



ELECTRICAL SUBMERSIBLE SEWAGE PUMP

MS-480 SERIES

**SUBMERSIBLE SEWAGE PUMPS
FOR
STATIONARY WET PIT
INSTALLATION
(P TYPE)
AND
MOBILE WET PIT INSTALLATION (S
TYPE)**

Model MS 481

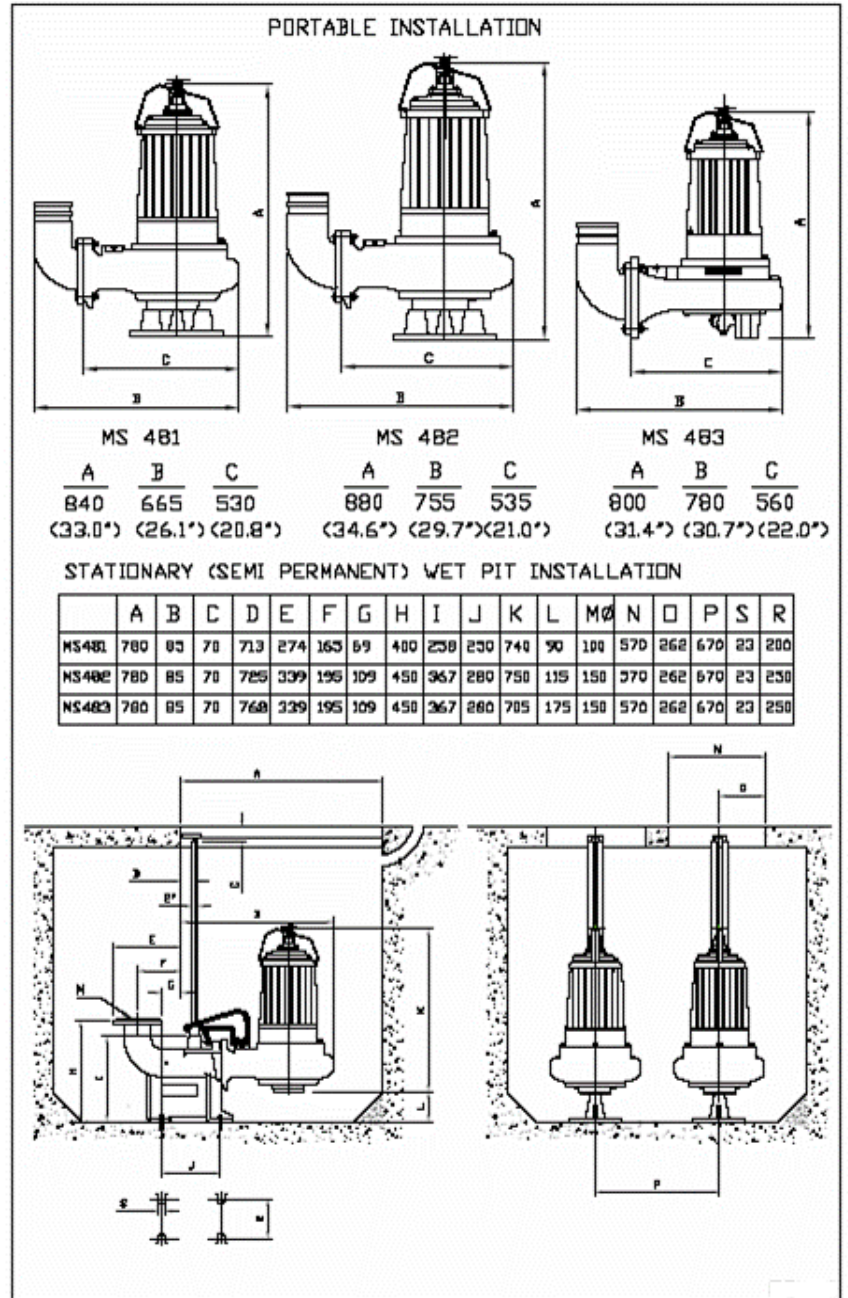
4" (100mm) Hose
(Flange — Optional)
10 HP (7.5Kw)
(Med. Volume - High Head)

Model MS 482

6" (150mm) Hose
(Flange — Optional)
10 HP (7.5Kw)
(High Volume - Med. Head)

Model MS 483

6" (150mm) Hose
(Flange — Optional)
10 HP (7.5Kw) Cutter
(Med. Volume - Med. Head)



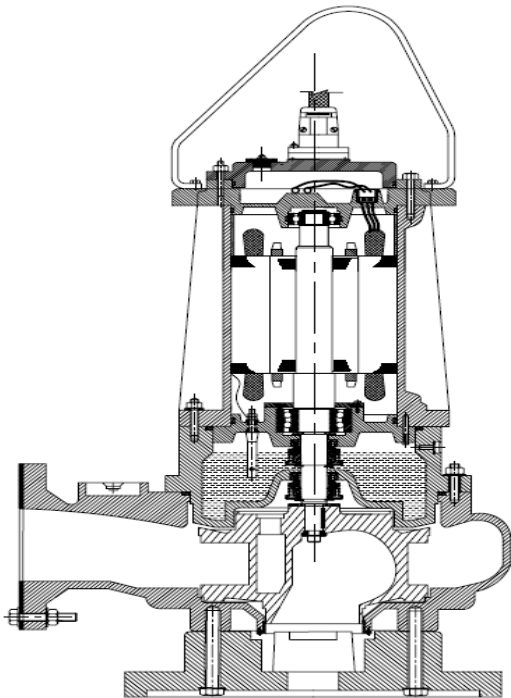
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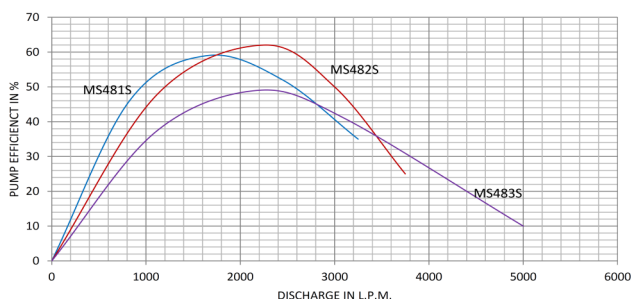
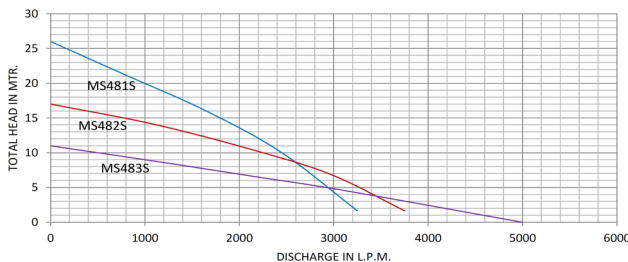
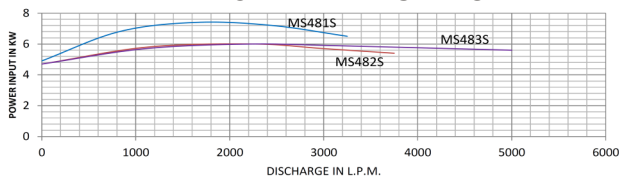


ELECTRICAL SUBMERSIBLE SEWAGE PUMP

MS-481/482/483 10HP(7.5Kw)



PERFORMANCE CURVES



MATERIALS OF CONSTRUCTION AND ENGINEERING DATA

MODEL	MS 481	MS 482	MS 483
HP/Kw	10/7.5	10/7.5	10/7.5
RPM	1450	1450	1450
Max. Amps (415V)	16	16	16
Solids Handling	75 mm	100mm	50mm
Weight - P Type (approx.) Kg	253	268	288
Weight - S Type (approx.) Kg	185	200	220
Impeller Type	Channel	Channel	S - Blade
Max. Temperature of Pumped Fluid:	40°C	40°C	40°C
Max. Starts/Stop Per Hour:	15	15	15
Max. Submergence:	10m	10m	10m

MOTOR

4-pole induction **continuous rated** motor with squirrel cage rotor. Bi-metallic switches (thermals) embedded in stator winding to protect against overheating. Stator insulation class 'H' (180°C)

POWER SUPPLY

3 phase, 50Hz, 415V AC Supply. Also available in any voltage frequency combination.

BALL BEARINGS

The rotor shaft is carried in two ball bearings. Double row angular contact lower bearing is capable of carrying high thrust and radial loads. Upper bearing is a deep groove single row oversized bearing. The bearings are filled with high temperature grease containing special Anti-corrosive additive.

POWER CABLE

Waterproof/oil proof, EPR insulated, single sheathed copper conductor flexible cable fitted with strain relief grip, 15 mtr length of 6 cores [4 core 2.5 sq. mm + 2 core 1 sq. mm.]

SHAFT SEALS

Compact Tandem Tungsten Carbide/Tungsten Carbide Upper & Lower Mechanical seals minimize shaft overhang and deflection, maximizing lead time between service intervals. Inbuilt Moisture sensor available to detect progressive seal wear.

HYDRAULICS

Single Channel Impellers, Hydro dynamically balanced with improved flow pattern contribute to a virtually clog-free pump. Smooth contoured volute design ensuring low head losses.

S-blade impeller : Open type. It consists of an S shaped blade attached to a short hub. Three cutting edges on the periphery of the pump housing inlet effectively prevent long fibers from jamming in impeller. Three scrapers are also provided in the upper part of the pump housing to prevent long fibers winding around the impeller hub.

COOLING

Integral cast cooling fins on motor casing with large surface area ensure efficient heat dissipation and low temperature rise. Shrink fitted stators and short shaft overhang facilitate efficient cooling.

MATERIALS OF CONSTRUCTION

Casing:	Cast Iron ASTM A48 Class 30 (FG 200)
Impeller:	Cast Iron ASTM A48 Class 30 (FG 200)
Shaft:	431 Stainless Steel
Hardware:	304 Stainless Steel
"O" Rings:	Nitride Rubber
Mech. Seals:	TC/TC (Upper & Lower)

SURFACE TREATMENT

Primer with Epoxy and subsequently coated with black choloric paint for max. corrosion resistance.

Due to continuous product development, specifications are subject to change without notice.

MS481/2/3 07-Rev.3