



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



AGRICULTURAL PUMPS



200mm Borewell Submersible Pumpsets BHIMA Series

C.R.I. 200 mm Borewell Submersible Pumpsets are powered by water filled, rewindable submersible motor which is suitable for continuous duty. The stator is wound with special waterproof synthetic film insulated copper winding wires and made up of low watt loss silicon steel laminations assembled under pressure and rigidly locked in stainless steel stator shell. Pump components are specially designed for best possible hydraulic efficiency.

SALIENT FEATURES

- High operating efficiency
- SS 410 impellers and hard chrome sleeves are used to increase the life of the pump
- Extremely tough & hard wearing lubricated journal bearings are used
- Dynamically balanced rotating parts ensures minimum vibration and longer life
- Specially designed thrust bearing (SS 420 with Graphite carbon) to withstand high axial thrust load
- Designed for wide voltage fluctuations
- Best suitable for sprinkler applications
- Fully SS Pumpsets & Horizontal application models available.

APPLICATION

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



SPECIFICATIONS

Power Range	7.5 kW - 63.4 kW (10 HP - 85 HP)
Speed	2900 rpm
Version	Three phase 380 - 415V, 50Hz, AC Supply
Maximum total head	352 metre
Maximum flow rate	53.33 lps (192 m ³ /h)
Maximum outer diameter	187 & 192 mm
Degree of protection	IP 58
Direction of rotation	Three phase - Electrically Reversible
Thrust load	7.5 kW - 11 kW - 3500 lbs, 15 kW - 18.5 kW - 6000 lbs, 22 kW - 55 kW - 10000 lbs
Type of duty	S1 (Continuous)
Method of starting	Star Delta(SD) - 7.5 kW - 55 kW
Maximum starts per hour	20 times
Nominal outlet size	80, 100 & 125 mm

More
Sprinklers

Rigid
Construction

High
Efficiency



PERFORMANCE CHART

200mm BOREWELL SUBMERSIBLE PUMPSETS - BHIMA Series

2990 RPM, At Rated Voltage – Three Phase 415 Volts, 50hz, A.C. Supply.

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE											
					m ³ /hr	0	5	10	15	20	23	25	27	29	31	36
					lps	0	1.39	2.78	4.17	5.56	6.39	6.94	7.5	8.06	8.61	10
WC8BA-27/40/14	30	40	14	80	Head in Metres	352	343	330	313	292	274	263	249	234	213	170

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE													
					m ³ /hr	0	10	15	20	25	30	35	38	40	45	50	55	60
					lps	0	2.78	4.17	5.56	6.94	8.33	9.72	10.56	11.11	12.51	13.89	15.28	16.66
WC8BM-30/30/10 SPL	22	30	10	80	Head in Metres	214	195	190	186	181	175	167	160	155	140	120	92	61

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE													
					m ³ /hr	0	10	15	20	25	31	35	38	40	45	50	55	60
					lps	0	2.78	4.17	5.56	6.94	8.61	9.72	10.56	11.11	12.51	13.89	15.28	16.66
WC8BM-35/50/15	37	50	15	80	Head in Metres	310	294	284	275	265	255	243	234	227	205	181	151	117
WC8BM-35/50/16	37	50	16	80	Head in Metres	328	306	295	285	276	268	256	245	238	215	188	157	120

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE												
					m ³ /hr	0	5	10	15	20	25	30	35	36	38	40	42
					lps	0	1.38	2.78	4.17	5.55	6.94	8.89	9.44	10	10.56	11.11	12.22
WC8BA-36/25/08 - H	18.5	25	8	80	Head in Metres	212	206	199	193	185	172	153	129	124	114	104	94

Model	kW	HP	Stage	Outlet Size in mm	DISCHARGE											
					m ³ /hr	0	10	20	30	40	42	44	46	48	50	60
					lps	0	2.78	5.56	8.34	11.12	11.67	12.22	12.77	13.33	13.90	16.68
WC8BM-42N/30/08	22	30	8	80	Head in Metres	161	153	146	140	131	128	124	120	116	111	79
WC8BM-42N/45/12	34	45	12	80	Head in Metres	242	231	220	210	196	192	188	183	177	170	126

H - Stands for Horizontal Model.

PERFORMANCE CHART

200mm BOREWELL SUBMERSIBLE PUMPSETS - BHIMA Series

2990 RPM, At Rated Voltage – Three Phase 415 Volts, 50hz, A.C. Supply.

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr		0	10	20	DISCHARGE		50	60	65
					lps	0				2.78	5.56			
WC8BM-48/10/03*	7.5	10	3	100	Head in Metres	57	55	51	47	44	38	30	24	
WC8BM-48/25/07	18.5	25	7	100		135	132	122	114	104	92	72	63	
WC8BM-48/30/10	22	30	10	100		190	181	171	160	144	126	104	91	
WC8BM-48/40/12	30	40	12	100		234	223	212	200	184	162	136	116	

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr		0	10	20	30	40	50	DISCHARGE		60	62	64	70	80	90	100
					lps	0							2.77	5.55							
WC8BM-60/12.5/03*	9.3	12.5	3	100	Head in Metres	56	55	54	52	50	47	45	43	42	41	40	38	33	27	19	
WC8BM-60/15/04*	11	15	4	100		71	69	67	64	60	58	57	56	55	54	52	48	40	32	21	
WC8BM-60/20/05 - H	15	20	5	100		88	84	82	78	74	70	69	68	66	65	63	58	47	33	23	
WC8BM-60/25/06 - H*	18.5	25	6	100		105	100	98	93	88	84	82	80	79	78	75	70	56	40	27	
WC8BM-60/30/8*	22	30	8	100		135	129	125	120	115	112	107	105	103	101	99	90	73	56	38	
WC8BM-60/40/10*	30	40	10	100		181	174	167	162	157	154	147	145	143	142	132	126	112	90	64	
WC8BM-60/50/12*	37	50	12	100		218	213	206	196	188	177	170	168	166	160	157	150	133	112	85	

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr		0	20	30	40	DISCHARGE		68	70	80	90	100
					lps	0					5.56	8.34					
WC8BM-68/15/03*	11	15	3	100	Head in Metres	71	63	58	56	53	47	44	43	38	32	23	
WC8BM-68/20/04 - H*	15	20	4	100		94	82	77	73	69	62	58	55	49	40	31	
WC8BM-68/25/05 - H*	18.5	25	5	100		117	100	96	90	84	77	73	68	57	47	36	
WC8BM-68/30/06 - H*	22	30	6	100		136	119	112	105	98	90	83	80	68	55	41	
WC8BM-68/35/07	26	35	7	100		160	139	132	126	117	107	96	95	82	63	51	
WC8BM-68/40/08*	30	40	8	100		185	160	152	145	137	122	114	111	93	82	60	
WC8BM-68/50/10	37	50	10	100		228	200	190	182	168	154	144	140	123	101	74	
WC8BM-68/60/12	45	60	12	100		276	240	230	214	203	184	173	164	142	122	91	



PERFORMANCE CHART

200mm BOREWELL SUBMERSIBLE PUMPSETS - BHIMA Series

2990 RPM, At Rated Voltage – Three Phase 415 Volts, 50hz, A.C. Supply.

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	20	30	40	50	60	70	75	80	90	100
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
WC8BM-70/50/08	37	50	8	100	Head in Metres	157	150	147	143	139	133	122	116	111	95	74
WC8BM-70/75/12*	55	75	12	100	Head in Metres	236	227	223	220	217	211	191	182	171	150	120
WC8BM-70/85/14	63	85	14	100	Head in Metres	282	272	266	260	255	248	236	224	209	179	150

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	20	30	40	50	60	75	80	90	100	110	120
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
WC8BM-75/25/03	18.5	25	3	100	Head in Metres	70	66	65	64	59	58	52	48	43	36	28	
WC8BM-75/25/04	18.5	25	4	100	Head in Metres	87	83	82	77	74	69	63	60	54	47	38	28
WC8BM-75/30/04*	22	30	4	100	Head in Metres	90	87	84	82	78	73	67	64	59	51	43	33
WC8BM-75/35/05*	26	35	5	100	Head in Metres	112	107	105	102	98	92	84	81	75	66	55	43
WC8BM-75/85/12	63	85	12	100	Head in Metres	271	260	252	243	231	219	202	195	177	153	126	95

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	20	40	60	80	88	90	92	94	96	100	120	136
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
WC8BM-80/35/04*	27	35	4	100	Head in Metres	92	86	82	76	67	65	63	62	60	58	57	41	24
WC8BM-80/40/05*	30	40	5	100	Head in Metres	115	108	103	95	84	81	78	77	75	73	71	51	30
WC8BM-80/75/10	55	75	10	100	Head in Metres	230	216	205	189	167	162	157	153	150	147	142	102	60

H - Stands for Horizontal Model.

PERFORMANCE CHART

200mm BOREWELL SUBMERSIBLE PUMPSETS - BHIMA Series

2990 RPM, At Rated Voltage – Three Phase 415 Volts, 50hz, A.C. Supply.

																	MIXED FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	20	40	60	70	80	85	92	100	110	120	136	
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					Head in Metres	0	5.56	11.12	16.68	19.44	22.22	23.6	25.55	27.78	30.55	33.33	37.77	
WC8BM-95/30/03*	22	30	3	100/125	Head in Metres	77	75	72	67	65	62	61	58	54	49	42	21	
WC8BM-95/40/04*	30	40	4	100/125		105	100	97	91	88	85	83	80	75	67	57	40	
WC8BM-95/50/05	37	50	5	100/125		126	125	120	113	109	105	103	99	92	82	70	48	
WC8BM-95/12.5/2(HD)	9.3	12.5	2	100/125		45	43	41	38	36	34	33	30	27	22	18		
WC8BM-95/15/02(HD)	11	15	2	100/125		55	49	46	42	40	38	36	34	32	27	23	14	
WC8BM-95/20/03(HD)	15	20	3	100/125		72	69	64	59	55	53	51	48	42	36	29	11	
WC8BM-95/25/03(HD)SPL	18.5	25	3	100/125		77	73	69	63	60	57	55	52	49	43	35	23	

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	20	40	60	80	100	120	122	124	126	128	130	140	160	180	192
						DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
					Head in Metres	0	5.56	11.11	16.68	22.22	27.78	33.33	33.88	34.44	35	35.6	36.11	38.88	44.44	50	53.33
WC8BM-125/25/02*	19	25	2	125	Head in Metres	52	50	47	45	42	40	37	36	35	34	33	32	31	26	20	15

MATERIAL OF CONSTRUCTION - PUMP

Part Name	Material
Check valve housing	Cast iron
Check valve seat	SG iron
Diffuser chamber	Cast iron
Impeller	LTB - 2 & SS 410
Suction inter connector	Cast iron
Inlet screen	SS 202
Pump shaft	SS 410 / SS 431
Cable guard	SS 202
Coupling	SS 410 / SS 431

MATERIAL OF CONSTRUCTION - MOTOR

Part Name	Material
Upper and lower housing	Cast iron
Stator shell	Stainless Steel
Shaft	EN 8 with SS 410 / 431 sleeve bush at guide
Journal bushes	LTB 4 / Nitrile rubber
Thrust assembly	SS 420 and Graphite carbon
Diaphragm	High nitrile butyl rubber



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