



FARMER

THE LIFELINE OF THE NATION



C.R.I. PUMPS

Pumping trust. Worldwide.

BHIMA



**MORE
SPRINKLERS
& HIGH
DISCHARGE**



200mm Submersible Pumpset

COPPER ROTOR WITH SILVER BRAZING FOR LONGER LIFE



More **SPRINKLERS**
More **COVERAGE AREA**



CFD designed **BOWLS & CASTED
SS IMPELLERS** for high discharge



RIGID construction



Designed for
WIDE VOLTAGE operation

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.

SPECIFICATIONS

Power Range	7.5 kW - 55 kW (10 HP - 75 HP)
Speed	2900 rpm
Version	Three phase 380 - 415V, 50Hz, AC Supply
Maximum total head	397 metre
Maximum flow rate	53.33 lps (192 m³/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

SALIENT FEATURES

- High operating efficiency
- SS 410 impellers are 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 high performance 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

APPLICATIONS

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



PERFORMANCE CHART

200mm BOREWELL SUBMERSIBLE PUMPSETS - **BHIMA Series**

2990 RPM, At Rated Voltage – **Three Phase** 415 Volts, 50hz, A.C. Supply. Maximum Outer Diameter : **192 mm**

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	5	10	15	20	25	30	36
					lps	0	1.39	2.78	DISCHARGE 4.17	5.56	6.94	8.33	10
WC8BA-25/20/08	15	20	8	80	Head in Metres	200	193	185	176	164	147	124	95
WC8BA-25/30/12	22	30	12	80		297	288	277	269	245	218	185	140
WC8BA-25/35/14	26	35	14	80		347	337	324	307	287	260	220	166
WC8BA-25/40/16	30	40	16	80		397	385	370	351	328	291	251	191

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	5	10	15	20	23	25	27	29	31	36
					lps	0	1.39	2.78	4.17	DISCHARGE 5.56	6.39	6.94	7.5	8.06	8.61	10
WC8BA- 27/25/10	18.5	25	10	80	Head in Metres	250	243	235	223	206	194	185	176	166	153	120
WC8BA- 27/35/12	26	35	12	80		300	292	287	268	249	236	224	211	197	182	140
WC8BA- 27/40/14	30	40	14	80		352	343	330	313	292	274	263	249	234	213	170

Model	kW	HP	Stage	Outlet Size in mm	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	DISCHARGE 6.94	8.89	9.44	10	10.56	11.11	12.22
WC8BA-36/20/06	15	20	6	80	Head in Metres	158	154	149	145	140	131	119	101	96	89	78	67
WC8BA-36/25/08 - H	18.5	25	8	80		212	206	199	193	185	172	153	129	124	114	104	94
WC8BA-36/30/09	22	30	9	80		240	234	229	220	209	195	175	148	142	128	116	104
WC8BA-36/35/11	26	35	11	80		292	282	272	260	247	232	209	174	167	152	139	125
WC8BA-36/40/12	30	40	12	80		313	305	289	282	267	248	224	190	179	168	152	136
WC8BA-36/45/14	34	45	14	80		364	353	341	328	315	295	266	227	218	200	182	164

Model	kW	HP	Stage	Outlet Size in mm	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	DISCHARGE 8.61	9.72	10.56	11.11	12.51	3.89	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		328	306	295	285	276	268	256	245	238	215	188	157	120
WC8BM-35/60/18	45	60	18	80		371	343	332	320	312	303	290	278	270	244	214	179	139

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. Maximum Outer Diameter : 192 mm

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	10	20	30	40	42	44	46	48	50	60
						0	2.78	5.56	8.34	11.12	11.67	12.22	12.77	13.33	13.90	16.68
WC8BM-42N/25/06	18.5	25	6	80	Head in Metres	123	117	111	108	102	100	97	95	92	88	63
WC8BM-42N/30/07	22	30	7	80		144	135	129	124	116	113	111	108	104	100	72
WC8BM-42N/30/08	22	30	8	80		161	153	146	140	131	128	124	120	116	111	79
WC8BM-42N/35/09	26	35	9	80		184	174	167	160	149	145	142	139	134	129	95
WC8BM-42N/40/11	30	40	11	80		223	214	205	195	182	178	174	169	163	157	115
WC8BM-42N/45/12	34	45	12	80		242	231	220	210	196	192	188	183	177	170	126
WC8BM-42N/50/12	37	50	12	80		244	233	222	212	198	194	190	185	179	172	127
WC8BM-42N/50/13	37	50	13	80		265	251	239	230	214	209	204	198	191	183	137
WC8BM-42N/60/15	45	60	15	80		303	291	278	262	244	237	230	226	217	209	155

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	10	20	30	40	50	60	70
						0	2.78	5.56	8.34	11.12	13.9	16.68	19.46
WC8BM-54/35/07	26	35	7	80	Head in Metres	150	144	138	130	119	104	82	50
WC8BM-54/40/09	30	40	9	80		188	184	178	170	159	143	117	78
WC8BM-54/50/10	37	50	10	80		271	212	205	195	182	162	135	96

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	10	20	30	40	50	60	65
						0	2.78	5.56	8.34	11.12	13.90	16.68	18.07
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-48/35/10	26	35	10	100		196	189	180	168	154	136	112	97
WC8BM-48/40/12	30	40	12	100		234	223	212	200	184	162	136	116

PERFORMANCE CHART

200mm BOREWELL SUBMERSIBLE PUMPSETS - BHIMA Series

2990 RPM, At Rated Voltage – **Three Phase** 415 Volts, 50hz, A.C. Supply. Maximum Outer Diameter : **192 mm**

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	10	20	30	40	50	DISCHARGE		60	62	64	70	80	90	100
						0	2.77	5.55	8.33	11.11	13.88	15.55	16.11	16.66	17.22	17.77	19.44	22.22	25	27.77
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 - H	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 - H	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 lps	0	20	30	40	50	DISCHARGE		60	68	70	80	90	100
						0	5.56	8.34	11.12	13.9	16.68	18.88	19.44	22.22	25	27.78		
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 - H	26	35	7	100		160	139	132	126	117	107	96	95	82	63	51		
WC8BM-68/40/08 - H	30	40	8	100		185	160	152	145	137	122	114	111	93	82	60		
WC8BM-68/45/09	34	45	9	100		206	180	171	163	152	137	128	125	105	92	67		
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		

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	20	30	40	50	DISCHARGE		60	70	75	80	90	100
						0	5.56	8.34	11.12	13.90	16.68	19.44	20.83	22.22	25	27.78		
WC8BM-70/25/04	18.5	25	4	100	Head in Metres	81	75	73	71	69	64	59	54	51	42	37		
WC8BM-70/35/06 - H	26	35	6	100		118	113	111	109	106	102	95	90	85	71	57		
WC8BM-70/50/08	37	50	8	100		157	150	147	143	139	133	122	116	111	95	74		
WC8BM-70/75/12	55	75	12	100		236	227	223	220	217	211	191	182	171	150	120		

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. Maximum Outer Diameter : 192 mm

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	20	30	40	50	60	75	80	90	100	110	120
						0	5.56	8.34	11.12	13.9	16.68	20.83	22.22	25	27.78	30.55	33.33
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		87	83	82	77	74	69	63	60	54	47	38	28
WC8BM-75/30/04	22	30	4	100		90	87	84	82	78	73	67	64	59	51	43	33
WC8BM-75/35/05	26	35	5	100		112	107	105	102	98	92	84	81	75	66	55	43
WC8BM-75/50/07	37	50	7	100		158	152	147	143	137	129	117	113	103	91	77	60
WC8BM-75/60/08 *	45	60	8	100		178	170	165	161	156	149	134	130	119	104	87	69
WC8BM-75/60/09	45	60	9	100		200	190	186	182	177	170	151	144	131	115	96	76

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
						0	5.55	11.11	16.68	22.22	24.4	25	25.55	26.1	26.7	27.78	33.33	37.77
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		115	108	103	95	84	81	78	77	75	73	71	81	30
WC8BM-80/75/09	55	75	9	100		208	195	185	170	150	146	141	138	135	132	128	92	54
WC8BM-80/75/10	55	75	10	100		230	216	205	189	167	162	157	153	150	147	142	102	60

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	20	40	60	70	80	85	92	100	110	120	136
						0	5.56	11.12	16.68	19.44	22.22	23.6	25.55	27.78	30.55	33.33	37.77
WC8BM-95/20/02	15	20	2	100/125	Head in Metres	51	49	47	45	43	42	41	40	37	33	28	17
WC8BM-95/30/03	22	30	3	100/125		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

* Marked pumpsets are having ISI licence.

PERFORMANCE CHART

200mm BOREWELL SUBMERSIBLE PUMPSETS - **BHIMA Series**

2990 RPM, At Rated Voltage – **Three Phase** 415 Volts, 50hz, A.C. Supply. Maximum Outer Diameter : **192 mm**

MIXED FLOW

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	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

200mm BOREWELL SUBMERSIBLE PUMPSETS - **BHIMA Series (Spl. Motors)**

2990 RPM, At Rated Voltage – **Three Phase** 415 Volts, 50hz, A.C. Supply. Maximum Outer Diameter : **192 mm**

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	30	40	50	60	62	70	80	90	100	110	120
					DISCHARGE	0	8.33	11.12	13.9	16.68	17.2	19.44	22.22	25	27.77	30.55	33.33
WC8BM-62/15/04 (G)	11	15	4	100	Head in Metres	62	56	53	50	47	46	41	35	27	20	13	6
WC8BM-62/20/05 (G)	15	20	5	100		80	72	70	66	62	61	56	48	39	30	19	8
WC8BM-62/25/06 (G)	18.5	25	6	100		95	86	82	77	72	70	64	53	45	33	21	9
WC8BM-62/30/08 (G)	22	30	8	100		128	115	110	105	98	97	89	76	62	48	32	15
WC8BM-62/40/10 (G)	30	40	10	100		164	148	142	134	126	124	115	101	84	65	46	23

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	20	30	40	50	60	68	70	80	90	100
					DISCHARGE	0	5.56	8.34	11.12	13.9	16.68	18.88	19.44	22.22	25	27.78
WC8BM-65/10/02 (G)	7.5	10	2	100	Head in Metres	41	36	35	33	31	28	25	24	21	18	11
WC8BM-65/15/03 (G)	11	15	3	100		62	54	52	49	46	41	38	36	31	25	18
WC8BM-65/20/04 (G)	15	20	4	100		85	76	71	67	63	58	53	51	43	35	25
WC8BM-65/25/05 (G)	18.5	25	5	100		107	93	88	84	79	72	66	64	55	44	31
WC8BM-65/30/06 (G)	22	30	6	100		130	114	108	103	96	88	81	79	65	52	40

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PERFORMANCE CHART

200mm BOREWELL SUBMERSIBLE PUMPSETS - BHIMA Series

2990 RPM, At Rated Voltage – **Three Phase** 415 Volts, 50hz, A.C. Supply. Maximum Outer Diameter : **192 mm**

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	20	30	40	50	60	75	80	90	100	110	120
						0	5.56	8.34	11.12	13.9	16.68	20.83	22.22	25	27.77	30.55	33.33
WC8BM-75/25/03 (G)	18.5	25	3	100	Head in Metres	76			67	63	61	56	54	50	45	40	
WC8BM-75/25/04 (G)	18.5	25	4	100		87	83	82	77	74	69	63	60	54	47	38	28
WC8BM-75/30/04 (G)	22	30	4	100		90	87	84	82	78	73	67	64	59	51	43	33
WC8BM-75/35/05 (G)	26	35	5	100		112	107	105	102	98	92	84	81	75	66	55	43
WC8BM-75N/35/06 (G)	26	35	6	100		121	112	109	107	104	101	94	90	81	72	59	47
WC8BM-75N/40/07 (G)	30	40	7	100		142	132	128	123	119	115	107	102	92	80	67	52
WC8BM-75N/50/08 (G)	37	50	8	100		173	161	155	150	146	141	131	127	116	102	88	72
WC8BM-75N/60/10 (G)	45	60	10	100		217	201	194	187	182	175	163	158	143	128	110	91

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	20	40	60	70	80	85	88	92	100	110	120	136
						0	5.56	11.12	16.68	19.44	22.22	23.6	24.4	25.55	27.77	30.55	33.33	37.77
WC8BM-80/35/04 (G)	27	35	4	100	Head in Metres	92	86	82	76		67		65	62	57		41	24
WC8BM-95/30/03 (G)	22	30	3	100		77	75	72	67	65	62	61		58	54	49	42	21

PERFORMANCE CHART

200mm BOREWELL SUBMERSIBLE PUMPSETS - **BHIMA Series**

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



C.R.I. PUMPS

Pumping trust. Worldwide.

-
- 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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