



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.



100mm Borewell Submersible Pumpset - 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 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 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.

APPLICATION

- Rural water supply
- Sprinkler system
- Pressure boosting units
- Fire fighting system
- Fountains.

SPECIFICATIONS

	100MM ZUNO
Power range	0.37 kW - 1.5 kW (0.5 HP - 2 HP)
Speed	2850 RPM
Version	Single phase 230V, 50Hz, A.C. Supply
Maximum head	220 metre
Maximum flow rate	2.2 LPS (7.92 m ³ /hr)
Maximum outer diameter	98 mm
Thrust load	0.37kW - 0.75kW - 650 lbs; 1.1kW - 1.5kW - 1000 lbs;
Minimum cooling flow along the motor	0.15 m/sec
Method of starting	Capacitor Start Capacitor Run (CSCR) / Capacitor Start & Run (CSR)
Maximum starts per hour	20 times
Nominal outlet size	32, 40 & 50 mm

PERFORMANCE CHART

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

100mm BOREWELL SUBMERSIBLE PUMPSET - ZUNO 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	Star Rating
						0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	
CRI4F-1F/0.5/07*	0.37	0.5	7	32	Head in Metres	59	55	52	47	40	31	17		
CRI4F-1F/0.75/11*	0.5	0.75	11	32		88	83	77	69	60	40	18		5
CRI4F-1F/1/16*	0.75	1	16	32		129	125	121	106	84	56	34	18	4

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	0.72	1.08	1.44	1.8	2.16	2.52	2.88
						0	0.2	0.3	0.4	0.5	0.6	0.7	0.8
CRI4F-2/1/08	0.75	1	8	32	Head in Metres	68	65	63	61	57	50	44	36

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

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	Star Rating
						0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
CRI4R-2/1/13	0.75	1	13	32	Head in Metres	92	88	84	80	72	64	56	48	39	
CRI4R-2N/0.5/06*	0.37	0.5	6	32		45	42	39	36	33	29	25	22	17	5
CRI4R-2N/0.75/08*	0.55	0.75	8	32		62	57	54	50	46	41	35	29	22	5
CRI4R-2N/1/13*	0.75	1	13	32		95	86	80	74	67	58	49	41	31	4
CRI4R-2N/1.5/13	1.1	1.5	13	32		97	88	82	76	69	60	51	43	33	
CRI4R-2N/1.5/17*	1.1	1.5	17	32		125	115	108	100	92	80	70	57	45	3
CRI4R-2N/1.5/19*	1.1	1.5	19	32		139	127	120	110	100	88	78	64	48	3
CRI4R-2N/2/19	1.5	2	19	32		141	129	122	112	102	90	80	66	50	
CRI4R-2N/2/23*	1.5	2	23	32		172	158	148	137	125	111	95	81	64	3
CRI4R-2N/2/25*	1.5	2	25	32		183	167	158	146	134	119	102	83	65	4
CRI4R-2N/2/30	1.5	2	30	32		220	198	184	169	155	138	115	94	73	

* Marked pumpset are having ISI licence.



PERFORMANCE CHART

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

100mm BOREWELL SUBMERSIBLE PUMPSET - ZUNO Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr 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/0.75/05*	0.55	0.75	5	32	Head in Metres	37	35	34	32	30	27	24	18	10	5
CRI4R-3E/1/05	0.75	1	5	32		37	35	34	32	30	27	24	18	10	
CRI4R-3E/1/07*	0.75	1	7	32		54	50	49	47	45	43	40	31	24	5
CRI4R-3E/1/09*	0.75	1	9	32		71	66	64	61	58	54	50	41	32	5
CRI4R-3E/1/10*	0.75	1	10	32		77	66	64	61	58	55	52	44	19	5
CRI4R-3E/1.5/11*	1.1	1.5	11	32		89	84	82	79	76	73	69	54	38	4
CRI4R-3E/1.5/15*	1.1	1.5	15	32		109	94	91	87	83	78	71	56	38	5
CRI4R-3E/2/15*	1.5	2	15	32		110	95	92	88	84	79	72	57	39	
CRI4R-3E/2/14	1.5	2	14	32		112	103	99	96	92	88	82	67	50	
CRI4R-3E/2/16	1.5	2	16	32		125	118	115	112	106	99	93	77	59	
CRI4R-3E/2/17	1.5	2	17	32		121	114	111	107	103	99	91	74	56	

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	Star Rating
						0	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	
CRI4R-5/1/07*	0.75	1	7	32/40	Head in Metres	50	43	41	38	34	29	24	17	10	5
CRI4R-5/1.5/09*	1.1	1.5	9	40		66	58	56	52	47	40	34	28	20	4
CRI4R-5/2/10*	1.5	2	10	50		73	65	63	59	53	47	39	28	19	

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MATERIAL OF CONSTRUCTION

100mm BOREWELL SUBMERSIBLE PUMPSET - ZUNO Series

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 (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



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