



**C.R.I. PUMPS**  
Pumping trust. Worldwide.



**AGRICULTURAL PUMPS**



## 125mm Borewell Submersible Pumpsets NILE Series

C.R.I. Nile 125 mm Bore well submersible pump sets are powered by water filled, rewindable submersible motor suitable for continuous duty. The optimal design of impeller and diffuser enables the best possible hydraulic efficiency. Built-in check valve prevents back flow and reduces the risk of water hammering.

### SALIENT FEATURES

- T-Bolt design motor ensures rigid construction
- Anti corrosive SS410 casted impellers ensures longer life of Pump sets
- Optimised Hydraulic design for Efficient Performance
- Specially Designed thrust bearing to withstand high axial thrust loads
- Best suitable for 150 mm undersize borewell applications

### APPLICATION

- Irrigation
- Drip and sprinkler applications
- Civil and industrial water supply
- Farms & Gardens
- Rural water supply



## SPECIFICATIONS

|                                      |  |
|--------------------------------------|--|
| Power range                          | 3kW to 5.5kW (4HP to7.5HP)                             |
| Speed                                | 2850 RPM   |
| Version                              | Three phase 380 – 415V; 50Hz AC Supply                 |
| Maximum total head                   | 60 metre   |
| Maximum flow rate                    | 12.5 lps (45 m <sup>3</sup> /h)                        |
| Maximum outer diameter               | 127 mm   |
| Nominal outlet size                  | 80 mm  |
| Degree of protection                 | IP 58  |
| Direction of rotation                | 3 Ph - Electrically reversible                         |
| Thrust load                          | 2.2 kW – 4.5 kW – 3500 lbs; 5.5 kW – 7.5 kW – 6000 lbs |
| Minimum cooling flow along the motor | 0.15 m/sec   |
| Type of duty                         | S1 (Continuous)  |
| Method of starting                   | Direct Online (D.O.L)                                  |
| Maximum starts per hour              | 20 times   |

Suitable for  
**Undersize  
Borewell**

**T-Bolt  
Design**

**SS  
Impeller**



# PERFORMANCE CHART

## 125mm BOREWELL SUBMERSIBLE PUMPSETS - NILE Series

2850 RPM - At Rated Voltage – Three Phase 415 Volts, 50Hz, A.C. Supply.

**MIXED FLOW**

| Model          | kW  | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0         | 5         | 10        | 15        | 20        | 25        | 27        | 30        | 35        | 40        | 45        |
|----------------|-----|-----|-------|-------------------|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                |     |     |       |                   |                           | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE |
| CRI5M-27/4/4   | 3   | 4   | 4     | 80                | Head in Metres            | 31        | 29        | 26        | 25        | 22        | 21        | 20        | 19        | 17        | 14        | 9         |
| CRI5M-27/5/5   | 3.7 | 5   | 5     | 80                | Head in Metres            | 39        | 36        | 34        | 31        | 29        | 27        | 26        | 25        | 21        | 18        | 13        |
| CRI5M-27/6/6   | 4.5 | 6   | 6     | 80                | Head in Metres            | 45        | 42        | 39        | 36        | 33        | 31        | 30        | 29        | 25        | 21        | 15        |
| CRI5M-27/7.5/8 | 5.5 | 7.5 | 8     | 80                | Head in Metres            | 60        | 57        | 53        | 49        | 45        | 42        | 41        | 39        | 35        | 29        | 21        |

| Model          | kW  | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0         | 5         | 10        | 15        | 20        | 25        | 27        | 30        | 35        | 40        | 45        |
|----------------|-----|-----|-------|-------------------|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                |     |     |       |                   |                           | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE | DISCHARGE |
| CRI5M-30/7.5/5 | 5.5 | 7.5 | 5     | 80                | Head in Metres            | 50        | 48        | 46        | 43        | 40        | 38        | 37        | 35        | 28        | 19        | 8.5       |

# PERFORMANCE CHART

## 125mm BOREWELL SUBMERSIBLE PUMPSETS - NILE Series

2850 RPM - At Rated Voltage – Three Phase 415 Volts, 50Hz, A.C. Supply.

| MATERIAL OF CONSTRUCTION - MOTOR |                            |
|----------------------------------|----------------------------|
| Part Name                        | Materials                  |
| Upper & Lower Housing            | Cast Iron                  |
| Upper & Lower Housing Shell      | SS 304                     |
| Stator Shell                     | SS 304                     |
| Rotor                            | Copper Rotor               |
| Journal Bushes                   | LTB - 4                    |
| Thrust Assembly                  | SS 420 and Graphite Carbon |
| Diaphragm                        | High Nitrile Butyl Rubber  |
| Sand Guard                       | Rubber Nitrile and SS 304  |

| MATERIAL OF CONSTRUCTION - PUMP |                          |
|---------------------------------|--------------------------|
| Part Name                       | Materials                |
| Valve housing & Suction Housing | Cast Iron                |
| Pump Shaft                      | SS 410                   |
| Impeller                        | SS 410                   |
| Stage Casing                    | Cast Iron                |
| Coupling                        | SS 410                   |
| Bracket Bush                    | LTB – 4 / Nitrile Rubber |
| Sleeve                          | SS 410                   |



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