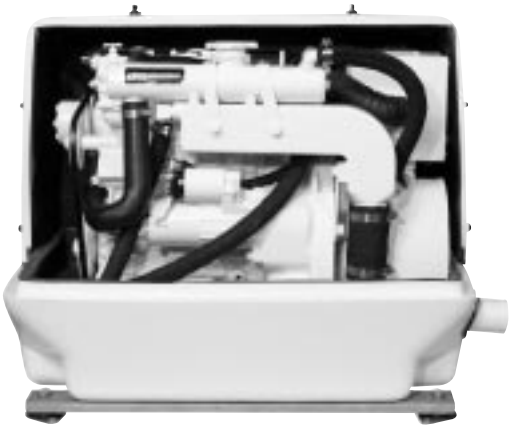
8 kilowatts, absolutely compact, absolutely quiet...



8BCDT Marine Diesel Generator

Compact for Tight Installations

The new 8BCDT is powered by a compact, two-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!*

Designed for Quiet Running

The engine is designed with indirect injection for quieter engine operation. 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.

Water Cooled AC Generator

The AC generator is enclosed in a water-cooled stainless steel jacket. This allows the 8BCDT greater sound deadening since large openings in the sound shield are not 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.

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.

8BCDT Marine Diesel Generator

Standard Features

- Water-cooled AC electrical generator
- Fiberglass sound enclosure
- Remote control panel with 32.8ft (10 m) 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
- Engine oil cooler
- Gear driven raw water pump with neoprene impeller
- Engine air cooler and intake silencer
- Engine hour meter
- "CE" Mark
- U.S. EPA and CARB certified exhaust emissions
- Operators' and parts manual

Standard 8BCDT Sound Guard

Sound Guard Dimensions

Length	28.3" (717.6 mm)
Width	19.0" (482.6 mm)
Height	23.8" (605.3 mm)
Weight	85 lbs. (38.6 Kilos)

WESTERBEKE™
Engines & Generators

Generator Design

DESIGN: Brushless, two pole, revolving field.
VOLTAGE REGULATION: Standard +/- 6% no load to full load.
FREQUENCY REGULATION: 3 Hz (5%) no load to full load.
INSULATION: Class "H", as defined by NEMA MG1-1.65.

TEMPERATURE RISE: Within NEMA MG1-22.40 definition when operating at full load.
COOLING: Water cooled.
ELECTROMAGNETIC INTERFERENCE LEVEL: Meets EMC directive 89/336/EEC, amended by 92/31/EEC and 93/68/EEC

	Electrical Characteristics					Ratings		Engine	
Model	**Volts**	**Amps**	**Hertz**	**Phase**	**Wire**	**Power Factor**	**KW**	**RPM**	**Start**
8 BCDT-614	**120**	**66.7**	**60**	**1**	**4**	**1.0**	**8**	**3600**	**Remote**
7 BCDT-514	**230**	**30.4**	**50**	**1**	**4**	**1.0**	**7**	**3000**	**Remote**

Generator field adjustable to 50 or 60 Hz.

Specifications

Number of cylinders	2 Cylinder vertical in-line
Type	4 cycle
Displacement	38.75 cu. in. (0.635 liter)
Bore and stroke	2.99" x 2.76" (76 mm x 70 mm)
Compression ratio	23:1
Rated rpm	60 Hz - 3600 rpm 50 Hz - 3000 rpm
HP @ 3600/3000 rpm	15.2/13.5
Maximum angle of operation	25˚ Continuous, 30˚ Intermittent
Exhaust elbow connection	2.0" OD (50.8mm)
Raw water connection	.75" OD (19.1mm)
Dry weight (Including Soundguard)	408 lbs. (185.1 kilos)
Combustion system	Swirl type
Aspiration	Naturally aspirated
Lubrication system	Forced lubrication by gear pump
Coolant capacity	2.1 qts. (1.91 liters) approx.
Starting aid	12 volt sheathed type glow plug
Full load fuel consumption	1.08 GPH (4.09LPH) @ 3600 rpm 0.87 GPH (3.29 LPH) @ 3000 rpm
Fuel injection pump	Bosch type
Governor	Centrifugal type
Injectors	Throttle type
Fuel Filter	Secondary, replaceable type
Lube oil filter	Full flow, spin-on element
Fuel supply and return piping	1/4" ID (6.35 mm) minimum 3/8" ID (9.53 mm) maximum
Fuel transfer pump	12 Volt DC electric type
Lubricant capacity	3.1 quarts (2.9 liters)
Starting motor	12 volt, solenoid actuated
Battery charger	17 ampere (12 Volts)
Cold cranking amps	172 amps @ 80 degrees F
Electrical system	12 volts DC, negative ground

Construction – Engine Components

Cylinder head	Cast Iron
Cylinder block	Cast Iron
Crankshaft	Forged crankshaft, three main bearings
Valves	Overhead, rotating type
Fuel System	Self-bleeding
Intake system	Tuned intake silencer for maximum noise reduction
Cooling system	Fresh water-cooled with shell and tube type heat exch.
Exhaust manifold	Cast aluminum, fresh water-cooled

Optional Equipment

- Hydro-hush muffler
- "A" on board spare parts kit; "B" extended cruising spare parts kit
- Anti-siphon valve for overboard cooling discharge water
- Technical manual

Dimensions

Inches (millimeters)