGen 26 through to 49

Standard for generating sets specified with electrical insulated return engine starting. The control modules engine pre-heat, start and stop functions are operated by a manual key switch and has micro-processor based engine monitoring and alarms with protection. LED indication for DC on, low engine lubricating oil pressure*, high water coolant temperature* and starter battery no charge. It is supplied complete with a separate hours run meter.

*Automatic shutdown protection on fault function.



*Extension looms are available, please refer to our relevant price list

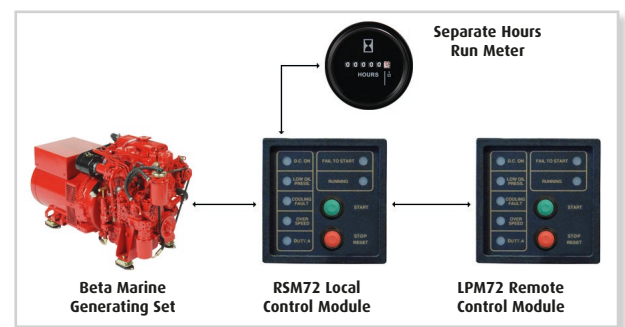
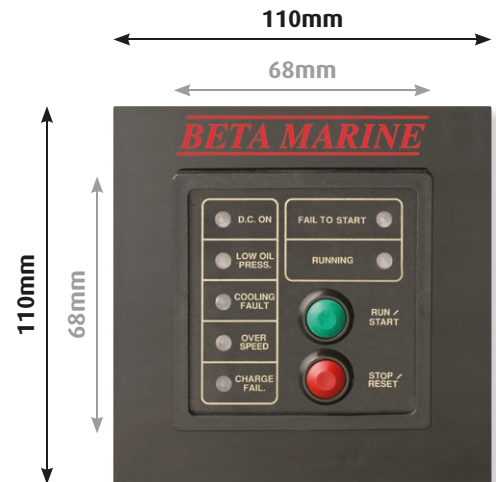
RSM72 & LPM72 Control Modules for Local & Remote Operation

Optional for all BetaSet-BetaGen models

Compatible for all generating sets including those specified with electrical insulated return engine starting. Comprises of a RSM72 (remote start module) with a separate hours run meter for local installation and a LPM72 (lamp start module) for remote installation enabling full generating set control from two locations – in lieu of the standard module.

The main RSM72 is PCB based with engine start-stop buttons and alarms with protection*. Complete with manual push buttons for automatic engine start with timed pre-heat and engine stop, LED indicators for DC on, over speed, low lubricating oil pressure* and high water coolant temperature*. *Automatic shutdown protection on fault function.

The secondary LPM72 remote module is visually identical and is interconnected to the main RSM72 by twin data ports/cables, this enables generating set control and engine monitoring from two separate locations. The modules are supplied loose with a 3m interconnection cable included for the RSM72, the required “custom” lengths of interconnection cable for coupling the LPM72 to the RSM72 are not included but are available at additional cost.



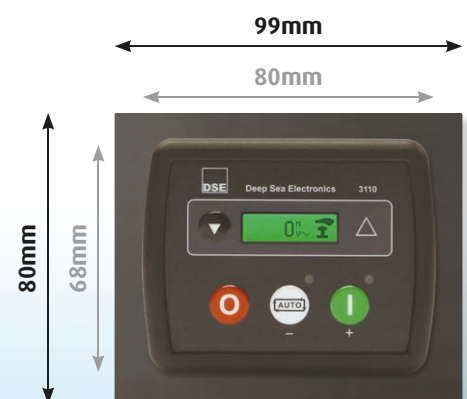
DSE3110 Manual & Auto Start Control Module

Optional for all BetaSet-BetaGen models

Compatible for all generating sets including those specified with electrical insulated return engine starting – in lieu of the standard module. The DSE3110 is utilised as a Manual or Auto Start Module for single generating set applications and provide advanced engine monitoring and protection features. It includes a back-lit icon LCD display which clearly shows the status of the engine at all times.

The module includes fixed and flexible outputs as well as configurable inputs making this product ideal for a wide variety of applications. The module can either be programmed using the front panel or by using the DSE Configuration Suite PC software. Complete as standard with engine control and monitoring functions for manual engine start, automatic engine start with timed pre-heat and engine stop, an hours run meter, over speed, low lubricating oil pressure*, high water coolant temperature* and power save mode.

*Automatic shutdown protection on fault function.



DSE7310 MK II Control Module & DSE7310 MK II Display Module for Local & Remote Operation

Optional for all BetaSet-BetaGen models

The DSE7310 MK II is an Auto Start Control Module suitable for a wide variety of single, diesel generating set applications. Monitoring an extensive number of engine parameters, the module will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC and via SMS text alerts (requires optional external modem). The module includes USB, RS232 and RS485 ports as well as dedicated DSENet® terminals for system expansion.

The module is compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines and offers an extensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to meet the most demanding industry requirements.

The extensive list of features includes enhanced event and performance monitoring, remote communications, PLC functionality and dual mutual standby to reduce engine wear. The module can be easily configured using the DSE Configuration Suite PC software. Selected front panel editing is also available.

The DSE7310 MK II has engine control and monitoring functions including manual engine start, automatic engine start with timed pre-heat, engine stop, engine hours run meter, over speed, low lubricating oil pressure* and high water coolant temperature*.

Up to three DSE7310 MK II display modules can be connected to a DSE7310 MK II control module, each can be positioned up to a maximum distance of 1km away. Each display module will remotely offer exactly the same instrumentation, control and monitoring capabilities as the host control module, including starting and stopping of the engine.

*Automatic shutdown protection on fault function.



Control Module Location Options

Standard Location

The local control module is supplied loose for local installation and complete with a 3m interconnection cable.* The module is simple to connect using the cable plug and socket.

*Custom lengths are available as an optional extra.



Optional Location A

The local control module can be housed in a panel mounted on the generating set.



Optional Location B

The local control module can be mounted in the generating set acoustic enclosure.



Generating Set Output Options

MCCB with External Power Socket, Moulded Case Circuit Breaker with female external power socket and IP56 protection.

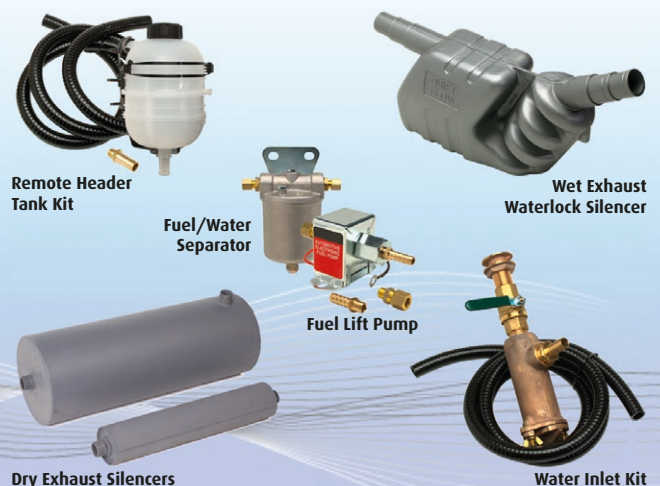
Illustrated is a generating set base frame mounted MCCB with 32 Amp output socket, other Amp rated sockets and mounting positions are available.

Optional for all BetaSet-BetaGen models. Image is for illustrational purposes and not necessarily representative and will vary by generating set selection and customer requirements.



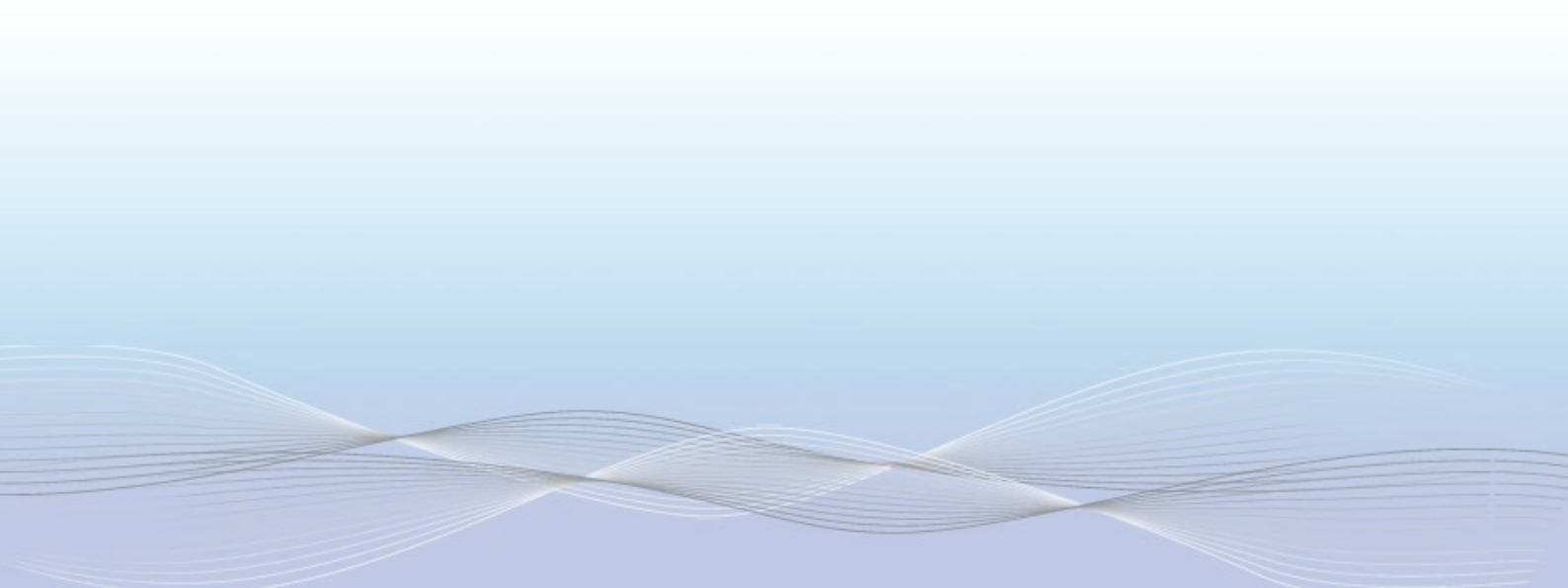
Installation Options

Beta Marine offer a comprehensive range of accessories to support your generating set installation with solutions available to cover all needs; engine, fresh & seawater management, additional or remote, lubrication, filtration, dry or wet exhaust components. Please request a relevant price list or visit our website.



Notes...

Notes...





BETA MARINE

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