



Clean water



Agricultural use



Civil use



Industrial use



✂ **Featuring high mechanical resistance against both sand abrasion and corrosion, even in marine environments or brackish water installations, the 4HR pump is the ideal choice when durability and quality are paramount.**

PERFORMANCE RANGE

- Flow rate up to **500 l/min** (30 m³/h)
- Head up to **172 m**

INSTALLATION AND USE

Submersible pump designed for 4" 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

- ✂ Electric motor
 - Single-phase 380 V - 60 Hz
 - Three-phase 220 V - 60 Hz

The pump is supplied with a motor **4PD** rewindable and oil filled

- ✂ Power cable from:
 - **2 m** for power ratings from 0.37 to 2.2 kW
 - **3.6 m** for power ratings from 3 to 7.5 kW.

APPLICATION LIMITS

- Liquid temperature up to **+40 °C**
- Sand content max. **100 g/m³**
- Maximum operating depth below water level:
 - **200 m** with 4PD motors
 - **300 m** with 4PS motors
- Operation:
 - in vertical position
 - horizontally up to **10 stages**
- Starts per hour: **20** at regular intervals
- Minimum motor cooling flow **8 cm/s**
- Continuous running duty **S1**

AVAILABLE UPON REQUEST

- ✂ Different voltage or frequency

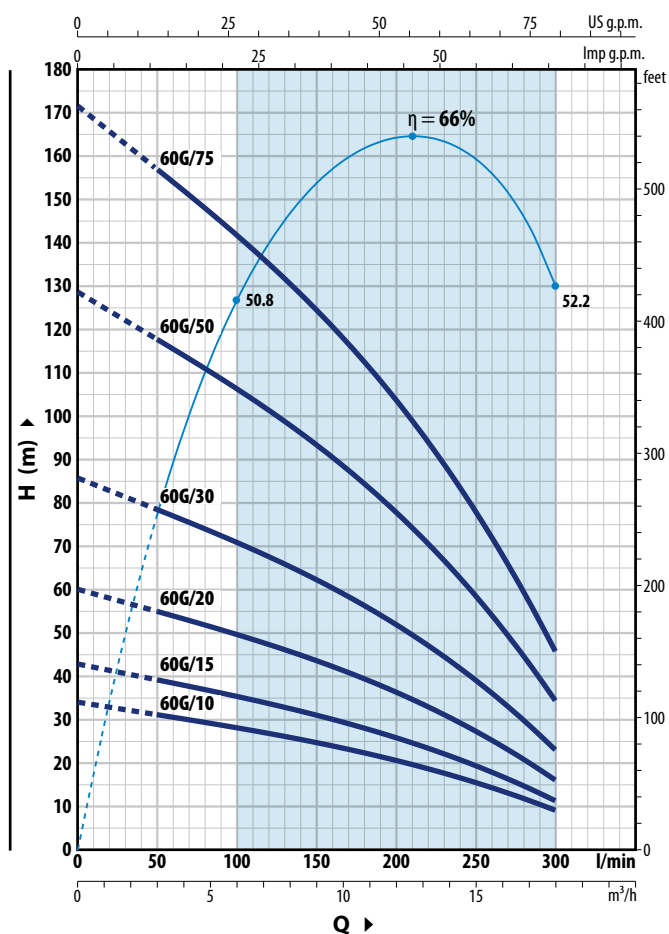
PATENTS - TRADE MARKS - MODELS

- Registered Community Model No. 004128619-0001

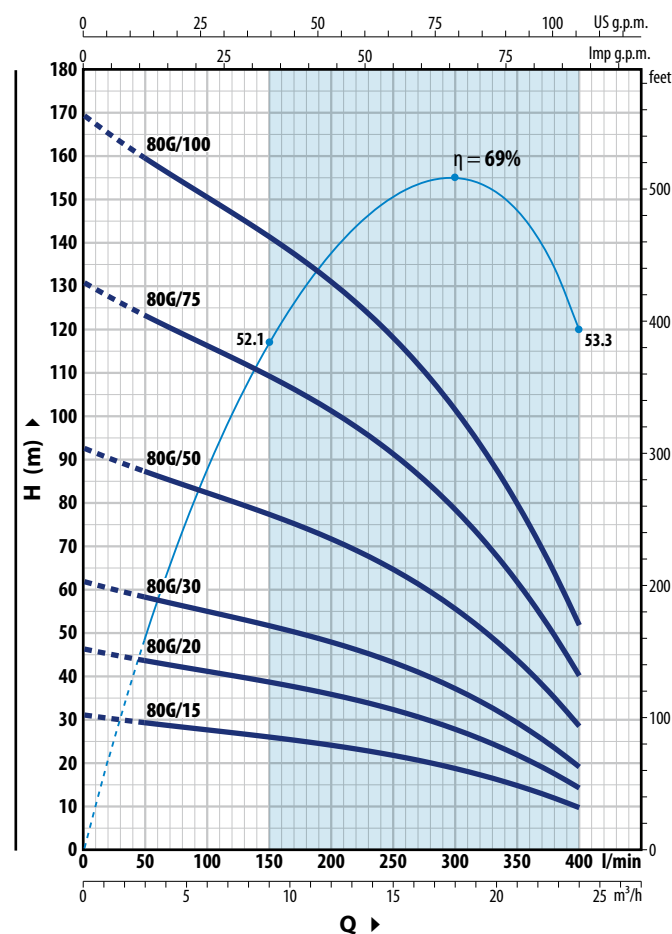
PERFORMANCE RANGE

60 Hz

4HR60G



4HR80G



4HR60G

MODEL		N. STAGES	POWER (P ₂)		Q										
Single-phase	Three-phase		kW	HP		m³/h	0	3	6	7.5	9	10.5	12	15	18
4HRm 60G/10	4HR 60G/10	4	0.75	1	H m	l/min	0	50	100	125	150	175	200	250	300
4HRm 60G/15	4HR 60G/15	5	1.1	1.5			34.5	31.5	28.5	26.7	25	23	20.8	15.7	9
4HRm 60G/20	4HR 60G/20	7	1.5	2			43	39.5	35.5	33.5	31	28.5	26	19.6	11.5
4HRm 60G/30	4HR 60G/30	10	2.2	3			60	55	49.5	47	43.5	40	36.5	27.5	16
–	4HR 60G/50	15	3.7	5			86	79	71	67	62.5	57.5	52	39	23
–	4HR 60G/75	20	5.5	7.5			129	118	107	100	94	86	78	58.5	34.5
							172	157	142	134	125	115	104	78	46

4HR80G

MODEL		N. STAGES	POWER (P ₂)		Q										
Single-phase	Three-phase		kW	HP		m³/h	0	3	6	9	12	15	18	21	24
4HRm 80G/15	4HR 80G/15	4	1.1	1.5	H m	l/min	0	50	100	150	200	250	300	350	400
4HRm 80G/20	4HR 80G/20	6	1.5	2			31	29	27.5	25.7	23.8	21.5	18.4	14.5	9.5
4HRm 80G/30	4HR 80G/30	8	2.2	3			46	43.5	41	38.5	35.5	32	27.5	21.7	14
–	4HR 80G/50	12	3.7	5			61.5	58	55	51.5	47.5	43	37	29	19
–	4HR 80G/75	17	5.5	7.5			92	87	82	77	71	64.5	55.5	43.5	28
–	4HR 80G/100	22	7.5	10			131	123	116	109	101	91	78	61.5	40
							170	160	151	141	131	118	101	80	51.5

Q = Flow rate H = Total manometric head

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

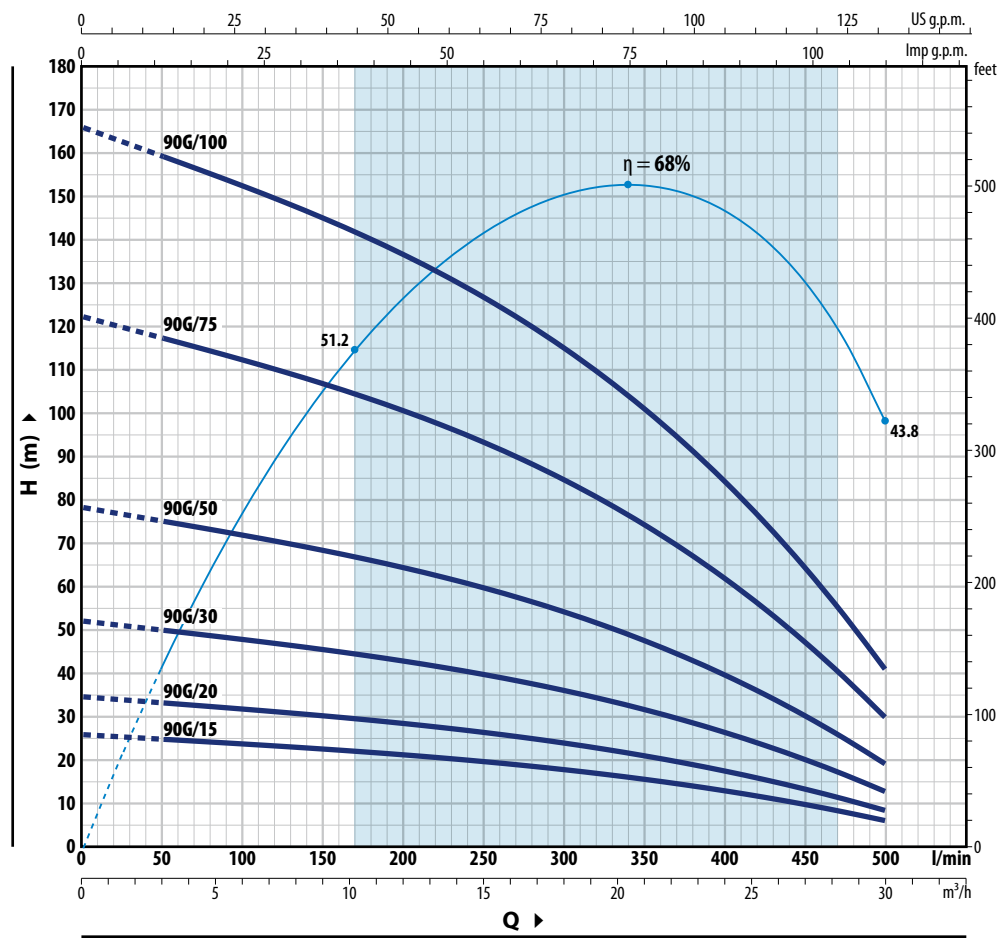
4HR

Micro-cast stainless steel 4" submersible pumps

PERFORMANCE RANGE

60 Hz

4HR90G



4HR90G

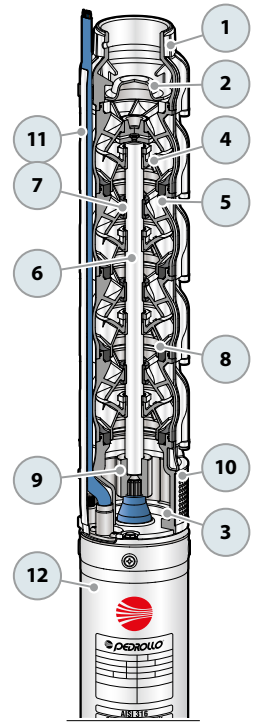
MODEL		N.	POWER (P ₂)		Q	m³/h	0	3	6	9	12	15	18	21	24	30
Single-phase	Three-phase	STAGES	kW	HP		l/min	0	50	100	150	200	250	300	350	400	500
4HRm 90G/15	4HR 90G/15	3	1.1	1.5	H m	26.5	25	24.1	23	21.6	20.1	18.2	16	13.4	6.5	
4HRm 90G/20	4HR 90G/20	4	1.5	2		35	33.5	32	30.5	29	26.8	24.3	21.3	17.8	8.5	
4HRm 90G/30	4HR 90G/30	6	2.2	3		52.5	50.5	48.5	46	43.5	40	36.5	32	26.7	13	
–	4HR 90G/50	9	3.7	5		79	76	72	69	65	60	54.5	48	40	19.5	
–	4HR 90G/75	14	5.5	7.5		123	118	113	107	101	94	85	75	62.5	30.5	
–	4HR 90G/100	19	7.5	10		166	160	153	145	137	127	115	101	85	41.5	

Q = Flow rate H = Total manometric head

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

MATERIALS AND COMPONENTS

1 Delivery port	Micro-cast AISI 304 stainless steel with thread according to ANSI/ASME B1.20.1
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 4"	4PD = rewindable oil filled motor



DIMENSIONS AND WEIGHT

MODEL	DN	N.	DIMENSIONS mm				kg
Single-phase		STAGES	Ø	h1	h2	h3	1~
4HRm 60G/10 - PD	2" NPT	4	100	438	356	794	16.9
4HRm 60G/15 - PD		5		511	396	907	20.1
4HRm 60G/20 - PD		7		657	437	1094	24.4
4HRm 60G/30 - PD		10		876	492	1368	31.9
4HRm 80G/15 - PD		4		438	396	834	18.4
4HRm 80G/20 - PD		6		584	437	1021	22.7
4HRm 80G/30 - PD		8		730	492	1222	28.7
4HRm 90G/15 - PD		3		365	396	761	17.1
4HRm 90G/20 - PD		4		438	437	875	20.0
4HRm 90G/30 - PD		6		584	492	1076	26.0

MODEL	DN	N.	DIMENSIONS mm				kg
Three-phase		STAGES	Ø	h1	h2	h3	3~
4HR 60G/10 - PD	2" NPT	4	100	438	356	794	16.9
4HR 60G/15 - PD		5		511	371	882	19.2
4HR 60G/20 - PD		7		657	396	1053	22.9
4HR 60G/30 - PD		10		876	437	1313	28.7
4HR 60G/50 - PD		15		1241	505	1746	40.2
4HR 60G/75 - PD		20		1606	589	2195	51.6
4HR 80G/15 - PD		4		438	371	809	17.6
4HR 80G/20 - PD		6		584	396	980	21.1
4HR 80G/30 - PD		8		730	437	1167	25.4
4HR 80G/50 - PD		12		1022	505	1527	35.3
4HR 80G/75 - PD		17		1387	589	1976	46.1
4HR 80G/100 - PD		22		1752	800	2552	62.3
4HR 90G/15 - PD		3		365	371	736	16.3
4HR 90G/20 - PD		4		438	396	834	18.5
4HR 90G/30 - PD		6		584	437	1021	22.7
4HR 90G/50 - PD		9		803	505	1308	31.3
4HR 90G/75 - PD		14		1168	589	1757	42.1
4HR 90G/100 - PD		19		1533	800	2333	58.3

