



C.R.I. PUMPS

Pumping trust... Worldwide.



- Tough & Efficient for Long Life.
- Motor designed with High Cooling Effect.
- Technically Enriched Double Depth Working Capacity.
- 3D HT Technology for Long-lasting Performance.
- Specially Designed for More Sprinkler Operations.



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.



150mm /175mm & 150mm /200mm Borewell Submersible Pumpset - CONGO Series

C.R.I. Borewell Submersible Pumpset are powered by water filled, rewindable submersible motor suitable for continuous duty. T-Bolt design in all motor ensures rigid construction. Optimal design of impellers and diffusers offers best possible hydraulic efficiency. Built-in check valve prevents back flow and reduces the risk of water hammering. This 175mm & 200mm submersible pumpsets are supplied with 150mm motor combination

SALIENT FEATURES

- High operating efficiency • Dynamically balanced rotating parts ensures minimum vibration and longer life
- Extremely tough and hard wearing lubricated journal bearings are used • Designed for wide voltage fluctuations
- Better efficiency and consistent performance • Specially designed high performance thrust bearing (SS 420 with Graphite Carbon) to withstand high axial thrust load • SS 410 impellers and hard chrome SS Sleeves are used to increase the life of the pump.

APPLICATION

- Agriculture • Domestic • Irrigation • Gardens • Civil & Industrial water supply • Rural Water Supply • Ponds
- Firefighting • Pressure boosting

SPECIFICATIONS

	150mm/175mm	150mm/200mm
Power range	4.5 kW - 18.5 kW (6 HP - 25 HP)	5.5 kW - 26 kW (7.5 HP - 35 HP)
Speed	2850 RPM	
Version	Three phase 380 - 415V, 50Hz AC Supply	
Maximum total head	101 Metre	117 Metre
Maximum flow rate	33.3 LPS (120 m ³ /hr)	34.26 LPS (123.3 m ³ /hr)
Maximum outer diameter	180 mm	198 mm
Thrust load	4.5 kW - 15 kW - 3500 LBS	5.5 kW - 11 kW - 3500 LBS; 15 kW - 18.5 kW - 6000 LBS
Type of duty	S1 (Continuous)	
Method of starting	Direct Online (D.O.L) up to 5.5 kW, Star Delta (SD) up to 18.5kW	Star Delta (SD) 5.5 kW - 26 kW
Nominal outlet size	100 mm	



PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

150mm / 175mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	10	20	30	40	50	60	65	70	80	Star Rating
					lps	0	2.77	5.56	8.34	11.11	13.88	16.66	18.05	19.4	22.2	
S7C-42N/6/03*	4.5	6	3	100	Head in Metres	37	35	33	31	28	24	19	17	14	8	3 star

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	18	23.9	27	33	39	45	51	57	63	69	78	Star Rating
					lps	0	5	6.66	7.5	9.17	10.84	12.5	14.17	15.83	17.5	19.17	20.83	
S7C-44N/6/02*	4.5	6	2	100	Head in Metres	32	29	28	27	26	25	24	23	22	20	17	15	3 star

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	10	20	30	40	50	60	65	Star Rating
					lps	0	2.77	5.56	8.34	11.11	13.88	16.66	18.05	
S7C-48N/12.5/04	9.3	12.5	4	100	Head in Metres	76	75	72	67	60	52	41	32	3 star

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	10	20	30	40	50	60	65	70	80	90	Star Rating
					lps	0	2.77	5.56	8.34	11.11	13.88	16.66	18.05	19.4	22.2	25	
S7C-50N/7.5/03	5.5	7.5	3	100	Head in Metres	42	39	37	35	32	29	24	21	18	12		3 star
S7C-50N/10/03	7.5	10	3	100		48	46	44	42	41	38	34	31	28	22	16	3 star
S7C-50N/12.5/04	9.3	12.5	4	100		65	62	60	57	54	50	44	41	37	29	20	3 star
S7C-50N/15/05	11	15	5	100		78	75	72	69	65	61	54	51	45	36	24	3 star

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	10	20	30	40	50	60	65	70	80	90	Star Rating
					lps	0	2.77	5.56	8.34	11.11	13.88	16.66	18.05	19.4	22.2	25	
S7C-54N/7.5/02	5.5	7.5	2	100	Head in Metres	33	32	30	29	27	26	23	21	19	15	11	3 star

* Marked pumpsets are having ISI licence.

PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

150mm / 175mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

MIXED FLOW																	
Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	25.2	32.4	39.6	46.8	54	61.2	68.4	75.6	82.8	90	97.2
					lps	0	7	9	11	13	15	17	19	21	23	25	27
S7C-54N/15/04*	11	15	4	100	Head in Metres	67	60	59	57	54	52	48	44	38	33	27	6

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	18	23.98	27	33.01	39.02	45	51.01	56.98	63	69.01	74.98
					lps	0	5	6.66	7.5	9.17	10.84	12.5	14.17	15.83	17.5	19.17	20.83
WC7CM-50/6/03	4.5	6	3	100	Head in Metres	40	35	34	33	31	30	28	26	25	23	21	18
WC7CM-50/7.5/04	5.5	7.5	4	100		45	41	41	40	39	37	35	31	29	26	22	18
WC7CM-50N/10/04	7.5	10	4	100		45	42	41	40	39	37	35	31	29	26	22	18
WC7CM-50/10/05	7.5	10	5	100		61	55	52	51	48	46	44	41	39	37	34	30
WC7CM-50N/12.5/05	9.3	12.5	5	100		62	56	53	52	49	47	45	42	40	38	35	31
WC7CM-56/5/02	3.7	5	2	100		26	25	24.5	24	23	22	21	20	18.5	18	16	15
WC7CM-56/6/02	4.5	6	2	100		30	29	28	27	25	23	21	20	19	18	17	15
WC7CM-56/7.5/03	5.5	7.5	3	100		41	37	36	35	34	32	31	29	28	26	24	22
WC7CM-56/10/04	7.5	10	4	100		51	47	45	44	41	40	38	36	35	33	31	30
WC7CM-56N/12.5/04	9.3	12.5	4	100		52	48	46	45	42	41	39	37	36	34	32	31
WC7CM-56/12.5/05	9.3	12.5	5	100		66	61	59	58	55	53	50	47	45	42	39	35
WC7CM-56N/15/05	11	15	5	100		67	62	60	59	56	54	51	48	46	43	40	36
WC7CM-56/15/06	11	15	6	100		74	71	69	69	67	65	63	60	58	55	51	48
WC7CM-56/17.5/07	13	17.5	7	100		88	84	82	81	78	76	73	70	68	64	61	57
WC7CM-60/10/03	7.5	10	3	100		46	42	41	40	39	37	36	34	33	31	29	27
WC7CM-60/12.5/04	9.3	12.5	4	100		62	56	54	53	51	48	46	43	42	39	37	34
WC7CM-60N/15/04	11	15	4	100		63	57	55	54	52	49	47	44	43	40	38	35
WC7CM-60/15/05	11	15	5	100		75	69	67	66	64	61	59	56	53	51	48	45
WC7CM-60/17.5/06	13	17.5	6	100		85	78	76	75	72	70	67	64	61	57	53	49
WC7CM-60/20/07	15	20	7	100		99	91	89	88	85	81	78	73	69	65	61	57

* Marked pumpsets are having ISI licence.



PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

150mm / 175mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

																		MIXED FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	25.2	32.4	39.6	46.8	54	61.2	68.4	75.6	82.8	90	97.2	104.4	111.6
					DISCHARGE	lps	0	7	9	11	13	15	17	19	21	23	25	27	29
WC7CM-61/7.5/02	5.5	7.5	2	100	Head in Metres	34	29	28	27	26	25	23	21	19	16	14	11		
WC7CM-61/10/02N SPL	7.5	10	2	100		34	29	28	27	26	25	23	21	19	16	14	11		
WC7CM-61/15/04	11	15	4	100		66	60	59	56	54	52	50	48	45	42	37	32		
WC7CM-61/20/05	15	20	5	100		80	71	69	67	65	62	60	56	51	45	39	31		
WC7CM-61/25/06	18.5	25	6	100		101	91	88	86	84	81	77	74	69	63	57	50	43	34

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	25.2	32.4	39.6	46.8	54	61.2	68.4	75.6	82.8	90	97.2	104.4	111.6
					Lps	0	7	9	11	13	15	17	19	21	23	25	27	29	31
WC7CM-69/5/03 SPL	3.7	5	3	100	Head in Metres	39	34	33	32	30	29	26	24	21	18	14	11		
WC7CM-69/7.5/03	5.5	7.5	3	100		45	39	38	37	36	35	33	31	28	25	22	19		
WC7CM-69/7.5/03N SPL	5.5	7.5	3	100		40	35	34	33	31	30	27	25	21	19	15	12	10	
WC7CM-69/10/02	7.5	10	2	100		39	35	34	33	32	30	29	27	25	22	19	16		
WC7CM-69/10/03N	7.5	10	3	100		46	40	39	38	37	36	34	32	29	26	23	14		
WC7CM-69/12.5/02N	9.3	12.5	2	100		40	36	35	34	33	31	30	28	26	23	20	17		
WC7CM-69/15/03	11	15	3	100		56	48	46	45	44	43	41	40	37	34	31	26		
WC7CM-69/20/04	15	20	4	100		77		75	70	65	61	57	54	51	48	44	38		
WC7CM-69/25/05	18.5	25	5	100		91	84	82	80	78	75	73	70	65	60	54	48	42	34

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	18	22	27	33	39	45	50	57	63	75	87	99	104	111	117	120
					Lps	0	5	6	7.5	9.17	10.84	12.5	14.17	15.83	17.5	20.83	24.17	27.5	29	30.8	32.5	33.3
WC7CM-69/10/03	7.5	10	3	100	Head in Metres	48	45	44	43	42	41	40	39	38	36	33	28	22	19	15	12	10
WC7CM-69/12.5/03	9.3	12.5	3	100		54	50	49	48	47	46	45	44	42	41	38	33	26	23	20	16	14
WC7CM-69/12.5/03N SPL	9.3	12.5	3	100		47	44	43	42	41	40	39	38	37	35	32	27	21	18	14	11	9
WC7CM-69/15/03N	11	15	3	100		53	49	48	47	46	45	44	43	41	40	37	32	25	22	19	15	13

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	32.4	39.6	46.8	54	61.2	68.4	75.6	82.8	90	97.2
					Lps	0	9	11	13	15	17	19	21	23	25	27
WC7CM-75/12.5/02	9.3	12.5	2	100	Head in Metres	41	36	35	34	32.5	31	29	26.5	23.5	21	18.5

PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

150mm / 200mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

DISCHARGE																	MIXED FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	20	30	40	50	60	75	80	90	100	110	120	Star Rating
					lps	0	5.56	8.33	11.12	13.90	16.68	20.83	22.22	25	27.77	30.55	33.33	
S68C-62N/10/2*	7.5	10	2	100	Head in Metres	39	37	36	35	34	32	30	26	23	19	14	8	3 star
S68C-62N/15/3*	11	15	3	100		60	56	55	54	52	50	44	42	36	31	24	11	3 star
S68C-62N/20/04*	15	20	4	100		81	76	74	72	70	66	60	56	49	41	32	23	3 star

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	20	30	40	50	60	75	80	90	100	110	120	Star Rating
					lps	0	5.56	8.33	11.12	13.90	16.68	20.83	22.22	25	27.77	30.55	33.33	
S68C-68N/12.5/2*	9.3	12.5	2	100	Head in Metres	45	43	42	41	40	38	35	34	31	27	24	7	3 star

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	20	30	40	50	60	75	80	90	100	110	120	Star Rating
					lps	0	5.56	8.33	11.12	13.90	16.68	20.83	22.22	25	27.77	30.55	33.33	
S68C-75N1/17.5/3*	13	17.5	3	100	Head in Metres	67	63	61	60	59	57	54	51.5	47	42.5	36	28	3 star
S68C-75N1/20/3*	15	20	3	100	Head in Metres	72	66	65	63	62	60	56	54.5	50	45	38	31	3 star

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	18	23.98	27	33.01	39.02	45	51.01	56.98	63	69.01	74.98	81	87.01
					lps	0	5	6.66	7.5	9.17	10.84	12.5	14.17	15.83	17.5	19.17	20.83	22.5	24.17
WC8CM-50/10/03	7.5	10	3	100	Head in Metres	54	52	50	49	47	45	43	40	38	35	32	29	25	21

* Marked pumpsets are having ISI licence.



PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

150mm / 200mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

															MIXED FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	20	30	40	50	60	65	68	70	80	90
					lps	0	5.55	8.33	11.11	13.88	16.66	18.05	18.88	19.44	22.22	25
WC8CM-58/10/03	7.5	10	3	100	Head in Metres	56	50	49	46	43	38	34	32	27	21	14

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	18	23.98	27	33.01	39.02	45	51.01	56.98	63	69.01	74.98	81
					lps	0	5	6.66	7.5	9.17	10.84	12.5	14.17	15.83	17.5	19.17	20.83	22.5
WC8CM-60/7.5/02	5.5	7.5	2	100	Head in Metres	35	34	33	32	31	30	29	27	26	24	23	22	20
WC8CM-60/10/02N	7.5	10	2	100		36	35	34	33	32	31	30	28	27	25	24	23	21
WC8CM-60/12.5/03	9.3	12.5	3	100		60	55	53	52	51	49	48	47	46	45	44	41	39
WC8CM-60/20/05	15	20	5	100		98	85	82	81	77	74	70	65	61	55	49	43	37

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	18	23.98	27	33.01	39.02	45	51.01	56.98	63	69.01
					lps	0	5	6.66	7.5	9.17	10.84	12.5	14.17	15.83	17.5	19.17
WC8CM-65/12.5/03	9.3	12.5	3	100	Head in Metres	68	60	57	55	51	47	43	42	36	30	24
WC8CM-65/12.5/04 SPL	9.3	12.5	4	100		82	75	71	66	62	56	51	49	42	33	24
WC8CM-65/15/03N	11	15	3	100		68	60	57	55	51	47	43	42	36	30	24
WC8CM-65/15/04	11	15	4	100		84	77	73	68	64	58	53	51	44	35	26

PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

150mm / 200mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	36.8	69.2	84.4	95.5	106.7	113.9	122.0
					lps	0	10.23	19.21	23.44	26.54	29.65	31.64	33.88
WC8CM-68/10/02	7.5	10	2	100	Head in Metres	43	39	35	31	28	24	20	12

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	24	54.4	74.1	85.2	84.1	94.9	110.9
					lps	0	6.7	15.1	20.6	23.7	23.4	26.4	30.8
WC8CM-68/12.5/02N-SPL	9.3	12.5	2	100	Head in Metres	42	39	35	31	27	23	19	11

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	24	54.4	74.1	85.2	84.1	94.9	110.9	120.2
					lps	0	6.7	15.1	20.6	23.7	23.4	26.4	30.8	33.4
WC8CM-68/15/03	11	15	3	100	Head in Metres	67	61	56	52	47	42	37	32	22

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	24	54.4	74.1	85.2	94.9	110.9	120.2
					lps	0	6.7	15.1	20.6	23.7	26.4	30.8	33.4
WC8CM-68/17.5/04	13	17.5	4	100	Head in Metres	85	78	71	63	56	50	36	24

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	19.3	45.7	65.3	77.1	86.1	100	121.7	123.3
					lps	0	5.63	12.7	18.15	21.43	23.92	27.79	33.8	34.26
WC8CM-68/20/04	15	20	4	100	Head in Metres	87	81	76	71	66	61	52	32	12



PERFORMANCE CHART

2850 RPM, At Rated Voltage – Three Phase 380-415V, 50hz, A.C. Supply.

150mm / 200mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

																MIXED FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	20	30	40	50	60	75	80	90	100	110	120
					lps	0	5.55	8.33	11.11	13.88	16.66	20.83	22.22	25	27.78	30.55	33.33
WC8CM-68/25/04	18.5	25	4	100	Head in Metres	88	80	77	75	73	70	64	61	55	48	39	28
WC8CM-68/25/05	18.5	25	5	100	Head in Metres	117	100	96	90	84	77	73	68	57	47	36	

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	20	30	40	50	60	75	80	90	100	110	120
					lps	0	5.55	8.33	11.11	13.88	16.66	20.83	22.22	25	27.78	30.55	33.33
WC8CM-75/30/04*	22	30	4	100	Head in Metres	90	87	84	82	78	73	67	64	59	51	43	33
WC8CM-75/35/05*	26	35	5	100	Head in Metres	112	107	105	102	98	92	84	81	75	66	55	43

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	18	22	27	33	39	45	50	57	63	68	75	81	87	93	99	104	110
					lps	0	5	6	7.5	9.2	10.8	12.5	14	15.8	17.5	19	20.8	22.5	24.2	25.8	27.5	29	30.8
WC8CM-80/17.5/03	13	17.5	3	100	Head in Metres	66	62	61	59	57	55	53	51	50	49	48	45	43	40	38	33	30	27
WC8CM-90/12.5/02	9.3	12.5	2	100		46	43	42	41	41	40	39	38.5	38	37	36	35	33	32	30	28	26	24
WC8CM-90/15/02N	11	15	2	100		48	45	44	43	43	42	41	40	40	39	38	37	35	34	32	30	28	26
WC8CM-90/15/02	11	15	2	100		54	50	49	48	47	46	45	44	42	41	40	39	37	36	34	32	30	27
WC8CM-90/20/03	15	20	3	100		77	70	69	67	65	64	62	61	60	58	57	55	53	51	49	46	43	39
WC8CM-90/25/03	18.5	25	3	100		81	80	79	77	75	72	70	68	66	63	62	60	59	57	55	53	50	46

* Marked pumpsets are having ISI licence.

MATERIAL OF CONSTRUCTION

150mm / 200mm BOREWELL SUBMERSIBLE PUMPSET - CONGO Series

MOTOR	
150mm Motor	
Part Name	Material
Upper and lower housing	Cast iron
Stator shell	SS 304
Shaft	SS 410
Journal bushes	LTB - 4 & Carbon
Thrust assembly	SS 420 and Graphite carbon
Diaphragm	High nitrile butyl rubber

PUMP		
	175mm Pump	200mm Pump
Part Name	Material	Material
Check valve housing	Cast iron	Cast iron
Check valve seat	Nitrile butyl rubber	SG iron
Diffuser chamber	Cast iron	Cast iron
Impeller	SS 410	SS 410
Suction inter connector	Cast iron	Cast iron
Inlet screen	SS 202	SS 202
Pump shaft	SS 410 / SS 431	SS 410 / SS 431
Cable guard	SS 202	SS 202
Coupling	SS 410	SS 410 / SS 431



✿ CATERERS TO DIVERSE SEGMENTS ✿

WATER & WASTE WATER | SOLAR | PROCESS INDUSTRIES | SEWAGE & EFFLUENT TREATMENT PLANTS
HVAC | FIRE FIGHTING | METAL & MINING | FOOD & BEVERAGE | AGRICULTURE | RESIDENTIAL



C.R.I. PUMPS
Pumping trust... Worldwide.



TOLL FREE 1800 121 1243  **www.crigroups.com**  **chatbot : +91 9500401115**

In view of continuous developments, the information / performance / descriptions / specifications / illustrations mentioned in this catalogue are subject to change without notice.