

## Submersible Water Pumps



### Dry Motor Submersible Centrifugal Water Pumps

Raw water | Rain water | River water | Irrigation water  
Drain water | Clear water | Drinking water | Cooling water

**Silently Powerful**

Efficient

Reliable

Revolutionary

  
**RedAx**<sup>™</sup>  
Technology

  
**SubARC**<sup>™</sup>  
Technology

### About KISHOR Submersible pumps :

Being the Pioneers of dry motor submersible pumps in India, KISHOR products range has evolved over the years to cater to the most demanding applications. With experienced hydraulic and electrical design teams, KISHOR products are proven worldwide incorporating the latest technology for efficiency, reliability & easy maintenance. Every product is tested on a modern test facility incorporating variable frequency drives (VFD) & established ISO pump testing standards.

### Product Description :

FLEXI dry motor submersible water pumps are primarily and exclusively designed for pumping water without solid contents. These pumps have high efficiencies, saving energy costs. Wide choice of mounting arrangement is available for these pumps. The modular design offers maximum interchangeability of the parts.

### Industries :

Power stations, Lift irrigation, Air conditioning plants, Industrial & municipal water supply, Water treatment, Fire fighting, Mines, Sprinkler systems.

### Specifications :

- Flow Rate : upto 2000 m<sup>3</sup>/hr (555 lps)
- Head : upto 130 m.l.c
- Pump delivery size : 25 mm upto 250 mm
- Liquid Temperature: upto 45 °C
- Material of construction
  - Casing : CI
  - Impeller : CI, CF8M, CA15
  - Shaft : SS410, SS316
- Cable : Copper conductor PVC insulated cable
- Motor rating : Upto 225 kW (300 hp)
- Power supply : Standard 50Hz, AC, 3 Ø (415V<sup>-10%</sup>)
- Protection & insulation : IP 68, F class
- Maximum submergence : Upto 25 m
- Speed : 2900, 1450, 960 rpm

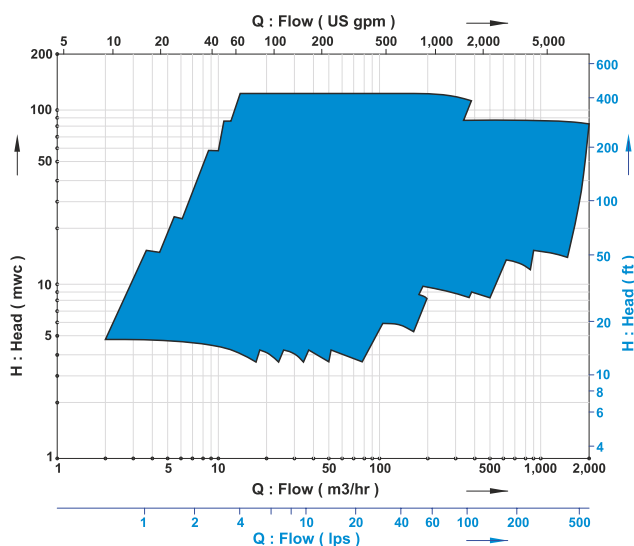
- Longer bearing life & improved seal life
- Improved maintenance



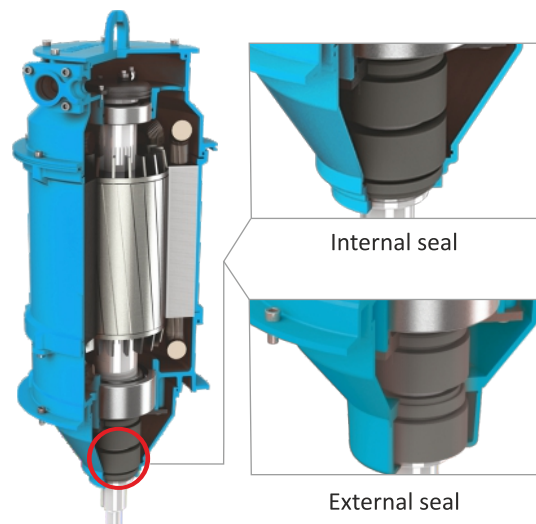
### Optional Features :

- Variety of wear rings for closed impeller
- Option of strainer base mounting
- Adaptability for double guide rail system
- Rubber insulated submersible copper cable
- Motor jacket for low liquid levels
- Class 'H' insulation
- Bearing temperature sensor on request
- Moisture sensor for leakage in stator housing on request
- Dry pit installation
- Roller bearing for upper bearing
- VFD compatible motors

### Hydraulic Range :



### Mechanical Seal Configurations to Suit Application Requirements

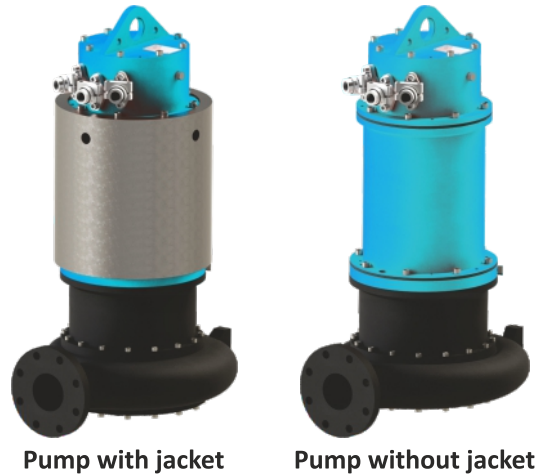


\* Sensors and jacket are optional

**Benefits of Submersible Motor Pumps :**

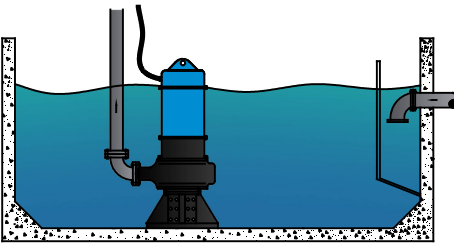
- Silent Pumping
- No priming required
- Lower floor space than coupled pumps
- Highly compact, hence can be ideal for shallow pits
- No requirement of motor shaft alignment
- Safe, flood-proof operation
- No leakage from gland packings
- More hourly starts possible due to submergence
- Flexibility of use in wet pit / dry pit or as vertical / horizontal, aesthetically pleasing installation

**Jacketed & Non-Jacketed Configuration:**



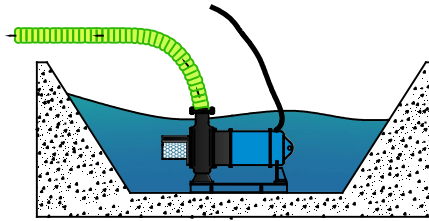
**Installation Options of Submersible Motor Pump :**

▼ Wet Pit Vertical Portable Installation In Water Reservoir



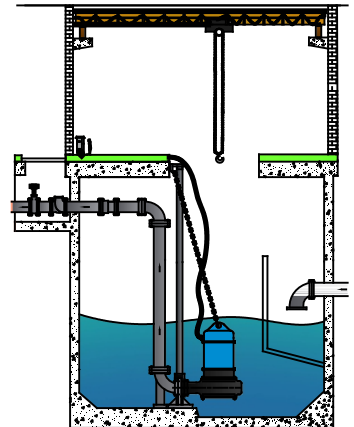
- A semi-permanent, free standing version in wet pit
- Strainer base mounting
- Ideal for portable applications, temporary installations
- Pipe or hose connection

▼ Wet Pit Horizontal Installation In Dam



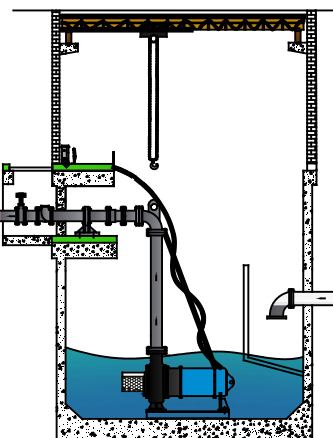
- Horizontal installation version in wet pit
- Base-frame mounting with flexible pipe
- Hose pipe connection

▼ Wet Pit Installation With Guide Rail System For Surface Water Offtake, Water Intake & Lift Irrigation And Water Distribution Schemes



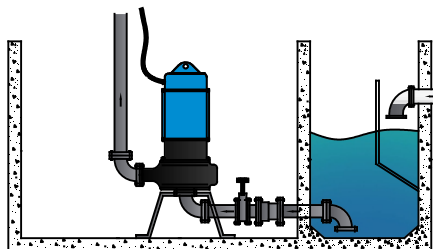
- A fixed installation version in wet pit
- Pedestal coupling / autocoupling mounting
- Single / double guide rail arrangement
- Pipe connection

▼ Wet Pit Horizontal Installation For Surface Water Offtake, Water Intake & Lift Irrigation, Water Distribution Schemes



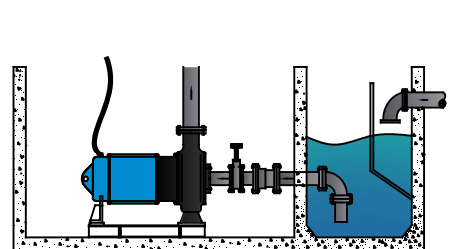
- Horizontal, fixed installation version in wet pit
- Base-frame mounting
- Pipe connection

▼ Dry Pit Vertical Installation For Water Reservoir



- A fixed, permanent dry pit installation
- Base plate / stand mounting with suction bend
- Pipe connection

▼ Dry Pit Horizontal Installation For Water Reservoir



- A fixed, permanent dry pit installation
- Base-frame mounting with suction bend
- Pipe connection

## Unique Design Features:

Unique Features	Benefit to the User	Added Benefit
Site fittable cable design	Less risk of cable theft & damage during installation	Separate storage of cable until final installation
Double chamber design	Protection from falling objects & dust into winding	Enhanced life during maintenance
User friendly stator fitment design	Rewinding possible, in case of accidental damage	No necessity to replace motor housing
Side entry cable	Natural bend position after installation	Avoids cable damage due to additional bend
Reverse rotation protection	Assurance of correct direction of rotation	Achievement of required duty points
Entire pump can be opened with single tool	Single tool needed for repair and maintenance	Easier maintenance and less downtime
VFD compatible designs	No bearing & winding damage due to VFD driven	Saving in cost and power
VPI & special insulation materials	Higher insulation strength	Longer winding life
<b>RedAx™</b> technology	Increased bearing & mechanical seal life	Less downtime & low vibrations, low noise,
<b>SubArc™</b> technology	Easy installation & removal of pump	Less downtime
Choice of mechanical seal mounting	Double mechanical seals in tandem / back-to-back	Reliable shaft sealing
Internal / external media cooling jacket	Minimum left over dead volume in a tank	Quick removal of jacket for cleaning, if required
Ribless plain motor housing	No adherence of sludge, fibers on motor housing	Reliable heat dissipation
Scientifically designed in-built lifting hook	No risk of loosening and losing eyebolts	Safe & reliable lifting
Provision for additional sensors	Additional sensors on request	Helpful for maintenance
Modular & interchangeable design	Low spares inventory	Saving in spares cost
Heavy duty bearings & shaft design	No shaft deflection	Higher bearing & mechanical seal life
Wide spectrum of materials	Most appropriate material to suit application	Higher pump life
Dedicated energy efficient hydraulics	Higher hydraulics efficiency	Saving in power running cost
Bidirectional mechanical seals	No damage to mechanical seal	No downtime
Stainless steel shaft	Water corrosion resistant	Increased life of shaft

