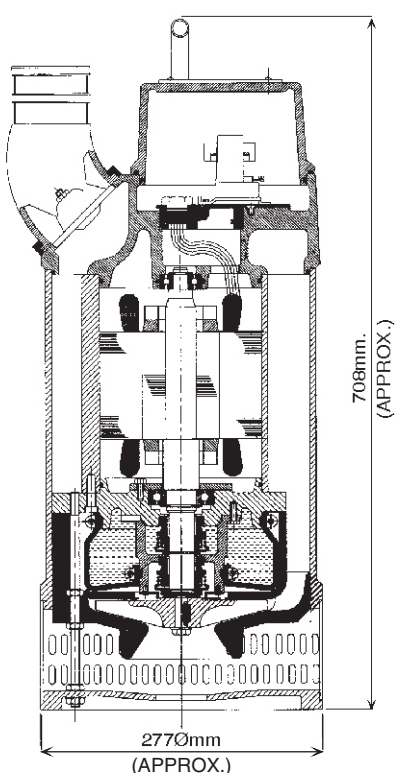


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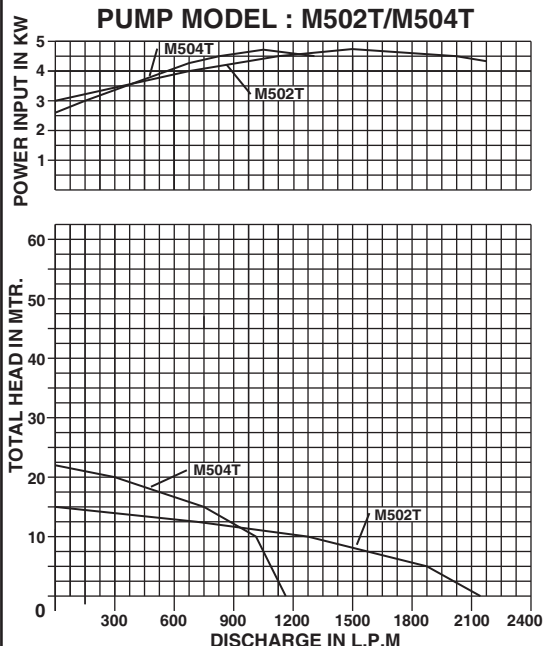
ELECTRIC SUBMERSIBLE DRAINAGE PUMP

M-500 SERIES 5 HP



5 HP PERFORMANCE CURVE

PUMP MODEL : M502T/M504T



M-500 SERIES

MATERIAL OF CONSTRUCTION AND ENGINEERING DATA

MOTOR (DOL-START)

2-Pole Induction Continuous rated motor with squirrel cage rotor.
Stator insulation class 'F' (155°C)
Speed : 2,850 RPM (approx.)
Power Rating : 3.7 KW
Current : 7.8 Amps at 415 Volts
Max. temperature of the pump liquid : 40°C
Max. start/stop per hour : 15

POWER SUPPLY

415 V ± 6%, 3 Phase, 50Hz ± 3% A.C. Supply. The pump is equipped with built in contactor which trips at excessively high motor temperature through the bimetallic switches in the winding. All models are also available for any combination of voltage and frequency on special request.

BALL BEARINGS

The rotor shaft is carried in two single row, deep groove ball bearings. The bearings are filled with high temperature grease containing special anti-corrosive additive ensuring no maintenance required for life.

POWER CABLE

Water proof / Oil proof, PVC insulated, double sheathed, copper conductor flexible cable 20 mtrs. length, of size 4core 2.5 sq. mm. The cable is fitted with a strain relief grip.

SHAFT SEAL

Twin mechanical seals in tandem. Seal faces of Tungsten carbide v/s Tungsten carbide ensuring long life between service intervals and are wholly enclosed in a pressure compensated oil chamber.

MATERIAL OF CONSTRUCTION

Outer Casing : Aluminium Alloy. (Also available in SS 304)
Stator Casing : Extruded Aluminium.
Rotor Shaft : SS 431
Impeller : SS 410 (ASTMA 217 Gr CA 15) Also available in SS 304 (ASTMA351 GrCF8).
Diffuser & wear plate : Nitrile Rubber moulded.
Strainer : MS Zinc plated with 25 mm x 6 mm rectangular holes (Also available in SS 304)
Hardware : SS 304

SUBMERGENCE

Submergence below liquid surface min 80 mm, max. 15 mtrs.

WEIGHT M502T/M504T

Without cable : 55 kg.

Pump is painted with epoxy coating with surface treatment for long life
(OPTIONAL ITEMS LISTED ARE AVAILABLE AT EXTRA COST)

Due to product development, specifications may be subject to change without notice.

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ELECTRIC SUBMERSIBLE DRAINAGE PUMP

M-500 SERIES

The pumps are portable & are intended to be used for pumping of water from :

- Construction sites
- Open sumps
- Trenches
- Tunnels
- Mines
- Shipyards & ships
- Power station
- Public utility works
- Water supply
- Fire fighting
- Flooded Cellar
- Aquaculture

Model M-502 T

Outlet : 4" HOSE (FLANGE / BSPT OPTIONAL)
(High Volume - Low Head)

Model M-504 T

Outlet : 4" HOSE (FLANGE / BSPT OPTIONAL)
(Medium Volume-Medium Head)

Also Available : 1.5 hp TO 35 hp



M-500 DESIGN ADVANTAGES

- Built-in automatic ON / OFF / ON thermal switches to protect the motor. Thermal Protectors wired directly to built-in contactor for maximum reliability.
- Can be equipped with moisture sensor that detects progressive seal wear and automatically shuts down the pump (Optional).
- Motor is in dry winding, leading to:
 - a) Better efficiency/lower power consumption.
 - b) Light weight/compact design, giving better portability.
 - c) Better temperature rise characteristics.
- Centrifugal cast outer casing giving superior aesthetics/high tensile strength.
- Pump can be operated in fully or partially submerged conditions.
- Twin seals in tandem of TC / TC in wholly enclosed pressure compensated oil chamber.
- Field adjustable Nitrile Rubber-lined Diffuser / Wear Plate to optimize the efficiency throughout the life of the pump.
- SS 431 shaft for high tensile strength and better magnetic properties.
- SS 410 (ASTMA217 Gr CA15) hardened impeller for abrasive applications.
- SS 304 (ASTMA351 Gr CF8) Impeller for sea water/corrosive applications.
- SS 304 hardware for maximum corrosion resistance.
- Can be equipped with sacrificial zinc anodes for maximum life in a saline environment as well as an in-built non return valve or water level controller (optional).



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