

ENTECC WEST, INC.

Marine Diesel Generator

EW-4200-D



QUALITY PERFORMANCE SERVICEABILITY

Engineered and built in the U.S., the EW-4200-D is the result of over 35 years experience in field installation, service, and customer suggestions.

It is powered by a single cylinder, high power to weight ratio, Farymann Diesel engine. The engine has a roller bearing supported crankshaft and a ball bearing supported camshaft. It meets the Lake Constance II exhaust emission standards. It can be hand crank started in an emergency.

The fresh water cooling system cools the engine cylinder, cylinder head, the Entec West designed oil cooler, and the Entec West designed generator. A fresh water to sea water heat exchanger prevents sea water from contaminating the engine and generator.

The unit does not require any outside air for cooling.

The control system includes an automatic shutdown system for low oil pressure, high engine coolant temperature, and high exhaust manifold temperature (lack of sea water flow).

A special feature includes pre-flooding the engine bearings with lubrication before the engine starts.

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SYSTEMS SPECIFICATIONS

RATING: 4.2 kilowatts A.C.
VOLTAGE: 120 volts
VOLTAGE REGULATION: ±5%
CURRENT: 35 amps
FREQUENCY: 60 Hz (cycles)
FREQUENCY REGULATION: ±1.2%

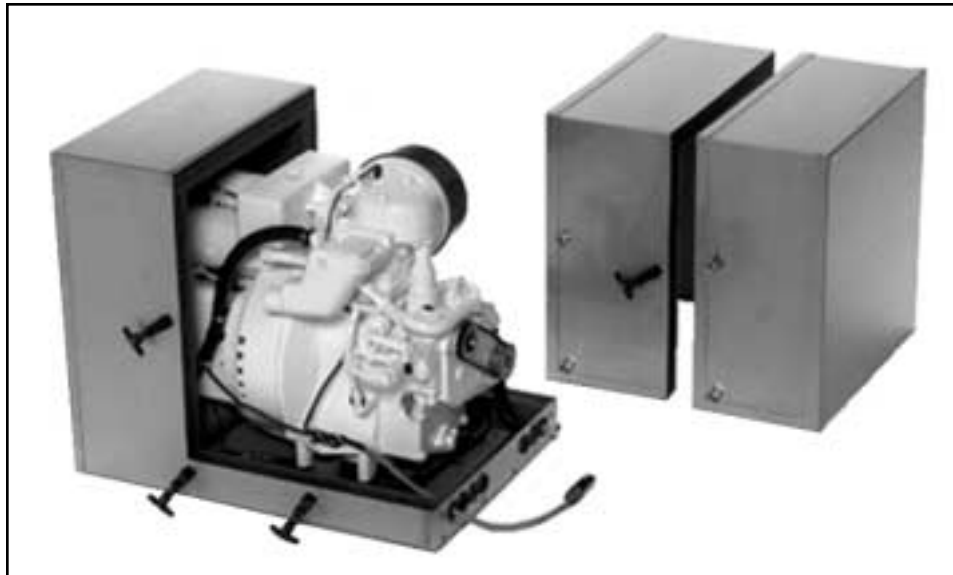
MOTOR STARTING ABILITY: 16,000 BTU air conditioner, and a second unit rated at 12,000 BTU

COOLING SYSTEM: thermostatically controlled fresh water, closed loop, including engine cylinder, cylinder head, engine oil cooler, and generator.

HEAT EXCHANGER: U.S. made cupronickel tube bundle with removable end caps for cleaning.

ENGINE COOLANT: the unit is pre-charged with a mixture of fresh water, permanent anti-freeze, and water soluble oil

SAFETY SYSTEM: automatic shutdown for low oil pressure, high engine coolant temperature, and exhaust cooling failure



FUEL CONSUMPTION: .4GPH (1.5L) at 30 amps
REMOTE ENGINE CONTROL PANEL: pre-wired control panel with start/run/stop switch, indicator lamps for oil pressure, water temperature, and exhaust temperature, and running time meter 5" (127mm) X 5" (127mm)
EXTENSION CABLE: 30 foot pre-wired cable with plugs to connect remote panel to unit
ELECTRIC STOP: Entec West designed and built control operates directly on the injection pump delivery system. No fuel starvation valve. No external stop solenoid to get corroded.

WET MARINE EXHAUST: waste sea water is injected into the exhaust manifold below valve level

EXTERNAL FINISH: white & blue, polyurethane enamel, impervious to sea water environment, diesel fuel, and engine oil. All unpainted hardware is stainless steel

WEIGHT: 170 lbs.
DIMENSIONS: 13" (330mm) wide x 20" (628mm) long x 18.5" (470mm) high

ENGINE

FARYMANN DIESEL MODEL 18W: 4 cycle, single vertical cylinder
BORE & STROKE: 3.23" x 2.17" (82mm x 55mm)
DISPLACEMENT: 17.7 cubic inches (.29 liters)
COMPRESSION RATIO: 20:1
FUEL INJECTION: direct, no pre-heat system required
COMBUSTION CHAMBER: cup built into piston for easy starting
INJECTION SYSTEM: Bosch injection pump and injector
FUEL TRANSFER PUMP: camshaft driven mechanical, 72" lift (1.8M) with side mounted priming level
GOVERNOR: crankshaft driven, mechanical centrifugal type
LUBRICATION: engine driven, gear type lube oil pump
OIL COOLER: U.S. made, oil to water heat exchanger to remove excess crankcase heat
AIR CLEANER: combination intake silencer and cleaner with a replaceable cleaner element
STARTING SYSTEMS: 12 volt electric motor, and manual handcrank backup with automatic compression restoration

GENERATOR

EXCITATION: rotating field, self excited through angularly displaced auxiliary winding
ADJUSTMENTS: none
BRUSHES & SLIP RINGS: none
BEARING: pre-lubricated, sealed, ball bearing
INSULATION: class H on rotor, class F on stator
COOLING: fresh water cooled, eliminating the need for external cooling air.
ENGINE CONNECTION: direct coupled to engine flywheel

OPTIONS

SOUND ENCLOSURE: noise reduction to 63 DbA at 1 meter tested by independent lab, 16" (406mm) wide x 23¼" (590mm) long x 20" (508mm) high x 64 lbs. (29 Kg)
SHIP/SHORE PANEL: control panel with ship/shore switch included 5" (127mm) high x 8" (203mm) wide
SHIP/SHORE METERS PANEL: control panel with ship/shore switch, A.C. voltmeter, and A.C. ammeter 8" (203mm) high x 8" (203mm) wide
EW-3500-D: same as above except rated at 3.5 Kw, 50 Hz, 240 volts

Sales and Service:

For further information
Visit us at: entecwest.com

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