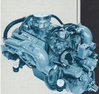
ECONOMY PLUS

If you're looking for economy plus V-8 power . . . look to the Crusader 220. Its 4-barrel carburation provides a happy medium between normal operation and high torque performance on call. Ideal for all new boats and repowering situations in small to medium craft.

Specifications

Cylinders	V-8
Bore	94.99 mm (3.74 in.)
Stroke	88.39 mm (3.48 in.)
Displacement	5.0 liter (305 c.i.d.)
Compression	8.4:1
Electrical System	12V negative ground
Engine Rotation	CW and CCW (Fly Wheel End)
Weight	880 lbs. (direct drive)

220
marine engine
by
Crusader

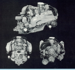


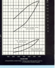
Thermo Electron
CORPORATION

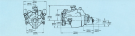
Engine Division
7100 E. 15 Mile Road
Sterling Heights, Michigan 48077
(313) 264-1200

JUL 20 1984

Crusader 220 Marine Gasoline Engine







STANDARD EQUIPMENT

ELECTRICAL SYSTEM
- Three point engine alarm system ■ 12 Volt, negative ground, 55 amp alternator ■ Relay assisted, high torque, marine starter ■ Eight prong quick disconnect engine wire harness ■ Neutral start safety switch

FUEL SYSTEM
- Bundoweld fuel lines ■ Dual diaphragm, high-capacity, mechanical fuel pump ■ High capacity, replaceable element fuel filter ■ USCG approved flame arrestor

COOLING SYSTEM
- Transmission oil cooler ■ Crusader's unique two-pump pressurized thermostatically controlled engine cooling system (specially designed for salt water applications) ■ Brass impeller recirculating water pump

LUBRICATION SYSTEM
- Full flow lube oil filter ■ Positive displacement spur gear, pressure regulated lube pump ■ Large capacity cast aluminum oil pan ■ Alternate dipstick locations with lube oil removal capability

ENGINE MOUNTING
- Six-way adjustable precompressed isolator engine mounts ■ Invertable rear engine supports

EXHAUST SYSTEM
- Directional ported exhaust manifolds for improved engine performance ■ Standard or reverse manifold

MISCELLANEOUS
- Zinc chromate paint primer for improved corrosion resistance ■ Throttle and clutch control brackets ■ Limited one year warranty on parts and labor (see owner's/operator manual for details) ■ Owner's/operator manual ■ Engine shipping skid

AVAILABLE OPTIONS

V-DRIVES
- Crusader — 4500 Series Shaft Driven 12° ■ Warner — Unitized 11° ■ Walters — Unitized 20°

EXHAUST SYSTEM
- "Y" connector ■ Crossover with "Y" connector ■ "S" risers, 4", 8" and 12" ■ Swivel elbows ■ Dry stack exhaust flange

COOLING SYSTEM
- Full fresh water cooling ■ Front or rear mount heat exchanger

ELECTRICAL SYSTEM
- Instrumentation and panels (single and/or dual engine plus single and dual station) ■ Wire harness

MISCELLANEOUS
- Remote mounted oil filter

THE CAPTAIN'S CHOICE

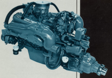
270 marine engine

By **Crusader**

For power, reliability and dependability, the 270 is the hands-down favorite for intermediate size cruisers and houseboats. Its 4-barrel carburation and 350 c.i.d. provide a full power range . . . capable of economy or all-out performance . . . at command.

Specifications

Cylinders	V-8
Bore	101.60 mm (4.00 in.)
Stroke	88.31 mm (3.48 in.)
Displacement	5.7 liter (350 c.i.d.)
Compression	8.8:1
Electrical System	12V negative ground
Engine Rotation	CW and CCW (Fly Wheel End)
Weight	890 lbs. (direct drive)



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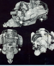
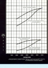
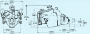
(313) 264-1200

Crusader 270 Marine Gasoline Engine







STANDARD EQUIPMENT

ELECTRICAL SYSTEM

• Three point engine alarm system • 12 volt, negative ground, 58 amp alternator • Relay assisted, high torque, marine starter • Eight prong quick disconnect engine wire harness • Neutral start safety switch

FUEL SYSTEM

• Bundywell fuel lines • Dual diaphragm, high capacity, mechanical fuel pump • High capacity, replaceable element fuel filter • USCG approved flame arrestor

COOLING SYSTEM

• Transmission oil cooler • Crusader's unique two-pump pressurized thermostatically controlled engine cooling system especially designed for salt water applications • Brass impeller recirculating water pump

LUBRICATION SYSTEM

• Full flow lube oil filter • Positive displacement spur gear, pressure regulated lube pump • Large capacity cast aluminum oil pan • Alternate dipstick locations with lube oil removal capability

ENGINE MOUNTING

• Six way adjustable precompressed isolator engine mounts • Insertable rear engine supports

EXHAUST SYSTEM

• Directional ported exhaust manifolds for improved engine performance • Standard or reverse manifold

MISCELLANEOUS

• *Zinc chromate paint primer for improved corrosion resistance* • *Throttle and clutch control brackets* • *Limited one year warranty on parts and labor (see owner's/operator manual for details)* • *Owner's/operator manual* • *Engine shipping skid*

AVAILABLE OPTIONS

V-DRIVES

• Crusader — 4500 Series Shaft Driven 12° • Warner — Unitized 15° • Walters — Unitized 20°

EXHAUST SYSTEM

• "Y" connector • Crossover with "Y" connector • "S" risers, 4", 8" and 12" • Swivel elbows • Dry stack exhaust flange

COOLING SYSTEM

• Full fresh water cooling • Front or rear mount heat exchanger

ELECTRICAL SYSTEM

• Instrumentation and panels (single and/or dual engine plus single and dual station) • Wire harness

MISCELLANEOUS

• *Remote mounted oil filter*

Printed in U.S.A.

TOP OF THE LINE POWER AND PERFORMANCE

350

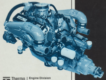
marine engine

By **Crusader**

The big 350 . . . with its 4-barrel carb providing optimum torque on command . . . is the ultimate Crusader choice for big cruisers, houseboats and high performance craft. Ruggedly constructed for long, dependable service, the 350 operates efficiently on two barrels for normal cruising.

Specifications

Cylinders	V-8
Bore	107.95 mm (4.25 in.)
Stroke	101.68 mm (4.00 in.)
Displacement	7.4 liter (454 c.i.d.)
Compression	8.6:1
Electrical Systems	12V negative ground
Engine Rotation	CW and CCW (Fly Wheel End)
Weight	1158 lbs. (direct drive)



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CORPORATION

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7138 E. 15 Mile Road
Sterling Heights, Michigan 48077
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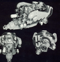
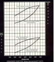
Crusader 350 Marine Gasoline Engine





ATMOSPHERIC CONDITIONS:

STANDARD EQUIPMENT

ELECTRICAL SYSTEM
- Three point engine alarm system • 12 Volt, negative ground, 50 amp alternator • Relay assisted, high torque, marine starter • Eight prong quick disconnect engine wire harness • Neutral start safety switch

FUEL SYSTEM
- Bundyweld fuel lines • Dual diaphragm, high capacity, mechanical fuel pump • High capacity, replaceable element fuel filter • USCG approved flame arrestor

COOLING SYSTEM
- Transmission oil cooler • Crusader's unique two-pump pressurized thermostatically controlled engine cooling system (specially designed for salt water applications) • Brass impeller recirculating water pump

LUBRICATION SYSTEM
- Full flow lube oil filter • Positive displacement spur gear, pressure regulated lube pump • Large capacity cast aluminum oil pan • Alternate dipstick locations with tube oil removal capability

ENGINE MOUNTING
- Six-way adjustable precompressed isolator engine mounts
- Invertable rear engine supports

EXHAUST SYSTEM
- Directional ported exhaust manifolds for improved engine performance • Standard or reverse manifold

MISCELLANEOUS
- Zinc chromate paint primer for improved corrosion resistance
- Throttle and clutch control brackets • Limited one year warranty on parts and labor (see owner's/operator manual for details)
- Owner's/operator manual • Engine shipping skid

AVAILABLE OPTIONS

V-DRIVES
- Crusader — 4500 Series Shaft Driven 12° • Warner — Unitized 15°
- Walters — Unitized 20°

EXHAUST SYSTEM
- "Y" connector • Crossover with "Y" connector • "S" risers, 4", 8" and 12" • Swivel elbows • Dry stack exhaust flange

COOLING SYSTEM
- Full fresh water cooling • Rear mount heat exchanger

ELECTRICAL SYSTEM
- Instrumentation and panels (single and/or dual engine plus single and dual station) • Wire harness

MISCELLANEOUS
- Remote mounted oil filter

Printed in U.S.A.

NOW... TOMORROW'S POWER IS HERE TODAY!

Fuel efficient. Compact. Powerful. The inboard V-6, available only from Crusader, is truly a perfect balance between economy, size and power. Designed for the captain who wants fuel efficiency but demands power, the Crusader V-6 represents a major advancement in marine powering at just the right price!

V-6

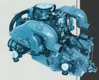
marine engine

By Crusader

CEMBERCI

Specifications

Cylinders	6-90° V
Bore	94.89mm (3.736 in.)
Stroke	88.39mm (3.480 in.)
Displacement	3.76 Liters (229 cu. in.)
Compression	8.56:1
Electrical System	12 V Negative Ground
Engine Rotation	CW and CCW (Fly Wheel End)
Weight	735 lbs. (Direct Drive)



Thermo Electron CORPORATION

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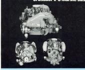
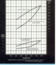
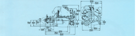
Crusader V-6 Marine Gasoline Engine







STANDARD EQUIPMENT

ELECTRICAL SYSTEM

- Three point engine alarm system • 12 Volt, negative ground, 50 amp alternator • Relay assisted, high torque, marine starter • Eight prong quick disconnect engine wire harness • Neutral start positive safety switch

FUEL SYSTEM

- Bundyweld fuel lines • Dual diaphragm, high capacity, mechanical fuel pump • High capacity, replaceable element fuel filter • USCG approved flame arrestor

COOLING SYSTEM

- Transmission oil cooler • Crusader's unique two-pump pressurized thermostatically controlled engine cooling system (specially designed for salt water applications) • Brass impeller recirculating water pump

LUBRICATION SYSTEM

- Full flow lube oil filter • Positive displacement spur gear – pressure regulated lube pump • Large capacity cast aluminum oil pan • Alternate dipstick locations with lube oil removal capability

ENGINE MOUNTING

- Six-way adjustable precompressed isolator engine mounts • Invertable rear engine supports

EXHAUST SYSTEM

- Directional point exhaust manifolds for improved engine performance • Standard or reverse manifold

MISCELLANEOUS

- Zinc chromate paint primer for improved corrosion resistance • Throttle and clutch control bracket • Limited one year warranty on parts and labor (see owner's/operator manual for details) • Owner's/operator manual • Engine shipping skid

AVAILABLE OPTIONS

V-DRIVES

- Crusader — 4500 Series Shaft Driven 12° • Warner — Unitized 15° • Walters — Unitized 20°

EXHAUST SYSTEM

- "Y" connector • Crossover with "Y" connector • "S" risers, 4", 8" and 12" • Swivel elbows • Dry stack exhaust flange

COOLING SYSTEM

- Full fresh water cooling • Front or rear mount heat exchanger

ELECTRICAL SYSTEM

- Instrumentation and panels (single and dual engine plus single and dual station) • Wire harness

MISCELLANEOUS

- Remote mounted oil filter

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