



**C.R.I. PUMPS**

Pumping trust. Worldwide.



## RESIDENTIAL PRODUCT CATALOGUE

• Domestic • Gardens • Irrigation • Agriculture • Farms • Industrial



## Vision, Mission and Values

To be the industry leader providing best-in-class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of **commitment, reliability and innovation.**

## ABOUT US

Commitment - Reliability - Innovation : C.R.I. has evolved itself as a key player in the world's pump industry with an unbeatable presence in fluid management systems. From Pumps, Valves, Pipes, IoT Drives & Controllers, Wires & Cables to Solar Pumping Systems and Motors, we have meticulously carved every single product involved in fluid management and delivered to our millions of happy customers. With 9000+ products, we cater to the flow management needs across various industries like Solar, Waste Water, Building, Pharma, Oil & Gas, Chemical, Power, Machine Tool, Paper & Pulp, Mining, Process Industries, Agriculture, Residential, Community Water Supply, Food & Beverage applications. We have strong foothold in 120+ countries and fully owned 15 subsidiaries, all of which stand witness to our indomitable spirit to continue to be the leader in the fluid management systems.

### Unique features of C.R.I.

- 50+ years of engineering expertise
- A formidable Global Player with 20,000 Outlets and 1500 Service Centres
- One among the few leaders in the industry to produce 100% stainless steel pumps
- Fully equipped with state-of-the-art machinery in over a 3 lakh square metre production area
- Cutting-edge technology and techniques in manufacturing processes
- Indian & International quality certifications like CE, CSA, TSE, NSF, ISI, ISO 9001, ISO 14001 and OHSAS 18001
- Winner of EEPC (Engineering Export Promotion Council) Award for 15 times
- Winner of National Energy Conservation Award for 6 times
- A Ministry of Science & Technology recognized R & D wing "Fludyn Advanced Technology Centre"
- Fully mechanized and automated Foundry with state-of-the-art technology

**C.R.I. Valves** - State-of-the-art manufacturing facility produces wide range of valves for both water and industrial applications

**C.R.I. Pipes** - C.R.I.'s state-of-the-art manufacturing facility at Ahmedabad & Hosur produces all kinds of best quality pipes & fittings. The plants are empowered with fully automated machines that control the manufacturing process.

**C.R.I. Wires & Cables** - C.R.I.'s Wires & Cables are manufactured at its state-of-the-art manufacturing facility. The systems at the manufacturing facility are ISO-9001 certified and the products manufactured to meet the relevant standards.

**C.R.I. Solar Pumping System** - C.R.I. manufactures sustainable Solar Pumping Systems designed to work with best in class efficiency. With this C.R.I. emphasizes its focus towards greener technology.



## 80mm & 85mm Borewell Submersible Pumpsets - LENA / LENA+ Series

C.R.I. LENA 80mm & LENA+ 85mm Borewell Submersible pump is firmly coupled to a submersible electric motor which operates submerged beneath the surface of water. All vital components of these pumps are made up of corrosive resistance thermo plastic & SS 304. The optimal design of impeller and diffuser enables the best possible hydraulic efficiency. C.R.I. products are engineered to perfection with utmost care and stringent quality control at all stages to ensure a trouble free service.

| SPECIFICATIONS                       | 80mm LENA                            | 85mm LENA+                           |
|--------------------------------------|--------------------------------------|--------------------------------------|
| Power range                          | 0.55 kW - 1.1 kW (0.75 HP - 1.5 HP)  | 0.75 kW - 1.5 kW (1 HP - 2 HP)       |
| Speed                                | 2800 RPM                             | 2900 RPM                             |
| Version                              | Single Phase, 220V 50Hz, AC Supply   | Single Phase, 220V 50Hz, AC Supply   |
| Maximum total head                   | 156 metre                            | 214 metre                            |
| Maximum flow rate                    | 1.5 lps (5.40 m³/h)                  | 0.9 lps (3.4 m³/h)                   |
| Maximum outer diameter               | 78 mm                                | 92 mm                                |
| Nominal outlet size                  | 25 & 32 mm                           | 32 mm                                |
| Degree of protection                 | IP 58                                | IP 58                                |
| Direction of rotation                | Counter clockwise from driving end   | Counter clockwise from driving end   |
| Thrust load                          | 650 lbs                              | 650 lbs                              |
| Minimum cooling flow along the motor | 0.15 m/sec                           | 0.15 m/sec                           |
| Type of duty                         | S1 (Continuous)                      | S1 (Continuous)                      |
| Method of starting                   | Capacitor Start Capacitor Run (CSCR) | Capacitor Start Capacitor Run (CSCR) |
| Maximum starts per hour              | 20 times                             | 20 times                             |

### SALIENT FEATURES

- Motor portion covered with corrosive resistance Stainless Steel (SS 304) shell
- More durability and hygiene • High operating efficiency • Specially designed thrust bearing to withstand high axial thrust load • Extremely hardwearing water lubricated bearing • Thread type motor construction ensures service feasibility • Designed for wide voltage operation • Additional intermediate bearing in higher stage pumps

### APPLICATIONS

- Domestic
- Gardens
- Irrigation
- Agriculture
- Farms
- Industrial



## PERFORMANCE CHART

### LENA SERIES

### 80mm BOREWELL SUBMERSIBLE PUMPSETS

2800 RPM - At Rated Voltage - Single Phase 220 Volts, 50Hz, A.C. Supply.

Maximum Outer Diameter : 74mm (R36) / 76mm (R30, R33, R34 & R35) / 78mm (R31)

#### RADIAL FLOW

| Model        | kW   | HP   | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 0.72 | 1.08 | 1.44 | 1.80 | 2.16 | 2.52 | 2.88 | 3.24 |
|--------------|------|------|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|------|
|              |      |      |       |                   |                           | 0   | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 |
| CRI3R-30/32  | 0.75 | 1    | 32    | 25                | Head in Metres            | 89  | 83   | 77   | 70   | 61   | 49   | 33   |      |      |
| CRI3R-31/12  | 0.55 | 0.75 | 12    | 32                |                           | 44  | 43   | 42   | 42   | 40   | 39   | 38   |      |      |
| CRI3R-31/17* | 0.75 | 1    | 17    | 32                |                           | 76  | 71   | 67   | 63   | 59   | 54   | 50   | 40   | 33   |
| CRI3R-31/24  | 0.75 | 1    | 24    | 32                |                           | 103 | 101  | 97   | 90   | 85   | 78   | 70   | 58   | 50   |
| CRI3R-31/24* | 1.1  | 1.5  | 24    | 32                |                           | 105 | 101  | 97   | 93   | 88   | 80   | 71   | 60   | 50   |

#### RADIAL FLOW

| Model       | kW   | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0  | 0.72 | 1.44 | 2.16 | 2.88 | 3.60 | 4.32 | 5.04 | 5.40 |
|-------------|------|-----|-------|-------------------|---------------------------|----|------|------|------|------|------|------|------|------|
|             |      |     |       |                   |                           | 0  | 0.20 | 0.40 | 0.60 | 0.80 | 1.00 | 1.20 | 1.40 | 1.50 |
| CRI3R-33/10 | 0.75 | 1   | 10    | 32                | Head in Metres            | 39 | 38   | 37   | 36   | 33   | 29   | 22   | 16   | 12   |
| CRI3R-33/15 | 1.1  | 1.5 | 15    | 32                |                           | 59 | 58   | 56   | 53   | 49   | 41   | 33   | 22   | 17   |

#### RADIAL FLOW

| Model       | kW   | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 0.72 | 1.08 | 1.26 | 1.44 | 1.62 | 1.80 | 2.16 | 2.88 | 3.60 | 4.32 | 5.04 |
|-------------|------|-----|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|
|             |      |     |       |                   |                           | 0   | 0.20 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.60 | 0.80 | 1.00 | 1.20 | 1.40 |
| CRI3R-34/38 | 1.1  | 1.5 | 38    | 32                | Head in Metres            | 156 | 136  | 118  | 108  | 96   | 82   | 60   |      |      |      |      |      |
| CRI3R-36/12 | 0.75 | 1   | 12    | 32                |                           | 48  | 45   | 43   | 42   | 41   | 39   | 38   | 35   | 31   | 26   | 20   | 15   |
| CRI3R-36/15 | 0.75 | 1   | 15    | 32                |                           | 60  | 55   | 52   | 51   | 49   | 48   | 46   | 43   | 41   | 33   | 26   | 19   |
| CRI3R-36/17 | 1.1  | 1.5 | 17    | 32                |                           | 67  | 64   | 62   | 60   | 58   | 57   | 55   | 52   | 45   | 39   | 30   | 22   |

\* Marked pumpsets are having ISI licence.

## PERFORMANCE CHART



LENA+ SERIES

85mm BOREWELL SUBMERSIBLE PUMPSETS

2800 RPM – At Rated Voltage – Single Phase 220 Volts, 50Hz, A.C. Supply.

Maximum Outer Diameter : 92mm

RADIAL FLOW

| Model          | kW   | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 0.72 | 1.08 | 1.44 | 1.80 | 2.16 | 2.52 | 2.88 | 3.24 |
|----------------|------|-----|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|------|
|                |      |     |       |                   |                           | 0   | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 |
| WCGBK-3/1.0/16 | 0.75 | 1.0 | 16    | 32                | Head in Metres            | 71  | 69   | 66   | 63   | 60   | 52   | 44   | 34   | 23   |
| WCGBK-3/1.5/22 | 1.1  | 1.5 | 22    | 32                |                           | 99  | 96   | 93   | 90   | 84   | 75   | 64   | 50   | 36   |
| WCGBK-3/2/32   | 1.5  | 2.0 | 32    | 32                |                           | 140 | 136  | 132  | 126  | 116  | 101  | 88   | 70   | 49   |
| WCGBK-3/2/40   | 1.5  | 2.0 | 40    | 32                |                           | 176 | 169  | 164  | 154  | 140  | 120  | 100  | 85   | 43   |
| WCGBK-3/2/50   | 1.5  | 2.0 | 50    | 32                |                           | 214 | 208  | 202  | 191  | 173  | 150  | 122  | 90   | 51   |

## MATERIAL OF CONSTRUCTION - PUMP

| Part Name                            | Material             |
|--------------------------------------|----------------------|
| Check valve housing                  | Cast iron            |
| Outer shell                          | Stainless Steel      |
| Impeller                             | Noryl                |
| Diffuser chamber                     | Noryl                |
| Counter thrust pad                   | Hylem                |
| Intermediate bearing (Sleeve / Bush) | SS - 410 / NBR       |
| Suction inter connector              | Cast iron            |
| Pump shaft                           | SS - 304 / 431 / 410 |
| Coupling                             | SS - 410             |

## MATERIAL OF CONSTRUCTION - MOTOR

| Part Name       | Material                   |
|-----------------|----------------------------|
| Stator shell    | Stainless Steel            |
| Shaft seal      | Nitrile butyl rubber       |
| Journal bushes  | LTB 4 / Carbon             |
| Thrust Assembly | SS 420 and Graphite Carbon |
| Motor base      | Cast iron                  |
| Motor Shaft     | SS - 431                   |
| Snap Ring       | SS - 316                   |



## 80mm Borewell Submersible Pumpsets ZUNO Lite Series

C.R.I. ZUNO Lite 80 mm Borewell submersible motors are pre-filled with non-toxic liquid for best performance in low voltage and high efficiency. The pump is firmly coupled to a submersible electric motor which operates submerged beneath the surface of water. 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. All vital components of these pumps are made up of corrosive resistance thermoplastic and the shaft is of SS 431.



| SPECIFICATIONS                       | 80mm ZUNO Lite                       |
|--------------------------------------|--------------------------------------|
| Power range                          | 0.75 kW & 1.1 kW (1.0 HP & 1.5 HP)   |
| Speed                                | 2800 RPM                             |
| Version                              | Single Phase, 220V 50Hz, AC Supply   |
| Maximum total head                   | 70 metre                             |
| Maximum flow rate                    | 1.5 lps (5.40 m <sup>3</sup> /h)     |
| Maximum outer diameter               | 78 mm                                |
| Nominal outlet size                  | 32 mm                                |
| Degree of protection                 | IP 58                                |
| Direction of rotation                | Counter clockwise from driving end   |
| Thrust load                          | 650 lbs                              |
| Minimum cooling flow along the motor | 0.15 m/sec                           |
| Type of duty                         | S1 (Continuous)                      |
| Method of starting                   | Capacitor Start Capacitor Run (CSCR) |
| Maximum starts per hour              | 20 times                             |

### SALIENT FEATURES

- Motor portion covered with corrosive resistance Stainless Steel (SS 304) shell
- More durability and hygiene • High operating efficiency • Designed for wide voltage operation • Additional intermediate bearing in higher stage pumps

### APPLICATIONS

- Domestic
- Gardens
- Irrigation
- Agriculture
- Farms
- Industrial

## PERFORMANCE CHART



ZUNO Lite SERIES

80mm BOREWELL SUBMERSIBLE PUMPSETS

2800 RPM – At Rated Voltage – Single Phase 220 Volts, 50Hz, A.C. Supply.

Maximum Outer Diameter : 78mm

RADIAL FLOW

| Model       | kW   | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr | 0  | 0.72 | 1.08 | 1.44 | 1.80 | 2.16 | 2.52 | 2.88 | 3.24 |
|-------------|------|-----|-------|-------------------|--------------------|----|------|------|------|------|------|------|------|------|
|             |      |     |       |                   |                    | 0  | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 |
| CRI3R-31/17 | 0.75 | 1.0 | 17    | 32                | Head in Metres     | 70 | 66   | 64   | 62   | 55   | 49   | 44   | 34   | 24   |

RADIAL FLOW

| Model       | kW   | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr | 0  | 0.72 | 1.44 | 2.16 | 2.88 | 3.60 | 4.32 | 5.04 | 5.40 |
|-------------|------|-----|-------|-------------------|--------------------|----|------|------|------|------|------|------|------|------|
|             |      |     |       |                   |                    | 0  | 0.20 | 0.40 | 0.60 | 0.80 | 1.00 | 1.20 | 1.40 | 1.50 |
| CRI3R-33/10 | 0.75 | 1.0 | 10    | 32                | Head in Metres     | 37 | 35   | 33   | 32   | 30   | 28   | 23   | 18   | 13   |
| CRI3R-33/12 | 0.75 | 1.0 | 12    | 32                |                    | 44 | 42   | 40   | 39   | 36   | 31   | 25   | 20   | 14   |
| CRI3R-33/15 | 1.1  | 1.5 | 15    | 32                |                    | 59 | 58   | 56   | 53   | 49   | 41   | 33   | 22   | 17   |

## MATERIAL OF CONSTRUCTION - PUMP

| Part Name                            | Material        |
|--------------------------------------|-----------------|
| Check valve housing                  | Cast iron       |
| Outer shell                          | Stainless Steel |
| Impeller                             | Noryl           |
| Diffuser chamber                     | Noryl           |
| Counter thrust pad                   | Hylem           |
| Intermediate bearing (Sleeve / Bush) | SS - 304 / NBR  |
| Suction inter connector              | Cast iron       |
| Pump shaft                           | SS - 304        |
| Coupling                             | SS - 410        |

## MATERIAL OF CONSTRUCTION - MOTOR

| Part Name    | Material                               |
|--------------|----------------------------------------|
| Stator shell | SS 304                                 |
| Shaft seal   | Nitrile Butyl Rubber / Mechanical Seal |
| Motor base   | Cast iron                              |
| Motor Shaft  | SS - 431                               |
| Bearing      | SS Ball Bearing                        |
| Snap Ring    | SS - 316                               |





## 100mm Borewell Submersible Pumpsets GENIE Series

C.R.I. Genie 100 mm Borewell submersible pump is firmly coupled to a submersible electric motor which operates submerged beneath the surface of water. 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. All vital components of these pumps are made up of corrosive resistance thermoplastic and with stainless steel shaft.



| SPECIFICATIONS                       | 100mm GENIE                                                                         |
|--------------------------------------|-------------------------------------------------------------------------------------|
| Power range                          | 0.37 kW - 5.5 kW (0.5 HP - 7.5 HP)                                                  |
| Speed                                | 2850 RPM                                                                            |
| Version                              | Single phase 220V, Three phase 380 - 400V, 50Hz, AC Supply                          |
| Maximum total head                   | 568 metre                                                                           |
| Maximum flow rate                    | 7 lps (25.20 m <sup>3</sup> /h)                                                     |
| Maximum outer diameter               | 98 mm                                                                               |
| Nominal outlet size                  | 32, 40, 50 & 65 mm                                                                  |
| Degree of protection                 | IP 58                                                                               |
| Direction of rotation                | <b>1Ph</b> -Counter clockwise from driving end; <b>3Ph</b> -Electrically Reversible |
| Thrust load                          | 0.37kW - 0.75kW - 650 lbs; 1.1kW - 1.5kW - 1000 lbs; 2.2kW - 7.5kW - 1500 lbs       |
| Minimum cooling flow along the motor | 0.15 m/sec                                                                          |
| Type of duty                         | S1 (Continuous)                                                                     |
| Method of starting                   | <b>1Ph</b> -Capacitor Start Capacitor Run(CSCR); <b>3Ph</b> -Direct Online(D.O.L)   |
| Maximum starts per hour              | 20 times                                                                            |

### SALIENT FEATURES

- Motor portion covered with corrosive resistance Stainless steel (SS 304) shell
- More durability and hygiene • High operating efficiency • Specially designed thrust bearing to withstand high axial thrust load • Extremely hardwearing water lubricated bearing • Thread type motor construction ensures rigidity & service feasibility • Designed for wide voltage operation • Additional intermediate bearing in higher stage pumps

### APPLICATIONS

- Domestic and municipal water supply
- Rural water supply
- Sprinkler system
- Pressure boosting units
- Fire fighting system
- Industrial and mining application
- Fountains

## PERFORMANCE CHART



GENIE SERIES  
100mm BOREWELL SUBMERSIBLE PUMPSETS

2850 RPM - At Rated Voltage - Single Phase - 220 Volts,  
Three Phase - 380 - 400 Volts 50Hz, A.C. Supply.

Maximum Outer Diameter : 98mm

RADIAL FLOW

| Model        | kW   | HP   | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 0.72 | 1.08 | 1.44 | 1.80 | 2.16 | 2.52 | 2.88 | Star Rating |
|--------------|------|------|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|-------------|
|              |      |      |       |                   |                           | 0   | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  |             |
| CRI4F-1F/07* | 0.37 | 0.5  | 7     | 32                | Head in Metres            | 59  | 55   | 52   | 47   | 40   | 31   | 17   |      |             |
| CRI4F-1F/11  | 0.55 | 0.75 | 11    | 32                |                           | 88  | 83   | 77   | 69   | 60   | 40   | 18   |      | 3           |
| CRI4F-1F/16* | 0.75 | 1    | 16    | 32                |                           | 129 | 125  | 121  | 106  | 84   | 56   | 34   | 18   | 2           |
| CRI4F-1F/21* | 1.1  | 1.5  | 21    | 32                |                           | 176 | 167  | 155  | 136  | 112  | 82   | 33   |      | 2           |
| CRI4F-1F/27* | 1.5  | 2    | 27    | 32                |                           | 218 | 208  | 197  | 179  | 152  | 113  | 57   |      | 2           |
| CRI4F-2/32*  | 2.2  | 3    | 32    | 32                |                           | 245 | 238  | 231  | 223  | 211  | 192  | 168  | 141  |             |

RADIAL FLOW

| Model       | kW  | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 1.44 | 1.80 | 2.16 | 2.52 | 2.88 | 3.24 | 3.60 | 4.32 | Star Rating |
|-------------|-----|-----|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|------|-------------|
|             |     |     |       |                   |                           | 0   | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  | 1.2  |             |
| CRI4F-3/14* | 1.1 | 1.5 | 14    | 32                | Head in Metres            | 110 | 102  | 98   | 94   | 90   | 85   | 77   | 67   | 44   | 3           |

RADIAL FLOW

| Model       | kW  | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 0.72 | 1.08 | 1.44 | 1.80 | 2.16 | 2.52 | 2.88 | 3.24 |
|-------------|-----|-----|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|------|
|             |     |     |       |                   |                           | 0   | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  |
| CRI4R-2/40* | 2.2 | 3   | 40    | 32/40             | Head in Metres            | 278 | 264  | 253  | 240  | 221  | 202  | 176  | 146  |      |
| CRI4R-2/52* | 3.7 | 5   | 52    | 32/40             |                           | 359 | 347  | 334  | 315  | 290  | 258  | 228  | 191  | 152  |
| CRI4R-2/55  | 4.5 | 6   | 55    | 32/40             |                           | 388 | 369  | 354  | 334  | 308  | 277  | 240  | 208  |      |
| CRI4R-2/60  | 4.5 | 6   | 60    | 32/40             |                           | 410 | 399  | 384  | 364  | 335  | 295  | 263  | 222  |      |
| CRI4R-2/65  | 5.5 | 7.5 | 65    | 32/40             |                           | 466 | 437  | 418  | 390  | 357  | 320  | 283  | 242  |      |
| CRI4R-2/70  | 5.5 | 7.5 | 70    | 32/40             |                           | 497 | 472  | 451  | 421  | 388  | 346  | 300  | 254  |      |
| CRI4R-2/75  | 5.5 | 7.5 | 75    | 32/40             |                           | 502 | 473  | 457  | 440  | 422  | 396  | 341  | 259  |      |

\* Marked pumpsets are having ISI licence

## PERFORMANCE CHART

GENIE SERIES  
100mm BOREWELL SUBMERSIBLE PUMPSETS

RADIAL FLOW

2850 RPM - At Rated Voltage - Single Phase - 220 Volts,

Three Phase - 380 - 400 Volts 50Hz, A.C. Supply.

Maximum Outer Diameter : 98mm

| Model        | kW   | HP   | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 0.72 | 1.08 | 1.44 | 1.80 | 2.16 | 2.52 | 2.88 | 3.24 | Star Rating |
|--------------|------|------|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|------|-------------|
|              |      |      |       |                   |                           | 0   | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  |             |
| CRI4R-2N/06* | 0.37 | 0.5  | 6     | 32                | Head in Metres            | 45  | 42   | 39   | 36   | 33   | 29   | 25   | 22   | 17   | 2           |
| CRI4R-2N/08* | 0.55 | 0.75 | 8     | 32                |                           | 62  | 57   | 54   | 50   | 46   | 41   | 35   | 29   | 22   |             |
| CRI4R-2N/11* | 0.75 | 1    | 11    | 32                |                           | 84  | 76   | 72   | 66   | 61   | 54   | 47   | 40   | 30   | 2           |
| CRI4R-2N/13* | 0.75 | 1    | 13    | 32                |                           | 97  | 88   | 82   | 76   | 69   | 60   | 51   | 43   | 33   | 2           |
| CRI4R-2N/17* | 1.1  | 1.5  | 17    | 32                |                           | 127 | 117  | 110  | 102  | 94   | 82   | 72   | 59   | 47   | 2           |
| CRI4R-2N/19* | 1.1  | 1.5  | 19    | 32                |                           | 141 | 129  | 122  | 112  | 102  | 90   | 80   | 66   | 50   | 2           |
| CRI4R-2N/23* | 1.5  | 2    | 23    | 32                |                           | 172 | 158  | 148  | 137  | 125  | 111  | 95   | 81   | 64   | 2           |
| CRI4R-2N/25* | 1.5  | 2    | 25    | 32                |                           | 183 | 167  | 158  | 146  | 134  | 119  | 102  | 83   | 65   | 2           |
| CRI4R-2N/30  | 1.5  | 2    | 30    | 32                |                           | 220 | 198  | 184  | 169  | 155  | 138  | 115  | 94   | 73   | 2           |
| CRI4R-2N/32  | 2.2  | 3    | 32    | 32/40             |                           | 241 | 224  | 210  | 194  | 178  | 160  | 139  | 115  | 88   | 2           |
| CRI4R-2N/35* | 2.2  | 3    | 35    | 32/40             |                           | 261 | 240  | 224  | 206  | 189  | 169  | 145  | 119  | 90   | 3           |
| CRI4R-2N/38* | 2.2  | 3    | 38    | 32/40             |                           | 279 | 256  | 240  | 223  | 201  | 179  | 153  | 121  |      | 2           |
| CRI4R-2N/42* | 3    | 4    | 42    | 32/40             |                           | 313 | 286  | 269  | 250  | 228  | 202  | 174  | 143  | 113  | 2           |
| CRI4R-2N/50  | 3    | 4    | 50    | 32                |                           | 369 | 338  | 315  | 292  | 266  | 234  | 198  | 166  | 125  |             |
| CRI4R-2N/52* | 3.7  | 5    | 52    | 32/40             |                           | 388 | 353  | 332  | 309  | 283  | 252  | 216  | 176  | 133  | 2           |
| CRI4R-2N/60  | 4.5  | 6    | 60    | 32                |                           | 459 | 426  | 401  | 368  | 329  | 298  | 251  | 201  | 151  |             |
| CRI4R-2N/65  | 5.5  | 7.5  | 65    | 40                |                           | 497 | 451  | 425  | 395  | 360  | 315  | 270  | 220  | 158  |             |
| CRI4R-2N/70  | 5.5  | 7.5  | 70    | 32                |                           | 532 | 487  | 454  | 425  | 384  | 347  | 294  | 235  | 176  |             |
| CRI4R-2N/75  | 5.5  | 7.5  | 75    | 32                |                           | 568 | 530  | 501  | 456  | 410  | 364  | 314  | 251  | 201  |             |

\* Marked pumpsets are having ISI licence

# PERFORMANCE CHART



GENIE SERIES

100mm BOREWELL SUBMERSIBLE PUMPSETS

2850 RPM - At Rated Voltage - Single Phase - 220 Volts,

Three Phase - 380 - 400 Volts 50Hz, A.C. Supply.

Maximum Outer Diameter : 98mm

RADIAL FLOW

| Model        | kW   | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 1.80 | 2.16 | 2.52 | 2.88 | 3.24 | 3.60 | 4.32 | 5.04 | Star Rating |
|--------------|------|-----|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|------|-------------|
|              |      |     |       |                   |                           | 0   | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  | 1.2  | 1.4  |             |
| CRI4R-3E/05  | 0.8  | 1   | 5     | 32                | Head in Metres            | 37  | 35   | 34   | 32   | 30   | 27   | 24   | 18   | 10   |             |
| CRI4R-3E/07* | 0.75 | 1   | 7     | 32                |                           | 54  | 50   | 49   | 47   | 45   | 43   | 40   | 31   | 24   | 2           |
| CRI4R-3E/09* | 0.75 | 1   | 9     | 32                |                           | 71  | 66   | 64   | 61   | 58   | 54   | 50   | 41   | 32   | 5           |
| CRI4R-3E/10  | 0.75 | 1   | 10    | 32                |                           | 77  | 66   | 64   | 61   | 58   | 55   | 52   | 44   | 19   | 5           |
| CRI4R-3E/11* | 1.1  | 1.5 | 11    | 32                |                           | 89  | 84   | 82   | 79   | 76   | 73   | 69   | 54   | 38   |             |
| CRI4R-3E/14* | 1.5  | 2   | 14    | 32                |                           | 112 | 103  | 99   | 96   | 92   | 88   | 82   | 67   | 50   |             |
| CRI4R-3E/15  | 1.1  | 1.5 | 15    | 32                |                           | 109 | 94   | 91   | 87   | 83   | 78   | 71   | 56   | 38   | 4           |
| CRI4R-3E/15  | 1.5  | 2   | 15    | 32                |                           | 110 | 95   | 92   | 88   | 84   | 79   | 72   | 57   | 39   |             |
| CRI4R-3E/17* | 1.5  | 2   | 17    | 32                |                           | 121 | 114  | 111  | 107  | 103  | 99   | 91   | 74   | 56   |             |
| CRI4R-3E/24* | 2.2  | 3   | 24    | 32/40             |                           | 182 | 171  | 167  | 162  | 157  | 148  | 138  | 120  | 86   |             |
| CRI4R-3E/26* | 2.2  | 3   | 26    | 32/40             |                           | 184 | 167  | 162  | 157  | 152  | 147  | 141  | 123  | 94   |             |
| CRI4R-3E/40* | 3.7  | 5   | 40    | 32/40             |                           | 301 | 272  | 264  | 254  | 240  | 222  | 200  | 152  | 113  |             |
| CRI4R-3E/43* | 4.5  | 6   | 43    | 32/40             |                           | 313 | 285  | 275  | 260  | 245  | 232  | 217  | 176  |      |             |
| CRI4R-3E/50  | 5.5  | 7.5 | 50    | 32/40             |                           | 391 | 362  | 352  | 340  | 320  | 297  | 273  | 228  |      |             |
| CRI4R-3E/54  | 5.5  | 7.5 | 54    | 32/40             |                           | 412 | 389  | 382  | 374  | 362  | 346  | 319  | 259  |      | 2           |

RADIAL FLOW

| Model       | kW   | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 3.24 | 3.60 | 4.32 | 5.04 | 5.76 | 6.48 | 7.20 | 7.92 | Star Rating |
|-------------|------|-----|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|------|-------------|
|             |      |     |       |                   |                           | 0   | 0.9  | 1.0  | 1.2  | 1.4  | 1.6  | 1.8  | 2.0  | 2.2  |             |
| CRI4R-5/07* | 0.75 | 1   | 7     | 32/40             | Head in Metres            | 50  | 43   | 41   | 38   | 34   | 29   | 24   | 17   | 10   | 4           |
| CRI4R-5/09* | 1.1  | 1.5 | 9     | 40                |                           | 66  | 58   | 56   | 52   | 47   | 40   | 34   | 28   | 20   | 4           |
| CRI4R-5/10* | 1.5  | 2   | 10    | 50                |                           | 73  | 65   | 63   | 59   | 53   | 47   | 39   | 28   | 19   |             |
| CRI4R-5/12* | 1.5  | 2   | 12    | 40                |                           | 89  | 78   | 76   | 71   | 65   | 58   | 47   | 35   | 23   | 3           |
| CRI4R-5/15* | 2.2  | 3   | 15    | 40                |                           | 111 | 97   | 95   | 89   | 82   | 71   | 59   | 45   | 30   | 3           |
| CRI4R-5/18* | 2.2  | 3   | 18    | 40/50             |                           | 132 | 116  | 113  | 104  | 95   | 85   | 71   | 53   | 35   | 3           |
| CRI4R-5/25* | 3.7  | 5   | 25    | 40                |                           | 181 | 158  | 154  | 144  | 134  | 121  | 101  | 77   |      | 3           |
| CRI4R-5/27* | 3.7  | 5   | 27    | 40                |                           | 192 | 169  | 164  | 153  | 138  | 121  | 99   | 75   |      |             |
| CRI4R-5/32* | 3.7  | 5   | 32    | 40                |                           | 215 | 177  | 173  | 161  | 141  | 118  | 97   | 77   |      |             |

\* Marked pumpsets are having ISI licence

## PERFORMANCE CHART

GENIE SERIES  
100mm BOREWELL SUBMERSIBLE PUMPSETS

2850 RPM - At Rated Voltage - Single Phase - 220 Volts,  
Three Phase - 380 - 400 Volts 50Hz, A.C. Supply.

RADIAL FLOW

Maximum Outer Diameter : 98mm

| Model        | kW  | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr | 0   | 2.88 | 3.24 | 3.60 | 4.32 | 5.04 | 5.76 | 6.48 | 7.20 | 7.92 | 8.64 | 9.36 | Star Rating |
|--------------|-----|-----|-------|-------------------|--------------------|-----|------|------|------|------|------|------|------|------|------|------|------|-------------|
|              |     |     |       |                   | lps                | 0   | 0.8  | 0.9  | 1.0  | 1.2  | 1.4  | 1.6  | 1.8  | 2.0  | 2.2  | 2.4  | 2.6  |             |
| CRI4R-5E/37* | 3.7 | 5   | 37    | 40                | Head in Metres     | 224 | 200  | 196  | 191  | 182  | 169  | 156  | 143  | 124  |      |      |      | 2           |
| CRI4R-5E/56  | 5.5 | 7.5 | 56    | 40                |                    | 335 | 293  | 286  | 279  | 261  |      |      |      |      |      |      |      |             |
| CRI4R-7/10   | 1.1 | 1.5 | 10    | 40                |                    | 71  | 62   | 61   | 60   | 57   | 54   | 50   | 45   | 41   | 36   | 31   | 26   |             |
| CRI4R-7E-36* | 5.5 | 7.5 | 36    | 40                |                    | 236 | 219  | 216  | 214  | 207  | 201  | 194  | 185  | 176  | 165  | 150  | 131  |             |

RADIAL FLOW

| Model       | kW  | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr | 0   | 4.32 | 5.04 | 5.76 | 7.20 | 7.92 | 9.36 | 10.80 | Star Rating |
|-------------|-----|-----|-------|-------------------|--------------------|-----|------|------|------|------|------|------|-------|-------------|
|             |     |     |       |                   | lps                | 0   | 1.2  | 1.4  | 1.6  | 2.0  | 2.2  | 2.6  | 3.0   |             |
| CRI4R-8/09* | 1.5 | 2   | 9     | 40                | Head in Metres     | 66  | 60   | 59   | 56   | 52   | 47   | 35   | 25    | 3           |
| CRI4R-8/12  | 2.2 | 3   | 12    | 50                |                    | 89  | 76   | 74   | 70   | 60   | 54   | 42   | 25    |             |
| CRI4R-8/14* | 2.2 | 3   | 14    | 40/50             |                    | 104 | 92   | 89   | 85   | 73   | 66   | 53   | 39    | 2           |
| CRI4R-8/20* | 3.7 | 5   | 20    | 50                |                    | 147 | 131  | 127  | 122  | 108  | 99   | 79   | 57    |             |
| CRI4R-8/23* | 3.7 | 5   | 23    | 40                |                    | 168 | 146  | 141  | 135  | 120  | 109  | 88   | 62    | 2           |
| CRI4R-8/34* | 5.5 | 7.5 | 34    | 40                |                    | 232 | 215  | 209  | 197  | 169  | 154  | 127  | 85    |             |

MIXED FLOW

| Model        | kW  | HP | Stage | Outlet Size in mm | m <sup>3</sup> /hr | 0   | 5.40 | 7.20 | 9.00 | 10.80 | 12.60 | 14.40 | 16.20 |
|--------------|-----|----|-------|-------------------|--------------------|-----|------|------|------|-------|-------|-------|-------|
|              |     |    |       |                   | lps                | 0   | 1.5  | 2.0  | 2.5  | 3.0   | 3.5   | 4.0   | 4.5   |
| CRI4M-8E/8*  | 1.5 | 2  | 8     | 50/65             | Head in Metres     | 51  | 44   | 39   | 32   | 25    | 17    |       |       |
| CRI4M-8E/17  | 3.7 | 5  | 17    | 50                |                    | 108 | 96   | 85   | 70   | 55    | 40    |       |       |
| CRI4M-13/9   | 2.2 | 3  | 9     | 50/65             |                    | 47  |      | 41   | 38   | 35    | 31    | 26    | 20    |
| CRI4M-13/12  | 3.7 | 5  | 12    | 50/60             |                    | 50  | 48   | 45   | 41   | 32    | 24    |       |       |
| CRI4M-13/14* | 3.7 | 5  | 14    | 50/80             |                    | 67  | 61   | 56   | 51   | 44    | 37    |       |       |

\* Marked pumpsets are having ISI licence

## PERFORMANCE CHART



GENIE SERIES  
100mm BOREWELL SUBMERSIBLE PUMPSETS

2850 RPM - At Rated Voltage - Single Phase - 220 Volts,  
Three Phase - 380 - 400 Volts 50Hz, A.C. Supply.

Maximum Outer Diameter : 98mm

MIXED FLOW

| Model       | kW  | HP | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps<br>Head in Metres | 0  | 7.92 | 10.01 | 11.99 | 14.00 | 15.98 | 18.00 | 20.02 |
|-------------|-----|----|-------|-------------------|---------------------------------------------|----|------|-------|-------|-------|-------|-------|-------|
|             |     |    |       |                   |                                             | 0  | 2.20 | 2.78  | 3.33  | 3.89  | 4.44  | 5.00  | 5.56  |
| CRI4M-14/07 | 2.2 | 3  | 7     | 50                | 38                                          | 33 | 30   | 29    | 22    | 18    | 14    | 9     |       |
| CRI4M-14/10 | 2.2 | 3  | 10    | 50                | 59                                          | 49 | 45   | 40    | 34    | 29    | 22    | 15    |       |

MIXED FLOW

| Model       | kW  | HP | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps<br>Head in Metres | 0  | 12.6 | 14.4 | 16.2 | 18.0 | 19.8 | 21.6 | 23.4 | 25.2 |
|-------------|-----|----|-------|-------------------|---------------------------------------------|----|------|------|------|------|------|------|------|------|
|             |     |    |       |                   |                                             | 0  | 3.5  | 4.0  | 4.5  | 5.0  | 5.5  | 6.0  | 6.5  | 7.0  |
| CRI4P-20/06 | 1.5 | 2  | 6     | 65                | 38                                          | 28 | 26   | 24   | 22   | 19   | 17   | 14   | 11   |      |
| CRI4P-20/06 | 2.2 | 3  | 6     | 65                | 39                                          | 30 | 28   | 25   | 23   | 20   | 17   | 14   | 11   |      |
| CRI4P-20/07 | 2.2 | 3  | 7     | 65                | 44                                          | 33 | 31   | 29   | 26   | 23   | 20   | 17   | 14   |      |
| CRI4P-20/08 | 2.2 | 3  | 8     | 65                | 52                                          | 40 | 38   | 35   | 32   | 28   | 25   | 21   | 18   |      |
| CRI4P-20/10 | 3.7 | 5  | 10    | 65                | 63                                          | 50 | 46   | 43   | 39   | 35   | 30   | 27   | 23   |      |

## MATERIAL OF CONSTRUCTION - PUMP

| Part Name                            | Material                                                       |
|--------------------------------------|----------------------------------------------------------------|
| Suction housing                      | Cast iron                                                      |
| Impeller                             | Noryl / Delrin                                                 |
| Diffuser chamber                     | SS 304 / Cast Iron / Noryl                                     |
| Check valve housing                  | Cast iron                                                      |
| Check valve                          | Delrin                                                         |
| Outer shell                          | SS 304                                                         |
| Pump shaft                           | SS 304 / SS 410 / SS 431                                       |
| Counter thrust pad                   | SS 304 / Hylem                                                 |
| Intermediate bearing (Sleeve / Bush) | SS 304 / NBR / LTB 4 /<br>Teflon Carbon / Gunmetal with rubber |
| Coupling                             | SS 304 / 410                                                   |

## MATERIAL OF CONSTRUCTION - MOTOR

| Part Name       | Material                  |
|-----------------|---------------------------|
| Shaft seal      | Nitrile butyl rubber      |
| Rotor Shaft     | SS 410 / 431              |
| Stator Shell    | SS 441 / SS 304           |
| Journal bushes  | Carbon                    |
| Snap ring       | SS 316                    |
| Thrust assembly | SS 420 & Graphite Carbon  |
| Diaphragm       | High Nitrile butyl rubber |
| Motor base      | Cast iron                 |





## 100mm Borewell Submersible Pumpsets ZUNO Series

C.R.I. Zuno 100 mm Borewell submersible motors are pre-filled with non-toxic liquid for best performance in low voltage and high efficiency. The pump is firmly coupled to a submersible electric motor which operates submerged beneath the surface of water. 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.

| SPECIFICATIONS                       | 100mm ZUNO                                            |
|--------------------------------------|-------------------------------------------------------|
| Power range                          | 0.37 kW - 1.5 kW (0.5 HP - 3 HP)                      |
| Speed                                | 2850 RPM                                              |
| Version                              | Single phase 230 V; Three phase 415V, 50Hz, AC Supply |
| Maximum head                         | 220 metre                                             |
| Maximum flow rate                    | 7 lps (25.2 m <sup>3</sup> /h)                        |
| Maximum outer diameter               | 98 mm                                                 |
| Nominal outlet size                  | 32, 40 & 50 mm                                        |
| Degree of protection                 | IP 58                                                 |
| Direction of rotation                | Counter clockwise from driving end - Single phase     |
| Thrust load                          | 0.37kW - 0.75kW - 650 lbs; 1.1kW - 1.5kW - 1000 lbs;  |
| Minimum cooling flow along the motor | 0.15 m/sec                                            |
| Type of duty                         | S1 (Continuous)                                       |
| Method of starting                   | 1Ph - CSCR / CSR                                      |
| Maximum starts per hour              | 20 times                                              |

### SALIENT FEATURES

- Motor portion covered with corrosive resistance Stainless steel (SS 304) shell
- More durable and hygiene • High operating efficiency • Specially designed angular contact bearing to withstand high axial thrust load • Easy removal of stator ensures service feasibility • Designed for wide voltage operation • Non-toxic pre filled liquid motor ensures low voltage performance

### APPLICATIONS

- Domestic and municipal water supply
- Rural water supply
- Sprinkler system
- Pressure boosting units
- Fire fighting system
- Industrial and mining application
- Fountains

## PERFORMANCE CHART



ZUNO SERIES  
100mm BOREWELL SUBMERSIBLE PUMPSETS

2850 RPM - At Rated Voltage - Single Phase - 220 Volts,  
Three Phase - 380 - 400 Volts 50Hz, A.C. Supply.

Maximum Outer Diameter : 98mm

RADIAL FLOW

| Model        | kW   | HP   | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 0.72 | 1.08 | 1.44 | 1.80 | 2.16 | 2.52 | 2.88 | 3.24 | Star Rating |
|--------------|------|------|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|------|-------------|
|              |      |      |       |                   |                           | 0   | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  |             |
| CRI4F-1F/07* | 0.37 | 0.5  | 7     | 32                | Head in Metres            | 59  | 55   | 52   | 47   | 40   | 31   | 17   |      |      |             |
| CRI4F-1F/16* | 0.75 | 1    | 16    | 32                |                           | 129 | 125  | 121  | 106  | 84   | 56   | 34   | 18   | 4    |             |
| CRI4R-2N/06* | 0.37 | 0.5  | 6     | 32                |                           | 45  | 42   | 39   | 36   | 33   | 29   | 25   | 22   | 17   | 5           |
| CRI4R-2N/08* | 0.55 | 0.75 | 8     | 32                |                           | 62  | 57   | 54   | 50   | 46   | 41   | 35   | 29   | 22   | 5           |
| CRI4R-2N/13* | 0.75 | 1    | 13    | 32                |                           | 97  | 88   | 82   | 76   | 69   | 60   | 51   | 43   | 33   | 4           |
| CRI4R-2N/19* | 1.1  | 1.5  | 19    | 32                |                           | 141 | 129  | 122  | 112  | 102  | 90   | 80   | 66   | 50   | 3           |
| CRI4R-2N/25* | 1.5  | 2    | 25    | 32                |                           | 183 | 167  | 158  | 146  | 134  | 119  | 102  | 83   | 65   | 4           |
| CRI4R-2N/30  | 1.5  | 2    | 30    | 32                |                           | 220 | 198  | 184  | 169  | 155  | 138  | 115  | 94   | 73   |             |

RADIAL FLOW

| Model       | kW  | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 1.44 | 1.80 | 2.16 | 2.52 | 2.88 | 3.24 | 3.60 | 4.32 | Star Rating |
|-------------|-----|-----|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|------|-------------|
|             |     |     |       |                   |                           | 0   | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  | 1.2  |             |
| CRI4F-3/14* | 1.1 | 1.5 | 14    | 32                | Head in Metres            | 110 | 102  | 98   | 94   | 90   | 85   | 77   | 67   | 44   | 4           |

RADIAL FLOW

| Model        | kW   | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 1.80 | 2.16 | 2.52 | 2.88 | 3.24 | 3.60 | 4.32 | 5.04 | Star Rating |
|--------------|------|-----|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|------|-------------|
|              |      |     |       |                   |                           | 0   | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  | 1.2  | 1.4  |             |
| CRI4R-3E/05  | 0.75 | 1   | 5     | 32                | Head in Metres            | 37  | 35   | 34   | 32   | 30   | 27   | 24   | 18   | 10   | 5           |
| CRI4R-3E/07* | 0.75 | 1   | 7     | 32                |                           | 54  | 50   | 49   | 47   | 45   | 43   | 40   | 31   | 24   | 5           |
| CRI4R-3E/09* | 0.75 | 1   | 9     | 32                |                           | 71  | 66   | 64   | 61   | 58   | 54   | 50   | 41   | 32   | 5           |
| CRI4R-3E/10  | 0.75 | 1   | 10    | 32                |                           | 77  | 66   | 64   | 61   | 58   | 55   | 52   | 44   | 19   | 5           |
| CRI4R-3E/11* | 1.1  | 1.5 | 11    | 32                |                           | 89  | 84   | 82   | 79   | 76   | 73   | 69   | 54   | 38   | 4           |
| CRI4R-3E/15  | 1.1  | 1.5 | 15    | 32                |                           | 109 | 94   | 91   | 87   | 83   | 78   | 71   | 56   | 38   | 5           |
| CRI4R-3E/14  | 1.5  | 2   | 14    | 32                |                           | 112 | 103  | 99   | 96   | 92   | 88   | 82   | 67   | 50   |             |
| CRI4R-3E/16  | 1.5  | 2   | 16    | 32                |                           | 125 | 118  | 115  | 112  | 106  | 99   | 93   | 77   | 59   |             |
| CRI4R-3E/17  | 1.5  | 2   | 17    | 32                |                           | 121 | 114  | 111  | 107  | 103  | 99   | 91   | 74   | 56   |             |
| CRI4R-3E/24* | 2.2  | 3   | 24    | 32/40             |                           | 182 | 171  | 167  | 162  | 157  | 148  | 138  | 120  | 86   |             |

\* Marked pumpsets are having ISI licence

## PERFORMANCE CHART

### ZUNO SERIES 100mm BOREWELL SUBMERSIBLE PUMPSETS

#### RADIAL FLOW

2850 RPM - At Rated Voltage - Single Phase - 220 Volts,

Three Phase - 380 - 400 Volts 50Hz, A.C. Supply.

Maximum Outer Diameter : 98mm

| Model       | kW   | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr | 0   | 3.24 | 3.60 | 4.32 | 5.04 | 5.76 | 6.48 | 7.20 | 7.92 | Star Rating |
|-------------|------|-----|-------|-------------------|--------------------|-----|------|------|------|------|------|------|------|------|-------------|
|             |      |     |       |                   |                    | 0   | 0.9  | 1.0  | 1.2  | 1.4  | 1.6  | 1.8  | 2.0  | 2.2  |             |
| CRI4R-5/07* | 0.75 | 1   | 7     | 32/40             | Head in Metres     | 50  | 43   | 41   | 38   | 34   | 29   | 24   | 17   | 10   | 5           |
| CRI4R-5/09* | 1.1  | 1.5 | 9     | 40                |                    | 66  | 58   | 56   | 52   | 47   | 40   | 34   | 28   | 20   | 4           |
| CRI4R-5/10* | 1.5  | 2   | 10    | 50                |                    | 73  | 65   | 63   | 59   | 53   | 47   | 39   | 28   | 19   |             |
| CRI4R-5/12  | 1.5  | 2   | 12    | 40                |                    | 89  | 78   | 76   | 71   | 65   | 58   | 47   | 35   | 23   |             |
| CRI4R-5/15* | 2.2  | 3   | 15    | 40                |                    | 111 | 97   | 95   | 89   | 82   | 71   | 59   | 45   | 30   |             |
| CRI4R-5/18* | 2.2  | 3   | 18    | 40/50             |                    | 132 | 116  | 113  | 104  | 95   | 85   | 71   | 53   | 35   |             |

#### MIXED FLOW

| Model      | kW  | HP | Stage | Outlet Size in mm | m <sup>3</sup> /hr | 0  | 5.40 | 7.20 | 9.00 | 10.80 | 12.60 | 14.40 | 16.20 |
|------------|-----|----|-------|-------------------|--------------------|----|------|------|------|-------|-------|-------|-------|
|            |     |    |       |                   |                    | 0  | 1.5  | 2.0  | 2.5  | 3.0   | 3.5   | 4.0   | 4.5   |
| CRI4M-8E/8 | 1.5 | 2  | 8     | 65                | Head in Metres     | 51 | 44   | 40   | 32   | 25    | 17    |       |       |
| CRI4M-13/9 | 2.2 | 3  | 9     | 50/65             |                    | 47 |      | 41   | 38   | 35    | 31    | 26    | 19.5  |

#### MIXED FLOW

| Model       | kW  | HP | Stage | Outlet Size in mm | m <sup>3</sup> /hr | 0  | 12.6 | 14.4 | 16.2 | 18.0 | 19.8 | 21.6 | 23.4 | 25.2 |
|-------------|-----|----|-------|-------------------|--------------------|----|------|------|------|------|------|------|------|------|
|             |     |    |       |                   |                    | 0  | 3.5  | 4.0  | 4.5  | 5.0  | 5.5  | 6.0  | 6.5  | 7.0  |
| CRI4P-20/06 | 2.2 | 3  | 6     | 65                | Head in Metres     | 39 | 30   | 28   | 25   | 23   | 20   | 17   | 14   | 11   |

## PERFORMANCE CHART



ZUNO SERIES  
100mm BOREWELL SUBMERSIBLE PUMPSETS

2850 RPM - At Rated Voltage - Single Phase - 220 Volts,  
Three Phase - 380 - 400 Volts 50Hz, A.C. Supply.  
Maximum Outer Diameter : 98mm

### MATERIAL OF CONSTRUCTION - PUMP

| Part Name                            | Material                                        |
|--------------------------------------|-------------------------------------------------|
| Suction housing                      | Cast iron                                       |
| Impeller                             | Noryl / Delrin                                  |
| Diffuser chamber                     | Cast Iron / Noryl / SS 304                      |
| Pump shaft                           | SS 410 / SS 431 / SS 304                        |
| Check valve housing                  | Cast iron                                       |
| Check valve                          | Delrin                                          |
| Outer shell                          | SS 304                                          |
| Counter thrust pad                   | SS 304 / Hylem                                  |
| Intermediate bearing (Sleeve / Bush) | SS 304 / NBR / LTB 4<br>(Gun metal with rubber) |
| Coupling                             | SS 304 / 410                                    |

### MATERIAL OF CONSTRUCTION - MOTOR

| Part Name    | Material                                     |
|--------------|----------------------------------------------|
| Shaft seal   | Nitrile butyl rubber / Mechanical seal       |
| Rotor shaft  | SS 410 / SS 431                              |
| Stator shell | SS 304                                       |
| Bearing      | SS Ball Bearing & SS Angular contact bearing |
| Diaphragm    | High Nitrile Butyl rubber                    |



## 100mm Borewell Submersible Pumpsets STEELIX Series

C.R.I. offers 100% stainless steel submersibles for domestic and agriculture applications. These pumps are made of corrosive resistance stainless steel which results more longevity and hygiene. The optimal design enables best possible hydraulic efficiency and the wide range of products which is more suitable for saline water and industrial applications.



| SPECIFICATIONS                       | 100mm STEELIX                                                                              |
|--------------------------------------|--------------------------------------------------------------------------------------------|
| Power range                          | 0.37 kW - 7.5 kW (0.5HP - 10HP)                                                            |
| Speed                                | 2900 RPM                                                                                   |
| Version                              | 230V Single – Phase; 50Hz, AC supply<br>380 – 415V Three – Phase; 50Hz, AC supply          |
| Maximum total head                   | 487 metre                                                                                  |
| Maximum flow rate                    | Upto 3.05 lps (11 m³/hr)                                                                   |
| Nominal outlet size                  | 32, 40 & 50mm                                                                              |
| Degree of protection                 | IP 58                                                                                      |
| Maximum outer diameter               | 97 mm                                                                                      |
| Direction of rotation                | Single Phase - Counter Clockwise from driving end<br>Three Phase - Electrically reversible |
| Minimum cooling flow along the motor | 0.15 m /sec                                                                                |
| Type of duty                         | S1 ( Continuous )                                                                          |
| Method of starting                   | Single Phase - Capacitor Start Capacitor Run; Three Phase - DOL / SD                       |
| Maximum starts per hour              | 20 times                                                                                   |

### SALIENT FEATURES

- Motor Pump components are made up of corrosive resistant SS 304 / SS 316 • Motor portion covered with corrosive resistance stainless steel SS 304 / SS 316 shell • Best suitable for saline water and industrial applications • High operating efficiency • More longevity & hygiene • Specially designed thrust bearing or angular contact ball bearing to withstand high axial thrust load • Extremely hard wearing water lubricated bush bearing (or) double sealed ball bearing • Designed for wide voltage operation • Non-toxic liquid filled motor to ensure the low voltage performance • Additional intermediate bearing on higher stage pump to ensure the deflection free rotation of pump

### APPLICATIONS

- Residential • Irrigation
- Civil water supply • Fountains
- Fire fighting & Pressure Boosting
- Sprinkler Systems • Industrial & Mining
- Food processing industry • Golf Course
- De – Salination plants

## PERFORMANCE CHART



STEELIX SERIES

100mm BOREWELL SUBMERSIBLE PUMPSETS

2900 RPM, At Rated Voltage – Single Phase 230 Volts,

Three Phase 380 / 415 Volts, 50 Hz, A.C. Supply

Maximum Outer Diameter : 97mm

RADIAL FLOW

| Model          | kW   | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 0.4  | 0.6  | 0.8  | 1.0  | 1.2  | 1.4  | 1.6  | 1.7  |
|----------------|------|-----|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|------|
|                |      |     |       |                   |                           | 0   | 0.11 | 0.16 | 0.22 | 0.27 | 0.33 | 0.38 | 0.44 | 0.47 |
| WA4AS-1/0.5/14 | 0.37 | 0.5 | 14    | 32                | Head in Metres            | 80  | 71   | 65   | 58   | 49   | 39   | 29   | 18   | 13   |
| WA4AS-1/1.0/28 | 0.75 | 1   | 28    | 32                |                           | 165 | 148  | 135  | 123  | 108  | 90   | 69   | 47   | 35   |
| WA4AS-1/1.5/36 | 1.1  | 1.5 | 36    | 32                |                           | 198 | 182  | 165  | 145  | 123  | 102  | 80   | 54   | 41   |

RADIAL FLOW

| Model                 | kW   | HP   | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 0.6  | 1.0  | 1.4  | 1.8  | 2.0  | 2.2  | 2.6  |
|-----------------------|------|------|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|
|                       |      |      |       |                   |                           | 0   | 0.16 | 0.27 | 0.38 | 0.50 | 0.55 | 0.61 | 0.72 |
| WA4AS-2/0.5/9         | 0.37 | 0.5  | 9     | 32                | Head in Metres            | 54  | 49   | 45   | 40   | 35   | 30   | 25   | 19   |
| WA4AS-2/0.75/15       | 0.55 | 0.75 | 15    | 32                |                           | 90  | 82   | 78   | 70   | 60   | 57   | 48   | 38   |
| WA4AS-2/1/18          | 0.75 | 1    | 18    | 32                |                           | 120 | 115  | 102  | 92   | 80   | 72   | 63   | 50   |
| WA4AS-2/1.5/23        | 1.1  | 1.5  | 23    | 32                |                           | 145 | 140  | 128  | 113  | 93   | 82   | 71   | 57   |
| WA4BS / WC4BS -2/2/28 | 1.5  | 2    | 28    | 32                |                           | 180 | 172  | 160  | 142  | 121  | 110  | 98   | 77   |
| WA4BS-2/2/33          | 1.5  | 2    | 33    | 32                |                           | 215 | 199  | 183  | 165  | 140  | 124  | 108  | 82   |
| WC4BS-2/3/40          | 2.2  | 3    | 40    | 32                |                           | 249 | 232  | 218  | 195  | 165  | 144  | 127  | 92   |

RADIAL FLOW

| Model                 | kW   | HP   | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 1.5  | 2.0  | 2.5  | 3.0  | 3.5  | 4.0  | 4.5  |
|-----------------------|------|------|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|
|                       |      |      |       |                   |                           | 0   | 0.41 | 0.55 | 0.69 | 0.83 | 0.97 | 1.11 | 1.25 |
| WA4AS-3/0.75/9        | 0.55 | 0.75 | 9     | 32                | Head in Metres            | 54  | 52   | 50   | 48   | 42   | 35   | 27   | 15   |
| WA4AS-3/1/12          | 0.75 | 1    | 12    | 32                |                           | 75  | 69   | 65   | 60   | 54   | 45   | 33   | 20   |
| WA4AS-3/1.5/15        | 1.1  | 1.5  | 15    | 32                |                           | 98  | 90   | 86   | 80   | 72   | 60   | 45   | 28   |
| WA4AS-3/1.5/18        | 1.1  | 1.5  | 18    | 32                |                           | 110 | 106  | 102  | 95   | 86   | 73   | 52   | 34   |
| WA4BS-3/2/22          | 1.5  | 2    | 22    | 32                |                           | 145 | 140  | 130  | 120  | 105  | 88   | 65   | 40   |
| WA4BS / WC4BS -3/2/25 | 1.5  | 2    | 25    | 32                |                           | 168 | 159  | 148  | 134  | 117  | 99   | 74   | 45   |
| WC4BS-3/3/29          | 2.2  | 3    | 29    | 32                |                           | 190 | 181  | 170  | 159  | 140  | 117  | 89.5 | 50   |
| WC4BS-3/5/52          | 3.7  | 5    | 52    | 32                |                           | 330 | 303  | 290  | 272  | 244  | 206  | 162  | 103  |
| WC4BS-3/5/60          | 3.7  | 5    | 60    | 32                |                           | 384 | 345  | 328  | 304  | 274  | 228  | 180  | 110  |

## PERFORMANCE CHART

STEELIX SERIES  
100mm BOREWELL SUBMERSIBLE PUMPSETS

RADIAL FLOW

2900 RPM, At Rated Voltage – Single Phase 230 Volts,

Three Phase 380 / 415 Volts, 50 Hz, A.C. Supply

Maximum Outer Diameter : 97mm

| Model                 | kW   | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 2    | 3    | 4    | 5    | 6    | 7    |
|-----------------------|------|-----|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|
|                       |      |     |       |                   |                           | 0   | 0.55 | 0.83 | 1.10 | 1.39 | 1.66 | 1.94 |
| WA4AS-5/1/8           | 0.75 | 1   | 8     | 40                | Head in Metres            | 46  | 42.5 | 40   | 37   | 32   | 23   | 15   |
| WA4AS-5/1.5/12        | 1.1  | 1.5 | 12    | 40                |                           | 75  | 71   | 65   | 57   | 48   | 38   | 24   |
| WA4BS / WC4BS -5/2/17 | 1.5  | 2   | 17    | 40                |                           | 108 | 94   | 88   | 80   | 68   | 51   | 33   |
| WC4BS-5/3/25          | 2.2  | 3   | 25    | 40                |                           | 162 | 143  | 131  | 119  | 102  | 77   | 53   |
| WC4BS-5/5/38          | 3.7  | 5   | 38    | 40                |                           | 241 | 215  | 198  | 177  | 152  | 119  | 81   |
| WC4BS-5/5/44          | 3.7  | 5   | 44    | 40                |                           | 280 | 244  | 223  | 199  | 170  | 134  | 92   |
| WC4BS-5/7.5/52        | 5.5  | 7.5 | 52    | 40                |                           | 324 | 281  | 258  | 230  | 199  | 156  | 108  |
| WC4BS-5/7.5/60        | 5.5  | 7.5 | 60    | 40                |                           | 360 | 322  | 300  | 262  | 236  | 190  | 130  |
| WC4BS-5/10/75         | 7.5  | 10  | 75    | 40                |                           | 487 | 427  | 392  | 352  | 302  | 237  | 168  |

RADIAL FLOW

| Model                | kW  | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0   | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
|----------------------|-----|-----|-------|-------------------|---------------------------|-----|------|------|------|------|------|------|------|------|------|
|                      |     |     |       |                   |                           | 0   | 0.83 | 1.11 | 1.39 | 1.66 | 1.94 | 2.22 | 2.50 | 2.78 | 3.05 |
| WA4BS / WC4BS-8/2/10 | 1.5 | 2   | 10    | 50                | Head in Metres            | 63  | 55   | 52   | 50   | 48   | 44   | 40   | 35   | 60   | 24   |
| WC4BS-8/3/12         | 2.2 | 3   | 12    | 50                |                           | 74  | 69   | 67   | 65   | 61   | 56   | 51   | 45   | 37   | 28   |
| WC4BS-8/3/15         | 2.2 | 3   | 15    | 50                |                           | 94  | 86   | 83   | 79   | 75   | 69   | 63   | 55   | 47   | 36   |
| WC4BS-8/4/18         | 3   | 4   | 18    | 50                |                           | 112 | 107  | 103  | 99   | 94   | 87   | 79   | 69   | 57   | 44   |
| WC4BS-8/5/22         | 3.7 | 5   | 22    | 50                |                           | 136 | 129  | 124  | 117  | 110  | 102  | 93   | 82   | 69   | 54   |
| WC4BS-8/5/25         | 3.7 | 5   | 25    | 50                |                           | 155 | 142  | 136  | 130  | 124  | 116  | 106  | 94   | 79   | 63   |
| WC4BS-8/7.5/37       | 5.5 | 7.5 | 37    | 50                |                           | 230 | 204  | 195  | 185  | 173  | 162  | 146  | 131  | 112  | 89   |

### MATERIAL OF CONSTRUCTION - PUMP

| Part Name           | Material        |
|---------------------|-----------------|
| Impeller            | SS 304          |
| Stage Casing        | SS 304          |
| Pump Shaft          | SS 304 / SS 431 |
| Bracket             | SS 304          |
| Check Valve Housing | SS 304          |
| Inlet Screen        | SS 304          |

### MATERIAL OF CONSTRUCTION - MOTOR

| Part Name             | Material                 |
|-----------------------|--------------------------|
| Upper & Lower Housing | Cast Iron                |
| Stator Shell          | SS 304 / SS 441          |
| Rotor Shaft           | SS 431 / SS 410          |
| Journal Bushes        | Carbon                   |
| Thrust Assembly       | SS 420 & Graphite Carbon |





# Vertical Openwell Submersible Pumpsets

## LTK Series

LTK Series



C.R.I. Vertical Openwell Submersible Pumpsets are ideally suitable for Openwell / Tanks where a wide fluctuation of water level occur. This works underwater and rest at the bottom of the well or Tank. Hence suction and priming problem will not arise. The optimal design of impellers and diffusers enables the best possible hydraulic efficiency. Motor sealing is made by polymers, 'O' rings, oil seals and sand guard to avoid ingress of well water/sand into the motor. Pressure equalizing rubber diaphragm is provided to guard the motor from pressure and volume variation of water inside the motor. Motor must be filled with clear, cold, drinking water as detailed in our operator's manual.

| SPECIFICATIONS          | LTK                                     |
|-------------------------|-----------------------------------------|
| Power range             | 0.75 kW & 1.1 kW (1HP & 1.5HP)          |
| Speed                   | 2880 RPM                                |
| Version                 | Single phase 220 - 240V, 50Hz AC Supply |
| Maximum total head      | 89 metre                                |
| Maximum flow rate       | 1.6 lps (6 m³/h)                        |
| Nominal outlet size     | 32 mm                                   |
| Degree of protection    | IP 58                                   |
| Direction of rotation   | Counter Clockwise from driving end;     |
| Type of duty            | S1 (Continuous)                         |
| Method of starting      | Single Phase - CSCR;                    |
| Maximum starts per hour | 10 times                                |

### SALIENT FEATURES

- High operating efficiency
- Motor is designed with higher cooling effect to ensure the life
- Easy to dismantle and repair
- Noise-less operation

### APPLICATIONS

- Domestic
- Multi storey buildings
- Irrigation
- Gardens
- Rural water supply

## PERFORMANCE CHART

LTK SERIES  
VERTICAL OPENWELL SUBMERSIBLE PUMPSETS

2880 RPM, At Rated Voltage – Single Phase – 220 - 240 Volts;  
Three Phase – 380 - 415 Volts, 50Hz, A.C. Supply.

| Model             | kW   | HP  | Stage | Outlet Size in mm | m <sup>3</sup> /hr<br>lps<br>Head in Metres | 0  | 1.5  | 2.0  | 2.5  | 3.0  | 3.5  | 4.0  | 4.5  | 5.0  | 6.0  |
|-------------------|------|-----|-------|-------------------|---------------------------------------------|----|------|------|------|------|------|------|------|------|------|
|                   |      |     |       |                   |                                             | 0  | 0.42 | 0.55 | 0.69 | 0.83 | 0.97 | 1.11 | 1.25 | 1.39 | 1.66 |
| LTK – 3E/07M - 9  | 0.75 | 1   | 9     | 32                | 73                                          | 68 | 67   | 62   | 59   | 51   | 50   | 45   | 26   | 11   |      |
| LTK – 3E/11M – 11 | 1.1  | 1.5 | 11    | 32                | 89                                          | 83 | 79   | 72   | 67   | 61   | 60   | 45   | 37   | 13   |      |

### MATERIAL OF CONSTRUCTION - PUMPSET

| Part Name                     | Material                    |
|-------------------------------|-----------------------------|
| Stator Shell                  | Mild Steel                  |
| Diaphragm                     | High Nitrile Rubber         |
| Lower Housing / Upper Housing | Cast Iron                   |
| Shaft                         | SS 410                      |
| Shaft Seal                    | Nitrile Butyl Rubber        |
| Thrust Assembly               | SS 420 with Graphite Carbon |
| Journal Bushes                | Carbon                      |
| Check Valve Housing           | Cast Iron                   |
| Casing / Outer Shell          | SS                          |
| Impeller                      | Noryl                       |
| Diffuser Chamber - LTK Series | Noryl                       |
| Suction inter Connector       | Cast Iron                   |
| Pump Shaft                    | SS 304                      |
| Coupling                      | SS 410                      |



**Plano**



**CSS Series**



**CSS-4S Series**



**selfy+**



## Horizontal Openwell Submersible Pumpsets Plano / CSS / CSS-J / Selfy+ Series

C.R.I. Horizontal Openwell Submersible Pumpsets are ideally suitable for Openwell / Tanks where a wide fluctuation of water level occur. The pumpset works underwater and rest at the bottom of the well or Tank. Hence suction and priming problem will not arise. The optimal design of impellers and diffusers enables the best possible hydraulic efficiency. Motor sealing is made by polymers, 'O' rings, oil seals and sand guard to avoid ingress of well water/sand into the motor. Pressure equalizing rubber diaphragm is provided to guard the motor from pressure and volume variation of water inside the motor. Plano & CSS Series must be filled with clear, cold, drinking water as detailed in our operator's manual.

**Selfy +** Regenerative open well submersible pumpsets are uniquely designed for silent operation .It works under the water and operates direct suction through corporation water supply . To avoid ingress of water inside the motor, sealing is made of Mechanical seal and Oil Seal .Cast Iron Motor Body construction ensures Rigidity and Higher Cooling effect .

### SPECIFICATIONS

Plano / CSS / CSS-J / Selfy +

|                         |                                                                 |
|-------------------------|-----------------------------------------------------------------|
| Power range             | 0.37 kW - 2.2 kW (0.5HP - 3HP)                                  |
| Speed                   | 2880 RPM                                                        |
| Version                 | Single phase 220 - 240V, Three phase 380 - 415V, 50Hz AC Supply |
| Maximum total head      | Upto 56.5 metre                                                 |
| Maximum flow rate       | Upto 17 lps (61.2 m³/hr)                                        |
| Nominal outlet size     | 25, 40, 50 mm                                                   |
| Degree of protection    | IP 58                                                           |
| Direction of rotation   | 1Ph - Clockwise from driving end; 3Ph - Electrically Reversible |
| Type of duty            | S1 (Continuous)                                                 |
| Method of starting      | Single Phase - CSR / CSCR; Three Phase - DOL                    |
| Maximum starts per hour | 10 times                                                        |

### SALIENT FEATURES

- High operating efficiency • Motor is designed with higher cooling effect to ensure the life • Easy to dismantle and repair • Available in SS 304, CI and Noryl impellers • Available with 3 metre and 10 metre cable length

### APPLICATIONS

- Domestic
- Multi storey buildings
- Irrigation
- Gardens
- Rural water supply

## PERFORMANCE CHART

CSS SERIES  
HORIZONTAL OPENWELL SUBMERSIBLE PUMPSETS

2880 RPM, At Rated Voltage – Single Phase – 220 - 240 Volts;  
Three Phase – 380 - 415 Volts, 50Hz, A.C. Supply.

| Model     | kW   | HP   | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0  | 1.8 | 3.6 | 5.4 | 7.2 | 9.0 | 10.8 | 12.6 | 14.4 | Star Rating |
|-----------|------|------|-------------------|---------------------------|----|-----|-----|-----|-----|-----|------|------|------|-------------|
|           |      |      |                   |                           |    |     |     |     |     |     |      |      |      |             |
| CSS-1*    | 0.37 | 0.5  | 25                | Head in Metres            | 25 | 23  | 21  | 20  | 18  | 16  | 7    |      |      | 5           |
| CSS-3S*   | 0.55 | 0.75 | 25                |                           | 25 | 24  | 23  | 22  | 21  | 18  | 17   | 11   |      | 5           |
| CSS-3*    | 0.75 | 1    | 25                |                           | 26 | 25  | 25  | 23  | 22  | 20  | 18   | 15   | 9    | 5           |
| CSS-3H*   | 0.75 | 1    | 25                |                           | 33 | 32  | 30  | 28  | 25  | 20  | 14   |      |      | 5           |
| CSS-24HH* | 0.75 | 1    | 25                |                           | 33 | 31  | 29  | 27  | 26  | 24  | 22   |      |      |             |
| CSS-25HH  | 1.1  | 1.5  | 25                |                           | 40 | 37  | 34  | 30  | 25  |     |      |      |      |             |
| CSS-26HH  | 1.1  | 1.5  | 25                |                           | 46 | 44  | 41  | 38  | 34  | 25  |      |      |      |             |
| CSS-27HH  | 1.1  | 1.5  | 40                |                           | 46 | 44  | 41  | 38  | 34  | 25  |      |      |      |             |
| CSS-28HH  | 1.1  | 1.5  | 40                |                           | 40 | 37  | 34  | 30  | 25  |     |      |      |      |             |
| CSS-4S    | 1.5  | 2    | 32                |                           | 57 | 55  | 54  | 51  | 45  | 35  | 23   | 9    |      |             |

| Model     | kW  | HP  | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0  | 1.8 | 3.6 | 5.4 | 7.2 | 9  | 10.8 | 12.6 | 14.4 | 16.2 | 18 | 19.8 | 21.6 | 23.4 | 25.2 | 27 | 28.8 | 30.6 | 32.4 | 34.2 | 36 | Star Rating |
|-----------|-----|-----|-------------------|---------------------------|----|-----|-----|-----|-----|----|------|------|------|------|----|------|------|------|------|----|------|------|------|------|----|-------------|
|           |     |     |                   |                           |    |     |     |     |     |    |      |      |      |      |    |      |      |      |      |    |      |      |      |      |    |             |
| CSS-9*    | 1.1 | 1.5 | 50                | Head in Metres            | 17 | 17  | 17  | 16  | 16  | 16 | 16   | 15   | 15   | 15   | 14 | 13   | 12   | 11   | 10   | 9  | 8    |      |      |      |    |             |
| CSS-14*   | 1.5 | 2   | 50                |                           | 22 | 22  | 22  | 22  | 22  | 21 | 21   | 20   | 20   | 19   | 19 | 18   | 17   | 17   | 15   | 14 | 13   | 12   | 11   | 9    | 7  | 5           |
| CSS-14E*  | 1.5 | 2   | 50                |                           | 22 |     |     | 22  | 22  | 22 | 22   | 21   | 21   | 21   | 20 | 20   | 19   | 18   | 17   | 16 | 15   | 14   | 13   | 12   | 10 | 5           |
| CSS-16HH* | 1.5 | 2   | 40                |                           | 33 | 33  | 33  | 32  | 31  | 31 | 30   | 28   | 27   | 26   | 24 |      |      |      |      |    |      |      |      |      |    | 5           |
| CSS-18*   | 2.2 | 3   | 50                |                           | 34 | 34  | 34  | 34  | 33  | 32 | 32   | 31   | 30   | 29   | 27 | 26   | 24   | 23   | 22   |    |      |      |      |      |    | 5           |

| Model   | kW  | HP | Outlet Size in mm | m <sup>3</sup> /hr<br>lps | 0  | 18 | 21.6 | 21.6 | 28.8 | 32.4 | 36 | 39.6 | 43.2 | 46.8 | 50.4 | 54 | 57.6 | 61.2 |
|---------|-----|----|-------------------|---------------------------|----|----|------|------|------|------|----|------|------|------|------|----|------|------|
|         |     |    |                   |                           |    |    |      |      |      |      |    |      |      |      |      |    |      |      |
| CSS-36J | 1.5 | 2  | 100               | Head in Metres            | 14 | 13 | 13   | 13   | 12   | 12   | 11 | 11   | 10   | 9    | 9    | 8  | 6    | 5    |
| CSS-37J | 1.5 | 2  | 80                |                           | 14 | 14 | 14   | 13   | 13   | 12   | 12 | 11   | 11   | 10   | 9    | 8  | 7    | 6    |

## PERFORMANCE CHART



## PLANO SERIES

2880 RPM At Rated Voltage - Single Phase 220 - 240v, 50Hz, AC Supply

## HORIZONTAL OPENWELL SUBMERSIBLE PUMPSETS

| Model     | kW   | HP  | Suction x<br>Delivery<br>in mm | m <sup>3</sup> /hr<br>lps | 0.0 | 1   | 1.8 | 2.7 | 3.6 | 4.5 | 4.7 | 5.4 | 5.6 | 6.5 | 7.2 | 7.4 | 7.6 | 7.7 | 8.6 | 9.4 | 10.1 | 10.4 | Star<br>Rating |
|-----------|------|-----|--------------------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|----------------|
|           |      |     |                                |                           | 0.0 | 0.3 | 0.5 | 0.8 | 1.0 | 1.3 | 1.3 | 1.5 | 1.5 | 1.8 | 2.0 | 2.1 | 2.1 | 2.2 | 2.4 | 2.6 | 2.8  | 2.9  |                |
| Plano 50  | 0.37 | 0.5 | 25x25                          | Head in Metres            | 17  |     | 17  | 16  | 15  | 15  | 14  | 14  | 13  | 12  | 11  | 10  | 9   | 9   | 8   |     |      |      |                |
| Plano 52  | 0.37 | 0.5 | 25x25                          |                           | 21  |     | 20  | 20  | 19  | 18  | 18  | 17  | 16  | 15  | 14  | 14  | 14  | 13  | 12  | 9   | 9    | 8    | 5              |
| Plano 104 | 0.75 | 1   | 25x25                          |                           | 33  | 32  | 30  |     | 28  | 24  | 23  | 22  | 22  | 21  | 20  | 19  | 19  | 18  | 17  | 15  | 13   |      | 5              |
| Plano 102 | 0.75 | 1   | 32x25                          |                           | 35  | 33  | 31  | 30  | 28  | 27  | 27  | 26  | 25  | 24  | 24  | 23  | 22  | 21  | 18  | 15  | 14   |      | 5              |
| Plano 103 | 0.75 | 1   | 32x25                          |                           | 35  | 33  | 31  | 30  | 28  | 27  | 27  | 26  | 25  | 24  | 24  | 23  | 22  | 21  | 18  | 15  | 14   |      |                |
| Plano 150 | 1.1  | 1.5 | 32x25                          |                           | 42  |     | 39  | 38  | 37  | 36  | 36  | 34  | 34  | 31  | 29  | 29  | 28  | 28  | 25  | 22  | 16   |      |                |

104 &amp; 103 are available with 10 metre cable

## SELFY + SERIES

1440 RPM At Rated Voltage - Single Phase 220 - 240v, 50Hz, AC Supply

## HORIZONTAL OPENWELL SUBMERSIBLE PUMPSETS

| Model      | kW   | HP  | Suction x<br>Delivery<br>in mm | Speed | m <sup>3</sup> /hr<br>lps | 0  | 0.61 | 0.8  | 1.01 | 1.4  | 1.8 | 2.2  | 2.6  | 3    | 3.38 | 3.82 |
|------------|------|-----|--------------------------------|-------|---------------------------|----|------|------|------|------|-----|------|------|------|------|------|
|            |      |     |                                |       |                           | 0  | 0.17 | 0.22 | 0.28 | 0.39 | 0.5 | 0.61 | 0.72 | 0.83 | 0.94 | 1.06 |
| SELFY 50+  | 0.37 | 0.5 | 25x25                          | 1440  | Head in Metres            | 27 | 24   | 23   | 21   | 19   | 16  | 13   | 10   |      |      |      |
| SELFY 100+ | 0.75 | 1   | 25x25                          | 1440  |                           | 50 | 46   | 45   | 42   | 37   | 32  | 28   | 23   | 17   | 13   | 9    |

## MATERIAL OF CONSTRUCTION - PUMPSET

| Part Name       | Material                                        |
|-----------------|-------------------------------------------------|
| Motor Body      | SS 304                                          |
| Impeller        | Cast Iron / Noryl / SS 304 / High Tensile Brass |
| Casing          | Cast Iron                                       |
| Rear Cover      | Cast Iron                                       |
| Shaft           | SS 410                                          |
| Front Bracket   | Cast Iron                                       |
| Shaft Seal      | Nitrile Butyl Rubber                            |
| Thrust Assembly | Leaded Bronze & Compostos / Ferobestos          |
|                 | SS 410 & Graphite Carbon                        |
| Diaphragm       | High Nitrile Rubber                             |

\* Marked pumpsets are having ISI licence

## Centrifugal Monoblock Pumpsets

### ACM & VIRAT Series

**Virat**



**ACM Series**



C.R.I. Centrifugal Monoblock pumpsets are powered by a totally enclosed fan cooled AC induction two pole motor. Motor stator is made of low watt loss silicon steel laminations assembled under pressure and rigidly locked in the frame. The windings are of high-grade enameled copper wire offer excellent resistance and are varnish impregnated. Construction of motor frame and usage of quality materials result in high performance and low temperature rise thereby increasing the life cycle of the motor.

| SPECIFICATIONS                               | ACM                                                                                                         | VIRAT                            |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------|
| Power range                                  | 0.37 kW - 2.2 kW (0.5 HP - 3 HP)                                                                            | 0.37 kW - 1.5 kW (0.5 HP - 2 HP) |
| Speed                                        | 2880 RPM                                                                                                    |                                  |
| Version                                      | 1Ph - 220 - 240V; 3Ph - 380 - 415V, 50Hz AC Supply.                                                         |                                  |
| Maximum total head                           | 60 metre                                                                                                    | 34 metre                         |
| Maximum flow rate                            | 18 lps (64.8m <sup>3</sup> /hr)                                                                             | 9 lps (32.4m <sup>3</sup> /hr)   |
| Maximum suction lift                         | 7 metre                                                                                                     |                                  |
| Degree of protection                         | IP 44 / IP 54                                                                                               |                                  |
| Class of insulation                          | B                                                                                                           |                                  |
| Maximum ambient temperature                  | 40°C                                                                                                        |                                  |
| Sealing                                      | Mechanical seal                                                                                             |                                  |
| Type of duty                                 | S1 (Continuous)                                                                                             |                                  |
| Method of starting                           | Permanent Split Capacitor (PSC)                                                                             |                                  |
| Direction of rotation                        | 1Ph - Clockwise from driving end; 3Ph - Electrically reversible                                             |                                  |
| Nominal pumpset size<br>(Suction x Delivery) | 25 x 25, 32 x 25, 40 x 32, 40 x 40, 50 x 40,<br>50 x 50, 65 x 50, 80 x 65, 80 x 80, 100 x 80 & 100 x 100 mm |                                  |

#### SALIENT FEATURES

- High operating efficiency resulting in lower power consumption
- Good suction lift characteristics
- Inbuilt with thermal overload protector in all single phase pumpsets upto 2 HP
- Specially designed for wide voltage operation
- SS 304 impellers are used in specific pump models to increase the life of the pump
- Dynamically balanced rotating parts including rotor and impeller ensures minimum vibration and longer life
- Back pull-out design for easy servicing and repair
- Double shielded ball bearings, so no need of external lubrication
- Available in CI & Aluminium frame

#### APPLICATIONS

- Domestic
- Irrigation
- Farms
- Gardens
- Industry
- Civil applications

## PERFORMANCE CHART



ACM SERIES

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;

Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

| Model             | Body | kW   | HP   | Suction x<br>Delivery<br>in mm | m <sup>3</sup> /hr | DISCHARGE |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |    | Star<br>Rating |
|-------------------|------|------|------|--------------------------------|--------------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|----|----------------|
|                   |      |      |      |                                |                    | 0         | 1.4 | 2.2 | 2.6 | 3.8 | 4.2 | 4.6 | 5.4 | 6.1 | 6.8 | 7.6 | 8.3 | 9.0 | 9.7 | 10.4 | 11.2 | 11.9 |    |                |
|                   |      |      |      |                                | lps                | 0         | 0.4 | 0.6 | 0.7 | 1.0 | 1.2 | 1.3 | 1.5 | 1.7 | 1.9 | 2.1 | 2.3 | 2.5 | 2.7 | 2.9  | 3.1  | 3.3  |    |                |
| ACM-0*            | CI   | 0.37 | 0.5  | 25x25                          | Head in Metres     | 19        | 18  | 17  | 16  | 15  | 15  | 14  | 13  | 9   | 8   |     |     |     |     |      |      |      |    |                |
| ACM-2S            | CI   | 0.37 | 0.5  | 25x25                          |                    | 29        |     |     | 26  | 25  | 24  | 23  | 23  | 22  | 18  |     |     |     |     |      |      |      |    | 5              |
| ACM-44            | CI   | 0.55 | 0.75 | 25x25                          |                    | 35        |     |     | 30  | 29  | 28  | 28  | 28  | 26  | 17  | 18  |     |     |     |      |      |      |    | 5              |
| T/ACM-2           | AL   | 0.75 | 1    | 25x25                          |                    | 31        |     |     | 28  | 27  | 26  | 25  | 25  | 24  | 23  | 18  | 13  |     |     |      |      |      |    |                |
| ACM-24            | CI   | 0.75 | 1    | 25x25                          |                    | 34        | 31  | 31  | 30  | 30  | 30  | 30  | 30  | 25  |     |     |     |     |     |      |      |      |    |                |
| ACM-28 / T/ACM-28 | AL   | 1.1  | 1.5  | 32x25                          |                    | 43        |     |     |     |     | 38  | 37  | 37  | 36  | 35  | 35  | 34  | 33  | 32  | 31   | 30   | 28   | 23 |                |

| Model        | Body | kW   | HP  | Suction x<br>Delivery<br>in mm | m <sup>3</sup> /hr | 0   | 8   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
|--------------|------|------|-----|--------------------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              |      |      |     |                                |                    | lps | 2.2 | 2.8 | 3.1 | 3.3 | 3.6 | 3.9 | 4.2 | 4.4 | 4.7 | 5.0 | 5.3 | 5.6 |
| ACM-60 WV/ES | CI   | 0.37 | 0.5 | 50x50                          | Head in Metres     | 14  | 13  | 13  | 13  | 13  | 12  | 12  | 12  | 11  | 11  | 10  | 10  | 9   |

| Model                                            | Body  | kW   | HP  | Suction x<br>Delivery<br>in mm | m <sup>3</sup> /hr | 0   | 10.8 | 14.4 | 18.0 | 21.6 | 25.2 | 28.8 | 32.4 | 36.0 | 39.6 | 43.2 | 46.8 | 50.4 |
|--------------------------------------------------|-------|------|-----|--------------------------------|--------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                  |       |      |     |                                |                    | lps | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   |
| T/ACM-6 / S-ACM-6 SPL                            | CI    | 0.75 | 1   | 50x50                          | Head in Metres     | 13  | 12   | 12   | 11   | 10   | 8    |      |      |      |      |      |      |      |
| ACM-40(S) WV / LV                                | CI/AL | 0.75 | 1   | 80x80                          |                    | 9   |      |      | 9    | 9    | 8    | 8    | 8    | 7    | 7    | 6    | 6    |      |
| S/ACM-18 SPL                                     | CI    | 1.1  | 1.5 | 50x40                          |                    | 23  | 18   | 15   | 11   |      |      |      |      |      |      |      |      |      |
| S/ACM-9 SPL                                      | CI    | 1.1  | 1.5 | 50x50                          |                    | 17  |      | 14   | 12   | 11   | 8    | 4    |      |      |      |      |      |      |
| S/ACM-20 SPL                                     | CI    | 1.1  | 1.5 | 65x50                          |                    | 15  | 15   | 14   | 14   | 14   | 13   | 11   | 8    |      |      |      |      |      |
| ACM-42                                           | AF    | 1.1  | 1.5 | 80x80                          |                    | 14  | 13   | 13   | 13   | 12   | 12   | 11   | 10   | 9    | 8    | 8    | 6    | 5    |
| S/ACM-19 / ACM-19*<br>T/ACM-19 /<br>S/ACM-19 SPL | CI    | 1.5  | 2   | 50x50                          |                    | 24  | 21   | 20   | 19   | 16   | 14   |      |      |      |      |      |      |      |

\* Marked pumpsets are having ISI licence

WV - Wide voltage operation LV - Low voltage operation ES - Extension Shafts available S - Slick H - High head



# PERFORMANCE CHART

## ACM SERIES

### SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;

Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

| Model                                | Body | kW   | HP | Suction x<br>Delivery<br>in mm | m³/hr          | 0    | 10.8 | 14.4 | 18.0 | 21.6 | 25.2 | 28.8 | 32.4 | 36.0 | 39.6 | 43.2 | 46.8 | 50.4 | 54.0 | 57.6 | 61.2 | 64.8 |
|--------------------------------------|------|------|----|--------------------------------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                      |      |      |    |                                |                | 0    | 3    | 4    | 5    | 6    | 7.1  | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   |
| ACM-54                               |      | 0.75 | 1  | 80x80                          | Head in Metres | 13   |      | 12   | 11   | 11   | 10   | 10   | 9    | 8    | 8    | 7    | 6    |      |      |      |      |      |
| ACM-51 / ACM-51WV                    | AF   | 0.75 | 1  | 80x80                          |                | 9    |      |      |      |      | 9    | 8    | 8    | 7    | 7    | 6    | 5    |      |      |      |      |      |
| S/ACM-21 / ACM-21*<br>/SW/ACM-21     | CI   | 1.5  | 2  | 65x50                          |                | 22   | 21   | 20   | 19   | 18   | 17   | 15   | 12   | 9    |      |      |      |      |      |      |      |      |
| ACM-22*                              | CI   | 1.5  | 2  | 80x65                          |                | 16   |      |      |      |      |      |      | 12   | 11   | 10   | 9    | 8    | 7    |      |      |      |      |
| SW/ACM-58 -ES                        | CI   | 1.5  | 2  | 80x65                          |                | 16   |      |      |      |      | 14   | 13   | 12   | 11   | 9    |      |      |      |      |      |      |      |
| SW/ACM-59 - ES                       | CI   | 1.5  | 2  | 80x80                          |                | 15   |      |      |      |      | 14   | 13   | 12   | 11   | 9    |      |      |      |      |      |      |      |
| S/ACM-23 / ACM-23*<br>/SW/ACM-23     | CI   | 1.5  | 2  | 80x80                          |                | 17   |      | 15   | 15   | 14   | 14   | 13   | 12   | 11   | 10   | 9    | 8    | 7    | 6    |      |      |      |
| ACM-23S WV                           | CI   | 1.5  | 2  | 80x80                          |                | 15   |      |      |      |      | 12   | 12   | 11   | 10   | 10   | 9    | 8    | 7    | 6    | 5    |      |      |
| ACM-62                               | CI   | 1.5  | 2  | 80x80                          |                | 14   |      |      | 13   | 12   | 12   | 11   | 10   | 9    | 8    | 8    | 6    | 5    |      |      |      |      |
| ACM-36                               | CI   | 1.5  | 2  | 100x100                        |                | 15   |      |      | 14   | 14   | 14   | 14   | 13   | 13   | 12   | 12   | 11   | 10   | 9    | 8    | 7    |      |
| S/ACM-47 / T/ACM-47<br>/S/ACM-47 SPL | CI   | 2.2  | 3  | 50x50                          |                | 36   |      |      | 31   | 13   | 8    |      |      |      |      |      |      |      |      |      |      |      |
| S/ACM-29 / ACM-29*                   | CI   | 2.2  | 3  | 65x50                          |                | 25   |      |      |      | 23   | 22   | 21   | 19   | 17   | 15   | 13   | 11   |      |      |      |      |      |
| S/ACM-30 / ACM-30*                   | CI   | 2.2  | 3  | 80x65                          |                | 19.5 |      |      | 18   | 18   | 18   | 17   | 17   | 16   | 16   | 15   | 14   | 13   | 12   | 11   |      |      |
| S/ACM-31 / ACM-31                    | CI   | 2.2  | 3  | 80x80                          |                | 19   |      |      |      |      |      |      | 17   | 16   | 15   | 14   | 13   | 12   | 11   | 10   | 9    | 8    |
| S/ACM-34                             | CI   | 2.2  | 3  | 100x100                        |                | 16   |      |      |      | 15   | 15   | 15   | 14   | 14   | 14   | 13   | 13   | 12   | 11   | 10   | 9    | 7    |
| ACM-64                               | CI   | 2.2  | 3  | 100x100                        |                | 15   |      |      | 14   | 14   | 14   | 14   | 13   | 13   | 12   | 12   | 11   | 10   | 9    | 8    | 7    |      |

| Model             | Body | kW   | HP | Suction x<br>Delivery<br>in mm | m³/hr          | 0  | 4   | 6   | 8   | 10  | 11  | 12  | 13  | 18  | 20  | 22  | 24  | 24  | 25  | 27  | 32  | 34  | 38   | 40   | 45   |
|-------------------|------|------|----|--------------------------------|----------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
|                   |      |      |    |                                |                | 0  | 1.1 | 1.7 | 2.2 | 2.8 | 3.1 | 3.3 | 3.6 | 5.0 | 5.6 | 6.1 | 6.7 | 6.8 | 6.9 | 7.5 | 8.9 | 9.4 | 10.6 | 11.1 | 12.5 |
| ACM-40 WV ES / WV | AL   | 0.75 | 1  | 80x80                          | Head in Metres | 13 |     |     |     |     |     |     |     |     | 12  | 11  | 11  | 11  | 11  | 10  | 9   | 9   | 8    | 7    | 6    |
| ACM-40 (S)        | AL   | 0.75 | 1  | 80x80                          |                | 9  |     | 8   | 8   | 7   | 6   | 5   |     |     |     |     |     |     |     |     |     |     |      |      |      |
| S/ACM-45          | CI   | 2.2  | 3  | 50x40                          |                | 37 |     |     |     |     |     | 33  | 33  | 32  | 30  | 28  | 26  | 23  | 20  |     |     |     |      |      |      |

\* Marked pumpsets are having ISI licence

WV - Wide voltage operation    LV - Low voltage operation    ES - Extension Shafts available    S - Slick    H - High head

## PERFORMANCE CHART



ACM SERIES

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;

Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

| Model                | Body  | kW   | HP  | Suction x<br>Delivery<br>in mm | m³/hr          | DISCHARGE |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      | Star<br>Rating |      |      |
|----------------------|-------|------|-----|--------------------------------|----------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|----------------|------|------|
|                      |       |      |     |                                |                | 0         | 1.4 | 2.2 | 2.6 | 3.8 | 4.2 | 4.6 | 5.4 | 6.1 | 6.8 | 7.6 | 8.3 | 9.0 | 9.7 | 10.4 | 11.2 | 11.9 |                | 12.6 | 13.3 |
|                      |       |      |     |                                | lbs            | 0         | 0.4 | 0.6 | 0.7 | 1.0 | 1.2 | 1.3 | 1.5 | 1.7 | 1.8 | 2.1 | 2.3 | 2.5 | 2.7 | 2.9  | 3.1  | 3.3  | 3.5            | 3.7  |      |
| ACM A0*              | AI    | 0.37 | 0.5 | 25x25                          | Head in Metres | 18        |     | 16  | 16  | 14  | 13  | 13  | 12  |     |     |     |     |     |     |      |      |      |                |      |      |
| ACM A1* WV / ES      | AL/CI | 0.37 | 0.5 | 25x25                          |                | 20        |     | 20  | 20  | 18  | 18  | 17  |     |     |     |     |     |     |     |      |      |      |                |      |      |
| ACM A1               | AL/CI | 0.37 | 0.5 | 25x25                          |                |           |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |                |      |      |
| ACM A2S              | AL    | 0.37 | 0.5 | 25x25                          |                | 27        |     | 24  | 23  | 22  | 21  | 20  | 19  | 13  |     |     |     |     |     |      |      |      |                |      | 5    |
| ACM A12              | CI    | 0.37 | 0.5 | 40x40                          |                |           |     |     |     |     |     |     |     |     | 14  | 14  | 13  | 13  | 113 | 12   | 12   | 12   | 11             | 10   |      |
| ACM A25              | CI    | 0.37 | 0.5 | 32x25                          |                | 22        |     |     | 20  | 19  | 19  | 18  | 17  | 17  | 16  | 15  |     |     |     |      |      |      |                |      |      |
| ACM A48 WV / DF / ES | CI    | 0.37 | 0.5 | 40x40                          |                | 16        |     |     |     |     |     |     |     |     | 12  | 12  | 12  | 11  | 11  | 10   | 9    | 9    | 8              | 7    |      |
| ACM A2*              | AL/CI | 0.75 | 1   | 25x25                          |                | 33        |     | 31  | 30  | 29  | 28  | 28  | 27  | 14  |     |     |     |     |     |      |      |      |                |      | 5    |
| ACM A24*             | CI    | 0.75 | 1   | 25x25                          |                | 34        |     | 32  | 32  | 31  | 30  | 30  | 29  | 15  |     |     |     |     |     |      |      |      |                |      | 5    |
| ACM A3-H             | AL    | 0.75 | 1   | 32x25                          |                | 28        |     |     |     | 24  | 23  | 23  | 22  | 22  | 21  | 20  | 19  | 18  | 15  | 14   |      |      |                |      |      |
| ACM A10*             | CI    | 0.75 | 1   | 40x40                          |                | 23        |     |     |     |     |     |     |     |     | 20  | 20  | 19  | 19  | 18  | 17   | 17   | 16   | 15             | 14   | 13   |

| Model    | Body | kW   | HP  | Suction x<br>Delivery<br>in mm | m³/hr<br><br>lps  | DISCHARGE |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |   | Star<br>Rating |
|----------|------|------|-----|--------------------------------|-------------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|---|----------------|
|          |      |      |     |                                |                   | 0         | 3.8 | 4.2 | 4.6 | 5.4 | 6.1 | 6.8 | 7.6 | 8.3 | 9.0 | 9.7 | 10.4 | 11.2 | 11.9 | 12.6 | 13.3 |   |                |
| ACM A11* | CI   | 0.75 | 1   | 50x40                          | Head in<br>Metres | 19        |     |     |     |     |     |     |     | 16  | 16  | 15  | 15   | 15   | 15   | 14   | 14   | 3 |                |
| ACM A15* | AI   | 1.1  | 1.5 | 40x32                          |                   | 30        |     |     |     | 28  | 27  | 27  | 27  | 26  | 25  | 25  | 24   | 22   | 19   | 14   | 12   | 5 |                |
| ACM A18* | CI   | 1.1  | 1.5 | 50x40                          |                   | 23        | 21  | 21  | 21  | 21  | 20  | 20  | 20  | 19  | 19  | 19  | 18   | 18   | 17   | 16   | 16   |   |                |

| Model                        | Body | kW   | HP  | Suction x<br>Delivery<br>in mm | m³/hr<br><br>lps | DISCHARGE |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |   |
|------------------------------|------|------|-----|--------------------------------|------------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|---|
|                              |      |      |     |                                |                  | 0         | 4.5 | 6.8 | 7.3 | 7.6 | 8.2 | 8.4 | 8.6 | 9.0 | 14.0 | 15.0 | 22.5 | 24.0 | 25.6 | 28.0 | 30.0 |   |
|                              |      |      |     |                                |                  | 0         | 1.3 | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 3.9  | 4.2  | 6.3  | 6.7  | 7.1  | 7.8  | 8.3  |   |
| ACM A3(H)                    | AL   | 0.75 | 1   | 25x25                          | Head in Metres   | 34        | 31  | 30  | 29  | 29  | 29  | 29  | 28  | 28  |      |      |      |      |      |      |      |   |
| ACMA6* / SW/ACMA6<br>WV / ES | CI   | 0.75 | 1   | 50x50                          |                  | 14        |     |     |     |     |     |     | 14  | 14  | 13   | 12   | 12   | 10   | 9    | 8    | 8    |   |
| ACM A20*                     | CI   | 1.1  | 1.5 | 65x50                          |                  | 18        |     |     |     |     |     |     |     |     |      | 17   | 17   | 14   | 13   | 12   | 11   | 9 |
| ACM A20S                     | CI   | 1.1  | 1.5 | 65x50                          |                  | 15        |     |     |     |     |     |     |     |     | 14   | 13   | 13   | 10   | 10   | 9    | 8    | 8 |
| ACM A9*                      | CI   | 1.1  | 1.5 | 50x50                          |                  | 15        |     |     |     |     |     |     |     |     |      |      | 14   | 11   | 11   | 10   |      |   |
| ACM A9S                      | CI   | 1.1  | 1.5 | 50x50                          |                  | 14        |     |     |     | 14  |     |     |     |     | 14   | 13   | 12   | 10   | 9    | 9    | 6    |   |

\* Marked pumpsets are having ISI licence

WV - Wide voltage operation LV - Low voltage operation ES - Extension Shafts available S - Slick H - High head

## PERFORMANCE CHART

### ACM SERIES SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;  
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

| Model           | Body | kW   | HP | Suction x<br>Delivery<br>in mm | m <sup>3</sup> /hr | 0  | 6   | 8   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18 | 19  | 23.76 |
|-----------------|------|------|----|--------------------------------|--------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-------|
|                 |      |      |    |                                |                    |    |     |     |     |     |     |     |     |     |     |     |    |     |       |
| ACM50 & ACM50WV | CI   | 0.75 | 1  | 50x50                          | lps                | 0  | 1.7 | 2.2 | 2.8 | 3.1 | 3.3 | 3.6 | 3.9 | 4.2 | 4.4 | 4.7 | 5  | 5.3 | 6.6   |
| ACM 52          | AF   | 0.75 | 1  | 50x50                          | Head in<br>Metres  | 14 | 14  | 14  | 13  | 13  | 13  | 12  | 12  | 12  | 11  | 11  | 10 | 10  | 10    |

| Model  | Body | kW   | HP | Suction x<br>Delivery<br>in mm | m <sup>3</sup> /hr | 0   | 25  | 27  | 32  | 34  | 38   | 40   |
|--------|------|------|----|--------------------------------|--------------------|-----|-----|-----|-----|-----|------|------|
|        |      |      |    |                                |                    |     |     |     |     |     |      |      |
| ACM-53 | AF   | 0.75 | 1  | 80x80                          | lps                | 0.0 | 7.0 | 7.5 | 8.9 | 9.4 | 10.6 | 11.1 |
|        |      |      |    |                                | Head in<br>Metres  | 12  | 10  | 10  | 9   | 8   | 7    | 7    |

### ADM SERIES DOUBLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;  
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

| Model | Body | kW  | HP | Stage | Suction x<br>Delivery<br>in mm | m³/hr             | 0   | 3  | 4.8 | 6   | 7.2 | 8.4 | 9.6 | 10.8 |
|-------|------|-----|----|-------|--------------------------------|-------------------|-----|----|-----|-----|-----|-----|-----|------|
|       |      |     |    |       |                                | DISCHARGE         | lps | 0  | 0.8 | 1.3 | 1.7 | 2   | 2.3 | 2.7  |
| ADM 5 | CI   | 1.5 | 2  | 2     | 40x32                          | Head in<br>Metres | 60  | 54 | 47  | 41  | 36  | 31  | 23  | 15   |

### MATERIAL OF CONSTRUCTION - PUMPSET

| Part Name            | Material                   |
|----------------------|----------------------------|
| Rear Cover / Bracket | Cast Iron                  |
| Motor Frame          | Cast Iron / Aluminium      |
| Shaft                | SS 410                     |
| Impeller             | Cast Iron / SS 304 / Noryl |
| Pump Casing          | Cast Iron                  |
| Mechanical Seal      | Carbon & Ceramic           |

## PERFORMANCE CHART



VIRAT SERIES  
SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;  
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

**Virat**

| Model         | Body | kW   | HP  | Suction x<br>Delivery<br>in mm | m³/hr<br><br>lps | DISCHARGE |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       | Star<br>Rating |       |       |   |
|---------------|------|------|-----|--------------------------------|------------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|----------------|-------|-------|---|
|               |      |      |     |                                |                  | 0         | 1.37 | 2.20 | 2.59 | 3.78 | 4.18 | 4.61 | 5.40 | 6.12 | 6.84 | 7.56 | 8.28 | 9.00 | 9.72 | 10.44 | 11.16 | 11.88 |                | 12.60 | 13.32 |   |
| VIRAT 525     | AL   | 0.37 | 0.5 | 25x25                          | Head in Metres   | 18        |      | 16   | 16   | 14   | 13   | 13   | 12   |      |      |      |      |      |      |       |       |       |                |       |       |   |
| VIRAT 525N/ES | AL   | 0.37 | 0.5 | 25x25                          |                  | 19        | 18   | 17   | 16   | 15   | 15   | 14   | 13   | 9    | 8    |      |      |      |      |       |       |       |                |       |       |   |
| VIRAT 525M/ES | AL   | 0.37 | 0.5 | 25x25                          |                  | 21        |      | 20   | 19   | 18   | 18   | 17   |      |      |      |      |      |      |      |       |       |       |                |       |       |   |
| VIRAT 525H    | AL   | 0.37 | 0.5 | 25x25                          |                  | 27        |      | 24   | 23   | 22   | 21   | 20   | 19   |      |      |      |      |      |      |       |       |       |                |       |       | 5 |
| VIRAT 1025*   | AL   | 0.75 | 1   | 25x25                          |                  | 33        |      | 31   | 30   | 29   | 28   | 28   |      |      |      |      |      |      |      |       |       |       |                |       |       | 5 |
| VIRAT 1025HH* | AL   | 0.75 | 1   | 25x25                          |                  | 34        |      | 32   | 32   | 31   | 30   | 30   | 29   |      |      |      |      |      |      |       |       |       |                |       |       | 5 |
| VIRAT 1025M*  | AL   | 0.75 | 1   | 32x25                          |                  | 28        |      |      |      | 24   | 23   | 23   | 22   | 22   | 21   | 20   | 19   | 18   | 15   | 14    |       |       |                |       |       |   |
| VIRAT 1040*   | CI   | 0.75 | 1   | 40x40                          |                  | 23        |      |      |      |      |      |      |      | 20   | 20   | 19   | 19   | 18   | 17   | 17    | 16    | 15    | 14             | 13    | 3     |   |
| VIRAT 1532    | AL   | 1.1  | 1.5 | 40x32                          |                  | 30        |      |      |      |      |      |      | 28   | 27   | 27   | 27   | 26   | 25   | 25   | 24    | 22    | 19    | 14             | 12    |       |   |

| Model               | Body | kW   | HP  | Suction x<br>Delivery<br>in mm | m <sup>3</sup> /hr | 0  | 6.84 | 7.56 | 8.28 | 9.00 | 9.72 | 10.44 | 11.16 | 11.88 | 12.60 | 13.32 |
|---------------------|------|------|-----|--------------------------------|--------------------|----|------|------|------|------|------|-------|-------|-------|-------|-------|
|                     |      |      |     |                                | lps                | 0  | 1.90 | 2.10 | 2.30 | 2.50 | 2.70 | 2.90  | 3.10  | 3.30  | 3.50  | 3.70  |
| VIRAT 540 / ES / DF | AL   | 0.37 | 0.5 | 40x40                          | Head in<br>Metres  | 15 | 13   | 13   | 12   | 12   | 12   | 11    | 11    | 10    | 10    | 7     |

| Model           | Body | kW   | HP  | Suction x<br>Delivery<br>in mm | DISCHARGE      |    |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
|-----------------|------|------|-----|--------------------------------|----------------|----|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
|                 |      |      |     |                                | m³/hr          | 0  | 4.50 | 6.80 | 7.31 | 7.60 | 8.21 | 8.39 | 8.57 | 9.00 | 14.04 | 14.98 | 22.50 | 23.98 | 25.60 | 28.01 | 29.99 |
|                 |      |      |     |                                | lps            | 0  | 1.25 | 1.89 | 2.03 | 2.11 | 2.28 | 2.33 | 2.38 | 2.50 | 3.90  | 4.16  | 6.25  | 6.66  | 7.11  | 7.78  | 8.33  |
| VIRAT 1025H     | AL   | 0.75 | 1   | 32x25                          | Head in Metres | 33 | 30   | 29   | 29   | 28   | 28   | 27   | 27   | 26   |       |       |       |       |       |       |       |
| VIRAT 1050 / ES | CI   | 0.75 | 1   | 50x50                          |                | 14 |      |      |      |      |      |      | 14   | 13   | 12    | 12    | 10    | 9     | 8     | 8     | 7     |
| VIRAT 1525H     | AL   | 1.1  | 1.5 | 32x25                          |                | 34 | 31   | 30   | 29   | 29   | 29   | 29   | 28   | 28   |       |       |       |       |       |       |       |
| VIRAT 1550M     | CI   | 1.1  | 1.5 | 65x50                          |                | 15 |      |      |      |      |      |      |      | 14   | 13    | 13    | 10    | 10    | 9     | 8     | 8     |
| VIRAT 1550 / ES | CI   | 1.1  | 1.5 | 50x50                          |                | 14 |      |      | 14   |      |      |      |      | 14   | 13    | 12    | 10    | 9     | 9     | 6     |       |

# PERFORMANCE CHART

VIRAT SERIES  
SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSETS

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;  
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.



| Model       | Body | kW  | HP | Suction x<br>Delivery<br>in mm | m³/hr             | 0  | 10.80 | 14.40 | 18.00 | 21.60 | 25.20 |
|-------------|------|-----|----|--------------------------------|-------------------|----|-------|-------|-------|-------|-------|
|             |      |     |    |                                | lps               | 0  | 3.00  | 4.00  | 5.00  | 6.00  | 7.00  |
| VIRAT 2050* | CI   | 1.5 | 2  | 50x50                          | Head in<br>Metres | 23 | 21    | 20    | 18    | 15    | 9     |

| MATERIAL OF CONSTRUCTION - PUMPSET |                       |
|------------------------------------|-----------------------|
| Part Name                          | Material              |
| Pump Casing                        | Cast Iron             |
| Impeller                           | Cast Iron & Noryl     |
| Front Bracket                      | Cast Iron             |
| Motor Frame                        | Cast Iron & Aluminium |
| Back Cover                         | Cast Iron & Aluminium |
| Mechanical Seal                    | Carbon & Ceramic      |
| Cooling Fan                        | Polypropylene         |
| Cooling Fan Cover                  | Mild Steel            |

\* Marked pumpsets are having ISI licence



## Stainless Steel Centrifugal Monoblock Pumpsets

### JTS Series

C.R.I. S.S. Centrifugal Monoblock / Self-Priming Jet pumps are carefully designed to give best hydraulic efficiency and suction lift characteristics. Most modern and highly sophisticated machinery and technology are employed in the manufacture of these pumps, using quality raw material, seals and ball bearings to ensure long life. Dynamically balanced rotor ensures vibration free and noise free operation. All single phase pumps are in-built with thermal overload protector to prevent overload. High operating efficiency of these pumps result in low power consumption.

**JTS Series**



| SPECIFICATIONS                  | JTS                                   |
|---------------------------------|---------------------------------------|
| Power range                     | 0.37 kW & 0.75 kW (0.5HP & 1HP)       |
| Maximum head                    | 40 metre                              |
| Maximum flow rate               | 1.04 lps (3.75 m <sup>3</sup> /hr)    |
| Normal suction & delivery sizes | 25 mm x 25 mm                         |
| Versions                        | 1Ph - 220V / 3Ph - 380-415V, 50Hz, AC |
| Maximum suction lift            | Upto 8 metre                          |
| Speed                           | 2900 rpm                              |
| Degree of protection            | IP 54                                 |
| Class of insulation             | "B"                                   |
| Direction of rotation           | Clockwise viewed from driving end     |
| Type of duty                    | S1                                    |
| Maximum liquid temperature      | +5°C to +60°C                         |
| Maximum ambient temperature     | 40°C                                  |

#### SALIENT FEATURES

- In-built thermal overload protector
- Hygienic pumping system
- Backpull-out design for easy servicing and repair

#### APPLICATIONS

- Domestic
- Food Processing
- Industrial Water System
- Shallow wells
- Gardening
- Car washing
- Drinking water supply

# PERFORMANCE CHART

JTS SERIES  
STAINLESS STEEL CENTRIFUGAL MONOBLOCK PUMPSETS

2900 RPM, Single Phase - 220 Volts,  
Three Phase - 380-415 Volts 50 Hz, A.C. Supply

| PUMP MODEL |           | MOTOR POWER |     | NOMINAL PUMP SIZE IN MM<br>(Suction x Delivery) | lps<br>m³/hr<br>Head in Metres | 0  | 0.5 | 1   | 1.5 | 2   | 2.5 | 3   | 3.5 | 3.75 |
|------------|-----------|-------------|-----|-------------------------------------------------|--------------------------------|----|-----|-----|-----|-----|-----|-----|-----|------|
| 1Ø         | 3Ø        | kW          | HP  |                                                 |                                | 0  | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 0.8 | 1.0 | 1.04 |
| JTS-2/03M  | JTS-2/03T | 0.37        | 0.5 | 25 x 25                                         |                                | 36 | 31  | 27  | 22  | 17  | 11  | 7   |     |      |
| JTS-3/07M  | JTS-3/07T | 0.75        | 1.0 | 25 x 25                                         |                                | 40 | 37  | 34  | 32  | 29  | 27  | 23  | 17  | 10   |

| MATERIAL OF CONSTRUCTION - PUMPSET |                                    |
|------------------------------------|------------------------------------|
| Part Name                          | Material                           |
| Pump casing                        | S.S. 304                           |
| Motor Frame                        | Aluminium                          |
| Impeller                           | S.S. 304                           |
| Shaft                              | S.S. 304                           |
| Shaft Sealing                      | Mechanical Seal (Carbon & Ceramic) |

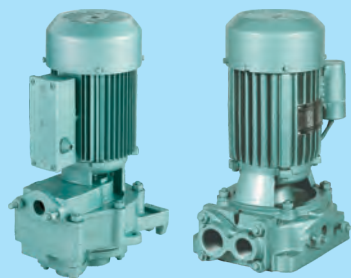




## Deepwell Centrifugal Jet Pumpsets

### AJ & BP Series

#### AJ Series



C.R.I. Deep well Jet Centrifugal Pumpsets volute chamber and impellers are designed to give the best possible hydraulic efficiency and suction lift characteristics. These Pumpsets are powered by a totally enclosed fan cooled (TEFC) and screen protected drip proof (SPDP), AC induction two pole motor, suitable for continuous duty. Motor stator is made of low watt loss ferro silicon steel laminations. The winding are of high grade enameled copper wire and are varnish impregnated. Construction of motor frame and usage of quality materials result in high performance and low temperature raise, thereby increasing the life cycle of the motor.

C.R.I. Deep well Jet Centrifugal pumpsets are available in twin type and packer type versions. Twin type is suitable for borewells with a diameter of 75mm and above. In twin type jet Pumpsets, there are two pipes viz. suction pipe and pressure pipe which connects the jet assembly to the pump. Pressurized water flows through the pressure pipe to the nozzle from the pump casing. Water sucked through the foot valve and the water passing through the nozzle mix together and flow through the suction pipe into the pump. Packer type jet pump is suitable for 50mm and 75mm borewells. The casing of tube well does the function of pressure pipe, i.e. Pressurized water flows through the tube well casing and enters the nozzle. Hence one pipe is eliminated.

#### SPECIFICATIONS

#### AJ & BP

|                                  |                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Power range                      | 0.37 kW - 1.5 kW (0.5HP - 2HP)                                                                                         |
| Speed                            | 2880 RPM                                                                                                               |
| Version                          | Single phase 220 - 240V; Three phase 380 - 415V, 50HZ AC Supply                                                        |
| Maximum suction lift/ head       | 92 metre                                                                                                               |
| Maximum flow rate                | 50 lpm (3 m <sup>3</sup> /hr)                                                                                          |
| Degree of protection             | IP 44/ IP 54                                                                                                           |
| Class of insulation              | B                                                                                                                      |
| Direction of rotation            | 1Ph - Clockwise from driving end, (A18, A19, A40, A41) - CCW from driving end<br>Three phase - Electrically Reversible |
| Type of duty                     | S1 (Continuous)                                                                                                        |
| Method of starting               | Permanent Split Capacitor (PSC)                                                                                        |
| Nominal pumpset size (S x P x D) | 32 x 25 x 25 & 40 x 32 x 25 mm                                                                                         |

#### SALIENT FEATURES

- Good suction lift characteristics
- High operating efficiency resulting in lower power consumption
- Inbuilt thermal over load protector
- The pumpset can be installed both in horizontal and vertical position
- Available in CI, Bronze and Noryl Impellers
- Available in Aluminium & CI Frame motor body

#### APPLICATIONS

- Domestic
- Farms
- Gardens
- Civil applications

## PERFORMANCE CHART

### AJ SERIES

#### SINGLE STAGE CENTRIFUGAL JET PUMPSETS

2880 RPM, At Rated Voltage - Single Phase - 220 - 240 Volts;

Three Phase – 380 - 415 Volts 50Hz, A.C. Supply.

| Model     | Body  | kW   | HP  | Min. Bore Dia in mm | Pipe Size in mm |           |          | Delivery Head in mtrs | m³/hr          | 0.39 | 0.49 | 0.60 | 0.79  | 1.00  | 1.39  | 1.80 | 2.20  | 2.59  | 3.00 |
|-----------|-------|------|-----|---------------------|-----------------|-----------|----------|-----------------------|----------------|------|------|------|-------|-------|-------|------|-------|-------|------|
|           |       |      |     |                     | Suction         | Press-ure | Delivery |                       |                |      |      |      |       |       |       |      |       |       |      |
| DISCHARGE |       |      |     |                     |                 |           |          |                       |                |      |      |      |       |       |       |      |       |       |      |
|           |       |      |     |                     |                 |           |          |                       | lpm            | 6.65 | 8.27 | 10   | 13.33 | 16.67 | 23.33 | 30   | 36.67 | 43.33 | 50   |
| A5/AJ5*   | AL/CI | 0.37 | 0.5 | 100                 | 32              | 25        | 25       | 13.7                  | Head in Metres | 31   | 29   | 27   | 23    | 21    | 16    |      |       |       |      |
| A6/AJ2*   | CI    | 0.75 | 1   | 100                 | 32              | 25        | 25       | 15.2                  |                |      |      | 32   | 30    | 25    | 20    | 14   |       |       |      |
| A6/AJ9*   | CI    | 0.75 | 1   | 100                 | 32              | 25        | 25       | 15.2                  |                | 41   | 39   | 35   | 31    | 26    | 22    |      |       |       |      |
| A25/AJ2*  | AL    | 0.75 | 1   | 100                 | 32              | 25        | 25       | 15.2                  |                | 36   | 34   | 33   | 30    | 28    | 22    | 17   | 13    |       |      |
| A25/AJ9*  | AL    | 0.75 | 1   | 100                 | 32              | 25        | 25       | 15.2                  |                | 42   | 39   | 36   | 31    | 25    | 15    |      |       |       |      |
| A26/AJ7*  | AL    | 0.75 | 1   | 115                 | 40              | 32        | 25       | 15.2                  |                | 25   | 25   | 24   | 23    | 22    | 20    | 18   | 16    | 14    | 13   |
| A9/AJ9    | AL    | 1.1  | 1.5 | 100                 | 32              | 25        | 25       | 15.2                  |                | 52   | 48   | 45   | 39    | 22    |       |      |       |       |      |

### AJ SERIES

#### DOUBLE STAGE CENTRIFUGAL JET PUMPSETS

#### - HORIZONTAL MODEL

2880 RPM, At Rated Voltage - Single Phase - 220 - 240 Volts;

Three Phase – 380 - 415 Volts 50Hz, A.C. Supply.

| Model     | Body | kW  | HP  | No. of Stages | Min. Bore Dia in mm | Pipe Size in mm |           |          | Delivery Head in mtrs | m³/hr          | 0.30 | 0.35 | 0.40 | 0.44 | 0.45 | 0.46 | 0.49 | 0.55 | 0.58 | 0.60  | 0.62  | 0.64  | 0.65 | 0.66  | 0.68 | 0.70 |    |
|-----------|------|-----|-----|---------------|---------------------|-----------------|-----------|----------|-----------------------|----------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|------|-------|------|------|----|
|           |      |     |     |               |                     | Suction         | Press-ure | Delivery |                       |                |      |      |      |      |      |      |      |      |      |       |       |       |      |       |      |      |    |
|           |      |     |     |               |                     |                 |           |          |                       |                |      |      |      |      |      |      |      |      |      |       |       |       |      |       |      |      |    |
| DISCHARGE |      |     |     |               |                     |                 |           |          |                       |                |      |      |      |      |      |      |      |      |      |       |       |       |      |       |      |      |    |
|           |      |     |     |               |                     |                 |           |          | lpm                   | 5              | 5.83 | 6.67 | 7.33 | 7.5  | 7.67 | 8.33 | 9.17 | 9.67 | 10   | 10.33 | 10.67 | 10.83 | 11   | 11.33 | 11.6 |      |    |
| A40/AJ1   | CI   | 1.1 | 1.5 | 2             | 100                 | 32              | 25        | 25       | 16.8                  | Head in Metres | 85   | 82   | 76   | 73   | 71   | 71   | 69   | 68   | 66   | 64    | 63    | 62    | 60   | 58    | 57   | 56   |    |
| A18/AJ1   | CI   | 1.5 | 2   | 2             | 100                 | 32              | 25        | 25       | 16.8                  |                | 92   | 89   | 85   | 82   | 81   | 79   | 78   | 74   | 72   | 71    | 70    | 69    | 66   | 65    | 62   | 52   | 37 |

| Model   | Body | kW  | HP | No. of Stages | Min. Bore Dia in mm | Pipe Size in mm |           |          | Delivery Head in mtrs | DISCHARGE      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|------|-----|----|---------------|---------------------|-----------------|-----------|----------|-----------------------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|         |      |     |    |               |                     | Suction         | Press-ure | Delivery |                       | m³/hr          | 0.14 | 0.16 | 0.17 | 0.18 | 0.20 | 0.23 | 0.25 | 0.27 | 0.28 | 0.29 | 0.31 | 0.32 | 0.33 | 0.35 | 0.38 |
|         |      |     |    |               |                     |                 |           |          |                       | lpm            | 8.3  | 9.7  | 10.3 | 11.0 | 12.2 | 13.7 | 15.0 | 16.2 | 16.7 | 17.5 | 18.3 | 19.2 | 20.0 | 20.8 | 22.5 |
| A18/AJ9 | CI   | 1.5 | 2  | 2             | 100                 | 32              | 25        | 25       | 55                    | Head in Metres | 73   | 68   | 64   | 61   | 58   | 55   | 52   | 49   | 46   | 43   | 40   | 37   | 35   | 33   | 28   |

| Model    | Body | kW  | HP  | No. of Stages | Min. Bore Dia in mm | Pipe Size in mm |           |          | Delivery Head in mtrs | m³/hr          | 0.14 | 0.22 | 0.30  | 0.35 | 0.42  | 0.53  | 0.61  | 0.73 | 0.82 | 0.92 | 1.03 |
|----------|------|-----|-----|---------------|---------------------|-----------------|-----------|----------|-----------------------|----------------|------|------|-------|------|-------|-------|-------|------|------|------|------|
|          |      |     |     |               |                     | Suction         | Press-ure | Delivery |                       |                |      |      |       |      |       |       |       |      |      |      |      |
|          |      |     |     |               |                     | lpm             | 2.38      | 3.67     | 5.07                  | 5.82           | 6.95 | 8.77 | 10.12 | 12.2 | 13.67 | 15.25 | 17.17 |      |      |      |      |
| A40S/AJ9 | CI   | 1.1 | 1.5 | 2             | 100                 | 32              | 25        | 25       | 15.2                  | Head in Metres | 54   | 51.5 | 49    | 48   | 46    | 42    | 39    | 35   | 33   | 30   | 23   |

\* Marked pumpsets are having ISI licence CI - Cast Iron AL - Aluminium Motor Body

## PERFORMANCE CHART



AJ SERIES

DOUBLE STAGE CENTRIFUGAL JET PUMPSETS  
- HORIZONTAL MODEL

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts;

Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

| Model    | Body | kW  | HP  | No. of Stages | Min. Bore Dia in mm | Pipe Size in mm |           |          | Delivery Head in mtrs | m <sup>3</sup> /hr | 0.49 | 0.54 | 0.60 | 0.66 | 0.72 | 0.79 | 0.84 | 0.90 | 1.00 | 1.09 | 1.16 |
|----------|------|-----|-----|---------------|---------------------|-----------------|-----------|----------|-----------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|
|          |      |     |     |               |                     | Suction         | Press-ure | Delivery |                       |                    |      |      |      |      |      |      |      |      |      |      |      |
| A40/AJ9* | CI   | 1.1 | 1.5 | 2             | 100                 | 32              | 25        | 25       | 16.8                  | Head in Metres     | 61   | 58   | 56   | 54   | 51   | 49   | 47   | 43   | 39   | 25   | 16   |

| Model    | Body  | kW   | HP | No. of Stages | Min. Bore Dia in mm | Pipe Size in mm |           |          | Delivery Head in mtrs | m <sup>3</sup> /hr | 0.33 | 0.38 | 0.40 | 0.46 | 0.54 | 0.60 | 0.65 | 0.68 | 0.70 | 0.72 | 0.73 | 0.75 |
|----------|-------|------|----|---------------|---------------------|-----------------|-----------|----------|-----------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|          |       |      |    |               |                     | Suction         | Press-ure | Delivery |                       |                    |      |      |      |      |      |      |      |      |      |      |      |      |
| A10N/AJ1 | CI/AL | 0.75 | 1  | 2             | 100                 | 32              | 25        | 25       | 15.2                  | Head in Metres     | 60   | 57   | 55   | 52   | 47   | 45   | 41   | 40   | 37   | 36   | 34   | 28   |

| Model    | Body | kW   | HP | No. of Stages | Min. Bore Dia in mm | Pipe Size in mm |           |          | Delivery Head in mtrs | m <sup>3</sup> /hr | 0.35 | 0.45 | 0.55 | 0.70 | 0.79 | 0.90 | 1.02 | 1.08 | 1.09 |
|----------|------|------|----|---------------|---------------------|-----------------|-----------|----------|-----------------------|--------------------|------|------|------|------|------|------|------|------|------|
|          |      |      |    |               |                     | Suction         | Press-ure | Delivery |                       |                    |      |      |      |      |      |      |      |      |      |
| A10N/AJ9 | CI   | 0.75 | 1  | 2             | 100                 | 32              | 25        | 25       | 15.2                  | Head in Metres     | 53   | 47   | 44   | 38   | 35   | 33   | 30   | 27   | 21   |

| Model        | Body | kW   | HP | No. of Stages | Min. Bore Dia in mm | Pipe Size in mm |           |          | Delivery Head in mtrs | m <sup>3</sup> /hr | 0.72 | 0.79 | 0.86 | 0.94 | 1.01 | 1.08 | 1.15 | 1.22 | 1.3 | 1.37 | 1.44 | 1.51 | 1.62 | 1.73 |
|--------------|------|------|----|---------------|---------------------|-----------------|-----------|----------|-----------------------|--------------------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|
|              |      |      |    |               |                     | Suction         | Press-ure | Delivery |                       |                    |      |      |      |      |      |      |      |      |     |      |      |      |      |      |
| A10N/AJ1(LH) | CI   | 0.75 | 1  | 1             | 100                 | 32              | 25        | 25       | 50                    | Head in Metres     | 37   | 35   | 34   | 33   | 32   | 30   | 29   | 28   | 27  | 27   | 26   | 24   | 19   | 11   |

## PERFORMANCE CHART

SPDP SERIES  
CENTRIFUGAL JET PUMPSETS  
- HORIZONTAL MODEL

2880 RPM, At Rated Voltage - Single Phase - 220 - 240 Volts;  
Three Phase – 380 - 415 Volts 50Hz, A.C. Supply.

| Model    | Body | kW   | HP | Min. Bore Dia in mm | Pipe Size in mm |           |          | Delivery Head in mtrs | m <sup>3</sup> /hr | 0.25 | 0.35 | 0.49 | 0.54 | 0.63 | 0.70 | 0.85 | 0.92 | 0.94 | 0.98 |
|----------|------|------|----|---------------------|-----------------|-----------|----------|-----------------------|--------------------|------|------|------|------|------|------|------|------|------|------|
|          |      |      |    |                     | Suction         | Press-ure | Delivery |                       |                    |      |      |      |      |      |      |      |      |      |      |
| A10/AJ10 | AL   | 0.75 | 1  | 100                 | 32              | 25        | 25       | 15.2                  | Head in Metres     | 58   | 55   | 49   | 46   | 43   | 40   | 37   | 33   | 30   | 28   |

| Model    | Body | kW   | HP | Min. Bore Dia in mm | Pipe Size in mm |           |          | Delivery Head in mtrs | m <sup>3</sup> /hr | 0.39 | 0.49 | 0.60 | 0.79 | 1.00 | 1.39 | 1.80 | 2.20 | 2.59 | 3.00 |
|----------|------|------|----|---------------------|-----------------|-----------|----------|-----------------------|--------------------|------|------|------|------|------|------|------|------|------|------|
|          |      |      |    |                     | Suction         | Press-ure | Delivery |                       |                    |      |      |      |      |      |      |      |      |      |      |
| A12/AJ2S | SS   | 0.75 | 1  | 100                 | 32              | 25        | 25       | 15.2                  | Head in Metres     |      | 33   | 30   | 28   | 23   | 18   | 6    |      |      |      |

BP SERIES  
SINGLE STAGE CENTRIFUGAL JET PUMPSETS

2880 RPM, At Rated Voltage - Single Phase - 220 - 240 Volts;  
Three Phase – 380 - 415 Volts 50Hz, A.C. Supply.

### PACKER TYPE

| Model | Body  | kW   | HP | Min. Bore Dia in mm | Pipe Size in mm |           |          | Delivery Head in mtrs | m <sup>3</sup> /hr | 0  | 0.39 | 0.49 | 0.60 | 0.79 | 1.00 | 1.39 | 1.80 |
|-------|-------|------|----|---------------------|-----------------|-----------|----------|-----------------------|--------------------|----|------|------|------|------|------|------|------|
|       |       |      |    |                     | Suction         | Press-ure | Delivery |                       |                    |    |      |      |      |      |      |      |      |
| BP8/2 | CI/AL | 0.75 | 1  | 50                  | 32              | 25        | 25       | 15.2                  | Head in Metres     | 32 | 27   | 25   | 24   | 21   | 20   | 16   | 13   |
| BP9/2 | AL    | 0.75 | 1  | 50                  | 32              | 25        | 25       | 15.2                  | Head in Metres     | 45 | 33   | 31   | 28   | 22   | 18   |      |      |
| BP8/3 | AL    | 0.75 | 1  | 80                  | 40              | 32        | 25       | 15.2                  | Head in Metres     | 54 | 30   | 29   | 28   | 26   | 24   | 21   | 17   |

### MATERIAL OF CONSTRUCTION - PUMPSET

| Part Name            | Material                                |
|----------------------|-----------------------------------------|
| Pump Casing          | Cast Iron                               |
| Bracket / Rear Cover | Cast Iron                               |
| Impeller             | Cast Iron / Bronze / Noryl              |
| Motor Frame          | Cast Iron / Aluminium / Mild Steel / SS |
| Shaft                | SS 410                                  |
| Mechanical Seal      | Carbon & Ceramic                        |
| Jet Assembly         | Gun metal                               |



# Shalo

## 30 FT Suction



## Centrifugal Jet Selfpriming Pumpsets Shalo Series

C.R.I. Centrifugal jet self priming pumpsets pump casing and ejector unit are designed carefully to give the best possible hydraulic efficiency and good suction lift characteristics. These pumpsets are powered by a totally enclosed fan cooled AC induction motor, suitable for continuous duty. Motor stator is made of low watt loss ferro silicon steel laminations assembled under pressure and rigidly locked in the frame. The varnish impregnated windings made of enameled copper wire offer excellent resistance. Construction of motor frame and usage of quality materials result in high performance and low temperature raise, thereby increasing the life cycle of the motor.

| SPECIFICATIONS                            | SHALO                                   |
|-------------------------------------------|-----------------------------------------|
| Power range                               | 0.37 kW & 0.75 kW (0.5HP & 1.0HP)       |
| Speed                                     | 2880 RPM                                |
| Version                                   | Single phase 220 - 240V, 50Hz AC Supply |
| Maximum total head                        | 47 metre                                |
| Maximum flow rate                         | 3400 LPH (3.4 m <sup>3</sup> /hr)       |
| Maximum suction lift                      | Upto 9 metre                            |
| Degree of protection                      | IP 54                                   |
| Direction of rotation                     | Clockwise from driving end              |
| Class of insulation                       | B                                       |
| Type of duty                              | S1 (Continuous)                         |
| Method of starting                        | Permanent Split Capacitor (PSC)         |
| Nominal Pumpset size (suction x delivery) | 25 x 25 mm                              |

### SALIENT FEATURES

- 30 feet suction lifting capacity
- Specially designed for shallow well applications
- High operating efficiency resulting in lower power consumption
- Back pull - out design for easy servicing and repair
- Inbuilt thermal overload protector
- In-built non return valve
- Specially coated pumps available for fertigation application
- Powder coated colour motor body

### APPLICATIONS

- Shallow well
- Small farms
- Domestic
- Pressure boosting
- Gardens
- Fertigation
- Drinking water supply

## PERFORMANCE CHART

### SHALO SERIES

#### CENTRIFUGAL JET SELFPRIMING PUMPSETS

2880 RPM, At Rated Voltage - Single Phase - 220 - 240 Volts; 50Hz, A.C. Supply.

| Model           | kW   | HP  | Suction x<br>Delivery<br>in mm | m <sup>3</sup> /hr<br>LPH | 0  | 0.6 | 0.8 | 1    | 1.4  | 1.8  | 2.2  | 2.6  | 3    | 3.4  |
|-----------------|------|-----|--------------------------------|---------------------------|----|-----|-----|------|------|------|------|------|------|------|
|                 |      |     |                                |                           | 0  | 600 | 800 | 1000 | 1400 | 1800 | 2200 | 2600 | 3000 | 3400 |
| Shalo 527       | 0.37 | 0.5 | 25x25                          | Head in Metres            | 37 | 34  | 32  | 31   | 28   | 25   | 22   | 20   | 16   |      |
| Shalo 525 / 526 | 0.37 | 0.5 | 25x25                          |                           | 39 | 35  | 34  | 33   | 30   | 27   | 24   | 20   |      |      |
| Shalo 1028      | 0.75 | 1   | 25x25                          |                           | 41 | 38  | 36  | 35   | 32   | 30   | 27   | 25   | 17   | 11   |
| Shalo 1029      | 0.75 | 1   | 25x25                          |                           | 38 | 35  | 33  | 32   | 30   | 28   | 25   | 23   | 22   |      |
| Shalo 1025      | 0.75 | 1   | 25x25                          |                           | 46 | 42  | 40  | 39   | 36   | 33   | 30   | 26   |      |      |
| Shalo 1026      | 0.75 | 1   | 25x25                          |                           | 43 | 38  | 37  | 36   | 33   | 30   | 27   | 23   | 16   |      |
| Shalo 1027      | 0.75 | 1   | 25x25                          |                           | 39 | 35  | 34  | 33   | 30   | 27   | 24   | 20   |      |      |

Shalo 526 - Noryl Impeller

Shalo Series - Specially designed for Fertigation application

| Model     | kW   | HP   | Suction x<br>Delivery<br>in mm | m <sup>3</sup> /hr<br>LPH | 0  | 0.8 | 1    | 1.4  | 1.8  | 2.2  | 2.6  |
|-----------|------|------|--------------------------------|---------------------------|----|-----|------|------|------|------|------|
|           |      |      |                                |                           | 0  | 800 | 1000 | 1400 | 1800 | 2200 | 2600 |
| Shalo 725 | 0.55 | 0.75 | 25x25                          | Head in Metres            | 47 | 38  | 36   | 31   | 28   | 26   | 20   |

### MATERIAL OF CONSTRUCTION - PUMPSET

| Part Name       | Material          |
|-----------------|-------------------|
| Impeller        | Cast iron / Noryl |
| Motor body      | Aluminium         |
| Shaft           | SS-410            |
| Bracket         | Cast iron         |
| Pump casing     | Cast iron         |
| Mechanical Seal | Carbon & Ceramic  |



## Regenerative Selfpriming Monoset Pumpsets SELFY Series

C.R.I. Selfy Regenerative Selfpriming Monoset Pumps are powered by a totally enclosed fan cooled (TEFC) and Screen Protected Drip Proof (SPDP) AC induction two pole and four pole motors suitable for continuous duty. Motor stator is made of low watt loss silicon steel lamination. Construction of motor frame and usage of quality materials result in high performance and low temperature raise, thereby increasing the life cycle of the motor.



### SPECIFICATIONS

#### SELFY

|                              |                                                       |
|------------------------------|-------------------------------------------------------|
| Power range                  | 0.37 kW & 0.75 kW (0.5HP & 1HP)                       |
| Speed                        | 1440 & 2880 RPM                                       |
| Version                      | Single phase 220 – 240V, 50Hz AC Supply               |
| Maximum total head           | 55 metre                                              |
| Maximum flow rate            | 64 lpm (3.82 m³/hr)                                   |
| Degree of protection         | IP 44                                                 |
| Class of insulation          | 'B'                                                   |
| Direction of rotation        | Clockwise from driving end                            |
| Type of duty                 | S1 (Continuous)                                       |
| Method of starting           | CSCR / Permanent Split Capacitor (PSC)                |
| Maximum suction lift         | Upto 8 metre (slow speed) / Upto 6 metre (high speed) |
| Nominal pumpset size (S x D) | 25 x 25 mm                                            |

### SALIENT FEATURES

- Good suction lift characteristics
- Accurate function of centrifugal governor & switch ensures the longer life of the motor
- Specially designed mesh is provided in pump to avoid foreign particles
- Special graded casting used in pump portion to prevent the wear & tear
- High tensile brass impeller is used to increase the life of pump

### APPLICATIONS

- Domestic
- Washing
- Gardens
- Civil applications



## PERFORMANCE CHART

### SELFY SERIES

#### REGENERATIVE SELFPRIMING MONOBLOCK PUMPSETS

1440 / 2880 RPM At Rated Voltage - Single Phase - 220 - 240 Volts, 50Hz, A.C. Supply

| Model         | Body  | kW   | HP  | Suction x<br>Delivery<br>in mm | Speed<br>in<br>RPM | Suction<br>Capacity<br>in mtrs | m <sup>3</sup> /hr<br>lpm | 0   | 0.61 | 0.80 | 1.01 | 1.40 | 1.80 | 2.20 | 2.60 | 3.00 | 3.38 | 3.82 |
|---------------|-------|------|-----|--------------------------------|--------------------|--------------------------------|---------------------------|-----|------|------|------|------|------|------|------|------|------|------|
|               |       |      |     |                                |                    |                                |                           | 0   | 10   | 13   | 17   | 23   | 30   | 37   | 43   | 50   | 56   | 64   |
| SELFY 50      | AL    | 0.37 | 0.5 | 25x25                          | 2880               | 6                              | Head in Metres            | 50  | 41   | 38   | 34   | 27   | 19   | 13   | 10   |      |      |      |
| SELFY 51      | CI    | 0.37 | 0.5 | 25x25                          | 2880               | 6                              |                           | 50  | 41   | 38   | 34   | 27   | 19   | 13   | 10   |      |      |      |
| SELFY 52      | CI    | 0.37 | 0.5 | 25x25                          | 1440               | 8                              |                           | 29  | 26   | 25   | 24   | 23   | 18   | 15   | 10   | 8    |      |      |
| SELFY 53/54   | CI    | 0.37 | 0.5 | 25x25                          | 1440               | 8                              |                           | 29  | 26   | 25   | 24   | 23   | 18   | 15   | 10   | 8    |      |      |
| SELFY 100     | MS    | 0.75 | 1   | 25x25                          | 1440               | 8                              |                           | 45  |      |      | 39   | 35   | 32   | 28   | 24   | 17   | 12   |      |
| SELFY 102/106 | CI    | 0.75 | 1   | 25x25                          | 1440               | 8                              |                           | 50  |      |      | 42   | 38   | 36   | 33   | 28   | 20   | 14   | 13   |
| SELFY 103/104 | AI/CI | 0.75 | 1   | 25x25                          | 2800               | 8                              |                           | 55  | 48   | 46   | 43   | 34   | 27   |      |      |      |      |      |
| SELFY 105     | MS    | 0.75 | 1   | 25x25                          | 1440               | 8                              |                           | 415 | 38   | 35   | 32   | 29   | 24   | 20   | 16   | 12   | 8    | 4    |

### MATERIAL OF CONSTRUCTION - PUMPSET

| Part Name       | Material                           |
|-----------------|------------------------------------|
| Pump casing     | Cast Iron                          |
| Motor body      | Cast Iron / Mild Steel / Aluminium |
| Shaft           | SS - 410                           |
| Impeller        | High Tensile Brass                 |
| Bracket         | Cast Iron                          |
| Mechanical Seal | Carbon & Ceramic                   |





## Selfpriming / Non-selfpriming

### Monoblock Pumpsets

#### Royale / Xcite / Shine / Dora / Dhoom / Champee & Miki Series

C.R.I. Selfpriming monoblock pumpsets are power-driven by a totally enclosed fan cooled AC induction two pole motor, suitable for continuous duty. Motor stator is made of low watt loss silicon laminations assembled under pressure and rigidly locked in the frame. The windings are of high - grade enameled copper wire and are varnish impregnated. Construction of motor frames and usage of quality materials result in high performance, noise free operation and low temperature rise thereby increasing the life cycle of the motor. Pumps volute chamber and impellers are designed to give the best possible hydraulic efficiency and suction lift characteristics. Non-selfpriming pumps with end suction and radial delivery.

#### SPECIFICATIONS

ROYALE / XCITE / SHINE / DORA / DHOOM / CHAMPEE & MIKI

|                                   |                                                    |
|-----------------------------------|----------------------------------------------------|
| Power range                       | 0.18kW - 1.1kW (0.25HP - 1.5HP)                    |
| Speed                             | 2880 RPM                                           |
| Versions                          | 1Ph - 220-240 V; 3Ph - 380-415 V, 50 Hz AC supply. |
| Maximum total head                | 100 metre                                          |
| Maximum flow rate                 | 3800 lph (3.8 m <sup>3</sup> /hr)                  |
| Degree of protection              | IP 44                                              |
| Direction of rotation             | Clockwise from driving end                         |
| Class of insulation               | B                                                  |
| Type of duty                      | S1 (Continuous)                                    |
| Maximum suction lift              | Upto 8 metre                                       |
| Maximum liquid temperature        | 330c                                               |
| Maximum ambient temperature       | 400c                                               |
| Nominal size (suction x delivery) | 15 x 15, 20 x 20 & 25 x 25 mm                      |

#### SALIENT FEATURES

- Upto 100metre (328 feet) working capacity
- Built-in with imported Thermal Overload Protector
- Specially designed for wide voltage operation
- Powder coated multi-color stator body
- Sturdy and compact
- Double sealed ball bearing, so no need of external lubrication
- Pumpset available with extension shaft for multi purpose application

#### APPLICATIONS

- Domestic
- Small garden
- Pressure boosting
- Civil applications
- RO Applications
- House Watering Systems



# PERFORMANCE CHART



| Model    | kW   | HP  | Type         | Suction x<br>Delivery<br>in mm | Suction<br>Capacity in mtrs | Total Head in metre / feet |      |      |      |      |      |      |      |      |
|----------|------|-----|--------------|--------------------------------|-----------------------------|----------------------------|------|------|------|------|------|------|------|------|
|          |      |     |              |                                |                             | 6                          | 8    | 10   | 12   | 15   | 18   | 21   | 25   | 30   |
|          |      |     |              |                                |                             | 20                         | 26   | 33   | 39   | 49   | 59   | 69   | 82   | 98   |
|          |      |     |              |                                |                             | Discharge in LPH           |      |      |      |      |      |      |      |      |
| DORA 50  | 0.37 | 0.5 | SELF PRIMING | 25x25                          | 8                           | 2016                       | 1872 | 1750 | 1512 | 1332 | 1000 | 800  | 360  |      |
| DORA 100 | 0.75 | 1   | SELF PRIMING | 25x25                          | 8                           | 3000                       | 2800 | 2600 | 2450 | 2320 | 2100 | 1880 | 1720 | 1320 |



| Model              | kW   | HP  | Type         | Suction x<br>Delivery<br>in mm | Suction<br>Capacity in mtrs | Total Head in metre / feet |      |      |      |      |      |      |      |      |
|--------------------|------|-----|--------------|--------------------------------|-----------------------------|----------------------------|------|------|------|------|------|------|------|------|
|                    |      |     |              |                                |                             | 6                          | 8    | 10   | 12   | 15   | 18   | 21   | 25   | 30   |
|                    |      |     |              |                                |                             | 20                         | 26   | 33   | 39   | 49   | 59   | 69   | 82   | 98   |
|                    |      |     |              |                                |                             | Discharge in LPH           |      |      |      |      |      |      |      |      |
| SHINE 50/50 PLUS   | 0.37 | 0.5 | SELF PRIMING | 25x25                          | 8                           | 2088                       | 2000 | 1800 | 1600 | 1400 | 1220 | 1000 | 760  |      |
| SHINE 100/100 PLUS | 0.75 | 1   | SELF PRIMING | 25x25                          | 8                           | 3050                       | 2850 | 2650 | 2500 | 2350 | 2120 | 1900 | 1800 | 1400 |



| Model    | kW   | HP  | Type         | Suction x<br>Delivery<br>in mm | Suction<br>Capacity in mtrs | Total Head in metre / feet |      |      |      |      |      |      |      |      |      |      |     |
|----------|------|-----|--------------|--------------------------------|-----------------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-----|
|          |      |     |              |                                |                             | 6                          | 8    | 10   | 12   | 15   | 18   | 21   | 25   | 26   | 28   | 30   | 35  |
|          |      |     |              |                                |                             | 20                         | 26   | 33   | 39   | 49   | 59   | 69   | 82   | 85   | 92   | 98   | 115 |
|          |      |     |              |                                |                             | Discharge in LPH           |      |      |      |      |      |      |      |      |      |      |     |
| MIKI 50  | 0.37 | 0.5 | SELF PRIMING | 25x25                          | 8                           | 2100                       | 1928 | 1802 | 1557 | 1372 | 1030 | 824  | 600  | 450  | 250  |      |     |
| MIKI 51  | 0.37 | 0.5 | SELF PRIMING | 25x25                          | 8                           | 2150                       | 2060 | 1854 | 1648 | 1442 | 1256 | 1030 | 782  | 550  | 300  |      |     |
| MIKI 100 | 0.75 | 1   | SELF PRIMING | 25x25                          | 8                           | 3340                       | 3186 | 3060 | 2916 | 2700 | 2412 | 2160 | 1872 | 1755 | 1638 | 1404 | 830 |



| Model                        | kW   | HP  | Type         | Suction x<br>Delivery<br>in mm | Suction<br>Capacity in mtrs | Total Head in metre / feet |      |      |      |      |      |      |      |      |      |      |     |
|------------------------------|------|-----|--------------|--------------------------------|-----------------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-----|
|                              |      |     |              |                                |                             | 6                          | 8    | 10   | 12   | 15   | 18   | 21   | 25   | 30   | 35   | 40   | 45  |
|                              |      |     |              |                                |                             | 20                         | 26   | 33   | 39   | 49   | 59   | 69   | 82   | 98   | 115  | 131  | 148 |
|                              |      |     |              |                                |                             | Discharge in LPH           |      |      |      |      |      |      |      |      |      |      |     |
| XCITE 50*                    | 0.37 | 0.5 | SELF PRIMING | 25x25                          | 8                           | 2000                       | 1900 | 1800 | 1700 | 1600 | 1100 | 920  | 680  |      |      |      |     |
| XCITE 51*/C PLUS 51          | 0.37 | 0.5 | SELF PRIMING | 25x25                          | 8                           | 2300                       | 2200 | 2050 | 1850 | 1700 | 1512 | 1300 | 900  |      |      |      |     |
| XCITE 100*/<br>C PLUS 100/ES | 0.75 | 1   | SELF PRIMING | 25x25                          | 8                           | 3100                       | 2900 | 2592 | 2520 | 2450 | 2250 | 2100 | 1900 | 1620 | 1350 | 1000 | 825 |

## PERFORMANCE CHART



| Model             | kW   | HP  | Type         | Suction x<br>Delivery<br>in mm | Suction<br>Capacity in mtrs | Total Head in metre / feet |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
|-------------------|------|-----|--------------|--------------------------------|-----------------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
|                   |      |     |              |                                |                             | 6                          | 8    | 10   | 12   | 15   | 18   | 21   | 25   | 30   | 35   | 40   | 45   | 50   | 55  | 58  |
|                   |      |     |              |                                |                             | 20                         | 26   | 33   | 39   | 49   | 59   | 69   | 82   | 98   | 115  | 131  | 148  | 164  | 180 | 190 |
|                   |      |     |              |                                |                             | Discharge in LPH           |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
| ROYALE 51*        | 0.37 | 0.5 | SELF PRIMING | 25x25                          | 8                           | 2700                       | 2550 | 2300 | 2150 | 2000 | 1700 | 1500 | 1260 | 864  |      |      |      |      |     |     |
| ROYALE 52*/ ES    | 0.37 | 0.5 | SELF PRIMING | 25x25                          | 8                           | 3150                       | 2950 | 2808 | 2600 | 2448 | 2200 | 2088 | 1800 | 1500 |      |      |      |      |     |     |
| ROYALE 100*       | 0.75 | 1   | SELF PRIMING | 25x25                          | 8                           | 3100                       | 3000 | 2900 | 2700 | 2600 | 2480 | 2350 | 2196 | 1980 | 1728 | 1368 |      |      |     |     |
| ROYALE 101        | 0.75 | 1   | SELF PRIMING | 25x25                          | 8                           | 3400                       | 3300 | 3250 | 3200 | 3150 | 3000 | 2950 | 2736 | 2376 | 2200 | 1550 | 1200 |      |     |     |
| ROYALE 150        | 1.1  | 1.5 | SELF PRIMING | 25x25                          | 8                           | 3888                       | 3800 | 3750 | 3700 | 3600 | 3500 | 3400 | 3300 | 3060 | 2750 | 2450 | 2000 | 1350 |     |     |
| ROYALE D PLUS 50  | 0.37 | 0.5 | SELF PRIMING | 25x25                          | 8                           | 2800                       | 2736 | 2550 | 2350 | 2160 | 1944 | 1728 | 1365 | 936  | 504  |      |      |      |     |     |
| ROYALE D PLUS 51  | 0.37 | 0.5 | SELF PRIMING | 25x25                          | 8                           | 3100                       | 3060 | 2970 | 2880 | 2592 | 2268 | 2088 | 1656 | 1080 | 650  |      |      |      |     |     |
| ROYALE D PLUS 100 | 0.75 | 1   | SELF PRIMING | 25x25                          | 8                           | 3350                       | 3269 | 3276 | 3258 | 3204 | 3096 | 2880 | 2592 | 2268 | 1980 | 1692 | 1404 | 1080 | 756 | 576 |
| ROYALE D PLUS 101 | 0.75 | 1   | SELF PRIMING | 25x25                          | 8                           | 3400                       | 3350 | 3357 | 3340 | 3285 | 3174 | 2952 | 2656 | 2324 | 2029 | 1734 | 1434 | 1107 | 775 | 590 |
| ROYALE E PLUS 100 | 0.75 | 1   | SELF PRIMING | 25x25                          | 8                           | 3350                       | 3269 | 3276 | 3258 | 3204 | 3096 | 2880 | 2592 | 2268 | 1980 | 1692 | 1404 | 1080 | 756 | 576 |
| ROYALE E PLUS 101 | 0.75 | 1   | SELF PRIMING | 25x25                          | 8                           | 3400                       | 3350 | 3357 | 3340 | 3285 | 3174 | 2952 | 2656 | 2324 | 2029 | 1734 | 1434 | 1107 | 775 | 590 |



## WONDER SUCTION

| Model            | kW   | HP   | Type           | Suction x<br>Delivery<br>in mm | Suction<br>Capacity in mtrs | Total Head in metre / feet |      |      |      |      |      |      |      |      |      |      |      |      |     |
|------------------|------|------|----------------|--------------------------------|-----------------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
|                  |      |      |                |                                |                             | 6                          | 8    | 10   | 12   | 15   | 18   | 21   | 25   | 30   | 35   | 40   | 45   | 50   | 55  |
|                  |      |      |                |                                |                             | 20                         | 26   | 33   | 39   | 49   | 59   | 69   | 82   | 98   | 115  | 131  | 148  | 164  | 180 |
|                  |      |      |                |                                |                             | Discharge in LPH           |      |      |      |      |      |      |      |      |      |      |      |      |     |
| DHOOM 51         | 0.37 | 0.5  | WONDER SUCTION | 25x25                          | 8                           | 1550                       | 1520 | 1500 | 1480 | 1350 | 1200 | 1090 | 850  |      |      |      |      |      |     |
| DHOOM 52         | 0.37 | 0.5  | WONDER SUCTION | 15x15                          | 8                           | 1370                       | 1270 | 1150 | 1100 | 1020 | 900  | 800  | 520  |      |      |      |      |      |     |
| DHOOM 53         | 0.37 | 0.5  | WONDER SUCTION | 25x25                          | 8                           | 1580                       | 1480 | 1400 | 1350 | 1300 | 1000 | 850  | 550  |      |      |      |      |      |     |
| DHOOM 75         | 0.55 | 0.75 | WONDER SUCTION | 25x25                          | 8                           | 1900                       | 1850 | 1775 | 1700 | 1620 | 1400 | 1200 | 950  | 500  |      |      |      |      |     |
| DHOOM 100        | 0.75 | 1    | WONDER SUCTION | 25x25                          | 8                           | 2450                       | 2350 | 2200 | 2100 | 1900 | 1750 | 1600 | 1450 | 1200 | 750  |      |      |      |     |
| DHOOM 150        | 1.1  | 1.5  | WONDER SUCTION | 25x25                          | 8                           | 3200                       | 3150 | 3100 | 3000 | 2950 | 2900 | 2800 | 2700 | 2500 | 2350 | 2000 | 1650 | 1200 | 750 |
| DHOOM 52 D PLUS  | 0.37 | 0.5  | WONDER SUCTION | 15x15                          | 8                           | 1880                       | 1833 | 1761 | 1660 | 1458 | 1295 | 1108 | 800  | 594  |      |      |      |      |     |
| DHOOM 75 D PLUS  | 0.5  | 0.75 | WONDER SUCTION | 25x25                          | 8                           | 2048                       | 1995 | 1925 | 1865 | 1775 | 1656 | 1500 | 1286 | 924  | 453  |      |      |      |     |
| DHOOM 100 D PLUS | 0.75 | 1    | WONDER SUCTION | 25x25                          | 8                           | 2085                       | 2018 | 1928 | 1849 | 1715 | 1640 | 1475 | 1250 | 978  | 706  |      |      |      |     |

## PERFORMANCE CHART



### SPECIALLY DESIGNED FOR R.O. APPLICATION

| Model      | kW   | HP  | Type            | Suction x<br>Delivery<br>in mm | Suction<br>Capacity in mtrs | Total Head in metre / feet |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |
|------------|------|-----|-----------------|--------------------------------|-----------------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
|            |      |     |                 |                                |                             | 6                          | 8    | 10   | 12   | 15   | 18   | 21   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 70   | 80  | 90  | 100 |
|            |      |     |                 |                                |                             | 20                         | 26   | 33   | 39   | 49   | 59   | 69   | 82   | 98   | 115  | 131  | 148  | 164  | 180  | 197  | 230  | 262 | 295 | 328 |
|            |      |     |                 |                                |                             | Discharge in LPH           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |
| CHAMPEE100 | 0.75 | 1   | NON SELFPRIMING | 25x25                          | 8                           | 1700                       | 1650 | 1600 | 1550 | 1500 | 1400 | 1380 | 1300 | 1200 | 1100 | 1000 | 900  | 800  | 700  | 650  | 480  | 320 | 180 |     |
| CHAMPEE150 | 1.1  | 1.5 | NON SELFPRIMING | 25x25                          | 8                           | 3300                       | 3200 | 3024 | 2950 | 2900 | 2800 | 2700 | 2600 | 2400 | 2250 | 2200 | 2100 | 2000 | 1850 | 1750 | 1200 | 900 | 400 | 150 |

### MATERIAL OF CONSTRUCTION - PUMPSET

| Part Name            | Material                                  |
|----------------------|-------------------------------------------|
| Pump Casing          | Cast Iron                                 |
| Bracket & Rear Cover | Cast Iron / Aluminium                     |
| Volute Casing        | Forged SS / Brass                         |
| Rotor                | Aluminium Die Cast                        |
| Motor Body           | Aluminium Extruded / Die Cast / Cast Iron |
| Motor Shaft          | SS 410                                    |
| Cooling Fan          | Poly Propylene - Co Polimer               |
| Cooling Fan Cover    | Poly Propylene - Co Polimer / MS          |
| Impeller             | High Tensile Brass                        |
| Mechanical Seal      | Carbon & Ceramic                          |



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