



## High Head Submersible Pump

### Features

#### Pump

- Higher head per stage resulting in achieving same head with less no of stages
- Stainless Steel pump internals
- Better surface finish hence better efficiency and consistent performance.
- Lesser weight and lesser height resulting into ease in installation and transportation
- Better life in sandy water application
- Better life in acidic water
- Rust free water
- Aesthetically appealing
- Loading on pipes improves
- **CED coating cast iron components long life & rust free**

#### Motor

- Withstand wide voltage fluctuations from 200 volts to 440 volts with marginal variation in head and discharge
- Even at low voltage, pump delivers water
- For longer life Teflon Carbon Thrust bearing



### Material of Construction

- Impeller : Stainless Steel
- Diffuser : Stainless Steel
- Diffuser Casing : Stainless Steel
- Shaft : Stainless Steel
- NRV : CI
- Discharge outlet : CI
- Suction Housing : CI
- Bearing Sleeve : Hard Chrome Stainless Steel
- Bearing Bush : Rubber

### Use from (Higher Depth)

- Water supply for Industrial, Housing Complex, Hotels, Hospitals, Commercial Complex, Cinema Halls, Multiplex, Community Supplies, Building & Construction application
- Continuous water supply for farming application & irrigation projects
- Fire fighting application

### Range-

- Head : 1 - 447 metres
- Discharge : 740-30 LPM
- Motor Rating : 2.2 kW-15 kW (3.0 HP-20.0 HP)
- Borewell Size : 150 mm (6")
- Voltage Range : 200 V - 440 V

### STARTING METHOD / CABLE CONNECTION

150mm (6")	DOL Start / Single Cable	Star Delta Start / Double Cable
Standard Model	Upto 7.5 HP	10 HP & above

### Cable Selection Chart for 415 Volts, 50 Hz, 3 Phase Motors (Considering Ambient Temp. 50° & 3% Voltage Drop)

MOTOR RATING		FULL LOAD CURRENT (AMPS)	CABLE SIZE					
kW	HP		LENGTH OF CABLE IN METRES					
2.2	3.0	6.3	1.5	2.5	4.0	6.0	10.0	16.0
3.0	4.0	7.9	87	145	230	-	-	-
3.7	5.0	9.3	69	115	185	-	-	-
4.5	6.0	11.8	63	100	160	238	-	-
5.5	7.5	14.5	47	78	125	185	300	-
7.5	10.0	18.0	41	68	107	158	262	-
9.3	12.5	22.5	-	51	80	120	200	297
11.0	15.0	26.0	-	-	65	97	160	253
13.0	17.5	32.5	-	-	56	84	137	216
15.0	20.0	36.5	-	-	-	-	110	175
			-	-	-	-	98	155

## Approximate Performance

### 50HH Series

PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE										
	kW	HP		30	50	75	80	90	95	105	120	125	130	135
<b>TOTAL HEAD IN METRES</b>														
50HH306	2.2	3.0	6.3	89	85	79	76	68	58	51	38	30	27	11
50HH408	3.0	4.0	7.9	118	113	105	101	90	77	68	50	40	36	14
50HH510	3.7	5.0	9.3	148	141	131	126	113	96	85	63	50	45	18
50HH612	4.5	6.0	11.8	177	163	157	151	135	116	102	75	60	57	21
50HH815	5.5	7.5	14.5	222	212	197	189	169	145	127	94	75	67	27
50HH1020	7.5	10.0	18.0	296	283	263	253	226	193	170	126	100	90	36
50HH1325	9.3	12.5	22.5	370	354	329	316	283	241	212	158	125	112	45
50HH1530	11.0	15.0	26.0	444	425	395	379	340	289	254	190	150	134	54

### 60HH Series

PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE									
	kW	HP		60	80	100	140	160	180	200	220	240	260
<b>TOTAL HEAD IN METRES</b>													
60HH304	2.2	3.0	6.3	61.6	58.4	55.2	49.6	44	37.6	29.6	24	16	5.6
60HH305	2.2	3.0	6.3	77	73	69	62	55	47	37	30	20	7
60HH407	3.0	4.0	7.9	106	102	96	94	77	66	52	42	28	9
60HH508	3.7	5.0	9.3	122	117	111	107	88	76	60	48	32	10
60HH609	4.5	6.0	11.8	137.3	131.6	124.9	120.4	99	85.5	67.5	54	36	11.3
60HH610	4.5	6.0	11.8	154	147	139	134	110	95	75	60	40	12
60HH811	5.5	7.5	14.5	169.4	161.7	152.9	147.4	121	104.5	82.5	66	44	13.2
60HH812	5.5	7.5	14.5	185	176	166	160	132	123	89	72	48	15
60HH1013	7.5	10.0	18.0	200.4	190.7	179.8	173.3	143	133	96.4	78	52	16.3
60HH1016	7.5	10.0	18.0	247	235	221	214	176	152	119	96	64	19
60HH1319	9.3	12.5	22.5	290	277	262	254	209	178	140	114	76	25
60HH1524	11.0	15.0	26.0	370	352	333	320	264	226	179	144	96	30
60HH1829	13.0	17.5	32.5	447	425	402	387	319	273	216	174	116	36

### 80HH Series

PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE										
	kW	HP		90	105	125	145	165	185	205	225	245	265	285
<b>TOTAL HEAD IN METRES</b>														
80HH304	2.2	3.0	6.3	62	59	56	52	49	45	39	33	25	18	7
80HH405	3.0	4.0	7.9	78	74	70	65	61	56	49	41	31	23	9
80HH506	3.7	5.0	9.3	93	89	84	78	74	68	59	50	38	27	11
80HH607	4.5	6.0	11.8	109	103	98	91	86	79	68	58	44	32	12
80HH810	5.5	7.5	14.5	155	148	140	130	123	113	98	83	63	45	18
80HH1012	7.5	10.0	18.0	186	177	168	156	147	135	117	99	75	54	21
80HH1315	9.3	12.5	22.5	233	221	210	195	184	169	146	124	94	68	26
80HH1518	11.0	15.0	26.0	279	266	252	234	221	203	176	149	113	81	32
80HH1821	13.0	17.5	32.5	326	310	294	273	257	236	205	173	131	95	37
80HH2024	15.0	20.0	36.5	372	354	336	312	294	270	234	198	150	108	42

## 100HH Series

PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE									
	kW	HP		100	125	155	180	205	230	255	280	305	330
<b>TOTAL HEAD IN METRES</b>													
100HH303	2.2	3.0	6.3	45	42	40	38	33	30	22	17	7	3
100HH404	3.0	4.0	7.9	60	56	53	51	44	40	29	23	9	4
100HH505	3.7	5.0	9.3	75	70	67	63	55	50	37	28	12	5
100HH606	4.5	6.0	11.8	90	84	80	76	66	60	44	34	14	6
100HH808	5.5	7.5	14.5	120	112	107	101	88	80	59	45	19	8
100HH1010	7.5	10.0	18.0	150	140	133	127	110	100	73	57	23	10
100HH1312	9.3	12.5	22.5	180	168	160	152	132	120	88	68	28	12
100HH1515	11.0	15.0	26.0	225	210	200	190	165	150	110	85	35	15
100HH1818	13.0	17.5	32.5	270	252	240	228	198	180	132	102	42	18
100HH2020	15.0	20.0	36.5	300	280	267	253	220	200	147	113	47	20

## 125HH Series

PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE										
	kW	HP		150	180	210	240	270	300	330	360	390	420	450
<b>TOTAL HEAD IN METRES</b>														
125HH403	3.0	4.0	7.9	48	45	44	42	42	39	36	34	28	24	18
125HH504	3.7	5.0	9.3	64	60	59	56	56	52	48	45	37	32	24
125HH605	4.5	6.0	11.8	80	75	73	70	70	65	60	57	47	40	30
125HH806	5.5	7.5	14.5	96	90	88	84	84	78	72	6	56	48	36
125HH1008	7.5	10.0	18.0	128	120	117	112	112	104	96	91	75	64	48
125HH1310	9.3	12.5	22.5	160	150	147	140	140	130	120	113	93	80	60
125HH1512	11.0	15.0	26.0	192	180	176	168	168	156	144	136	112	96	72
125HH1814	13.0	17.5	32.5	224	210	205	196	196	182	168	159	131	112	84
125HH2016	15.0	20.0	36.5	256	240	235	224	224	208	192	181	149	128	96

## 150HH Series

PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE									
	kW	HP		190	230	270	310	350	390	430	470	510	550
<b>TOTAL HEAD IN METRES</b>													
150HH302	2.2	3.0	6.3	30	29	26	25	23	20	17	13	10	1
150HH503	3.7	5.0	9.3	45	44	39	38	35	30	26	20	15	2
150HH604	4.5	6.0	11.8	60	58	52	50	46	40	34	26	20	2
150HH805	5.5	7.5	14.5	75	73	65	63	58	50	43	33	25	3
150HH1006	7.5	10.0	18.0	90	87	78	75	69	60	51	39	30	3
150HH1007	7.5	10.0	18.0	105	102	91	88	81	70	60	46	35	4
150HH1308	9.3	12.5	22.5	120	116	104	100	92	80	68	52	40	4
150HH1510	11.0	15.0	26.0	150	145	130	125	115	100	85	65	50	5
150HH1812	13.0	17.5	32.5	180	174	156	150	138	120	102	78	60	6
150HH2013	15.0	20.0	36.5	196	189	171	165	143	130	110	78	58	26

## 200HH Series

PIPE SIZE: 65mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE									
	kW	HP		265	320	375	450	470	520	600	660	700	740
<b>TOTAL HEAD IN METRES</b>													
200HH402	3.0	4.0	7.9	31	29	27	24	21	19	14	10	5	2
200HH603	4.5	6.0	11.8	47	44	41	36	32	29	21	15	8	3
200HH804	5.5	7.5	14.5	62	58	54	48	42	38	28	20	10	4
200HH1005	7.5	10.0	18.0	78	73	68	60	53	48	35	25	13	5
200HH1306	9.3	12.5	22.5	93	87	81	72	63	57	42	30	15	6
200HH1508	11.0	15.0	26.0	124	116	108	96	84	76	56	40	20	8
200HH1809	13.0	17.5	32.5	140	131	122	108	95	86	63	45	23	9
200HH2010	15.0	20.0	36.5	155	145	135	120	105	95	70	50	25	10

**Note:** Performance applicable to liquid of specific gravity 1 and viscosity as of water.  
Pumps can be supplied on demand in 65mm dia also in 100HH, 125HH & 150 HH series.