

UNIVERSAL DIESEL

Model 12 24.4 CU. IN.

The Universal Diesel, designed and engineered to power the world's finest equipment and small boats, offers the features you want most in an auxiliary diesel engine. Smooth, quiet operation. Over-hauling capacity. Very low fuel consumption. High torque at low RPM. For more pushing power when you need it.

Whether you're operating a tow boat or engineering an "amphibious" site, count on the finest Universal Diesel to get the job done for you.

Features

EXHAUST EQUIPMENT: Fresh water cooling, electric start, anti-back-siphon valve, alternate fuel source, lifting eye, float switch, emergency fuel pump, fuel filter, fuel oil filter and glow plug.

CRANKER BLOCK: Splined crankshaft cast iron for maximum strength and rigidity.

CRANKER HOOD: Marine aluminum shield allows fan with splined combustion chamber for efficient cooling and clean exhaust.

CONNECTING RODS: High grade steel, naturally and mechanically balanced. Lubricated by pressure lubrication system.

PISTON RING: Stamped steel, detachable for inspection and repair.

CRANK MAINSHAFT: Cast iron, fully water protected by fresh water cooling.

FRESH WATER COOLING: Rubber impeller raw water pump with cast iron circulating tank.

OIL SYSTEM: Mechanical fuel injection system for efficient spraying. Fuel filter with replaceable element.

VALVE TRAIN: Full pressure lubrication with full flow system of filter. Performance accessories fabricated. 24V Diesel 2.2 or standard.

GLASS WATER PUMP: Raw water pump with tapered gears and a mechanical friction clutch. Reversing float operating in the container and controlled on the gear. Starting requires only one extra electrical connection. Size of 27. Substituted separately from the engine.



FLEXIBLE MOUNTS: Engine equipped with four extra adaptors including the base of installation and vibration absorber.

ELECTRICAL SYSTEM: 12 volt system standard. Marine size 50 Amp alternator with mechanical regulator. Electric starter with battery for remote starting.

BLOW PLEGS: For water starting and control.

FUEL FILTER IN LINE: High level pressure.

Optional

Full range spare parts on hand. Fuel pump, remote starting, 12V ACP 100W gas, Fuel 1000 fuel.

BENIE MOTOR

Model 12 Diesel
Inlet & Jet Control



UNIVERSAL DIESEL

Model 18 34.8 CU. IN.

The Universal Diesel designed and engineered to meet the world's most difficult and exacting jobs, offers the features you need most in an auxiliary diesel engine. Smooth quiet operation, maintenance economy, long life and construction high torque to low RPM for low speed pulling power when you need it.

Whether you're generating a new load or replacing an "oldtimer" one, look to the finest Universal Diesel for fuel economy and power.

Features

STANDARD EQUIPMENT: Power water cooling, electric start, 24VDC system, air-water cooling, alternator, fuel pump, oil pump, fuel injection transmission, fan pump, full flow water and oil separators, 200 amp. plug.

CLAMP BLOCK: Substantial graphite cast iron for maximum abrasion resistance.

CRANK HEAD: Heavy-duty forged steel with cast oil splash protection chamber for smooth running and clean crank.

CRANKCASE: High-strength cast, internally and externally insulated. Oil-fed for pressure lubrication.

Oil Pan: Stamped steel detachable for inspection purposes.

CRANK MAINFOLD: Cast iron, fully water-jacketed for sea water resistance.

POWER TAIL BE CONNECTION: Rubber injection sea water pump, with vent and connecting pump.

VALVETRIEVE: Heavy fuel injection system for maximum output. Fuel line with replaceable element.

LUBRICATOR: Full positive lubrication with full flow oil pump and filter. Transmission separator lubricated. 200 amp. plug & alternator.

TRANSDUCER: Heavy water pump with helical gears and a mechanical friction clutch. Separating the driving of the propeller with the electric motor gear, thereby separating the electric transducer from the engine.



FLYWHEEL MOUNT: Engine equipped with three or four gear alternators (optional for other voltages) and maximum thrust.

ELECTRICAL SYSTEM: 12 volt system standard. Electric start. Long life alternator with transmission separate. Electric starter with solenoid for remote starting.

SEA WATER PUMP: Sea water cooling pump. 200 amp.

VALVETRIEVE: Fully adjustable for bleeding fuel system or controlling engine speed. 200 amp. plug.

TRANSDUCER MOUNTING: Right hand propeller.

Optional

Maximum power pump out, automatic pump, electric starting, 24VDC high RPM gear.

GENIE MOTOR

Model 1800-1800

1800-1800



Installation dimensions



Dimensions approximate, drawings subject to change.



1/4" Fan mounting options.

specifications

Motor Type	.....	2-Phase
Number of Poles	.....	4-pole
Construction	.....	TEFC, 1/2 hp
Size	.....	1/2 hp
Style	.....	1/2 hp

Continuous Horsepower	.....	1/2 hp (373/100 W)
Approximate	.....	52 mm (2.05 in)
Maximum Installation Height	.....	10"
Frame Design	.....	1/2 hp
Motor Rotation	.....	Right Hand



Note: Torque and input will increase for non-standard volt.

distributed by:



Universal Motors
 10000 1/2 hp (373/100 W) 4-pole 110V 1/2 hp

Specifications subject to modification without notice.

UNIVERSAL DIESEL

Model 25 52 CU. IN.

The Universal Diesel, designed and engineered to power the world's finest generators and other loads, offers the features you want most in an auxiliary power source. Smooth, quiet operation. Oil-burning engine. Two low fuel consumption, high torque at low RPM for those peaking power when you need it.

Whether you're generating a few kw or supplying an "emergency" site, count on the finest, Universal Diesel for fuel...there's no equal.

Features

EXHAUST SYSTEM Fresh water cooling, electric start with glow, low water pump, automatic fire shutoff, air-purge, flame retardant transmission, bypass, full flow fuel oil filter, shockproof engine stop.

EXHAUST BLOCK Integral graphite cast iron for maximum vibration dampening.

CLAMP HEAD Marine chlorine metal alloy free with optional aluminum shrouds for smooth running and clean output.

CLAMP SHAFT High grade steel, electrically and chemically insulated. Covered by protective insulation.

OIL PAN Shrouded steel. Removable for inspection and service.

EXHAUST MANIFOLD Cast iron, fully water jacketed for low water resistance.

WATER PUMP Marine impeller and water pump with anti cavitation pump.

FUEL FILTER Mesh fuel injection system for maximum capacity. Fuel filter with independent bypass.

LUBRICATION Full-flow lubrication system with 12 liter oil pan on top. Transmission assembly lubricated. 24V. Service 200 cc equivalent.

EXHAUST Cast iron pipe with helical gear and mechanical motor clutch. Permitting free shifting of the propeller with no effect on low gear. Shifting requires very little effort. Standard reduction ratio of 4:1. Lubricated separately from the engine.



RUMBLE BOARD Engine equipped with three or four point adjustable mounting for ease of installation and maximum vibration.

ELECTRICAL SYSTEM 12 volt system standard. Marine type 15 Amp alternator - non-maintenance regulator, electric starter with solenoid for remote starting.

GLIDE FOOT For easy starting and steering.

RECOMMENDATION Always installed in circulating water system to maximize engine life and output.

EXHAUST SYSTEM Right hand propeller.

Optional

Custom gear sets to instrument vessels. Flexible mounting. 200 Amp 12 Volt generator.

DEMIE MOTOR

Model 25 470-1100

Circle 11 on Reader Service



UNIVERSAL DIESEL

Model 30 68 CU. IN.

The Universal Diesel, designed and engineered to power the world's finest outdoor equipment, offers the highest air-to-fuel ratio in an engine, direct injection, turbo, air operation, 100% burning oil, low fuel consumption, high torque at low RPM, low fuel-pumping power, and low heat.

Whether you're generating a new heat or replacing an "expensive" one used in the past, Universal Diesel is the "New" Diesel engine.

Features

STANDARD EQUIPMENT: Fresh-water cooling, electric start, air filter, air-water pump, catalytic, the turbo, air pump, multi-rotation compressor, fuel pump, fuel filter, fuel air filter, air compressor, and air pump.

CRUMBER-ROCK: Spherical graphite cast iron for maximum vibration dampening.

CRUMBER-ROCK: Spherical graphite cast iron with special cylindrical chamber for smooth firing and lower noise.

CRUMBER-ROCK: High grade steel cylinder and specially designed skirt for maximum lubrication.

SKIRT-ROCK: Specially cast, skid-resistant, low-noise, low-vibration.

CRUMBER-ROCK: Cast iron, full water cooled for air-water resistance.

CRUMBER-ROCK: Rubber injection air-water pump, with cast air-cooling pump.

SKIRT-ROCK: Multi-rotation pump for maximum torque, fuel flow, and maximum output.

CRUMBER-ROCK: Full pressure lubrication for full power at low, maximum capacity, maximum torque.

CRUMBER-ROCK: Two-stage gear with long-life and a mechanical friction shaft, minimizing the amount of the power that is used in the gear.

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CRUMBER-ROCK: Engine equipped with three of the most advanced bearings for wear protection and maximum power.

CRUMBER-ROCK: 12 volt system standard. Marine type 12-volt alternator with mechanical regulator, electric start with automatic battery-charging.

CRUMBER-ROCK: 12-volt 4-pole, 12-volt starting motor, 12-volt 4-pole, 12-volt generator for starting fuel system or starting engine shaft before use.

CRUMBER-ROCK: High speed generator.

Optional

Universal spare parts in instrument panel, fuel pump, cooling, 12-volt 4-pole 12-volt gear.

DEALER LIST

Universal 12-volt 4-pole 12-volt gear
12-volt 4-pole 12-volt gear



UNIVERSAL DIESEL

Model 40 91 CU. IN.

The Universal Diesel, designed and engineered to power the world's most advanced construction work, offers the highest and most durable in-cylinder diesel engine performance available. "Clean burning" design, low fuel consumption, high torque at low R.P.M. for easy starting power and low noise level.

Whether you're operating a generator or a "generator" you build on the back, Universal Diesel has the...there to be seen.

Features

STEERING EQUIPMENT Fresh water cooling, electric fuel control, low cost water pump, alternator, fan, electric charge, maintenance-free batteries, fuel pump, full flow filter, oil filter, decompressor, and more parts.

CYLINDER BLOCK Spherical graphite cast iron for maximum strength and rigidity.

CRANKCASE Marine stainless steel alloy case with optional stainless steel for smooth running and low noise.

CRANKSHAFT High grade steel, vertically and horizontally balanced, direct fit-pressure lubrication.

VALVE TRAIN Non-pressure lubrication for maximum strength.

EXHAUST MANIFOLD Cast iron, fully water cooled for low water resistance.

WATER PUMP www.universal-diesel.com Rubber impeller seawater pump, with automatic purging pump.

VALVE SPRING Special high-tensile springs for maximum strength. Titanium and stainless steel.

ROCKERSHAFES Full pressure lubrication with full flow protection. High tensile stainless steel. Minimum 3000 RPM and 1000 ft. per minute.

TRANSDUCERS Top center gear with helical gear and a mechanical friction clutch. Prevents free churning of the generator when in effect on the gear. Working pressure only, stress proof. Standard condition size P-11. Lubrication independent from bearings.



EXHAUST SYSTEM Engine equipped with three or four pipe systems including full flow of maintenance free minimum torque.

FUEL SYSTEM 2" fuel system standard. Marine grade fuel filter assembly with mechanical bypass. Electric filter will protect for engine starting.

VALVE ROCK Full flow nitrogen seal system.

DECOMPRESSION Manually operated for starting but automatic operating engine start function on load.

EXHAUST AIR FILTERS High flow, long life.

Optional

Electric water pump kit, non-maintenance flexible coupling, 42" high voltage gear.

GENIE MOTOR

Model 40-1000
Scale to Size 2000



Installation dimensions



Dimensions approximate, drawings are not to scale.

173 Series motor options

specifications

Supply Type	.....	4	quadr.
Number of Poles	.....	2	or 4
Construction	.....	IP 54	or IP 65
Size	.....	100	mm
Speed	.....	1425	rpm
Power	.....	0.5	kW

Continual Horsepower	.....	0.5	hp
Efficiency	.....	70	%
Maximum Instantaneous Angle	.....	120	deg
Supply Voltage	.....	230	Vac
Proposed Rotation	Right Hand	



Note: Propeller load with 100mm fan (not shown) 100mm dia.

distributed by:



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