



FARMER

THE LIFELINE OF THE NATION



C.R.I. PUMPS

Pumping trust. Worldwide.



Works
upto
2250ft*

2250 ft*
**WORKING
CAPACITY**



125mm/100mm Submersible Pumpsets

COPPER ROTOR WITH SILVER BRAZING FOR LONGER LIFE



Motor & Pump designed for
GREATER DEPTHS



THREAD TYPE MOTOR
for rigid construction



SELF LUBRICATED journal
BUSHES for Increased life



LESS MAINTENANCE
cost

125mm/100mm Borewell Submersible Pumpsets - NILE⁺ Series

C.R.I. Nile+ 125mm/100mm 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.

SPECIFICATIONS

Power range	2.2kW – 7.5kW (3 HP to 10 HP)
Speed	2850 RPM
Version	Single phase 220 - 240V; Three phase 380 – 415V; 50HZ AC Supply
Maximum total head	650 Metre
Maximum flow rate	4.5 lps (16.2 m ³ /h)
Maximum outer diameter	121 mm
Nominal outlet size	32, 40 & 50 mm
Degree of protection	IP 58
Direction of rotation	1Ph - Counter Clockwise from driving end; 3Ph - Electrically reversible
Thrust load	2.2 kW – 4.5 kW – 3500 lbs; 5.5 kW – 7.5 kW – 6000 lbs
Minimum cooling flow along the motor	0.15 m/sec
Type of duty	S1 (Continuous)
Method of starting	1Ph - CSCR; 3Ph - Direct Online (D.O.L) / Star Delta (SD)
Maximum starts per hour	20 times

SALIENT FEATURES

- T - Bolt design in all Motor ensures rigid construction
- Specially designed Deep Drawn type pump ensures perfect alignment and thereby increases the life of the pumpset
- High operating efficiency and more durability
- Specially designed Thrust Bearings to withstand high axial thrust loads
- Designed for Wide Voltage operation
- Best suitable for 150mm under size borewell

APPLICATIONS

- Agricultural & Irrigation
- Sprinkler system
- Domestic water supply
- Pressure boosting units
- Industrial and Mining




**Works
upto
2250ft***

PERFORMANCE CHART

125mm/100mm BOREWELL SUBMERSIBLE PUMPSETS - NILE+ Series

2850 RPM - At Rated Voltage – **Single Phase** - 220 - 240 Volts, **Three Phase** 380 - 415 Volts, 50Hz, A.C. Supply. Maximum Outer Diameter : 121mm

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24
					lps	0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
CRI4R-2/32	2.2	3	32	32	Head in Metres	230	215	206	197	185	167	143	115	
CRI4R-2/35	2.2	3	35	32		261	234	214	196	178	156	127	90	48
CRI4R-2/52	3.7	5	52	32/40		380	353	332	305	273	236	194	148	99
CRI4R-2/60	4.5	6	60	32/40		442	410	391	370	343	307	262	211	
CRI4R-2/75	5.5	7.5	75	32/40		544	504	483	459	428	378	310	241	

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	1.80	2.16	2.52	2.88	3.24	3.60	4.32	5.04
					lps	0	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4
CRI4R-3E/26	2.2	3	26	32	Head in Metres	204	180	173	163	152	139	124	90	52
CRI4R-3E/40	3.7	5	40	32/40		320	274	260	245	228	209	188	142	91
CRI4R-3E/43	4.5	6	43	32/40		335	318	310	298	284	268	252	210	
CRI4R-3E/46	5.5	7.5	46	32/40		365	342	336	327	309	292	275	230	
CRI4R-3E/54	5.5	7.5	54	32/40		427	371	358	343	327	308	284	222	

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	1.8	2.16	2.52	2.88	3.24	3.6	4.32	5.04	5.76	6.48
					lps	0	0.5	0.6	0.7	0.8	0.9	1	1.2	1.4	1.6	1.8
CRI4R-3F/100	7.5	10	100	40	Head in Metres	553	479	461	439	417	392	367	312	282	202	152
CRI4R-3F/113	7.5	10	113	40		650	572	553	527	493	458	425	356	284	179	

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	2.88	3.24	3.60	4.32	5.04	5.76	6.48	7.20
					lps	0	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0
CRI4R-5E/37	3.7	5	37	40	Head in Metres	221	200	196	193	182	168	152	132	112
CRI4R-5E/56	5.5	7.5	56	32/40		325	277	270	263	246				

PERFORMANCE CHART

125mm/100mm BOREWELL SUBMERSIBLE PUMPSETS - NILE+ Series

2850 RPM - At Rated Voltage – **Single Phase** - 220 - 240 Volts, **Three Phase** 380 - 415 Volts, 50Hz, A.C. Supply. Maximum Outer Diameter : 121mm

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	3.24	3.60	4.32	5.04	5.76	6.48	7.20	7.92	8.64	9.36	10.80
						0	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	3.0
CRI4R-5/15	2.2	3	15	40	Head in Metres	115	94	91	84	76	66	55	42	29			
CRI4R-5/18	2.2	3	18	40		134	110	106	98	87	75	61	46	31			
CRI4R-5/25	3.7	5	25	40		178	159	155	145	133	121	97	73				
CRI4R-5/27	3.7	5	27	40		192	164	158	148	133	112	92	68				
CRI4R-5/32	3.7	5	32	40		227	198	192	179	163	148	118	83				
CRI4R-8/23	3.7	5	23	40		169			150	143	137		123	114		94	70
CRI4R-8/28	4.5	6	28	40		203			177	172	165		143	131		103	71
CRI4R-8/34	5.5	7.5	34	40		244			216	210	201		176	160		127	91

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	5.40	7.20	9.0	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/12	2.2	3	12	50	Head in Metres	77.6	67.9	58.9	48.3	37	25.3		
CRI4M-13/9	2.2	3	9	50		49	45	42	41	38	34	28	22

PERFORMANCE CHART

125mm/100mm BOREWELL SUBMERSIBLE PUMPSETS - NILE+ Series

MATERIAL OF CONSTRUCTION - MOTOR	
Part Name	Material
Upper & Lower Housing	Cast Iron
Upper & Lower Housing Shell	SS 304
Stator Shell	SS 304
Shaft	SS 410
Journal Bushes	LTB - 4
Thrust Assembly	SS 420 and Graphite Carbon
Diaphragm	High Nitrile Butyl Rubber

MATERIAL OF CONSTRUCTION - PUMP	
Part Name	Material
Check Valve & Suction Housing	Cast Iron
Pump Shaft	SS 304
Impeller	Noryl / SS 304
Stage Casing	SS 304
Coupling	SS 410
Bracket Bush	LTB – 4 / Nitrile Rubber
Bracket Sleeve	SS 410



C.R.I. PUMPS

Pumping trust. Worldwide.

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- 5 decades of engineering excellence ● Sold in more than 120 countries
 - More than 6000 models of pumps and motors ● Over 1500 service centres
 - Fully equipped R&D wing recognized by Ministry of Science and Technology
 - ISO 9001 & 14001 accreditations
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