



Light, compact and clean power...



3.8BCDT Marine Diesel Generator



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New Environmentally Clean Engine

Meets all EPA and CARB emissions standards. The environmentally friendly engine is also equipped with an oil cooler that insures proper engine lubrication and cooling in installations with high ambient air and cooling water temperatures.

Compact for Tight Installations

The new 3.8BCDT is powered by a one-cylinder diesel engine and is designed for optimum performance where space is limited. Its compact design allows it to be installed in spaces most generators can't fit while providing enough power to run our 17,000 BTU Rotary Aire marine air conditioner.

Water Cooled AC Generator

The AC generator is enclosed in a water-cooled stainless steel jacket. This allows the 3.8BCDT greater sound deadening since larger openings in the sound shield are no longer required for air-cooling. The water-cooled jacket is oversized which eliminates blockages and provides a maximum flow of cooling water around the generator. The water jacket also cools the air going through the rotor of the generator, the engine combustion air and the unit-mounted controls for the engine and generator.

User Friendly Remote Control Panel

The standard plug-in remote control panel is designed to be user friendly and provides the operator with all the necessary information and controls to use the generator. The panel includes one-touch start/stop controls, automatic shutoffs with indicating lights for low oil pressure and high engine temperature, a battery charge indicator light and an AC load indicator.

Redesigned, Quieter Sound Enclosure

The sound guard is recently redesigned with an added layer of insulation to further diminish sound. The sound enclosure is constructed of fiberglass lined with high-density acoustic insulation for optimum sound reduction. A double mounting system, engineered for maximum vibration isolation, is incorporated in the sound enclosure.

Standard Features

- Water-cooled AC electrical generator
- Fiberglass sound enclosure
- Preinstalled bulkhead connectors and fittings
- Remote control panel with 32.8ft (10meter) plug-in cable
- LED electrical load indicator on panel
- One touch start/stop control system
- Low oil pressure shutdown with indicating light
- High temperature shutdown with indicating light
- Battery charge circuit failure indicating light
- 12 Volt DC isolated ground electrical system
- Double anti-vibration mounting system
- Stainless steel water-cooled exhaust manifold & elbow
- Engine oil cooler
- Gear-driven, raw water pump with neoprene impeller
- Engine air cooler and intake silencer
- Fuel filters before and after fuel lift pump
- Lubricating oil change pump
- Decompression device
- Hand crank for emergency starting
- Engine hour meter
- "CE" Mark
- U.S. EPA and CARB certified exhaust emissions
- Ignition protected
- Meets U.S.C.G. regulation 33CFR-183
- Operators'/technical/parts manual

Generator Design

DESIGN: Brushless, two pole, revolving field
VOLTAGE REGULATION: Standard +/- 7% no load to full load.
FREQUENCY REGULATION: 3 Hz (5%) no load to full load.
INSULATION: Class "H", as defined by NEMA MG1-1.66.

TEMPERATURE RISE: Within NEMA MG1-22.40 when operating a full load.
COOLING: Water cooled.
ELECTROMAGNETIC INTERFERENCE LEVEL: Exceeds requirements for most marine radio-telephones and standard TVs.

Model	Electrical Characteristics					Continuous Ratings		Engine	
	Volts	Amps	Hertz	Phase	Wire	Power Factor	KW	RPM	Start
3.8 BCDT-612	120	31.7	60	1	2	1.0	3.8	3600	Remote
3.5 BCDT-512	230	15.2	50	1	2	1.0	3.5	3000	Remote

Specifications

Number of cylinders	1 Cylinder vertical in-line
Type	4 cycle
Displacement	17.7 cu. in. (0.29 liter)
Bore and stroke	3.23" x 2.17" (82.0mm x 55.0mm)
Compression ratio	20:1
Rated rpm	60 Hz - 3600 rpm 50 Hz - 3000 rpm
Maximum angle of operation	Not to exceed 25° in all directions
Exhaust elbow connection	1 1/2" ID (38.1 mm)
Raw water connection	1/2" ID (12.7 mm)
Dry weight w/sound guard	183.0 lbs. (83.0 kilos)
Combustion system	Direct injection

Lubrication system	Forced pump
Cooling system	Water cooled engine
Full load fuel consumption	0.43 GPH (1.63 LPH) (approx.)
Governor	Mechanical
Lubricant capacity	0.33 U.S. Gal. (1.25 liters)
Fuel transfer pump	Mechanical
Fuel supply piping	5/16" ID (7.9 mm)
Fuel return piping	5/16" ID (7.9 mm)
Starting motor	12 volt, solenoid actuated
Battery charging	10 amps
Cold cranking amps	76 amps at 70 degrees F
Electrical system	12 volts DC, isolated ground

Construction - Engine Components

Cylinder head	Cast Iron
Cylinder block	High strength light alloy
Valves	Rotocap® exhaust valves
Fuel System	Bosch
Exhaust manifold	Stainless steel with water-cooled jacket

Optional Equipment

Distributor/Dealer

- Anti-siphon valve
- Muffler

Dimensions

Inches
(millimeters)

