



C.R.I. PUMPS

Pumping trust... Worldwide.



- More Durability and Hygiene.
- High Operating Efficiency.
- Motor designed with a High Cooling Effect.
- Designed for Wide Voltage Operation.
- Sturdy and Compact.



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 C.R.I.

C.R.I. ranks high among the world's fastest-growing fluid management solutions provider with a wide global presence. C.R.I. offers Pumps, Motors, IoT Driven Pumps, IoT Drives & Controllers, Pipes, Wires & Cables, Solar Pumps and Controllers to meet the pumping needs of its wide customer base.



60+ Years
of Engineering
Expertise



120+ Countries
have our strong
global presence



21+
Manufacturing Units
around the World



30000+ Outlets
to serve our
Customers



9000+
Products for various
applications



1500+
Service Centres to
support our Customers



16 Times
EEPC Award Winner
for Export Excellence



8 Times
NEC Award Winner
for Energy Savings



**Fludyn Advanced Technology
Centre** Recognized by Ministry of
Science & Technology, Govt. of India.

C.R.I. PIPES - C.R.I.'s state-of-the-art manufacturing facility at Ahmedabad & Hosur produces all kinds of best quality PVC, UPVC, CPVC 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 Pumpset - 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. The optimal design of impeller and diffuser enables the best possible hydraulic efficiency. Built-in check valve prevents back flow and reduces the risk of water hammering.

SALIENT FEATURES

- 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.

APPLICATION

- Gardens
- Irrigation
- Farms
- Industrial.

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 | 2850 RPM |
| Version | Single Phase 220V, 50Hz, A.C. Supply | Single Phase 220V, 50Hz, A.C. Supply |
| Maximum total head | 156 Metre | 214 Metre |
| Maximum flow rate | 1.5 LPS (5.40 m ³ /hr) | 0.9 LPS (3.4 m ³ /hr) |
| Maximum outer diameter | 78 mm | 92 mm |
| Thrust load | 650 LBS | 650 LBS |
| Minimum cooling flow along the motor | 0.15 m/sec | 0.15 m/sec |
| Method of starting | Capacitor Start Capacitor Run (CSCR) | Capacitor Start Capacitor Run (CSCR) |
| Maximum starts per hour | 20 times | 20 times |
| Nominal outlet size | 25 & 32 mm | 32 mm |

PERFORMANCE CHART

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

80mm BOREWELL SUBMERSIBLE PUMPSET - LENA Series

RADIAL FLOW

| Model | kW | HP | Stage | Outlet Size in mm | m ³ /hr 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-30/1/32 | 0.75 | 1 | 32 | 25 | Head in Metres | 89 | 83 | 77 | 70 | 61 | 49 | 33 | | |
| CRI3R-31/0.75/12 | 0.55 | 0.75 | 12 | 32 | | 44 | 43 | 42 | 42 | 40 | 39 | 38 | | |
| CRI3R-31/1/17* | 0.75 | 1 | 17 | 32 | | 76 | 71 | 67 | 63 | 59 | 54 | 50 | 40 | 33 |
| CRI3R-31/1/20 | 0.75 | 1 | 20 | 32 | | 86 | 79 | 75 | 71 | 64 | 58 | 51 | 41 | 31 |
| CRI3R-31/1/24 | 0.75 | 1 | 24 | 32 | | 103 | 101 | 97 | 90 | 85 | 78 | 70 | 58 | 50 |
| CRI3R-31/1.5/24* | 1.1 | 1.5 | 24 | 32 | | 105 | 101 | 97 | 93 | 88 | 80 | 71 | 60 | 50 |

| Model | kW | HP | Stage | Outlet Size in mm | m ³ /hr 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-33/1/10 | 0.75 | 1 | 10 | 32 | Head in Metres | 39 | 38 | 37 | 36 | 33 | 29 | 22 | 16 | 12 |
| CRI3R-33/1.5/15 | 1.1 | 1.5 | 15 | 32 | | 59 | 58 | 56 | 53 | 49 | 41 | 33 | 22 | 17 |

| Model | kW | HP | Stage | Outlet Size in mm | m ³ /hr 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-34/1/25 | 0.75 | 1 | 25 | 32 | Head in Metres | 99 | 90 | 82 | 74 | 62 | 49 | 30 | | | | | |
| CRI3R-34/1.5/38 | 1.1 | 1.5 | 38 | 32 | | 156 | 136 | 118 | 108 | 96 | 82 | 60 | | | | | |
| CRI3R-35/0.5/6 | 0.37 | 0.5 | 6 | 32 | | 28 | | | | | 25 | 24 | 23 | 19 | 16 | 10 | 5 |
| LENA-36/1/10 | 0.75 | 1 | 10 | 32 | | 40.5 | 38.5 | 36.5 | 36 | 35 | 34 | 32.5 | 30.5 | 26 | 22 | 18 | 13 |
| CRI3R-36/1/12 | 0.75 | 1 | 12 | 32 | | 48 | 45 | 43 | 42 | 41 | 39 | 38 | 35 | 31 | 26 | 20 | 15 |
| CRI3R-36/1/15 | 0.75 | 1 | 15 | 32 | | 60 | 55 | 52 | 51 | 49 | 48 | 46 | 43 | 41 | 33 | 26 | 19 |
| CRI3R-36/1.5/17 | 1.1 | 1.5 | 17 | 32 | | 67 | 64 | 62 | 60 | 58 | 57 | 55 | 52 | 45 | 39 | 30 | 22 |

* Marked pumpset are having ISI licence.



PERFORMANCE CHART

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

85mm BOREWELL SUBMERSIBLE PUMPSET - LENA+ Series

| | | | | | | | | | | | | | RADIAL FLOW | |
|-----------------|------|-----|-------|-------------------|----------------|-----|------|------|------|------|------|------|-------------|------|
| Model | kW | HP | Stage | Outlet Size in mm | m³/hr 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 |

Marked pumpset are available with All Feature Panel.





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