# M-35

## **Introducing the Universal B-Series**



#### The Legend Continues

Makers of the world famous Atomic-4 and pioneers in premium marine diesel propulsion, Universal has struck again with its latest release, the Universal B-Series.

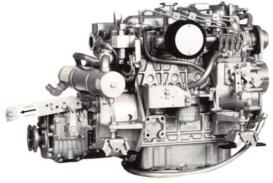
The B-Series is powered by the latest advancements in diesel engine design. Some of the benefits from these advancements include cleaner emissions, reduced noise levels, and increased horsepower at lower RPMs. All B-Series engines are naturally aspirated and deliver high low-end torque. All of which produce some of the most quiet and durable marine engines currently available

If you're looking to replace that aging Atomic-4, the Universal B-Series is still the boaters choice for Atomic-4 replacements\*\*. The M-35B, M3-20B, and M-25XPB offer many similar dimensional characteristics to the Atomic-4, making for a much easier installation.

Univeral holds a large inventory of spare parts for your engine including easy-to-buy spare parts kits, hose kits, and gasket sets tailored to your particular engine. You can obtain all parts as well as technical and customer service through one of more than 70 distributors and 600 dealers worldwide in over 50 countries.

It's easy to see why Universal is as popular today as it was 100 years ago. Stop by your local Universal Distributor or Dealer today to learn more about the latest in Universal Marine Power.

\*\* Universal Atomic-4 replacements are not direct drop-ins in all cases. Some engine compartment reconfiguration may be required.

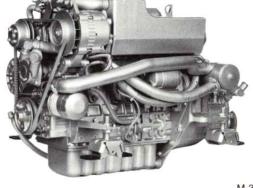


M-35B Diesel Engine

#### **Unit Dimensions**

Length 32.7" (830.6 mm)
Width 18.9" (480.1 mm)
Height 22" (558.9 mm)
Weight 352 lbs. (159.0 kg)

See other side for more dimension information Photographs may show optional equipment.

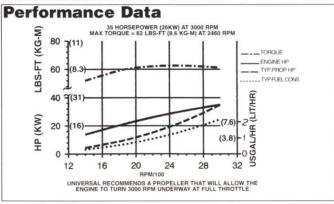


M-35B Diesel Engine

### Many features are standard equipment

- Fresh water cooling
- Engine prewired to plug-in connector
- E-Z bleed fuel system
- 12 volt, 51 ampere alternator
- Coolant recovery tank
- Throttle and shift control brackets
- Low oil pressure and high water temperature alarms
- Gear-driven sea water pump
- Transmission with 1.79:1 reduction
- Glow plug cold starting aid
- Engine matched four point adjustable mounts
- Lube oil drain hose
- Circuit breaker protected electrical system
- Operator's Manual and Parts List
- Large list of factory engineered options





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	Specifications	
ı	Number of cylinders	4 Cylinder vertical in-line
	Cycles	4 Cycle
	Displacement	81.47 cu. in. (1.335 liters)
	Bore and stroke	2.99" x 2.90" (76 mm x 73.6 mm)
	Compression ratio	23:1
	Maximum angle of installation	Not to exceed 14 deg.
	Maximum angle of rotation	Not to exceed 25 deg.
	Crankshaft, direction of rotation	Counterclockwise as viewed from flywheel end
١	Propeller shaft, direction of rotation	
ľ	Dry weight	352 lbs. (159 kg)
	Combustion system	Spherical type
ľ	Aspiration	Naturally aspirated
	Lubrication system	Forced lubrication by gear pump
ľ	Coolant capacity	6.0 qts. (5.6 liters)
ı	Starting aid	12 Volt sheathed type glow plug
Γ	Engine stop	Manual
١	Fuel injection pump	Bosch type
	Governor	Centrifugal type
	Injectors	Throttle type
ľ	Fuel filter	Full flow, spin-on element
l	Lube oil filter	Full flow, spin-on element
Γ	Lubricant capacity	5.44 qts. (5.1 liters)
ı	Fuel transfer pump	Electrical
	Fuel supply and return piping	1/8 " ID (3.18) minimum
		3/8" ID (9.52 mm) maximum
	Starting motor	12 volt, solenoid, actuated shift
	Battery charging alternator	51 ampere (12 volts)
	Cold cranking amps	190 amps
	Electrical system	12 volts DC, negative ground

Construction	on – Engine Components
Cylinder head	Cast iron
Cylinder block	Cast iron
Crankshaft	Forged crankshaft, five main bearings
Valves	Overhead, rotating type
Fuel System	E-Z bleed fuel system
Intake system	Tuned intake silencer for maximum noise reduction
Cooling system	Fresh water-cooled with heat exchanger
Exhaust manifold	Cast aluminum

Standard Equipment	
Standard gear ratio	1.79:1
Mounting centers	11.5", 16.0"
Flexible mounts	Engine matched adjustable fail safe neoprene type
Domestic hot water connection	
Coolant recovery tank	
Battery charging alternator	51 amp, 12 volt
Starting aide	
Control brackets	Throttle and shift
Prewired Engine	
Gear-driven sea water pump	
Lube oil drain hose	
Oil fill	Тор
Circuit breaker protected electrical system	
Operator's Manual and Parts List	

Optional Equipme	nt		
Captain panel with alarm (tachometer with lights)			
Admiral panel with alarms (tachometer with gauges)			
Dual station senders			
Other gear ratios	Consult local Distributor		
Hydraulic transmissions	Consult local Distributor		
Remote expansion tank			
Muffler and fittings			
"A" and "B" on board spare parts kits			
Alternator, 72 amp single output			
Anti-siphon valve for overboard cooling discharge water			
Technical Manual			
Exhaust connection (45 deg., 90 deg. elbows, risers)			
Propeller shaft couplings (rigid/f	lexible) - available standard size		

