



**C.R.I. PUMPS**

Pumping trust. Worldwide.



85mm

## Borewell Submersible Pumpsets

C.R.I. 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.

### 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



**SPECIFICATIONS**

85mm LENA+

Power range	0.75 kW - 1.5 kW (1 HP - 2 HP)
Speed	2900 RPM
Version	Single Phase, 220V 50Hz, AC Supply
Maximum total head	214 metre
Maximum flow rate	0.9 lps (3.4 m <sup>3</sup> /h)
Maximum outer diameter	92 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

**PERFORMANCE CHART**

85mm BOREWELL SUBMERSIBLE  
PUMPSETS - LENA+ SERIES

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	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24
						lps	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
WCFBK-3/1.0/16	0.75	1.0	16	32	Head in Metres	71	69	66	63	60	52	44	34	23
WCFBK-3/1.5/22	1.1	1.5	22	32		99	96	93	90	84	75	64	50	36
WCFBK-3/2/32	1.5	2.0	32	32		140	136	132	126	116	101	88	70	49
WCFBK-3/2/40	1.5	2.0	40	32		176	169	164	154	140	120	100	85	43
WCFBK-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 pumpsets are having ISI licence.



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In view of continuous developments, the information / performance / descriptions / specifications / illustrations mentioned in this catalogue are subject to change without notice. A&R / Residential Flyer / Oct '21.