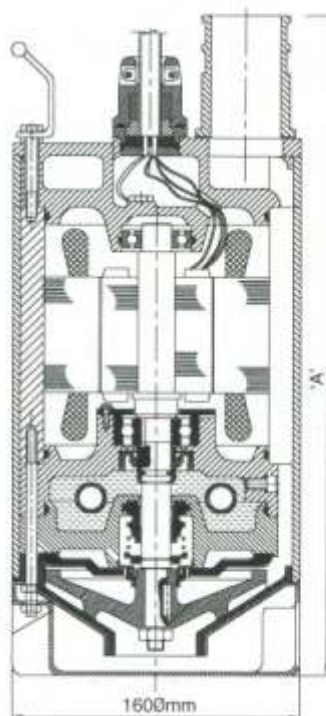


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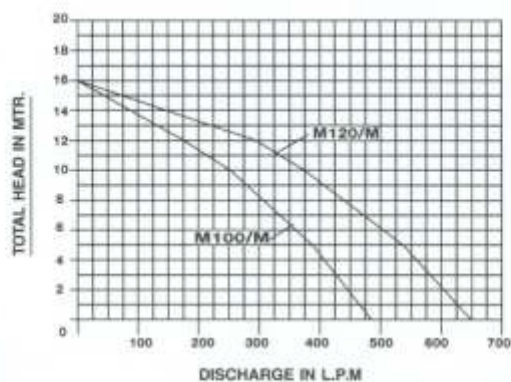
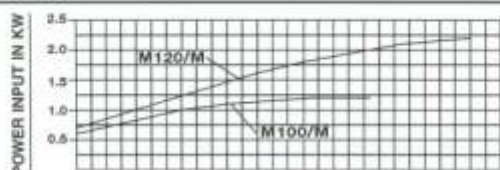
ELECTRIC SUBMERSIBLE DRAINAGE PUMP

M-100/120 SERIES 1.5HP/2HP



Model	A
M 100 M	382mm
M 100 S/M	407mm
M 120 M	465mm

1.5HP/2HP PERFORMANCE CURVE



M-100/120 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 : 2,800 RPM (Approx.)
 Power Rating : 1.1 K.W. (M 100M / M100 S/M), 1.5 K.W. (M 120M)
 Current : 2.5 Amps (M 100M), 9.5 Amps (M 100S/M), 3.8 Amps (M 120M)
 Maximum temperature of the pump liquid : 40°C.
 Maximum start / stop per hour : 15.

POWER SUPPLY

415 V, 3 Phase, 50 HZ, AC Supply.
 M 100S/M is available in 220V angle phase AC supply with control panel.
 Can also be configured for special voltage and frequency combinations 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-corrosives additive ensuring no maintenance required for life.

POWER CABLE :

Water proof /oil proof ,PVC insulated ,double sheathed ,copper conductor flexible cable of size

- 4core 1.5 sq.mm +2core 1 sq.mm , 15 mtrs. length for model M100 M .
- 4core 1.5 sq.mm +2core 1 sq.mm , 20 mtrs. length for model M120 M .
 [Out of 6 cores , 3 are for power supply ,2 for connection of bi-metallic thermal switches to control panel & 1 for positive earthing.]
- 4core 1.5 sq.mm , 15 mtrs. length for model M100S/M.

SHAFT SEAL :

Outer Mechanical seal of Tungsten carbide v/s Tungsten carbide with a secondary inner lip seal ensures long life between service intervals and are wholly enclosed in a pressure compensated oil chamber.

CORROSION RESISTANT :

Extruded Aluminum Outer and Stator Casing. – Also available in SS. (Optional)
 SS 410 Rotor shaft.
 SS 410 Impeller – Also available in SS 304. (Optional)
 Nitrile rubber moulded Diffuser.

STRAINER :

MS epoxy coated with 6 mm round holes - Also available in SS. (Optional)

SUBMERGENCE :

Submergence below liquid surface min.25 mm , max.10 mtrs.

WEIGHT :	M100 M / M100S/M	M120M
Without cable :	15 / 17 kg.	17 kg.

(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-100/120 SERIES

PORTABLE ELECTRIC
SUBMERSIBLE PUMP
FOR
CORROSIVE & ABRASIVE
APPLICATIONS

Model M-100M/100 S/M
1.5HP
Outlet 2" HOSE
(BSP/Flange Optional)

Model M-120M
2 HP
Outlet 2½" HOSE
(BSP/Flange Optional)

Also Available from 1.5HP to 50HP
in different series



M-100/120 DESIGN ADVANTAGES

- ▶ Built in ON/OFF thermal switches to protect the motor - M100M / M120M (For three phase only)
- ▶ 410 Stainless Steel Shaft, Impeller & 304 SS Hardware for maximum corrosion resistance. 304 SS Strainer Optional.
- ▶ Choice of impeller material :
 - 1) 304 Stainless Steel for sea water and corrosive applications and;
 - 2) 410 Hardened Stainless Steel (HRC 52-55) for abrasive applications.
- ▶ Tungsten Carbide / Tungsten Carbide mechanical outer seal with a secondary inner lip seal.
- ▶ Seals in wholly enclosed pressure compensated oil chamber.
- ▶ Field adjustable Nitrile Rubber lined Diffuser / Wear Plate to (Also available in SS) optimize efficiency throughout the life of the pump.
- ▶ Can be equipped with sacrificial Zinc Anodes for maximum life in a saline fluid environment.

The pump can also be supplied in complete Stainless Steel construction (except elastomers) on request.



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