6HR Microcast stainless steel 6" submersible pumps



Clean water

Agricultural use

Civil use

Industrial use

※ Distinguished by their exceptional mechanical resilience, our pumps excel in combating both sand wear and corrosion, making them perfect for coastal installations and brackish water environments. They are the optimal choice when seeking a high-quality product that ensures long-term operation.

PERFORMANCE RANGE

- Flow rate up to **1500 l/min** (90 m³/h)
- Head up to **375 m**

INSTALLATION AND USE

Submersible pump designed for 6" wells, constructed with durable micro-cast stainless steel.

Designed to transfer clean or brackish water with sand content up to **100 g/m³**. Highly efficient and reliable, they are suitable for industrial, civil, and agricultural applications, such as water distribution coupled with pressure tanks, irrigation, pressure boosting, fire-fighting systems, and more.

INCLUDES

※ Three-phase electric motor 400 V - 50 Hz The pump can be supplied with motor:
  – 6PD rewindable and oil filled
  – 6PSR rewindable and water filled

※ Power cord:
  – for **6PD** from **3 m** (up to 15 kW) and **4 m** (from 18.5 to 37 kW)
  – for **6PSR** from **3 m** (from 5.5 a 18.5 kW) and **5 m** (from 22 to 37 kW)

APPLICATION LIMITS

- Liquid temperature up to **+40 °C**
- Sand content max. **100 g/m³**
- Maximum operating depth below water level:
  – **200 m** with 6PD motors
  – **150 m** with 6PSR motors
- Operation:
  – in vertical position
  – horizontally with the following limits:
    6HR34 up to **11 stages** / 6HR44 up to **10 stages**
    6HR54 up to **9 stages** / 6HR64 up to **7 stages**
- Starts per hour: **20** at regular intervals
- Minimum cooling flow **8 cm/s**
- Continuous running duty **S1**

AVAILABLE UPON REQUEST

※ Different voltage requirements 60 Hz frequency
※ Counterflange kit
※ 6HR-HYD pumps with double cable cover for coupling with 400/690 V dual voltage motors ⅄/▲ (star/delta)

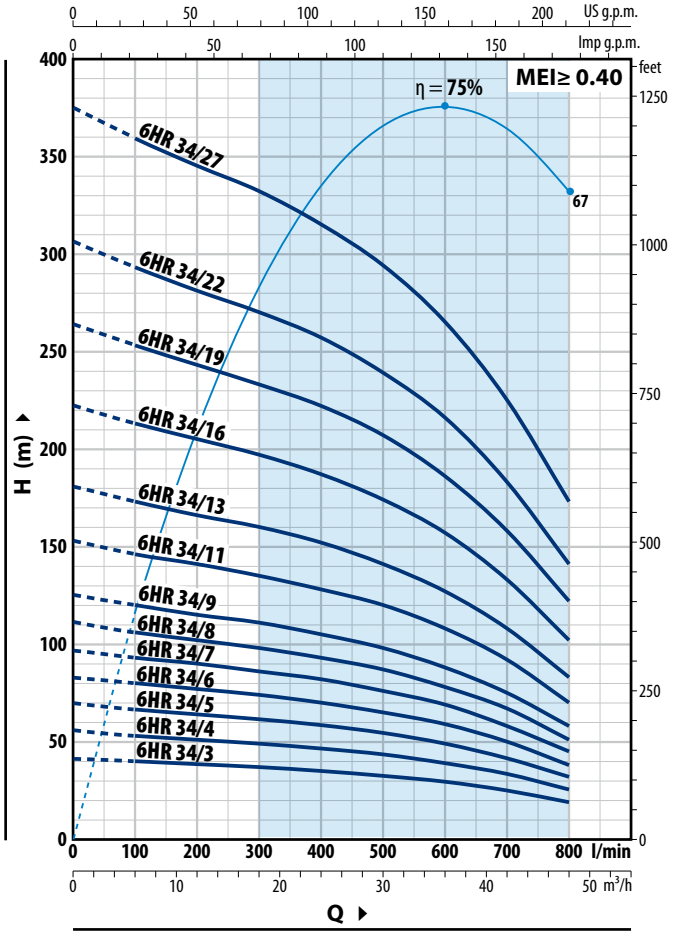
PATENTS - TRADE MARKS - MODELS

- Registered Community Model No. 004675106-0002

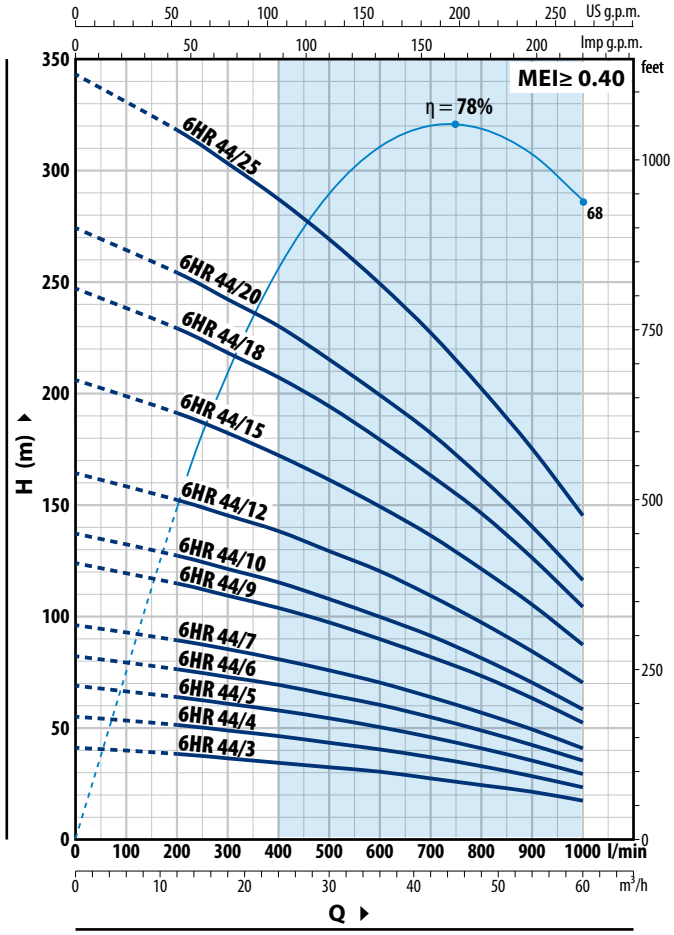
PERFORMANCE RANGE

50 Hz

6HR 34



6HR 44



6HR 34

TYPE	POWER (P2)		Q	m³/h	0	6	12	18	24	30	36	42	48
Three-phase	kW	HP		l/min	**0**	**100**	**200**	**300**	**400**	**500**	**600**	**700**	**800**
6HR 34/3	4	5.5			41.5	40	38.5	37	35	32.5	29.5	25	19
6HR 34/4	5.5	7.5			55.5	53	51	49	46.5	43.5	39	33.5	25.5
6HR 34/5	7.5	10			69.5	66.5	64	61.5	58.5	54.5	49	41.5	32
6HR 34/6	9.2	12.5			83	80	77	74	70	65	59	50	38
6HR 34/7	11	15			97	93	90	86	82	76	69	58	45
6HR 34/8	11	15			111	106	102	98	93	87	78	67	51
6HR 34/9	13	17.5	**H**	metres	125	120	115	111	105	98	88	75	58
6HR 34/11	15	20			153	146	141	135	128	120	108	92	70
6HR 34/13	18.5	25			181	173	166	160	152	141	127	108	83
6HR 34/16	22	30			222	213	205	197	187	174	157	133	102
6HR 34/19 (1)	26	35			264	253	243	233	222	207	186	158	122
6HR 34/22	30	40			306	293	281	270	257	239	216	183	141
6HR 34/27	37	50			375	359	345	332	315	294	265	225	173

6HR 44

TYPE	POWER (P2)		Q	m³/h	0	12	18	24	30	36	42	48	54	60
Three-phase	kW	HP		l/min	**0**	**200**	**300**	**400**	**500**	**600**	**700**	**800**	**900**	**1000**
6HR 44/3	5.5	7.5			41	38	36	34	32	30	27	24	21	17
6HR 44/4	7.5	10			55	51	48.5	46	43	40	36.5	32.5	28	23
6HR 44/5	7.5	10			68.5	63.5	60.5	57.5	54	50	45.5	40.5	35	29
6HR 44/6	9.2	12.5			82	76	72.5	69	64.5	60	54.5	48.5	42	35
6HR 44/7	11	15			96	89	85	80.5	75.5	70	63.5	56.5	49	40.5
6HR 44/9	13	17.5	**H**	metres	123.5	114.5	109	103.5	97	89.5	81.5	73	63	52
6HR 44/10	15	20			137	127	121	115	107.5	99.5	91	81	70	58
6HR 44/12	18.5	25			164	152	145	138	129	120	109	97	84	70
6HR 44/15	22	30			206	191	182	172	161	149	136	121	105	87
6HR 44/18 (1)	26	35			247	229	218	207	194	179	163	146	126	104
6HR 44/20	30	40			274	254	242	230	215	199	182	162	140	116
6HR 44/25	37	50			343	318	303	287	269	249	227	202	175	145

Q = Flow rate **H** = Total manometric head

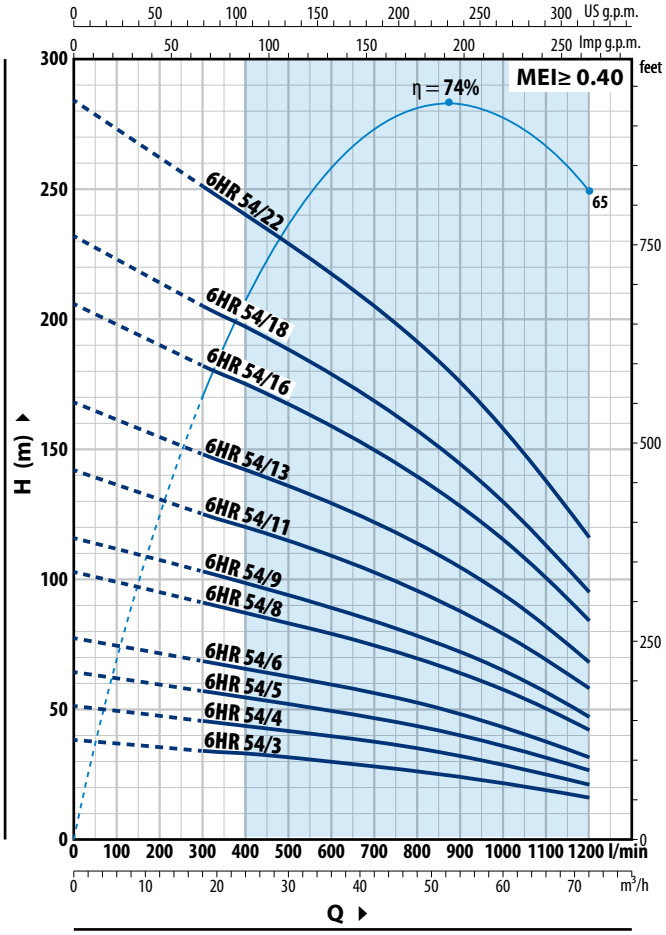
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

(1) For pumps equipped with 6PD motor: 40 HP motor

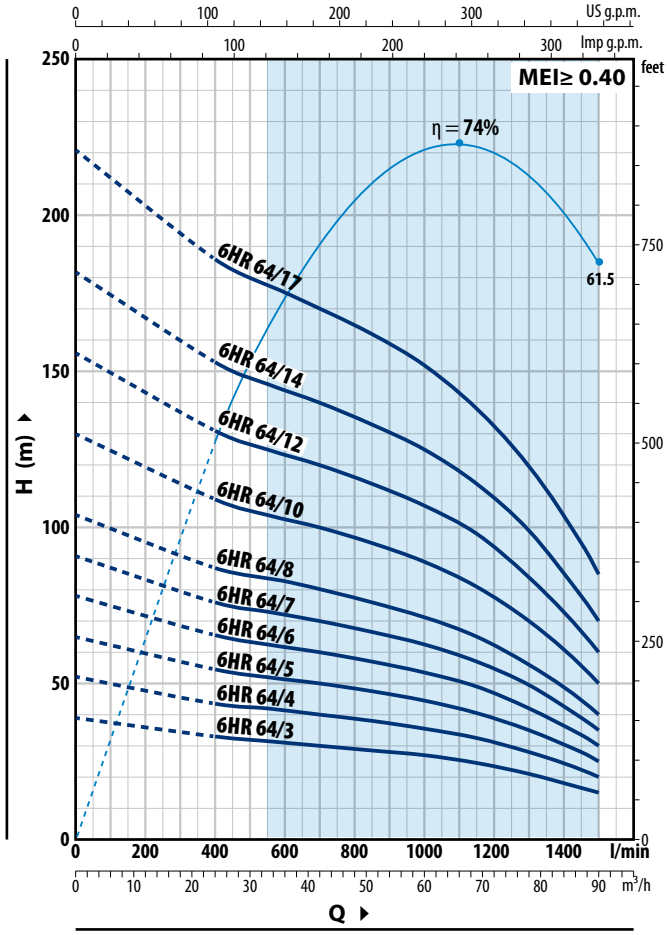
PERFORMANCE RANGE

50 Hz

6HR 54



6HR 64



6HR 54

TYPE	POWER(P2)		Q	m³/h	0	18	24	30	36	42	48	54	60	66	72
Three-phase	kW	HP		l/min	0	300	400	500	600	700	800	900	1000	1100	1200
6HR 54/3	5.5	7.5	H metres		38.5	34	33	31.5	29.5	28	26	24	21.5	19	16
6HR 54/4	7.5	10			51.5	45.5	43.5	41.5	39.5	37.5	35	32	29	25	21
6HR 54/5	9.2	12.5			64.5	57	54.5	52	49.5	46.5	43.5	40	36	31.5	26.5
6HR 54/6	11	15			77.5	68.5	65.5	62.5	59.5	56	52.5	48	43	37.5	31.5
6HR 54/8	13	17.5			103	91	87	83	79	74.5	69.5	64	57.5	50.5	42
6HR 54/9	15	20			116	103	98	94	89	84	78	72	65	57	47
6HR 54/11	18.5	25			142	125	120	115	109	103	96	88	79	69	58
6HR 54/13	22	30			168	148	142	136	129	121	113	104	94	82	68
6HR 54/16 (1)	26	35			206	182	175	167	159	149	139	128	115	101	84
6HR 54/18	30	40			232	205	197	188	178	168	157	144	130	113	95
6HR 54/22	37	50			284	251	240	229	218	205	192	176	158	138	116

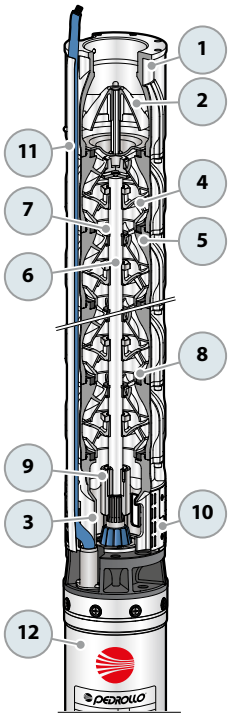
6HR 64

TYPE	POWER(P2)		Q	m³/h	0	24	33	42	51	60	69	78	87	90
Three-phase	kW	HP		l/min	0	400	550	700	850	1000	1150	1300	1450	1500
6HR 64/3	7.5	10	H metres		39	33	31.5	30	28.5	27	24.5	21	16.5	15
6HR 64/4	9.2	12.5			52	43.5	42	40	38	35.5	32.5	28	22.5	20
6HR 64/5	11	15			65	54.5	52	50	47.5	44.5	40.5	35	28	25
6HR 64/6	13	17.5			78	65.5	62.5	60	57	53.5	49	42	33.5	30
6HR 64/7	15	20			91	76	73	70	66.5	62.5	57	49.5	39	35
6HR 64/8	18.5	25			104	87	84	80	76	71	65	56	45	40
6HR 64/10	22	30			130	109	104	100	95	89	81	70	56	50
6HR 64/12 (1)	26	35			156	131	125	120	114	107	98	84	67	60
6HR 64/14	30	40			182	153	146	140	133	125	114	99	78	70
6HR 64/17	37	50			221	186	178	170	162	152	138	120	95	85

(1) For pumps equipped with 6PD motor: 40 HP motor

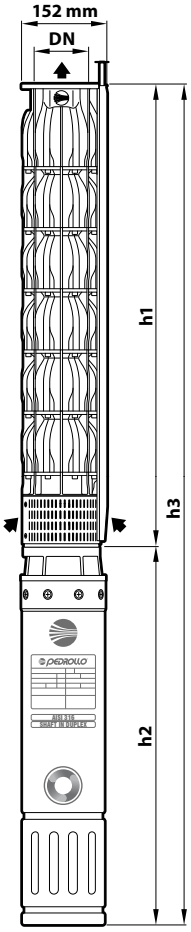
MATERIALS AND COMPONENTS

1	**Delivery port**	Micro-cast **AISI 304** stainless steel with thread according to ISO 228/1
2	**Check valve**	Stainless steel **AISI 304**
3	**Motor bracket**	**AISI 304** micro-cast stainless steel sized to NEMA standards
4	**Impellers**	**AISI 304** micro-cast stainless steel
5	**Diffusers**	**AISI 304** micro-cast stainless steel
6	**Pump shaft**	Stainless steel **AISI 304**
7	**Pump bearings**	Special elastomer
8	**Wear rings**	Special elastomer
9	**Tow coupling**	Stainless steel **AISI 304**
10	**Filter**	Stainless steel **AISI 304**
11	**Cable sheath**	Stainless steel **AISI 304**
12	**Motor 6"**	**※ 6PD = rewindable oil filled motor** **※ 6PSR = rewindable water filled motor**

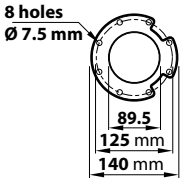


DIMENSIONS AND WEIGHT

TYPE Three-phase ※	DN	DIMENSIONS mm h1	h2	h3	kg	TYPE Three-phase ※	DN	DIMENSIONS mm h1	h2	h3	kg
6HR 34/3 - PD		581	595	1176	53.1	**6HR 34/3 - PSR**		581	620	1201	69.7
6HR 34/4 - PD		682	625	1307	58.4	**6HR 34/4 - PSR**		682	620	1302	74.0
6HR 34/5 - PD		783	660	1443	65.0	**6HR 34/5 - PSR**		783	670	1453	81.9
6HR 34/6 - PD		884	700	1584	72.4	**6HR 34/6 - PSR**		884	700	1584	88.8
6HR 34/7 - PD		985	765	1750	83.0	**6HR 34/7 - PSR**		985	750	1735	99.7
6HR 34/8 - PD		1086	765	1851	85.8	**6HR 34/8 - PSR**		1086	750	1836	102.5
6HR 34/9 - PD		1187	820	2007	94.4	**6HR 34/9 - PSR**		1187	780	1967	108.4
6HR 34/11 - PD		1389	820	2209	101.2	**6HR 34/11 - PSR**		1389	840	2229	121.6
6HR 34/13 - PD		1591	883	2474	115.8	**6HR 34/13 - PSR**		1591	890	2481	133.4
6HR 34/16 - PD		1894	953	2847	132.6	**6HR 34/16 - PSR**		1894	975	2869	153.0
6HR 34/19 - PD		2197	1098	3295	158.1	**6HR 34/19 - PSR**		2197	1075	3272	176.1
6HR 34/22 - PD		2500	1098	3598	166.8	**6HR 34/22 - PSR**		2500	1215	3715	202.8
6HR 34/27 - PD		3005	1233	4238	190.2	**6HR 34/27 - PSR**		3005	1295	4300	228.2
6HR 44/3 - PD		581	625	1206	54.1	**6HR 44/3 - PSR**		581	620	1201	69.68
6HR 44/4 - PD		682	660	1342	62.1	**6HR 44/4 - PSR**		682	670	1352	78.96
6HR 44/5 - PD		783	660	1443	64.9	**6HR 44/5 - PSR**		783	670	1453	81.8
6HR 44/6 - PD		884	700	1584	72.3	**6HR 44/6 - PSR**		884	700	1584	88.7
6HR 44/7 - PD		985	765	1750	82.9	**6HR 44/7 - PSR**		985	750	1735	99.62
6HR 44/9 - PD		1187	820	2007	94.4	**6HR 44/9 - PSR**		1187	780	1967	108.4
6HR 44/10 - PD		1288	820	2108	98.3	**6HR 44/10 - PSR**		1288	840	2128	118.7
6HR 44/12 - PD		1490	883	2373	112.9	**6HR 44/12 - PSR**		1490	890	2380	130.5
6HR 44/15 - PD		1793	953	2746	129.7	**6HR 44/15 - PSR**		1793	975	2768	150.1
6HR 44/18 - PD	**3"**	2096	1098	3194	155.2	**6HR 44/18 - PSR**	**3"**	2096	1075	3171	173.2
6HR 44/20 - PD		2298	1098	3396	160.9	**6HR 44/20 - PSR**		2298	1215	3513	196.9
6HR 44/25 - PD		2803	1233	4036	184.4	**6HR 44/25 - PSR**		2803	1295	4098	222.4
6HR 54/3 - PD		599	625	1224	54.3	**6HR 54/3 - PSR**		599	620	1219	69.9
6HR 54/4 - PD		706	660	1366	62.4	**6HR 54/4 - PSR**		706	670	1376	79.3
6HR 54/5 - PD		813	700	1513	69.8	**6HR 54/5 - PSR**		813	700	1513	86.2
6HR 54/6 - PD		920	765	1685	80.5	**6HR 54/6 - PSR**		920	750	1670	97.2
6HR 54/8 - PD		1134	820	1954	92.1	**6HR 54/8 - PSR**		1134	780	1914	106.1
6HR 54/9 - PD		1241	820	2061	96.1	**6HR 54/9 - PSR**		1241	840	2081	116.5
6HR 54/11 - PD		1455	883	2338	110.8	**6HR 54/11 - PSR**		1455	890	2345	128.4
6HR 54/13 - PD		1669	953	2622	124.9	**6HR 54/13 - PSR**		1669	975	2644	145.3
6HR 54/16 - PD		1990	1098	3088	149.6	**6HR 54/16 - PSR**		1990	1075	3065	167.6
6HR 54/18 - PD		2204	1098	3302	156.5	**6HR 54/18 - PSR**		2204	1215	3419	192.5
6HR 54/22 - PD		2632	1233	3865	177.4	**6HR 54/22 - PSR**		2632	1295	3927	215.4
6HR 64/3 - PD		599	660	1259	58.0	**6HR 64/3 - PSR**		599	670	1269	76.3
6HR 64/4 - PD		706	700	1406	66.9	**6HR 64/4 - PSR**		706	700	1406	83.3
6HR 64/5 - PD		813	765	1578	75.6	**6HR 64/5 - PSR**		813	750	1563	92.3
6HR 64/6 - PD		920	820	1740	86.2	**6HR 64/6 - PSR**		920	780	1700	100.2
6HR 64/7 - PD		1027	820	1847	89.2	**6HR 64/7 - PSR**		1027	840	1867	109.6
6HR 64/8 - PD		1134	883	2017	100.9	**6HR 64/8 - PSR**		1134	890	2024	118.5
6HR 64/10 - PD		1348	953	2301	115.1	**6HR 64/10 - PSR**		1348	975	2323	135.5
6HR 64/12 - PD		1562	1098	2660	138.0	**6HR 64/12 - PSR**		1562	1075	2637	152.4
6HR 64/14 - PD		1776	1098	2874	143.9	**6HR 64/14 - PSR**		1776	1215	2991	174.9
6HR 64/17 - PD		2097	1233	3330	161.6	**6HR 64/17 - PSR**		2097	1295	3392	199.6



COUNTERFLANGE



※ 6PD = rewindable oil filled motor

※ 6PSR = rewindable water filled motor