SUBMERSIBLE SEWAGE PUMPS “WQ”



TECHNICAL FEATURES

- Suitable for dirty water that is not chemically aggressive to the pump materials.
- Reliable and easy to use: suitable for clearing dirty water, discharging domestic waste water and emptying collection traps containing suspended solids up to Ø 35 mm (WQ 0.75–7.5 kW) or up to Ø 100 mm (WQ 11–550 kW).



WQ3.0-7.5



WQ0.75-2.2



WQ

MOTOR

- Two-pole induction motor (n = 2850 rpm)
- Insulation class B; protection IP68
- Continuous service S1
- WQ 0.75–7.5 kW: thermal protector on single-phase versions; single-phase 220 V / 50 Hz or three-phase 380 V / 50 Hz (60 Hz on request)
- WQ 11–550 kW: thermal protector; three-phase 380 V / 50 Hz (60 Hz on request)

WORKING CONDITION

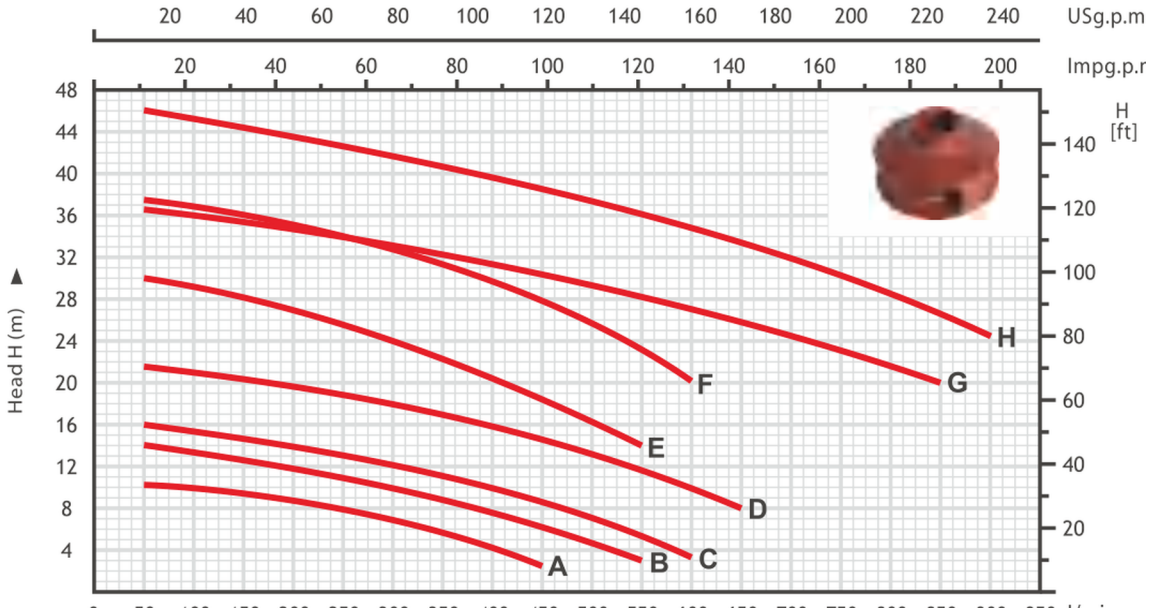
- Maximum immersion depth 5 m (WQ 0.75–7.5 kW) or 8 m (WQ 11–550 kW)
- Liquid temperature up to 35 °C
- Ambient temperature up to 40 °C

MATERIALS

COMPONENT	WQ 0.75–7.5 kW	WQ 11–550 kW
Pump body	Cast iron	Cast iron
Motor housing	Cast iron	Cast iron
Impeller	Cast iron	Cast iron
Motor shaft	AISI 304 SS	AISI 304 SS
Mechanical seal	SiC-SiC / Ceramic-Graphite (0.75~2.2 kW); Alloy / Ceramic-Graphite (3~7.5 kW)	Alloy / Ceramic-Graphite
Cable	8 m power cable	8 m power cable

SUBMERSIBLE SEWAGE PUMPS “WQ”

PERFORMANCE CHART AT n = 2850 RPM

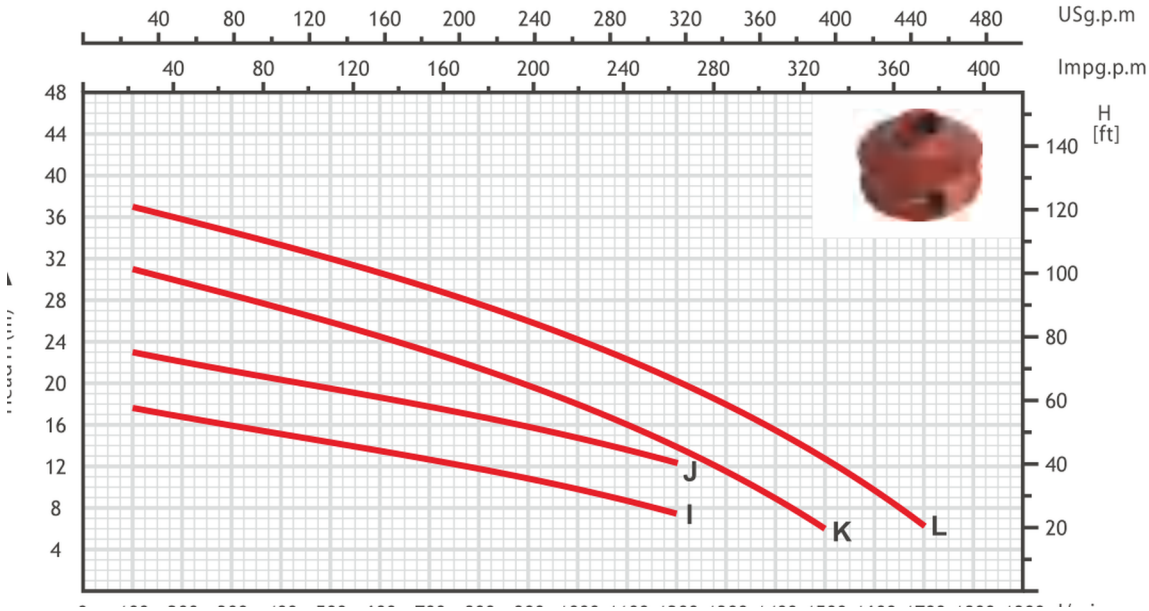


NO.	MODEL	POWER kW	POWER HP	Q (m³/h)	0	3	6	9	12	15	18	21	24	27
				Q (l/min)	0	50	100	150	200	250	300	350	400	450
A	50WQ0.75	0.75	1	H (m)	11	10.2	9.6	9	8.5	7.8	7	6	4.5	2.5
B	50WQ1.1	1.1	1.5	H (m)	15	14	13.25	12.44	11.85	11	10.3	9.3	8.2	6.7
C	50WQ1.5	1.5	2	H (m)	17	15.9	15.1	14.3	13.5	12.7	12	11	10	8.8
D	50WQ2.2	2.2	3	H (m)	22	21.5	20.8	20.1	19.4	18.6	17.9	17	16	14.9
E	50WQ3.0	3	4	H (m)	31	30.3	29.3	27.9	26.68	25.48	24	22.29	20.49	18.5
F	50WQ4.0	4	5.5	H (m)	38.5	37.6	36.7	35.7	34.7	33.5	32.36	31	29.8	28
G	50WQ5.5	5.5	7.5	H (m)	36.5	36.3	36	35.5	35	34	33	32	31.2	30.2
H	50WQ7.5	7.5	10	H (m)	47.5	46	45	44	43	42	41	40	39	38

NO.	MODEL	POWER kW	POWER HP	Q (m³/h)	30	33	36	39	42	45	48	51	54	57
				Q (l/min)	500	550	600	650	700	750	800	850	900	950
B	50WQ1.1	1.1	1.5	H (m)	5.1	2.8								
C	50WQ1.5	1.5	2	H (m)	7.2	5.4	3.3							
D	50WQ2.2	2.2	3	H (m)	13.5	11.9	10	8						

SUBMERSIBLE SEWAGE PUMPS “WQ”

NO.	MODEL	POWER kW	POWER HP	Q (m³/h)	30	33	36	39	42	45	48	51	54	57
				Q (l/min)	500	550	600	650	700	750	800	850	900	950
E	50WQ3.0	3	4	H (m)	16.2	14								
F	50WQ4.0	4	5.5	H (m)	25.8	23.5	20.19							
G	50WQ5.5	5.5	7.5	H (m)	29.25	28	26.5	25.2	23.8	22.5	21	19		
H	50WQ7.5	7.5	10	H (m)	37	35.5	34.2	33	32	30.3	28.5	26.5	24.5	21.5

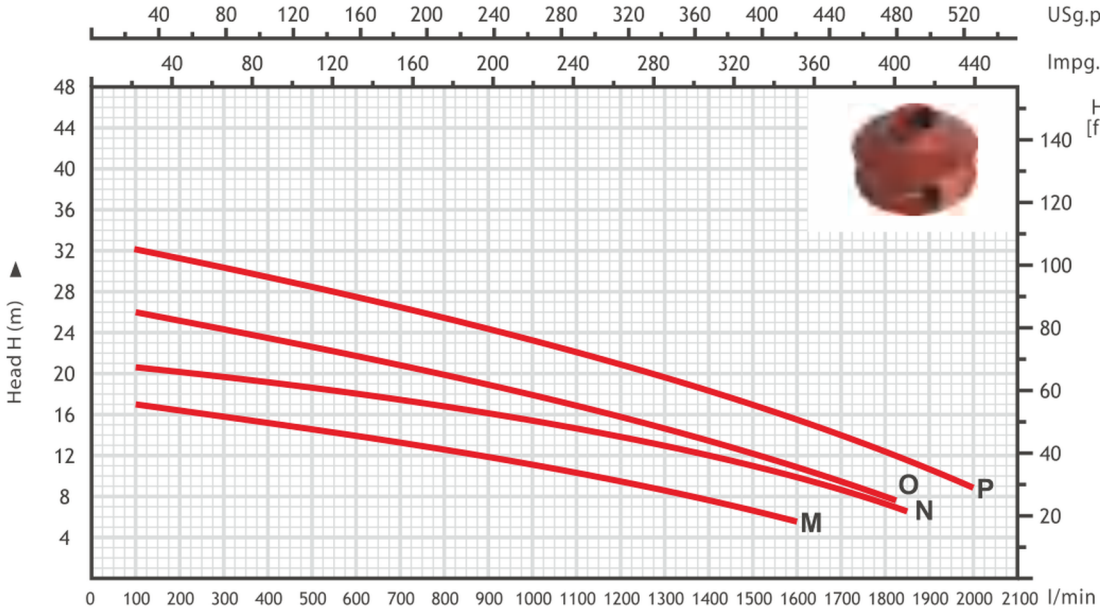


NO.	MODEL	POWER kW	POWER HP	Q (m³/h)	0	6	12	18	24	30	36	42	48
				Q (l/min)	0	100	200	300	400	500	600	700	800
I	80WQ3.0	3	4	H (m)	20	17.8	16.2	15.03	14.66	14.36	14.17	13.38	12.38
J	80WQ4.0	4	5.5	H (m)	24.5	23.1	21.36	19.91	19.04	18.4	18.02	17.51	16.66
K	80WQ5.5	5.5	7.5	H (m)	33	31	29	27	25	24	23	22	21.5
L	80WQ7.5	7.5	10	H (m)	39	37	35.5	34	32.5	31	29.5	28	27

NO.	MODEL	POWER kW	POWER HP	Q (m³/h)	54	60	66	72	78	84	90	96	102
				Q (l/min)	900	1000	1100	1200	1300	1400	1500	1600	1700
I	80WQ3.0	3	4	H (m)	11.54	10.13	9	7.5					
J	80WQ4.0	4	5.5	H (m)	15.73	14.59	13.74	12.3	11.1				
K	80WQ5.5	5.5	7.5	H (m)	20	18	16	14	12	9	6		

SUBMERSIBLE SEWAGE PUMPS “WQ”

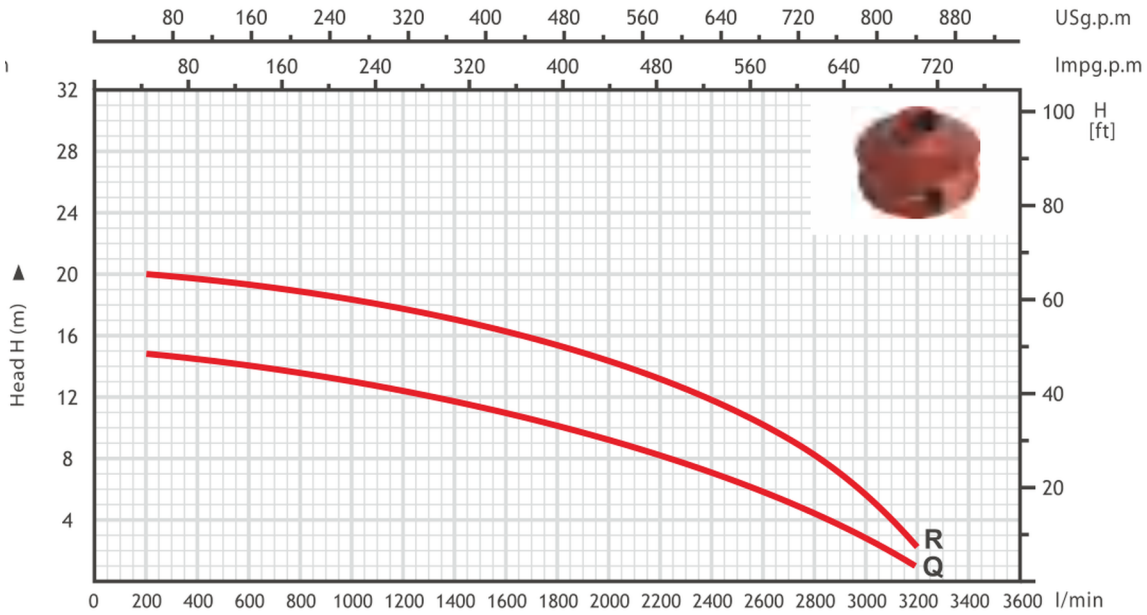
NO.	MODEL	POWER kW	POWER HP	Q (m³/h)	54	60	66	72	78	84	90	96	102
				Q (l/min)	900	1000	1100	1200	1300	1400	1500	1600	1700
L	80WQ7.5	7.5	10	H (m)	26	24.5	22.5	20.5	18.3	16	13	10	6.5



NO.	MODEL	POWER kW	POWER HP	Q (m³/h)	0	6	12	18	24	30	36	42	48
				Q (l/min)	0	100	200	300	400	500	600	700	800
M	100WQ3.0	3	4	H (m)	18.5	16.9	15.7	14.9	14.33	13.93	13.72	13.32	12.82
N	100WQ4.0	4	5.5	H (m)	22	20.5	19.3	18.34	17.4	17	16.83	16.48	16.25
O	100WQ5.5	5.5	7.5	H (m)	27.5	26	24.5	23.2	22.2	21.5	20.7	19.8	19.1
P	100WQ7.5	7.5	10	H (m)	33	32	30.8	29.5	28.5	27.5	26.5	25.5	24.5

NO.	MODEL	POWER kW	POWER HP	Q (m³/h)	54	60	66	72	78	84	90	96	112
				Q (l/min)	900	1000	1100	1200	1300	1400	1500	1600	1850
M	100WQ3.0	3	4	H (m)	12.16	11.36	10.51	9.63	8.73	7.84	6.8	5.46	
N	100WQ4.0	4	5.5	H (m)	15.65	14.94	14.19	13.29	12.56	11.72	11	10	6.5
O	100WQ5.5	5.5	7.5	H (m)	18.3	17.7	17	16.2	15.2	14	12.5	11.3	6.8
P	100WQ7.5	7.5	10	H (m)	23.7	22.9	22.1	21.1	20.1	19.1	17.7	15.9	9

SUBMERSIBLE SEWAGE PUMPS “WQ”



NO.	MODEL	POWER kW	POWER HP	Q (m^3/h)	0	24	48	60	72	84	96	108	120	132	144	156	168	180	192
				Q (l/min)	0	400	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200
Q	150WQ5.5	5.5	7.5	H (m)	15.5	14.3	12.9	12.2	11.4	10.9	10.2	9.5	8.8	8	7.3	6.6	5.8	3.6	0.8
R	150WQ7.5	7.5	10	H (m)	21	19.3	17.9	17.23	16.5	15.9	15.4	14.9	14.3	13.7	12.9	11.9	10.6	8.1	2

SUBMERSIBLE SEWAGE PUMPS “WQ”

TECHNICAL DATA

WQ 0.75–7.5 kW

NO.	MODEL	OUTLET (inch)	PARTICAL (Φ mm)	N.W. (kg)	L × W × H (mm)
A	50WQ0.75	2"	20	23	215 × 265 × 480
B	50WQ1.1	2"	20	24	215 × 265 × 480
C	50WQ1.5	2"	20	26	215 × 265 × 525
D	50WQ2.2	2"	20	27.5	215 × 265 × 525
E	50WQ3.0	2"	20	56	295 × 360 × 672
F	50WQ4.0	2"	20	61.8	275 × 325 × 675
G	50WQ5.5	2"	20	81	330 × 360 × 760
H	50WQ7.5	2"	20	88	338 × 360 × 780
I	80WQ3.0	3"	20	56.5	285 × 370 × 695
J	80WQ4.0	3"	20	62	285 × 360 × 712
K	80WQ5.5	3"	35	80	300 × 370 × 780
L	80WQ7.5	3"	35	86	300 × 370 × 790
M	100WQ3.0	4"	20	56	285 × 365 × 638
N	100WQ4.0	4"	20	60.5	290 × 370 × 710
O	100WQ5.5	4"	35	81	300 × 420 × 770
P	100WQ7.5	4"	35	87	300 × 420 × 790
Q	150WQ5.5	6"	35	88	345 × 405 × 1100
R	150WQ7.5	6"	35	94	345 × 405 × 1100

WQ 11–550 kW: rated data

NO.	PUMP MODEL	POWER (kW)	POWER (HP)	SPEED (r/min)	VOLTAGE (V)	FREQ. (Hz)	RATED FLOW (m^3/h)	RATED FLOW (l/min)	RATED HEAD (m)	OUTLET (inch)
1	100WQ100-25-11	11	15	1450	380	50	100	1666	25	4
2	150WQ180-11-11	11	15	1450	380	50	180	3000	11	6
3	200WQ300-7-11	11	15	1450	380	50	300	5000	7	8
4	250WQ400-5-11	11	15	1450	380	50	400	6666	5	10
5	100WQ100-30-15	15	20	1450	380	50	100	1666	30	4
6	150WQ200-15-15	15	20	1450	380	50	200	3333	15	6
7	200WQ250-11-15	15	20	1450	380	50	250	4166	11	8

SUBMERSIBLE SEWAGE PUMPS “WQ”

NO.	PUMP MODEL	POWER (kW)	POWER (HP)	SPEED (r/min)	VOLTAGE (V)	FREQ. (Hz)	RATED FLOW (m^3/h)	RATED FLOW (l/min)	RATED HEAD (m)	OUTLET (inch)
8	250WQ500-5-15	15	20	1450	380	50	500	8333	5	10
9	100WQ100-35-18.5	18.5	25	1450	380	50	100	1666	35	4
10	150WQ180-20-18.5	18.5	25	1450	380	50	180	3000	20	6
11	200WQ250-15-18.5	18.5	25	1450	380	50	250	4166	15	8
12	200WQ350-10-18.5	18.5	25	1450	380	50	350	5833	10	8
13	250WQ500-7-18.5	18.5	25	1450	380	50	500	8333	7	10
14	300WQ650-5-18.5	18.5	25	1450	380	50	650	10833	5	12
15	100WQ100-40-22	22	29	1450	380	50	100	1666	40	4
16	150WQ200-22-22	22	29	1450	380	50	200	3333	22	6
17	200WQ300-16-22	22	29	1450	380	50	300	5000	16	8
18	200WQ400-10-22	22	29	1450	380	50	400	6666	10	8
19	250WQ500-9-22	22	29	1450	380	50	500	8333	9	10
20	300WQ650-7-22	22	29	1450	380	50	650	10833	7	12
21	100WQ120-45-30	30	40	1450	380	50	120	2000	45	4
22	150WQ180-30-30	30	40	1450	380	50	180	3000	30	6
23	200WQ250-22-30	30	40	1450	380	50	250	4166	22	8
24	250WQ500-12-30	30	40	1450	380	50	500	8333	12	10
25	250WQ600-9-30	30	40	1450	380	50	600	10000	9	10
26	300WQ1000-6-30	30	40	980	380	50	1000	16666	6	12
27	300WQ800-7-30	30	40	1450	380	50	800	13333	7	12
28	350WQ1500-4-30	30	40	980	380	50	1500	25000	4	14
29	100WQ120-50-37	37	49	1450	380	50	120	2000	50	4
30	150WQ200-35-37	37	49	1450	380	50	200	3333	35	6
31	200WQ300-28-37	37	49	1450	380	50	300	5000	28	8
32	200WQ350-25-37	37	49	1450	380	50	350	5833	25	8
33	250WQ600-12-37	37	49	1450	380	50	600	10000	12	10
34	300WQ800-9-37	37	49	1450	380	50	800	13333	9	12
35	350WQ1000-6-37	37	49	1450	380	50	1000	16666	6	14
36	350WQ1100-6-37	37	49	980	380	50	1100	18333	6	14
37	400WQ1300-5-37	37	49	980	380	50	1300	21666	5	16
38	100WQ100-57-45	45	60	1450	380	50	100	1666	57	4
39	150WQ200-40-45	45	60	1450	380	50	200	3333	40	6
40	200WQ300-32-45	45	60	1450	380	50	300	5000	32	8

SUBMERSIBLE SEWAGE PUMPS “WQ”

NO.	PUMP MODEL	POWER (kW)	POWER (HP)	SPEED (r/min)	VOLTAGE (V)	FREQ. (Hz)	RATED FLOW (m^3/h)	RATED FLOW (l/min)	RATED HEAD (m)	OUTLET (inch)
41	200WQ400-25-45	45	60	1450	380	50	400	6666	25	8
42	250WQ600-15-45	45	60	1450	380	50	600	10000	15	10
43	300WQ800-12-45	45	60	1450	380	50	800	13333	12	12
44	350WQ1200-8-45	45	60	1450	380	50	1200	20000	8	14
45	350WQ1300-8-45	45	60	980	380	50	1300	21666	8	14
46	400WQ1700-6-45	45	60	980	380	50	1700	28333	6	16
47	100WQ100-65-55	55	73	1450	380	50	100	1666	65	4
48	150WQ180-50-55	55	73	1450	380	50	180	3000	50	6
49	200WQ300-40-55	55	73	1450	380	50	300	5000	40	8
50	200WQ400-30-55	55	73	1450	380	50	400	6666	30	8
51	250WQ600-20-55	55	73	1450	380	50	600	10000	20	10
52	300WQ800-15-55	55	73	1450	380	50	800	13333	15	12
53	350WQ1000-10-55	55	73	1450	380	50	1000	16666	10	14
54	350WQ1100-10-55	55	73	980	380	50	1100	18333	10	14
55	400WO1300-8-55	55	73	1450	380	50	1300	21666	8	16
56	400WQ1500-8-55	55	73	980	380	50	1500	25000	8	16
57	500WQ2200-5-55	55	73	740	380	50	2200	36666	5	20
58	100WQ120-75-75	75	100	1450	380	50	120	2000	75	4
59	150WQ200-60-75	75	100	1450	380	50	200	3333	60	6
60	200WQ350-45-75	75	100	1450	380	50	350	5833	45	8
61	250WQ600-25-75	75	100	1450	380	50	600	10000	25	10
62	300WQ800-20-75	75	100	1450	380	50	800	13333	20	12
63	350WQ1000-15-75	75	100	1450	380	50	1000	16666	15	14
64	350WQ1500-12-75	75	100	980	380	50	1500	25000	12	14
65	400WQ1300-13-75	75	100	1450	380	50	1300	21666	13	16
66	400WQ1700-10-75	75	100	980	380	50	1700	28333	10	16
67	500WQ2000-8-75	75	100	980	380	50	2000	33333	8	20
68	500WQ2700-6-75	75	100	740	380	50	2700	45000	6	20
69	100WQ200-85-90	90	120	1450	380	50	200	3333	85	4
70	150WQ200-70-90	90	120	1450	380	50	200	3333	70	6
71	200WO300-60-90	90	120	1450	380	50	300	5000	60	8
72	200WQ400-50-90	90	120	1450	380	50	400	6666	50	8
73	250WQ600-30-90	90	120	1450	380	50	600	10000	30	10

SUBMERSIBLE SEWAGE PUMPS “WQ”

NO.	PUMP MODEL	POWER (kW)	POWER (HP)	SPEED (r/min)	VOLTAGE (V)	FREQ. (Hz)	RATED FLOW (m^3/h)	RATED FLOW (l/min)	RATED HEAD (m)	OUTLET (inch)
74	300WQ800-25-90	90	120	1450	380	50	800	13333	25	12
75	350WQ1000-18-90	90	120	1450	380	50	1000	16666	18	14
76	350WQ1200-18-90	90	120	980	380	50	1200	20000	18	14
77	400WQ1300-16-90	90	120	1450	380	50	1300	21666	16	16
78	400WQ1500-15-90	90	120	980	380	50	1500	25000	15	16
79	500WO2500-8-90	90	120	740	380	50	2500	41666	8	20
80	500WQ2000-10-90	90	120	980	380	50	2000	33333	10	20
81	600WQ3000-6-90	90	120	740	380	50	3000	50000	6	24
82	100WQ100-100-110	110	147	1450	380	50	100	1666	100	4
83	150WQ180-80-110	110	147	1450	380	50	180	3000	80	6
84	200WQ300-65-110	110	147	1450	380	50	300	5000	65	8
85	250WQ600-40-110	110	147	1450	380	50	600	10000	40	10
86	300WQ1000-25-110	110	147	1450	380	50	1000	16666	25	12
87	350WQ1300-20-110	110	147	1450	380	50	1300	21666	20	14
88	350WQ1600-16-110	110	147	980	380	50	1600	26666	16	14
89	400WQ1500-17-110	110	147	1450	380	50	1500	25000	17	16
90	400WQ1800-15-110	110	147	980	380	50	1800	30000	15	16
91	500WQ2500-10-110	110	147	980	380	50	2500	41666	10	20
92	500WQ3000-8-110	110	147	740	380	50	3000	50000	8	20
93	600WQ3200-7-110	110	147	980	380	50	3200	53333	7	24
94	600WQ3800-6-110	110	147	740	380	50	3800	63333	6	24
95	150WQ200-90-132	132	176	1450	380	50	200	3333	90	6
96	200WQ400-75-132	132	176	1450	380	50	400	6666	75	8
97	250WQ600-50-132	132	176	1450	380	50	600	10000	50	10
98	300WQ800-36-132	132	176	1450	380	50	800	13333	36	12
99	350WQ1100-28-132	132	176	1450	380	50	1100	18333	28	14
100	350WQ1500-20-132	132	176	980	380	50	1500	25000	20	14
101	400WQ1700-16-132	132	176	1450	380	50	1700	28333	16	16
102	400WQ2000-15-132	132	176	980	380	50	2000	33333	15	16
103	500WQ2800-10-132	132	176	980	380	50	2800	46666	10	20
104	500WQ3100-10-132	132	176	740	380	50	3100	51666	10	20
105	600WQ3700-8-132	132	176	980	380	50	3700	61666	8	24
106	600WQ4000-8-132	132	176	740	380	50	4000	75000	8	24

SUBMERSIBLE SEWAGE PUMPS “WQ”

NO.	PUMP MODEL	POWER (kW)	POWER (HP)	SPEED (r/min)	VOLTAGE (V)	FREQ. (Hz)	RATED FLOW (m^3/h)	RATED FLOW (l/min)	RATED HEAD (m)	OUTLET (inch)
107	150WQ220-100-160	160	213	1450	380	50	220	3666	100	6
108	200WQ400-85-160	160	213	1450	380	50	400	6666	85	8
109	250WQ600-60-160	160	213	1450	380	50	600	10000	60	10
110	300WQ800-40-160	160	213	1450	380	50	800	13333	40	12
111	350WQ1000-35-160	160	213	1450	380	50	1000	16666	35	14
112	350WQ1200-35-160	160	213	980	380	50	1200	20000	35	14
113	400WQ1600-20-160	160	213	1450	380	50	1600	26666	20	16
114	400WQ1600-22-160	160	213	980	380	50	1600	26666	22	16
115	500WQ2600-16-160	160	213	980	380	50	2600	43333	16	20
116	500WQ3000-14-160	160	213	740	380	50	3000	50000	14	20
117	600WQ3700-10-160	160	213	980	380	50	3700	61666	10	24
118	600WQ4000-10-160	160	213	740	380	50	4000	66666	10	24
119	200WQ400-90-185	185	247	1450	380	50	400	6666	90	8
120	250WQ600-70-185	185	247	1450	380	50	600	10000	70	10
121	300WQ900-40-185	185	247	1450	380	50	900	15000	40	12
122	350WQ1100-38-185	185	247	1450	380	50	1100	18333	38	14
123	400WQ1600-25-185	185	247	1450	380	50	1600	26666	25	16
124	400WQ2000-20-185	185	247	980	380	50	2000	33333	20	16
125	500WQ3000-15-185	185	247	980	380	50	3000	50000	15	20
126	600WQ3700-12-185	185	247	980	380	50	3700	61666	12	24
127	250WQ750-75-200	200	267	1450	380	50	1000	16666	75	10
128	300WQ1000-45-200	200	267	1450	380	50	1000	16666	45	12
129	350WQ1300-35-200	200	267	1450	380	50	1300	21666	35	14
130	400WQ1500-30-200	200	267	1450	380	50	1500	25000	30	16
131	400WQ2300-22-200	200	267	980	380	50	2300	38333	22	16
132	500WQ3500-15-200	200	267	980	380	50	3500	58333	15	20
133	600WQ4500-12-200	200	267	980	380	50	4500	75000	12	24
134	300WQ1100-45-250	250	333	1450	380	50	1100	18333	45	12
135	350WQ1500-36-250	250	333	1450	380	50	1500	25000	36	14
136	400WQ1800-30-250	250	333	1450	380	50	1800	30000	30	16
137	400WQ2200-28-250	250	333	980	380	50	2200	36666	28	16
138	500WQ3000-21-250	250	333	980	380	50	3000	50000	21	20
139	600WQ4000-18-250	250	333	980	380	50	4000	66666	18	24

SUBMERSIBLE SEWAGE PUMPS “WQ”

NO.	PUMP MODEL	POWER (kW)	POWER (HP)	SPEED (r/min)	VOLTAGE (V)	FREQ. (Hz)	RATED FLOW (m^3/h)	RATED FLOW (l/min)	RATED HEAD (m)	OUTLET (inch)
140	300WQ1000-55-315	315	420	1450	380	50	1000	16666	55	12
141	350WQ1500-45-315	315	420	1450	380	50	1500	25000	45	14
142	400WQ2000-36-315	315	420	980	380	50	2000	33333	36	16
143	500WQ3500-25-315	315	420	980	380	50	3500	58333	25	20
144	600WQ4500-20-315	315	420	980	380	50	4500	75000	20	24
145	500WQ3000-35-400	400	533	980	380	50	3000	50000	35	20
146	600WQ5000-22-400	400	533	980	380	50	5000	83333	22	24
147	500WQ4000-32-550	550	733	980	380	50	4000	66666	32	20
148	600WQ5500-25-550	550	733	980	380	50	5500	83333	25	24

Performance values at n = 2850 rpm, 50 Hz for WQ 0.75–7.5 kW; speeds of the larger models as listed. Specifications are subject to change without notice.