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effects
on
life

QJ,QJR
Submersible Well Pump

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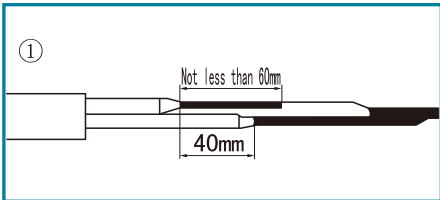
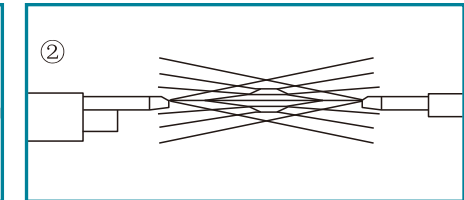
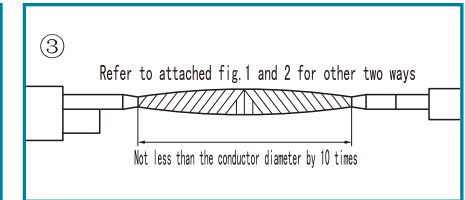
PRODUCT PROFILE

The Submersible well pump is a water lift implement directly linked with a water pump to work in water together and suitable for farmland irrigation, city industrial and mineral water supply and drainage engineering, terrestrial heat development and utility, warming project in winter etc.

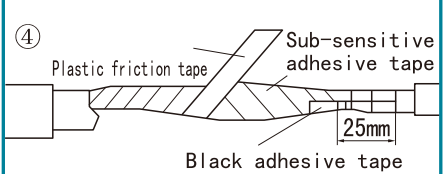
ABOUT THE STRUCTURE

- 1.The submersible well pump apparatus consists of water pump, motor, water transport pipeline, water-proof cable and control switch five parts, the water pump is a single-suction multiple stage vertical centrifugal pump.
- 2.The submersible motor uses a water-filling wet-type structure and inside of it there is full of pure water, used for cooling the motor and lubricating the bearing. The pressure adjuster in the lower side of the motor will automatically adjust the water filling pressure inside of the motor when a variation occurs with it due to the temperature variation during running.
- 3.To prevent sand and mud from going into the motor, a sand thrower and a frame oil seal are mounted on the upper side of it to form a sand preventing mechanism and get it a sealed structure.
- 4.On the upper side there are water filling and exhaust holes and on the lower side there is drainage hole.
- 5.On the lower side of the motor a thrust bearing and a thrust disc are set, used to bear the pump's residual axial force and the motor rotor's weight.
6. Water-proof electromagnetic wires are used for the stator winding of the motor and of a good insulation and water resisting performance. The rotor is of the squirrel-cage structure.

WAY OF CABLE CONNECTION

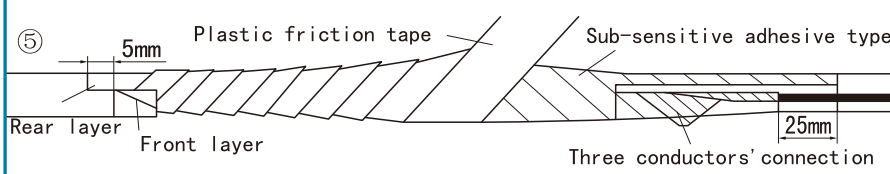
		
1.Do not make the conductor injured when to remove the insulating layer. 2.Place the three conductors or cross per the length. 3.Completely scrape out the insulating paint film on the conductors. 4.Make sure of no oil, water or other dirt on the connections.	1.Divide the connections into several plies (not less than 6 plies) and then evenly separate them. 2.Crisscross two connections together, with the crisscrossed length properly such as the wire tips on both ends aim at the insulating layer.	1.Get plies together closely, take out one ply in the middle and wrap it on one end, then another one. 2.Use the same way on the other end. 3.Tightly twist the connection with a hand clamp or solder it with tin if possible to get a better effect.

WAY OF CABLE CONNECTION



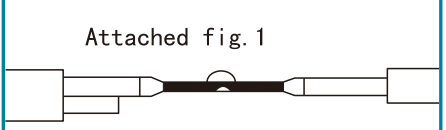
④

- 1.First closely bind the wrapped portion twice layers with common black adhesive tape.
- 2.Bind three layers of sub-sensitive adhesive tape (black), squeeze it once per one layer of binding to make sure of the binding quality.
- 3.Bind two layers of plastic friction tape finally.



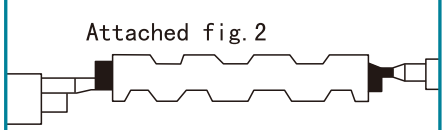
⑤

- 1.Make up the connections, bind them five layers of sub-sensitive adhesive tape(not less then 4 layers) and the cable sheath as well by over 25mm.
- 2.Bind three layers of plastic friction tape, on both ends have the next layer over the previous one by about 5mm.
- 3.It will be best to wrap the outside of the connections with inner tube of a bicycle tire which is of a 50mm width and a proper length and filed cleanly and glued on both sur face so as to protect the binding layers when placed down into a well.



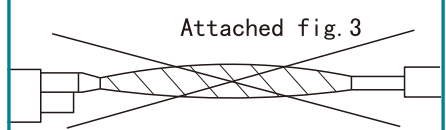
Attached fig. 1

A better connection applied with aro-weld



Attached fig. 2

Can also use the way of sleeve cold pressed connection

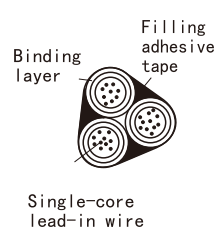


Attached fig. 3

In the first layer binding with black adhesive tape, do not let the copper wire tip out of it or penetrate it

Please Care

- 1.Before binding the connection, first check the motor's insulation and do not make wiring until it conforms with the requirement in the instructions. Submerge the bound connection in the water of a room temperature for 12 hours and then measure its insulation and place it into a well if acceptable.
- 2.Both adhesive tapes are elastic, so pull it tightly in binding. Wind it several turns at the original place after the final layer to avoid fall-off in a long time.
- 3.In binding each oonnection, have the tape in the next layer over the previous one by more than 5mm.
- 4.To bind thrss single-core lead-in wires, roll up the sub-sensitive adhesive tape into a triangle and insert it in the space to prevent water from going in. (As shown in the figure)



Binding layer
Filling adhesive tape
Single-core lead-in wire

CONDITIONS OF USE

1.Requirement on the power supply:

- (1) Rated frequency 50Hz, the rated voltage on the motor end needs to be a $380\pm 5\%$ three-phase AC power (A special order is required in case of a 660V voltage).
- (2) The power of the transformer's load should not be over its capacity by 75%.
- (3) The linear voltage-drop of the transmission wire has to be taken into consideration in case of a long distance between both transformer and well, for the motor of a power more than 45kW, the distance should not be over 20m and, in case of one more than that, it is required for the norm of the transmission wire to be more than the completing cable by two grades and to consider the linear voltage-drop.

2.Requirement on the well casing:

Straight and smooth without any convex or malposition of the well casing and the inner diameter not less than the corresponding number of foundation.

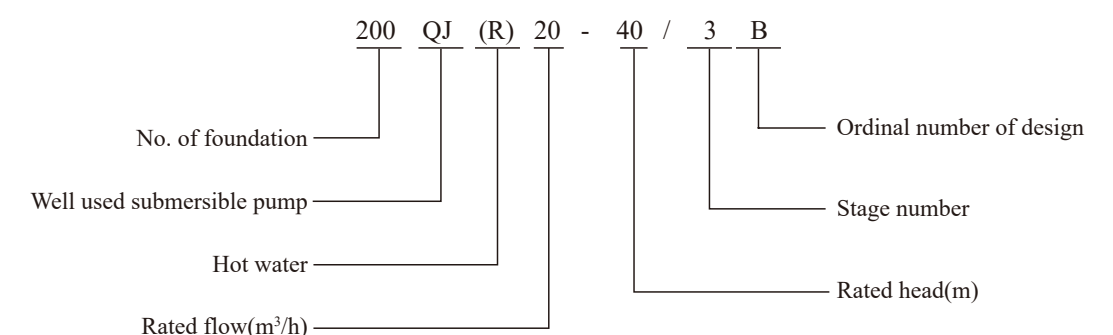
3.Requirement on the water quality:

QJ series submersible well pump		QJR series high temp, resisting submersible well pump			
Suitable medium	General non-corrosive pure water	Suitable medium	Contain no oil, hot water	Water temp.	$\leq 100^{\circ}\text{C}$
Water temp.	$\leq 20^{\circ}\text{C}$	Chlorion(mg/L)	≤ 4000	Degree of acid-alkali (PH value)	6.5~8.5
Sand content (mass ratio)	$\leq 0.01\%$	Chlorion(mg/L)	≤ 600	Hydrogen sulfide(mg/L)	≤ 1.0
Degree of acid-alkali (PH value)	6.5~8.5	Sulfate ion (mg/L)	≤ 1000	Eroded carbon dioxide	≤ 2.5
Chlorion(mg/L)	400	Ammonia ion(mg/L)	≤ 1.0	Dissolving oxygen(mg/L)	≤ 2.5
Hydrogen sulfide(mg/L)	≤ 1.5	Chlorion(mg/L)	≤ 4.0	Solid content (weight ratio)	$\leq 0.01\%$

4.Special process and manufacture upon the contract approved by both user and enterprise is available in case of special conditions of use.

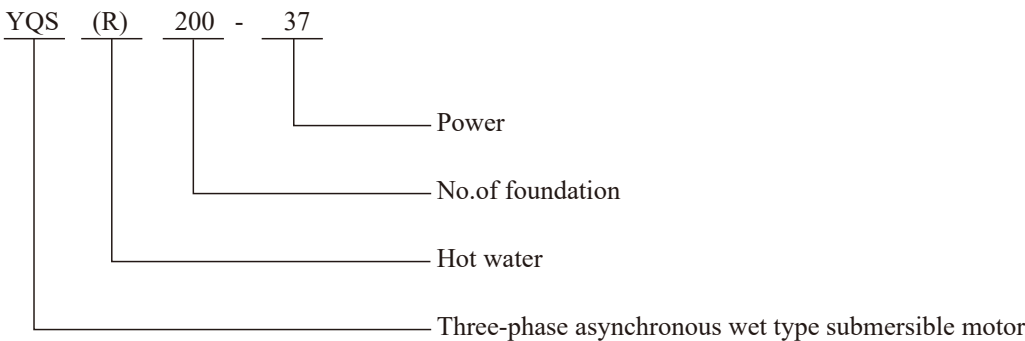
MODEL MEANING

1) Submersible pump



MODEL MEANING

2) Model of submersible motor



3) No need of (R) mark for common submersible motor and water pump

NOTICE AT USE

- 1.Fill the motor wth the pure water before using it and then tighten the water filling and air bleeding screw cork, otherwise no use is allowed.
- 2.Trial running on ground has not to be over 1s.
- 3.Do not use the electric pump when toppled or inclined.
- 4.Submerse the motor completely in water with the depth not more than 70m.
- 5.Operate both lead-in wire and cable connection per the provisions.
- 6.Care: installation of the high head pump must use the forced protective measure “tight link from the motor's foundation to the pump connected pipe” so as to avoid any accident.
7. Care: fit all electric pumps with control switch, it should act reliably in oase of an overload with the pump.
8. Care: the cable used with the electric pump should be matched with the rated voltage and current of the motor and properly fixed and supported.
9. Warn: the electric pump must be reliably grounch ed when used in a pool, shallow well, reservoir etc. special places.
10. Warn: first cut off the power when to move, clean or repair the electric pump in order to avoid electric shock.
11. Warn: in case of a long time storage, unscrew the four screws on the bottom of the motor and remove the voltage regulation cover to drain out the pure water from inside of motor, then put on the cover and fix the screws.

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
1	150QJ5 - 50	5	50	3	7.8	1.5	3 × 2.5
2	150QJ5 - 78		78	3	7.8		3 × 2.5
3	150QJ5 - 100		100	3	7.8		3 × 2.5
4	150QJ5 - 128		128	4	10.1		3 × 2.5
5	150QJ5 - 150		150	4	10.1		3 × 2.5
6	150QJ5 - 178		178	5.5	13.7		3 × 4
7	150QJ5 - 200		200	5.5	13.7		3 × 4
8	150QJ5 - 250		250	7.5	18.5		3 × 6
9	150QJ5 - 300		300	9.2	22.1		3 × 10
10	150QJ5 - 72		72	3	7.8		3 × 2.5
11	150QJ5 - 84		84	3	7.8		3 × 2.5
12	150QJ5 - 96		96	4	10.1		3 × 2.5
13	150QJ5 - 108		108	4	10.1		3 × 2.5
14	150QJ5 - 120		120	4	10.1		3 × 2.5
15	150QJ5 - 132		132	5.5	13.7		3 × 4
16	150QJ5 - 144		144	5.5	13.7		3 × 4
17	150QJ5 - 156		156	5.5	13.7		3 × 4
18	150QJ5 - 168		168	7.5	18.5		3 × 4
19	150QJ5 - 180		180	7.5	18.5		3 × 6
20	150QJ5 - 192		192	7.5	18.5		3 × 6
21	150QJ5 - 204		204	7.5	18.5		3 × 6
22	150QJ5 - 216		216	7.5	18.5		3 × 6
23	150QJ5 - 228		228	9.2	22.1		3 × 10
24	150QJ5 - 240		240	9.2	22.1		3 × 10
25	150QJ5 - 252		252	9.2	22.1		3 × 10
26	150QJ5 - 264		264	9.2	22.1		3 × 10
27	150QJ5 - 276		276	11	26.3		3 × 10
28	150QJ5 - 288		288	11	26.3		3 × 10
29	150QJ5 - 300		300	11	26.3		3 × 10
30	150QJ5 - 312		312	11	26.3	2	3 × 16
31	150QJ5 - 324		324	13	30.7		3 × 16
32	150QJ5 - 336		336	13	30.7		3 × 16
33	150QJ5 - 348		348	13	30.7		3 × 16
34	150QJ5 - 360		360	13	30.7		3 × 16
35	150QJ5 - 372		372	15	35.0		3 × 25
36	150QJ5 - 384		384	15	35.0		3 × 25
37	150QJ5 - 396		396	15	35.0		3 × 25
38	150QJ5 - 408		408	15	35.0		3 × 25
39	150QJ5 - 420		420	15	35.0		3 × 25

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
40	150QJ5 - 432	10	432	18.5	42.6	2	3 × 25
41	150QJ5 - 444		444	18.5	42.6		3 × 25
42	150QJ5 - 456		456	18.5	42.6		3 × 25
43	150QJ5 - 468		468	18.5	42.6		3 × 35
44	150QJ5 - 480		480	18.5	42.6		3 × 35
45	150QJ5 - 492		492	18.5	42.6		3 × 35
46	150QJ5 - 504		504	18.5	42.6		3 × 35
47	150QJ10 - 50		50	3	7.8		3 × 2.5
48	150QJ10 - 78		78	4	10.1		3 × 2.5
49	150QJ10 - 100		100	5.5	13.7		3 × 4
50	150QJ10 - 128		128	7.5	18.5		3 × 4
51	150QJ10 - 150		150	7.5	18.5		3 × 4
52	150QJ10 - 178		178	9.2	22.1		3 × 6
53	150QJ10 - 200		200	11	26.3		3 × 10
54	150QJ10 - 250		250	13	30.7		3 × 10
55	150QJ10 - 300		300	15	35.0		3 × 16
56	150QJ10 - 42		42	3	7.8		3 × 2.5
57	150QJ10 - 52		52	3	7.8		3 × 2.5
58	150QJ10 - 63		63	4	10.1		3 × 2.5
59	150QJ10 - 73		73	4	10.1		3 × 2.5
60	150QJ10 - 84		84	5.5	13.7		3 × 4
61	150QJ10 - 95		95	5.5	13.7		3 × 4
62	150QJ10 - 105		105	5.5	13.7		3 × 4
63	150QJ10 - 116		116	5.5	13.7		3 × 4
64	150QJ10 - 126		126	7.5	18.5		3 × 4
65	150QJ10 - 137		137	7.5	18.5		3 × 4
66	150QJ10 - 147		147	7.5	18.5		3 × 4
67	150QJ10 - 158		158	9.2	22.1		3 × 6
68	150QJ10 - 168		168	9.2	22.1		3 × 6
69	150QJ10 - 179		179	9.2	22.1		3 × 6
70	150QJ10 - 189		189	11	26.3		3 × 10
71	150QJ10 - 200		200	11	26.3		3 × 10
72	150QJ10 - 210		210	13	30.7		3 × 10
73	150QJ10 - 221		221	13	30.7		3 × 10
74	150QJ10 - 231		231	13	30.7		3 × 10
75	150QJ10 - 242		242	13	30.7		3 × 10
76	150QJ10 - 252		252	15	35.0		3 × 16
77	150QJ10 - 263		263	15	35.0		3 × 16
78	150QJ10 - 273		273	15	35.0		3 × 16
79	150QJ10 - 284		284	15	35.0		3 × 16
80	150QJ10 - 294		294	15	35.0		3 × 16
81	150QJ10 - 305		305	18.5	42.6		3 × 25
82	150QJ10 - 315		315	18.5	42.6		3 × 25
83	150QJ10 - 326		326	18.5	42.6		3 × 25
84	150QJ10 - 336		336	18.5	42.6		3 × 25
85	150QJ10 - 347		347	18.5	42.6		3 × 25

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
86	150QJ10 - 357	10	357	22	50.3	2	3 × 25
87	150QJ10 - 368		368	22	50.3		3 × 25
88	150QJ10 - 378		378	22	50.3		3 × 25
89	150QJ10 - 389		389	22	50.3		3 × 25
90	150QJ10 - 399		399	22	50.3		3 × 35
91	150QJ10 - 410		410	22	50.3		3 × 35
92	150QJ10 - 420		420	25	57.2		3 × 35
93	150QJ10 - 431		431	25	57.2		3 × 35
94	150QJ10 - 441		441	25	57.2		3 × 35
95	150QJ20 - 26	20	26	3	7.8		3 × 2.5
96	150QJ20 - 33		33	3	7.8		3 × 2.5
97	150QJ20 - 39		39	4	10.1		3 × 2.5
98	150QJ20 - 46		46	5.5	13.7		3 × 4
99	150QJ20 - 52		52	5.5	13.7		3 × 4
100	150QJ20 - 59		59	5.5	13.7		3 × 4
101	150QJ20 - 65		65	7.5	18.5		3 × 4
102	150QJ20 - 72		72	7.5	18.5		3 × 4
103	150QJ20 - 78		78	7.5	18.5		3 × 4
104	150QJ20 - 85		85	9.2	22.1		3 × 4
105	150QJ20 - 91		91	9.2	22.1		3 × 4
106	150QJ20 - 98		98	9.2	22.1		3 × 4
107	150QJ20 - 104		104	11	26.3		3 × 6
108	150QJ20 - 111		111	11	26.3		3 × 6
109	150QJ20 - 117		117	13	30.7		3 × 6
110	150QJ20 - 124		124	13	30.7		3 × 6
111	150QJ20 - 130		130	13	30.7		3 × 6
112	150QJ20 - 137		137	15	35.0		3 × 10
113	150QJ20 - 143		143	15	35.0		3 × 10
114	150QJ20 - 150		150	15	35.0		3 × 10
115	150QJ20 - 156		156	15	35.0		3 × 10
116	150QJ20 - 163		163	15	35.0		3 × 10
117	150QJ20 - 170		170	18.5	42.6		3 × 10
118	150QJ20 - 176		176	18.5	42.6		3 × 10
119	150QJ20 - 182		182	18.5	42.6		3 × 10
120	150QJ25 - 24	25	24	3	7.8	2.5	3 × 2.5
121	150QJ25 - 32		32	4	10.1		3 × 2.5
122	150QJ25 - 40		40	5.5	13.7		3 × 4
123	150QJ25 - 48		48	5.5	13.7		3 × 4
124	150QJ25 - 56		56	7.5	18.5		3 × 4
125	150QJ25 - 64		64	7.5	18.5		3 × 4
126	150QJ25 - 72		72	9.2	22.1		3 × 4
127	150QJ25 - 80		80	9.2	22.1		3 × 4
128	150QJ25 - 88		88	11	26.3		3 × 6
129	150QJ25 - 96		96	11	26.3		3 × 6
130	150QJ25 - 104		104	13	30.7		3 × 6
131	150QJ25 - 112		112	13	30.7		3 × 6

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
132	150QJ25 - 120	25	120	15	35.0	2.5	3 × 6
133	150QJ25 - 128		128	15	35.0		3 × 6
134	150QJ25 - 136		136	18.5	42.6		3 × 10
135	150QJ25 - 144		144	18.5	42.6		3 × 10
136	150QJ25 - 152		152	18.5	42.6		3 × 10
137	150QJ32 - 12	32	12	3	7.8		3 × 2.5
138	150QJ32 - 18		18	3	7.8		3 × 2.5
139	150QJ32 - 24		24	4	10.1		3 × 2.5
140	150QJ32 - 30		30	5.5	13.7		3 × 4
141	150QJ32 - 36		36	5.5	13.7		3 × 4
142	150QJ32 - 42		42	7.5	18.5		3 × 4
143	150QJ32 - 48		48	9.2	22.1		3 × 4
144	150QJ32 - 54		54	9.2	22.1		3 × 4
145	150QJ32 - 60		60	11	26.3		3 × 6
146	150QJ32 - 66		66	11	26.3		3 × 6
147	150QJ32 - 72		72	13	30.7		3 × 6
148	150QJ32 - 78		78	13	30.7		3 × 6
149	150QJ32 - 84		84	13	30.7		3 × 6
150	150QJ32 - 90		90	15	35.0		3 × 6
151	150QJ32 - 96		96	15	35.0		3 × 6
152	150QJ32 - 102		102	18.5	42.6		3 × 6
153	150QJ32 - 108		108	18.5	42.6		3 × 6
154	150QJ32 - 114		114	18.5	42.6		3 × 10
155	150QJ40 - 8	40	8	3	7.8	3	3 × 2.5
156	150QJ40 - 16		16	4	10.1		3 × 2.5
157	150QJ40 - 24		24	5.5	13.7		3 × 4
158	150QJ40 - 32		32	7.5	18.5		3 × 4
159	150QJ40 - 40		40	7.5	18.5		3 × 4
160	150QJ40 - 48		48	9.2	22.1		3 × 4
161	150QJ40 - 56		56	11	26.3		3 × 6
162	150QJ40 - 64		64	13	30.7		3 × 6
163	150QJ40 - 72		72	15	35.0		3 × 6
164	150QJ40 - 80		80	18.5	42.6		3 × 6
165	150QJ40 - 88		88	18.5	42.6		3 × 6
166	150QJ40 - 96		96	18.5	42.6		3 × 6
167	150QJ50 - 6	50	6	3	7.8		3 × 2.5
168	150QJ50 - 12		12	4	10.1		3 × 2.5
169	150QJ50 - 18		18	5.5	13.7		3 × 4
170	150QJ50 - 24		24	7.5	18.5		3 × 4
171	150QJ50 - 30		30	7.5	18.5		3 × 4
172	150QJ50 - 36		36	9.2	22.1		3 × 4
173	150QJ50 - 42		42	11	26.3		3 × 6
174	150QJ50 - 48		48	13	30.7		3 × 6
175	150QJ50 - 54		54	13	30.7		3 × 6
176	150QJ50 - 60		60	15	35.0		3 × 6
177	150QJ50 - 66		66	18.5	42.6		3 × 6
178	150QJ50 - 72		72	18.5	42.6		3 × 6
179	175QJ10 - 15	10	15	3	7.7	2	3 × 2.5

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
180	175QJ10 - 30	10	30	3	7.7	2	3 × 2.5
181	175QJ10 - 45		45	3	7.7		3 × 2.5
182	175QJ10 - 60		60	4	10.1		3 × 2.5
183	175QJ10 - 75		75	5.5	13.5		3 × 4
184	175QJ10 - 90		90	5.5	13.5		3 × 4
185	175QJ10 - 105		105	7.5	18.3		3 × 4
186	175QJ10 - 120		120	7.5	18.3		3 × 4
187	175QJ10 - 135		135	9.2	21.8		3 × 4
188	175QJ10 - 150		150	9.2	21.8		3 × 6
189	175QJ10 - 165		165	11	25.8		3 × 6
190	175QJ10 - 180		180	13	29.9		3 × 10
191	175QJ10 - 195		195	13	29.9		3 × 10
192	175QJ10 - 210		210	13	29.9		3 × 10
193	175QJ10 - 225		225	15	34.3		3 × 10
194	175QJ10 - 240		240	18.5	42.3		3 × 16
195	175QJ10 - 255		255	18.5	42.3		3 × 16
196	175QJ10 - 270		270	18.5	42.3		3 × 16
197	175QJ10 - 285		285	22	49.4		3 × 25
198	175QJ10 - 300		300	22	49.4		3 × 25
199	175QJ15 - 14	15	14	3	7.7	2	3 × 2.5
200	175QJ15 - 28		28	3	7.7		3 × 2.5
201	175QJ15 - 42		42	4	10.1		3 × 2.5
202	175QJ15 - 56		56	5.5	13.5		3 × 4
203	175QJ15 - 70		70	7.5	18.3		3 × 4
204	175QJ15 - 84		84	7.5	18.3		3 × 4
205	175QJ15 - 98		98	9.2	21.8		3 × 4
206	175QJ15 - 112		112	11	25.8		3 × 6
207	175QJ15 - 126		126	11	25.8		3 × 6
208	175QJ15 - 140		140	13	29.9		3 × 6
209	175QJ15 - 154		154	15	34.3		3 × 10
210	175QJ15 - 168		168	15	34.3		3 × 10
211	175QJ15 - 182		182	18.5	42.3		3 × 10
212	175QJ15 - 196		196	18.5	42.3		3 × 16
213	175QJ15 - 210		210	18.5	42.3		3 × 16
214	175QJ15 - 224		224	22	49.4		3 × 16
215	175QJ15 - 238		238	22	49.4		3 × 16
216	175QJ15 - 252		252	22	49.4		3 × 25
217	175QJ15 - 266		266	25	56.2		3 × 25
218	175QJ20 - 26	20	26	3	7.7	2	3 × 2.5
219	175QJ20 - 39		39	4	10.1		3 × 2.5
220	175QJ20 - 52		52	5.5	13.5		3 × 4
221	175QJ20 - 65		65	7.5	18.3		3 × 4
222	175QJ20 - 78		78	7.5	18.3		3 × 4
223	175QJ20 - 91		91	9.2	21.8		3 × 4
224	175QJ20 - 104		104	11	25.8		3 × 6
225	175QJ20 - 117		117	13	29.9		3 × 6
226	175QJ20 - 130		130	13	29.9		3 × 6
227	175QJ20 - 143		143	15	34.3		3 × 10

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
228	175QJ20 - 156	20	156	15	34.3	2	3 × 10
229	175QJ20 - 169		169	18.5	42.3		3 × 10
230	175QJ20 - 182		182	18.5	42.3		3 × 10
231	175QJ20 - 195		195	22	49.4		3 × 16
232	175QJ20 - 208		208	22	49.4		3 × 16
233	175QJ20 - 221		221	22	49.4		3 × 16
234	175QJ20 - 234		234	25	56.2		3 × 25
235	175QJ20 - 247		247	25	56.2		3 × 25
236	175QJ32 - 24	32	24	4	10.1	2.5	3 × 2. 5
237	175QJ32 - 36		36	5.5	13.5		3 × 4
238	175QJ32 - 48		48	7.5	18.3		3 × 4
239	175QJ32 - 60		60	9.2	21.8		3 × 4
240	175QJ32 - 72		72	11	25.8		3 × 6
241	175QJ32 - 84		84	13	29.9		3 × 6
242	175QJ32 - 96		96	15	34.3		3 × 6
243	175QJ32 - 108		108	18.5	42.3		3 × 6
244	175QJ32 - 120		120	18.5	42.3		3 × 10
245	175QJ32 - 132		132	22	49.4		3 × 10
246	175QJ32 - 144		144	22	49.4		3 × 10
247	175QJ32 - 156		156	25	56.2		3 × 16
248	175QJ32 - 168		168	25	56.2		3 × 16
249	175QJ40 - 24	40	24	5.5	13.5		3 × 4
250	175QJ40 - 36		36	7.5	18.3		3 × 4
251	175QJ40 - 48		48	9.2	21.8		3 × 4
252	175QJ40 - 60		60	11	25.8		3 × 6
253	175QJ40 - 72		72	13	29.9		3 × 6
254	175QJ40 - 84		84	15	34.3		3 × 6
255	175QJ40 - 96		96	18.5	42.3		3 × 6
256	175QJ40 - 108		108	22	49.4		3 × 10
257	175QJ40 - 120	50	120	22	49.4	3	3 × 10
258	175QJ40 - 132		132	25	56.2		3 × 10
259	175QJ50 - 24		24	5.5	13.5		3 × 4
260	175QJ50 - 36		36	9.2	21.8		3 × 4
261	175QJ50 - 48		48	11	25.8		3 × 6
262	175QJ50 - 60		60	13	29.9		3 × 6
263	175QJ50 - 72		72	15	34.3		3 × 6
264	175QJ50 - 84		84	18.5	42.3		3 × 6
265	175QJ50 - 96	10	96	22	49.4	2	3 × 10
266	175QJ50 - 108		108	25	56.2		3 × 10
267	200QJ10 - 80		80	5.5	13.6		3 × 2.5
268	200QJ10 - 120		120	7.5	18.0		3 × 4
269	200QJ10 - 160		160	11	25.6		3 × 6
270	200QJ10 - 200		200	13	30.1		3 × 10
271	200QJ10 - 240		240	15	34.3		3 × 16
272	200QJ10 - 280		280	18.5	41.3		3 × 16
273	200QJ10 - 320		320	22	48.5		3 × 25
274	200QJ10 - 360		360	22	48.5		3 × 25
275	200QJ10 - 400		400	25	54.5		3 × 35
276	200QJ10 - 440		440	30	65.4		3 × 50
277	200QJ10 - 47	62	47	4	10.0		3 × 2. 5
278	200QJ10 - 62		62	5.5	13.5		3 × 4

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
228	200QJ10 - 78	10	78	7.5	18.0	2	3 × 4
229	200QJ10 - 93		93	7.5	18.0		3 × 4
230	200QJ10 - 109		109	9.2	21.8		3 × 4
231	200QJ10 - 124		124	9.2	21.8		3 × 4
232	200QJ10 - 140		140	11	25.6		3 × 6
233	200QJ10 - 155		155	13	30.1		3 × 6
234	200QJ10 - 171		171	13	30.1		3 × 10
235	200QJ10 - 186		186	15	34.3		3 × 10
236	200QJ10 - 202		202	15	34.3		3 × 10
237	200QJ10 - 217		217	18.5	41.3		3 × 16
238	200QJ10 - 233		233	18.5	41.3		3 × 16
239	200QJ10 - 248		248	18.5	41.3		3 × 16
240	200QJ10 - 264		264	22	48.5		3 × 25
241	200QJ10 - 279		279	22	48.5		3 × 25
242	200QJ10 - 295		295	22	48.5		3 × 25
243	200QJ10 - 310		310	25	54.5		3 × 25
244	200QJ10 - 326		326	25	54.5		3 × 25
245	200QJ10 - 341		341	25	54.5		3 × 25
246	200QJ10 - 355		355	30	65.4		3 × 35
247	200QJ10 - 372		372	30	65.4		3 × 35
248	200QJ10 - 388		388	30	65.4		3 × 35
249	200QJ10 - 403		403	30	65.4		3 × 50
250	200QJ10 - 419		419	37	78.7		3 × 50
251	200QJ10 - 434		434	37	78.7		3 × 50
252	200QJ10 - 450		450	37	78.7		3 × 50
253	200QJ10 - 465		465	37	78.7		3 × 50
254	200QJ10 - 481		481	37	78.7		3 × 70
255	200QJ10 - 496		496	37	78.7		3 × 70
256	200QJ10 - 512		512	37	78.7		3 × 70
257	200QJ10 - 527		527	45	95.8		3 × 70
258	200QJ10 - 543	116.4	543	45	95.8	116.4	3 × 70
259	200QJ10 - 558		558	45	95.8		3 × 95
260	200QJ10 - 574		574	45	95.8		3 × 95
261	200QJ10 - 589		589	45	95.8		3 × 95
262	200QJ10 - 605		605	45	95.8		3 × 95
263	200QJ10 - 620		620	45	95.8		3 × 95
264	200QJ10 - 636		636	45	95.8		3 × 95
265	200QJ10 - 651		651	45	95.8		3 × 95
266	200QJ10 - 667		667	45	95.8		3 × 95
267	200QJ10 - 682		682	45	95.8		3 × 95
268	200QJ10 - 698		698	45	95.8		3 × 95
269	200QJ10 - 713		713	45	95.8		3 × 95
270	200QJ10 - 729	116.4	729	55	116.4	116.4	3 × 120
271	200QJ10 - 744		744	55	116.4		3 × 150
272	200QJ10 - 760		760	55	116.4		3 × 150
273	200QJ10 - 775		775	55	116.4		3 × 150
274	200QJ10 - 791		791	55	116.4		3 × 150
275	200QJ10 - 806		806	55	116.4		3 × 150
276	200QJ10 - 822		822	55	116.4		3 × 150
277	200QJ10 - 837		837	55	116.4		3 × 150
278	200QJ10 - 853		853	55	116.4		3 × 150

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
330	200QJ10 - 868	10	868	55	116.4	2	3 × 150
331	200QJ10 - 884		884	75	156.8		3 × 185
332	200QJ10 - 899		899	75	156.8		3 × 240
333	200QJ10 - 915		915	75	156.8		3 × 240
334	200QJ10 - 930		930	75	156.8		3 × 240
335	200QJ10 - 946		946	75	156.8		3 × 240
336	200QJ10 - 961		961	75	156.8		3 × 240
337	200QJ10 - 977		977	75	156.8		3 × 240
338	200QJ10 - 992		992	75	156.8		3 × 240
339	200QJ10 - 1008		1008	75	156.8		3 × 240
340	200QJ10 - 1023	15	1023	75	156.8	2	3 × 240
341	200QJ15 - 70		70	7.5	18.0		3 × 4
342	200QJ15 - 105		105	9.2	21.8		3 × 4
343	200QJ15 - 140		140	13	30.1		3 × 6
344	200QJ15 - 175		175	15	34.3		3 × 10
345	200QJ15 - 210		210	18.5	41.3		3 × 16
346	200QJ15 - 245		245	22	48.5		3 × 16
347	200QJ15 - 280		280	25	54.5		3 × 25
348	200QJ15 - 315		315	30	65.4		3 × 25
349	200QJ15 - 350		350	30	65.4		3 × 35
350	200QJ15 - 385	20	385	37	78.7	2.5	3 × 50
351	200QJ20 - 40		40	4	10.0		3 × 2.5
352	200QJ20 - 54		54	5.5	13.5		3 × 4
353	200QJ20 - 67		67	7.5	18.0		3 × 4
354	200QJ20 - 81		81	7.5	18.0		3 × 4
355	200QJ20 - 93		93	9.2	21.8		3 × 4
356	200QJ20 - 108		108	11	25.6		3 × 6
357	200QJ20 - 121		121	13	30.1		3 × 6
358	200QJ20 - 133		133	13	30.1		3 × 6
359	200QJ20 - 148		148	15	34.3		3 × 10
360	200QJ20 - 160	20	160	18.5	41.3	2.5	3 × 10
361	200QJ20 - 175		175	18.5	41.3		3 × 10
362	200QJ20 - 186		186	18.5	41.3		3 × 10
363	200QJ20 - 202		202	22	48.5		3 × 16
364	200QJ20 - 212		212	22	48.5		3 × 16
365	200QJ20 - 226		226	25	54.5		3 × 25
366	200QJ20 - 243		243	25	54.5		3 × 25
367	200QJ20 - 252		252	25	54.5		3 × 25
368	200QJ20 - 270		270	30	65.4		3 × 25
369	200QJ20 - 283		283	30	65.4		3 × 25
370	200QJ20 - 297	20	297	30	65.4	2.5	3 × 35
371	200QJ20 - 305		305	30	65.4		3 × 35
372	200QJ20 - 320		320	37	78.7		3 × 35
373	200QJ20 - 338		338	37	78.7		3 × 50
374	200QJ20 - 350		350	37	78.7		3 × 50
375	200QJ20 - 363		363	37	78.7		3 × 50
376	200QJ20 - 372		372	37	78.7		3 × 50
377	200QJ20 - 385		385	45	95.8		3 × 50
378	200QJ20 - 400		400	45	95.8		3 × 70
379	200QJ20 - 413		413	45	95.8		3 × 70
380	200QJ20 - 425	20	425	45	95.8	2.5	3 × 70

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
381	200QJ20 - 437	20	437	45	95.8	2.5	3 × 70
382	200QJ20 - 450		450	45	95.8		3 × 70
383	200QJ20 - 465		465	55	116.4		3 × 95
384	200QJ20 - 478		478	55	116.4		3 × 95
385	200QJ20 - 490		490	55	116.4		3 × 95
386	200QJ20 - 505		505	55	116.4		3 × 95
387	200QJ20 - 519		519	55	116.4		3 × 95
388	200QJ20 - 532		532	55	116.4		3 × 95
389	200QJ20 - 545		545	55	116.4		3 × 95
390	200QJ20 - 558		558	55	116.4		3 × 95
391	200QJ20 - 572	20	572	63	133.3	2.5	3 × 120
392	200QJ20 - 585		585	63	133.3		3 × 120
393	200QJ20 - 598		598	63	133.3		3 × 120
394	200QJ20 - 612		612	63	133.3		3 × 120
395	200QJ20 - 625		625	63	133.3		3 × 120
396	200QJ20 - 638		638	63	133.3		3 × 120
397	200QJ20 - 652		652	75	156.8		3 × 150
398	200QJ20 - 665		665	75	156.8		3 × 150
399	200QJ20 - 678		678	75	156.8		3 × 150
400	200QJ20 - 692		692	75	156.8		3 × 150
401	200QJ20 - 705	20	705	75	156.8	3	3 × 150
402	200QJ20 - 718		718	75	156.8		3 × 185
403	200QJ20 - 732		732	75	156.8		3 × 185
404	200QJ20 - 745		745	75	156.8		3 × 185
405	200QJ20 - 758		758	75	156.8		3 × 185
406	200QJ20 - 771		771	75	156.8		3 × 185
407	200QJ20 - 785		785	90	187.1		3 × 240
408	200QJ20 - 798		798	90	187.1		3 × 240
409	200QJ20 - 811		811	90	187.1		3 × 240
410	200QJ20 - 825		825	90	187.1		3 × 240
411	200QJ20 - 838	32	838	90	187.1	2.5	3 × 240
412	200QJ20 - 851		851	90	187.1		3 × 240
413	200QJ20 - 865		865	90	187.1		3 × 240
414	200QJ20 - 878		878	90	187.1		3 × 240
415	200QJ20 - 891		891	90	187.1		3 × 240
416	200QJ20 - 904		904	90	187.1		3 × 240
417	200QJ20 - 918		918	90	187.1		3 × 240
418	200QJ20 - 931		931	110	228.6		3 × 300
419	200QJ20 - 944		944	110	228.6		3 × 300
420	200QJ20 - 958		958	110	228.6		3 × 300
421	200QJ20 - 971	32	971	110	228.6	2.5	3 × 300
422	200QJ20 - 984		984	110	228.6		3 × 300
423	200QJ20 - 998		998	110	228.6		3 × 400
424	200QJ32 - 26		26	4	10.0		3 × 2.5
425	200QJ32 - 39		39	5.5	13.5		3 × 4
426	200QJ32 - 52		52	7.5	18.0		3 × 4
427	200QJ32 - 65		65	11	25.6		3 × 6
428	200QJ32 - 78		78	11	25.6		3 × 6
429	200QJ32 - 91		91	13	30.1		3 × 6
430	200QJ32 - 104		104	15	34.3		3 × 6
431	200QJ32 - 117	32	1171	18.5	41.3		3 × 10

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
432	200QJ32 - 130	32	130	18.5	41.3	3	3 × 10
433	200QJ32 - 143		143	22	48.5		3 × 10
434	200QJ32 - 156		156	25	54.5		3 × 16
435	200QJ32 - 169		169	25	54.5		3 × 16
436	200QJ32 - 182		182	30	65.4		3 × 16
437	200QJ32 - 195		195	30	65.4		3 × 25
438	200QJ32 - 208		208	37	78.7		3 × 25
439	200QJ32 - 221		221	37	78.7		3 × 25
440	200QJ32 - 234		234	37	78.7		3 × 25
441	200QJ32 - 247		247	37	78.7		3 × 35
442	200QJ32 - 260		260	45	95.8		3 × 35
443	200QJ32 - 273		273	45	95.8		3 × 35
444	200QJ32 - 286		286	45	95.8		3 × 50
445	200QJ32 - 299		299	45	95.8		3 × 50
446	200QJ32 - 312		312	55	116.4		3 × 50
447	200QJ32 - 325		325	55	116.4		3 × 70
448	200QJ32 - 338		338	55	116.4		3 × 70
449	200QJ32 - 351		351	55	116.4		3 × 70
450	200QJ32 - 364		364	55	116.4		3 × 70
451	200QJ32 - 377		377	63	133.3		3 × 70
452	200QJ32 - 390		390	63	133.3		3 × 70
453	200QJ32 - 403		403	63	133.3		3 × 95
454	200QJ32 - 416		416	63	133.3		3 × 95
455	200QJ32 - 429		429	63	133.3		3 × 95
456	200QJ32 - 442		442	75	156.8		3 × 95
457	200QJ32 - 455		455	75	156.8		3 × 95
458	200QJ32 - 468		468	75	156.8		3 × 120
459	200QJ32 - 481		481	75	156.8		3 × 120
460	200QJ32 - 494		494	75	156.8		3 × 120
461	200QJ32 - 507		507	75	156.8		3 × 120
462	200QJ32 - 520		520	90	187.1		3 × 150
463	200QJ32 - 533		533	90	187.1		3 × 150
464	200QJ32 - 546		546	90	187.1		3 × 150
465	200QJ32 - 559		559	90	187.1		3 × 150
466	200QJ32 - 572		572	90	187.1		3 × 150
467	200QJ32 - 585		585	90	187.1		3 × 150
468	200QJ32 - 598		598	90	187.1		3 × 150
469	200QJ32 - 611		611	90	187.1		3 × 185
470	200QJ32 - 624		624	110	228.6		3 × 240
471	200QJ32 - 637		637	110	228.6		3 × 240
472	200QJ32 - 650		650	110	228.6		3 × 240
473	200QJ40 - 26	40	26	5.5	13.5	2.5	3 × 4
474	200QJ40 - 39		39	7.5	18.0		3 × 4
475	200QJ40 - 52		52	9.2	21.8		3 × 4
476	200QJ40 - 65		65	13	30.1		3 × 6
477	200QJ40 - 78		78	15	34.3		3 × 6
478	200QJ40 - 91		91	18.5	41.3		3 × 6
479	200QJ40 - 104		104	18.5	41.3		3 × 6
480	200QJ40 - 117		117	22	48.5		3 × 10
481	200QJ40 - 130		130	25	54.5		3 × 10
482	200QJ40 - 143		143	25	54.5		3 × 10

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
483	200QJ40 - 156	40	156	30	65.4	2.5	3 × 16
484	200QJ40 - 169		169	30	65.4		3 × 16
485	200QJ40 - 182		182	37	78.7		3 × 25
486	200QJ40 - 195		195	37	78.7		3 × 25
487	200QJ40 - 208		208	37	78.7		3 × 25
488	200QJ40 - 221		221	45	95.8	3	3 × 35
489	200QJ40 - 234		234	45	95.8		3 × 35
490	200QJ40 - 247		247	45	95.8		3 × 35
491	200QJ40 - 260		260	55	116.4		3 × 50
492	200QJ40 - 273		273	55	116.4		3 × 50
493	200QJ40 - 286		286	55	116.4		3 × 50
494	200QJ40 - 299		299	55	116.4		3 × 50
495	200QJ40 - 312		312	55	116.4		3 × 50
496	200QJ40 - 325		325	63	133.3		3 × 70
497	200QJ40 - 338		338	63	133.3		3 × 70
498	200QJ40 - 351		351	63	133.3		3 × 70
499	200QJ40 - 364		364	75	156.8		3 × 95
500	200QJ40 - 377		377	75	156.8		3 × 95
501	200QJ40 - 390		390	75	156.8		3 × 95
502	200QJ40 - 403		403	75	156.8		3 × 95
503	200QJ40 - 416		416	75	156.8		3 × 95
504	200QJ40 - 429		429	90	187.1		3 × 120
505	200QJ40 - 442		442	90	187.1		3 × 120
506	200QJ40 - 455		455	90	187.1		3 × 120
507	200QJ40 - 468		468	90	187.1		3 × 120
508	200QJ40 - 481		481	90	187.1		3 × 150
509	200QJ40 - 494		494	90	187.1		3 × 150
510	200QJ40 - 507		507	90	187.1		3 × 150
511	200QJ40 - 520		520	110	228.6		3 × 185
512	200QJ40 - 533		533	110	228.6		3 × 185
513	200QJ50 - 13	50	13	4	10.0	3	3 × 2.5
514	200QJ50 - 26		26	5.5	13.5		3 × 4
515	200QJ50 - 39		39	9.2	21.8		3 × 4
516	200QJ50 - 52		52	11	25.6		3 × 6
517	200QJ50 - 65		65	15	34.3		3 × 6
518	200QJ50 - 78		78	18.5	41.3		3 × 6
519	200QJ50 - 91		91	22	48.5		3 × 10
520	200QJ50 - 104		104	25	54.5		3 × 10
521	200QJ50 - 117		117	30	65.4		3 × 16
522	200QJ50 - 130		130	30	65.4		3 × 16
523	200QJ50 - 143		143	30	65.4	4	3 × 16
524	200QJ50 - 156		156	37	78.7		3 × 25
525	200QJ50 - 169		169	37	78.7		3 × 25
526	200QJ50 - 182		182	45	95.8		3 × 25
527	200QJ50 - 195		195	45	95.8		3 × 25
528	200QJ50 - 208		208	55	116.4		3 × 35
529	200QJ50 - 221		221	55	116.4		3 × 35
530	200QJ50 - 234		234	55	116.4		3 × 50
531	200QJ50 - 247		247	55	116.4		3 × 50
532	200QJ50 - 260		260	63	133.3		3 × 50
533	200QJ50 - 273		273	63	133.3		3 × 50

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
534	200QJ50 - 286	50	286	63	133.3	4	3 × 70
535	200QJ50 - 299		299	75	156.8		3 × 70
536	200QJ50 - 312		312	75	156.8		3 × 70
537	200QJ50 - 325		325	75	156.8		3 × 70
538	200QJ50 - 338		338	75	156.8		3 × 95
539	200QJ50 - 351		351	90	187.1		3 × 95
540	200QJ50 - 364		364	90	187.1	3	3 × 95
541	200QJ50 - 377		377	90	187.1		3 × 120
542	200QJ50 - 390		390	90	187.1		3 × 120
543	200QJ50 - 403		403	90	187.1		3 × 120
544	200QJ50 - 416		416	90	187.1		3 × 150
545	200QJ50 - 429		429	110	228.6		3 × 150
546	200QJ50 - 442		442	110	228.6	3	3 × 150
547	200QJ50 - 455		455	110	228.6		3 × 185
548	200QJ50 - 468		468	110	228.6		3 × 2. 5
549	200QJ50 - 481		481	110	228.6		3 × 4
550	200QJ63 - 12	63	12	4	10.0	3	3 × 6
551	200QJ63 - 24		24	7.5	18.0		3 × 6
552	200QJ63 - 36		36	11	25.6		3 × 6
553	200QJ63 - 48		48	15	34.3		3 × 10
554	200QJ63 - 60		60	18.5	41.3		3 × 10
555	200QJ63 - 72		72	22	48.5		3 × 16
556	200QJ63 - 84		84	25	54.5	4	3 × 16
557	200QJ63 - 96		96	30	65.4		3 × 16
558	200QJ63 - 100		100	30	65.4		3 × 25
559	200QJ63 - 120		120	37	78.7		3 × 25
560	200QJ63 - 140		140	45	95.8		3 × 35
561	200QJ63 - 160		160	55	116.4		3 × 50
562	200QJ63 - 180		180	55	116.4	4	3 × 50
563	200QJ63 - 200		200	63	133.3		3 × 70
564	200QJ63 - 220		220	63	133.3		3 × 70
565	200QJ63 - 240		240	75	156.8		3 × 95
566	200QJ63 - 260	80	260	75	156.8		3 × 95
567	200QJ63 - 280		280	90	187.1		3 × 95
568	200QJ63 - 300		300	90	187.1		3 × 120
569	200QJ63 - 320		320	90	187.1		3 × 4
570	200QJ63 - 340		340	110	228.6		3 × 6
571	200QJ80 - 17		17	7.5	18.0		3 × 6
572	200QJ80 - 34		34	11	25.6		3 × 10
573	200QJ80 - 51		51	18.5	41.3		3 × 16
574	200QJ80 - 68		68	25	54.5		3 × 16
575	200QJ80 - 85		85	30	65.4		3 × 16
576	200QJ80 - 102		102	37	78.7		3 × 25
577	200QJ80 - 119		119	45	95.8		3 × 25
578	200QJ80 - 136		136	55	116.4		3 × 35
579	200QJ80 - 153		153	55	116.4		3 × 50
580	200QJ80 - 170	80	170	63	133.3	4	3 × 50
581	200QJ80 - 187		187	75	156.8		3 × 70
582	200QJ80 - 204		204	75	156.8		3 × 70
583	200QJ80 - 221		221	90	187.1		3 × 70
584	200QJ80 - 238		238	90	187.1		3 × 70

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
585	200QJ80 - 255	50	255	110	228.6	4	3 × 95
586	200QJ80 - 272		272	110	228.6		3 × 95
587	200QJ80 - 11		11	4	10.0		3 × 2. 5
588	200QJ80 - 22		22	7.5	18.0		3 × 4
589	200QJ80 - 33		33	11	25.6		3 × 6
590	200QJ80 - 44		44	15	34.3		3 × 6
591	200QJ80 - 55		55	18.5	41.3	2.5	3 × 6
592	200QJ80 - 66		66	22	48.5		3 × 10
593	200QJ80 - 77		77	30	65.4		3 × 16
594	200QJ80 - 88		88	30	65.4		3 × 16
595	200QJ80 - 99		99	37	78.7		3 × 16
596	200QJ80 - 110		110	37	78.7		3 × 16
597	200QJ80 - 121		121	45	95.8	3	3 × 16
598	250QJ32 - 138	32	138	22	47.4		3 × 10
599	250QJ32 - 161		161	25	53.5		3 × 16
600	250QJ32 - 184		184	30	63.8		3 × 16
601	250QJ32 - 207		207	37	77.8		3 × 25
602	250QJ32 - 230		230	37	77.8		3 × 25
603	250QJ32 - 253		253	45	93.5		3 × 35
604	250QJ32 - 276		276	45	93.5	3	3 × 50
605	250QJ32 - 300		300	55	114.3		3 × 50
606	250QJ32 - 322		322	55	114.3		3 × 50
607	250QJ32 - 345		345	63	129.4		3 × 70
608	250QJ32 - 368		368	63	129.4		3 × 70
609	250QJ32 - 391		391	63	129.4		3 × 95
610	250QJ32 - 414		414	75	154.1	40	3 × 95
611	250QJ32 - 437	40	437	75	154.1		3 × 95
612	250QJ32 - 460		460	75	154.1		3 × 120
613	250QJ32 - 483		483	90	182.8		3 × 150
614	250QJ32 - 506		506	90	182.8		3 × 150
615	250QJ32 - 529		529	90	182.8		3 × 150
616	250QJ32 - 552		552	90	182.8		3 × 150
617	250QJ32 - 575		575	110	222.1		3 × 185
618	250QJ32 - 598		598	110	222.1		3 × 185
619	250QJ32 - 621		621	110	222.1		3 × 240
620	250QJ32 - 644		644	110	222.1		3 × 240
621	250QJ32 - 667		667	110	222.1		3 × 240
622	250QJ32 - 690		690	110	222.1		3 × 240
623	250QJ32 - 713		713	125	251.0		3 × 240
624	250QJ32 - 736		736	125	251.0		3 × 300
625	250QJ32 - 759		759	125	251.0		3 × 300
626	250QJ32 - 782		782	125	251.0		3 × 300
627	250QJ32 - 805	40	805	140	277.8		3 × 400
628	250QJ32 - 828		828	140	277.8		3 × 400
629	250QJ32 - 851		851	140	277.8		3 × 400
630	250QJ32 - 874		874	140	277.8		3 × 400
631	250QJ32 - 897		897	140	277.8		3 × 400
632	250QJ32 - 920		920	160	315.7		3 × 400
633	250QJ40 - 126	40	126	25	53.5	40	3 × 10
634	250QJ40 - 147		147	30	63.8		3 × 16
635	250QJ40 - 168		168	37	77.8		3 × 25

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
636	250QJ40 - 189	40	189	37	77.8	3	3 × 25
637	250QJ40 - 210		210	45	93.5		3 × 35
638	250QJ40 - 231		231	45	93.5		3 × 35
639	250QJ40 - 252		252	55	114.3		3 × 50
640	250QJ40 - 273		273	55	114.3		3 × 50
641	250QJ40 - 294		294	63	129.4		3 × 70
642	250QJ40 - 315		315	63	129.4		3 × 70
643	250QJ40 - 336		336	75	154.1		3 × 95
644	250QJ40 - 357		357	75	154.1		3 × 95
645	250QJ40 - 378		378	75	154.1		3 × 95
646	250QJ40 - 399		399	90	182.8		3 × 120
647	250QJ40 - 420		420	90	182.8		3 × 120
648	250QJ40 - 441		441	90	182.8		3 × 120
649	250QJ40 - 462		462	90	182.8		3 × 120
650	250QJ40 - 483		483	90	182.8		3 × 150
651	250QJ40 - 504		504	110	222.1		3 × 185
652	250QJ40 - 525		525	110	222.1		3 × 185
653	250QJ40 - 546		546	110	222.1		3 × 185
654	250QJ40 - 567		567	110	222.1		3 × 185
655	250QJ40 - 588		588	110	222.1		3 × 185
656	250QJ40 - 609		609	125	251.0		3 × 240
657	250QJ40 - 630		630	125	251.0		3 × 240
658	250QJ40 - 651		651	125	251.0		3 × 240
659	250QJ40 - 672		672	140	277.8		3 × 300
660	250QJ40 - 693		693	140	277.8		3 × 300
661	250QJ40 - 714		714	140	277.8		3 × 300
662	250QJ40 - 735		735	140	277.8		3 × 300
663	250QJ50 - 20	50	20	5.5	13.5	4	3 × 4
664	250QJ50 - 40		40	9.2	21.8		3 × 4
665	250QJ50 - 60		60	13	30.1		3 × 6
666	250QJ50 - 80		80	18.5	41.0		3 × 6
667	250QJ50 - 100		100	22	47.4		3 × 10
668	250QJ50 - 120		120	25	53.5		3 × 10
669	250QJ50 - 140		140	30	63.8		3 × 16
670	250QJ50 - 160		160	37	77.8		3 × 25
671	250QJ50 - 180		180	45	93.5		3 × 25
672	250QJ50 - 200		200	45	93.5		3 × 25
673	250QJ50 - 220		220	55	114.3		3 × 35
674	250QJ50 - 240		240	55	114.3		3 × 50
675	250QJ50 - 260		260	63	129.4		3 × 50
676	250QJ50 - 280		280	63	129.4		3 × 50
677	250QJ50 - 300		300	63	129.4		3 × 70
678	250QJ50 - 320		320	75	154.1		3 × 70
679	250QJ50 - 340		340	90	182.8		3 × 95
680	250QJ50 - 360		360	90	182.8		3 × 95
681	250QJ50 - 380		380	90	182.8		3 × 95
682	250QJ50 - 400		400	90	182.8		3 × 120
683	250QJ50 - 420		420	110	222.1		3 × 150
684	250QJ50 - 440		440	110	222.1		3 × 150
685	250QJ50 - 460		460	110	222.1		3 × 150
686	250QJ50 - 480		480	110	222.1		3 × 150

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
687	250QJ50 - 500	50	500	110	222.1	4	3 × 185
688	250QJ50 - 520		520	125	251.0		3 × 185
689	250QJ50 - 540		540	125	251.0		3 × 185
690	250QJ50 - 560		560	125	251.0		3 × 240
691	250QJ50 - 580		580	140	277.8		3 × 240
692	250QJ50 - 600		600	140	277.8		3 × 240
693	250QJ50 - 620		620	140	277.8		3 × 240
694	250QJ50 - 640		640	160	315.7		3 × 300
695	250QJ50 - 660		660	160	315.7		3 × 300
696	250QJ50 - 680		680	160	315.7		3 × 300
697	250QJ80 - 20	80	20	7.5	18.0		3 × 4
698	250QJ80 - 40		40	15	34.3		3 × 6
699	250QJ80 - 60		60	22	47.4		3 × 10
700	250QJ80 - 80		80	30	63.8		3 × 16
701	250QJ80 - 100		100	37	77.8		3 × 16
702	250QJ80 - 120		120	45	93.5		3 × 16
703	250QJ80 - 140		140	55	114.3		3 × 25
704	250QJ80 - 160		160	55	114.3		3 × 25
705	250QJ80 - 180		180	63	129.4		3 × 35
706	250QJ80 - 200		200	75	154.1		3 × 50
707	250QJ80 - 210		210	90	182.8		3 × 70
708	250QJ80 - 240		240	90	182.8		3 × 70
709	250QJ80 - 270		270	110	222.1		3 × 95
710	250QJ80 - 300		300	110	222.1		3 × 95
711	250QJ80 - 330		330	125	251.0		3 × 120
712	250QJ80 - 360		360	140	277.8		3 × 150
713	250QJ80 - 390		390	160	315.7		3 × 185
714	250QJ80 - 420		420	160	315.7		3 × 185
715	250QJ80 - 450		450	185	365.1		3 × 240
716	250QJ80 - 480		480	185	365.1		3 × 240
717	250QJ80 - 510		510	185	365.1		3 × 300
718	250QJ100 - 18	100	18	7.5	18.0	5	3 × 4
719	250QJ100 - 36		36	15	34.3		3 × 6
720	250QJ100 - 54		54	25	53.5		3 × 10
721	250QJ100 - 72		72	30	63.8		3 × 16
722	250QJ100 - 90		90	45	93.5		3 × 16
723	250QJ100 - 108		108	45	93.5		3 × 16
724	250QJ100 - 126		126	55	114.3		3 × 25
725	250QJ100 - 144		144	63	129.4		3 × 35
726	250QJ100 - 162		162	75	154.1		3 × 35
727	250QJ100 - 180		180	90	182.8		3 × 50
728	250QJ100 - 198		198	90	182.8		3 × 50
729	250QJ100 - 226		226	110	222.1		3 × 70
730	250QJ100 - 255		255	110	222.1		3 × 95
731	250QJ100 - 283		283	125	251.0		3 × 120
732	250QJ100 - 311		311	140	277.8		3 × 150
733	250QJ100 - 340		340	160	315.7		3 × 185
734	250QJ100 - 368		368	160	315.7		3 × 185
735	250QJ100 - 396		396	185	365.1		3 × 240
736	250QJ100 - 424		424	185	365.1		3 × 240
737	250QJ125 - 16	125	16	9.2	21.8		3 × 4

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
738	250QJ125 - 32	125	32	18.5	41.0	5	3 × 6
739	250QJ125 - 48		48	25	53.5		3 × 10
740	250QJ125 - 64		64	37	77.8		3 × 16
741	250QJ125 - 80		80	45	93.5		3 × 16
742	250QJ125 - 96		96	55	114.3		3 × 25
743	250QJ125 - 112		112	63	129.4		3 × 35
744	250QJ125 - 128		128	75	154.1		3 × 35
745	250QJ125 - 144		144	90	182.8		3 × 50
746	250QJ125 - 160		160	90	182.8		3 × 50
747	250QJ125 - 176		176	110	222.1		3 × 70
748	250QJ125 - 188		188	110	222.1		3 × 70
749	250QJ125 - 211		211	125	251.0		3 × 95
750	250QJ125 - 235		235	140	277.8		3 × 95
751	250QJ125 - 258		258	140	277.8		3 × 120
752	250QJ125 - 282		282	160	315.7		3 × 150
753	250QJ125 - 305		305	160	315.7		3 × 150
754	250QJ125 - 329	140	329	185	365.1	5	3 × 185
755	250QJ125 - 352		352	185	365.1		3 × 185
756	250QJ140 - 15		15	9.2	21.8		3 × 4
757	250QJ140 - 30		30	18.5	41.0		3 × 6
758	250QJ140 - 45		45	30	63.8		3 × 16
759	250QJ140 - 60		60	37	77.8		3 × 16
760	250QJ140 - 75		75	45	93.5		3 × 16
761	250QJ140 - 90		90	55	114.3		3 × 25
762	250QJ140 - 105		105	63	129.4		3 × 35
763	250QJ140 - 120		120	75	154.1		3 × 35
764	250QJ140 - 135		135	90	182.8		3 × 50
765	250QJ140 - 150		150	90	182.8		3 × 50
766	250QJ140 - 165		165	110	222.1		3 × 50
767	250QJ140 - 180		180	110	222.1		3 × 70
768	250QJ140 - 189		189	110	222.1		3 × 70
768	250QJ140 - 210		210	125	251.0		3 × 95
770	250QJ140 - 231		231	140	277.8		3 × 95
771	250QJ140 - 252		252	160	315.7		3 × 120
772	250QJ140 - 273		273	185	365.1	6	3 × 150
773	250QJ140 - 294		294	185	365.1		3 × 185
774	250QJ140 - 315		315	200	394.6		3 × 240
775	250QJ150 - 20	150	20	15	34.3	5	3 × 6
776	250QJ150 - 40		40	30	63.8		3 × 16
777	250QJ150 - 60		60	45	93.5		3 × 16
778	250QJ150 - 80		80	55	114.3		3 × 25
779	250QJ150 - 100		100	63	129.4		3 × 35
780	250QJ150 - 120		120	75	154.1		3 × 35
781	250QJ150 - 140		140	90	182.8		3 × 50
782	250QJ150 - 160		160	110	222.1		3 × 50
783	250QJ150 - 180		180	125	251.0		3 × 70
784	250QJ150 - 200		200	140	277.8		3 × 95
785	250QJ150 - 220		220	160	315.7		3 × 95
786	250QJ150 - 240		240	160	315.7		3 × 120
787	250QJ150 - 260		260	185	365.1		3 × 150

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
788	250QJ150 - 280	150	280	185	365.1	6	3 × 150
799	250QJ150 - 300		300	200	394.6		3 × 185
790	250QJ160 - 15	160	15	11	25.6	5	3 × 6
791	250QJ160 - 30		30	22	47.4		3 × 10
792	250QJ160 - 45		45	37	77.8		3 × 16
793	250QJ160 - 60		60	45	93.5		3 × 16
794	250QJ160 - 75		75	55	114.3		3 × 25
795	250QJ160 - 18		18	13	30.1		3 × 6
796	250QJ160 - 36		36	25	53.5		3 × 10
797	250QJ160 - 54		54	37	77.8		3 × 16
798	250QJ160 - 72		72	55	114.3		3 × 25
899	250QJ160 - 90		90	63	129.4		3 × 35
800	250QJ200 - 20	200	20	18.5	41.0	6	3 × 6
801	250QJ200 - 40		40	37	77.8		3 × 16
802	250QJ200 - 60		60	55	114.3		3 × 25
803	250QJ200 - 80		80	75	154.1		3 × 35
804	250QJ200 - 100		100	90	182.8		3 × 50
805	250QJ200 - 120		120	110	222.1		3 × 50
806	250QJ250 - 22	250	22	22	47.4	8	3 × 10
807	250QJ250 - 44		44	45	93.5		3 × 16
808	250QJ250 - 66		66	75	154.1		3 × 35
809	250QJ250 - 88		88	90	182.8		3 × 50
810	250QJ250 - 110		110	110	222.1	5	3 × 50
811	250QJ250 - 132		132	140	277.8		3 × 70
812	250QJ250 - 154		154	160	315.7		3 × 95
813	300QJ140 - 21		21	13	30.1	5	3 × 6
814	300QJ140 - 42		42	25	53.5		3 × 10
815	300QJ140 - 63		63	37	77.8		3 × 16
816	300QJ140 - 84		84	55	114.3		3 × 25
817	300QJ140 - 105		105	63	129.4		3 × 35
818	300QJ140 - 126		126	75	154.1		3 × 35
819	300QJ140 - 147		147	90	182.8		3 × 50
820	300QJ140 - 168	140	168	110	222.1		3 × 50
821	300QJ140 - 189		189	110	222.1		3 × 70
822	300QJ140 - 210		210	125	252.4		3 × 95
823	300QJ140 - 231		231	140	282.7		3 × 95
824	300QJ140 - 252		252	160	321.2		3 × 120
825	300QJ140 - 273		273	185	367.1		3 × 150
826	300QJ140 - 294		294	185	367.1	6	3 × 185
827	300QJ140 - 315		315	220	436.6		3 × 240
828	300QJ140 - 336		336	220	436.6		3 × 240
829	300QJ140 - 357		357	220	436.6		3 × 240
830	300QJ160 - 25	160	25	18.5	41.0	5	3 × 6
831	300QJ160 - 50		50	37	77.8		3 × 16
832	300QJ160 - 30		30	22	47.4		3 × 10
833	300QJ160 - 60		60	45	93.5		3 × 16
834	300QJ160 - 90	200	90	63	129.4		3 × 35
835	300QJ200 - 15		15	13	30.1		3 × 6
836	300QJ200 - 30		30	25	53.5		3 × 10
837	300QJ200 - 140		140	125	252.4		3 × 70
838	300QJ200 - 160		160	140	282.7		3 × 70

PERFORMANCE PARAMETERS

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
839	300QJ200 - 180	200	180	160	321.2	6	3 × 95
840	300QJ200 - 200		200	185	367.1		3 × 120
841	300QJ200 - 220		220	220	436.6		3 × 150
842	300QJ200 - 240		240	220	436.6		3 × 150
843	300QJ200 - 260		260	220	436.6		3 × 150
844	300QJ200 - 280		280	250	496.1		3 × 240
845	300QJ200 - 300		300	280	552.5		3 × 240
846	300QJ210 - 25	210	25	25	53.5	6	3 × 10
847	300QJ210 - 50		50	45	93.5		3 × 16
848	300QJ230 - 20	230	20	22	47.4		3 × 10
849	300QJ230 - 40		40	45	93.5		3 × 16
850	300QJ230 - 60		60	63	129.4		3 × 35
851	300QJ230 - 80		80	90	182.8		3 × 50
852	300QJ250 - 15	250	15	18.5	41.0	8	3 × 6
853	300QJ250 - 30		30	37	77.8		3 × 16
854	300QJ250 - 24		24	30	63.8		3 × 16
855	300QJ250 - 48		48	55	114.3		3 × 25
856	300QJ250 - 72		72	90	182.8		3 × 50
857	300QJ320 - 28	320	28	45	93.5		3 × 16
858	300QJ320 - 56		56	75	154.1		3 × 35
859	300QJ320 - 84		84	110	222.1		3 × 50
860	350QJ250 - 25	250	25	30	63.8	6	3 × 16
861	350QJ250 - 50		50	55	114.3		3 × 25
862	350QJ250 - 75		75	90	182.8		3 × 50
863	350QJ250 - 100		100	110	222.1		3 × 50
864	350QJ250 - 125		125	140	282.7		3 × 70
865	350QJ320 - 30	320	30	45	93.5	8	3 × 16
866	350QJ320 - 60		60	90	182.8		3 × 50
867	350QJ320 - 90		90	125	252.4		3 × 70
868	350QJ320 - 120		120	160	321.2		3 × 95
869	350QJ320 - 20		20	30	63.8		3 × 16
870	350QJ320 - 40		40	63	129.4		3 × 35
871	400QJ400 - 50	400	50	90	182.8	8	3 × 50
872	400QJ500 - 20	500	20	45	93.5		3 × 16
873	400QJ500 - 40		40	90	182.8		3 × 50
874	400QJ500 - 80		80	185	367.1		3 × 120
875	500QJ640 - 28	640	28	90	182.8	12	3 × 50
876	600QJ1000 - 40	1000	40	185	367.1	14	3 × 120

LOW SPED PUMP PERFORMANCE PARAMETERS (1450RPM)

No.	Type	Flow (m³/h)	Head (m)	Power (kW)	Rated Current (A)	Dia. of outlet pipe (inch)	Recommended Cable Specifications (mm²)
839	300QJ200 - 180	200	180	160	321.2	6	3 × 95
840	300QJ200 - 200		200	185	367.1		3 × 120
841	300QJ200 - 220		220	220	436.6		3 × 150
842	300QJ200 - 240		240	220	436.6		3 × 150
843	300QJ200 - 260		260	220	436.6		3 × 150
844	300QJ200 - 280		280	250	496.1		3 × 240
845	300QJ200 - 300		300	280	552.5		3 × 240
846	300QJ210 - 25	210	25	25	53.5	6	3 × 10
847	300QJ210 - 50	230	50	45	93.5		3 × 16
848	300QJ230 - 20		20	22	47.4		3 × 10
849	300QJ230 - 40		40	45	93.5		3 × 16
850	300QJ230 - 60		60	63	129.4		3 × 35
851	300QJ230 - 80		80	90	182.8		3 × 50
852	300QJ250 - 15	250	15	18.5	41.0	8	3 × 6
853	300QJ250 - 30		30	37	77.8		3 × 16
854	300QJ250 - 24		24	30	63.8		3 × 16
855	300QJ250 - 48		48	55	114.3		3 × 25
856	300QJ250 - 72		72	90	182.8		3 × 50
857	300QJ320 - 28	320	28	45	93.5		3 × 16
858	300QJ320 - 56		56	75	154.1	6	3 × 35
859	300QJ320 - 84		84	110	222.1		3 × 50
860	350QJ250 - 25	320	25	30	63.8		3 × 16
861	350QJ250 - 50		50	55	114.3		3 × 25
862	350QJ250 - 75		75	90	182.8		3 × 50
863	350QJ250 - 100		100	110	222.1		3 × 50
864	350QJ250 - 125		125	140	282.7		3 × 70
865	350QJ320 - 30	320	30	45	93.5	8	3 × 16
866	350QJ320 - 60		60	90	182.8		3 × 50
867	350QJ320 - 90		90	125	252.4		3 × 70
868	350QJ320 - 120		120	160	321.2		3 × 95
869	350QJ320 - 20		20	30	63.8		3 × 16
870	350QJ320 - 40		40	63	129.4		3 × 35
871	400QJ400 - 50	400	50	90	182.8	8	3 × 50
872	400QJ500 - 20	500	20	45	93.5		3 × 16
873	400QJ500 - 40		40	90	182.8		3 × 50
874	400QJ500 - 80		80	185	367.1		3 × 120
875	500QJ640 - 28	640	28	90	182.8	12	3 × 50
876	600QJ1000 - 40	1000	40	185	367.1	14	3 × 120

Notes.

- (1) The control switch model can be used with the corresponding power DZ15-40 air switch, QJ series autotransfer reduced voltage starter (cabinet), JJ1B series autotransfer reduced voltage starter protection cabinet.
- (2) The rated current and recommended supporting cable specifications in the technical parameters table are technical data when 380V, and when the power supply voltage is 660V, the rated current and recommended cable specifications are divided by a factor of 1.73 .
- (3) When the user's power supply allows, 18.5kW, 22kW and 25kW can use KBZ type starter protection cabinet.
- (4) The content of this material is subject to change without notice.
- (5) The company does not make any guarantee for any misunderstanding that may be caused by users in this material.

START,RUN AND STOP

1.start

(1) Measure the dielectric resistance of the motor's winding to ground with a 500V megohm meter, it should not be below 5 megohm.

(2) After starting, see if both voltage and current are within the set range and there is any abnormal sound or vibration with the movement, settle it on time if not.

2.Run

Often check the voltage, current, flow and head during running of the electric pump and stop running at once in case of one of the followings.

- (1)The current surpasses the rated value under the rated voltage.
- (2) A big lowering with the flow when it is in the normal condition under the rated head.
- (3) The dielectric resistance is below 0.5 megohm.
- (4) Water is out of the pump at intervals.
- (5) A sudden sound or a bigger vibration with the electric pump.
- (6) The protective switch frequently trips.

3.Stop

- (1) To stop means to turn off the power. Do not restart until in 5 minutes or longer so as to prevent a too high temperature rise with the motor.
- (2) Do not stop use of the protective switch and the way to use an aluminum or copper wire or enlarge the fuse is very dangerous.

MAINTENANCE AND STORAGE

- 1.Manage to have the electric pump run under the normal owrk conditions.
- 2.Use valves to ad just the floe and head and do not run in overload.
- 3.Take an overhaul of the electric pump once every 2500h running.
- 4.Removal of the electric pump unit:

Cut off the lead-in wire and cable connections, remove the wire guard board and water filter screen, screw out the linking seat's bolt between both water fnlet node and motor and the knook-wine on the clutch and separate both motor and water pump to take out the clutch.

5.Removal of the water pump

Remove the water inlet node—conical sleeve (lightly knock it with a removing tube)—impeller—guide casing—upper guide casing—check valve in turn.

6.Removal of the motor

Take out the voltage adjusting coven, drain the water on the voltage ad justing film out, place the motor horizontally on a wood stand, take out the sand thrower, remove the linking seat and then remove the foundation—thrust bearing—thrust disc—lower guide bearing seat—rotor—upper guide bearing seat in turn.

7.Assembly of the electric pump unit

Clear up iron rust, sludge and filth, mount the pins on both motor and pump, link both with the clutch and put on the knock wire, coat the Jointed face between both water inlet node and linking seat with grease and joint both with bolts, then connect

MAINTENANCE AND STORAGE

both lead-in wire and cable.

8.Assembly order of the motor

Stator assembly—lower guide bearing seat assembly—rotor assembly—thrust disc—left buckling nut — thrust bearing assembly — foundation assembly—upper guide bearing seat assembly---oil sealing of frame——sand thrower---linking seat, adjust the bolt to have the motor shaft in line with the requirement, then put on the voltage adjusting film and cover.

9.Assembly of the water pump

Fix both shaft and water inlet node on the positioning seat and both impeller and conical sleeve on the shaft with the removing tube, then mount the guide casing, impeller,,in turn, finally the guide casing, check vlave etc.

10.Storage of the electric pump

To store it, first let the pure water inside of the motor completely out, clean dry the surface, coat grease on the shaft extension, bind the cable and the stored plaoe should not have any dust and corrosive substances, with the room temperature not below 0°C and over 30°C.

INSTALLATION OF THE UNIT

1.Notice at installation:

- (1) The pump's water inlet must be under the dynamic water level by 1m, but the submersed depth has not to be over 70m under the static level and the distance from the lower side of the motor to the well bottom must be over 1m at least. (See the attached figure)
- (2) When the rated power is less than or equal to 15kW C25kW if allowed by the power supply), the motor uses full-voltage starting.
- (3) When the rated power is larger than 15kW, the motor uses step-down starting.
- (4) The operation surroundngs have to be in line with the conditions set in this instructions.

2.Preparation before installation:

- (1) First check if the well's diameter, static water depth and power supply system conform with the conditions for use.
- (2) Check if the electric pump moves flexibly, with or without Jamming and use a clutch to link both separately mounted motor and electric pump, then tighten the forcing screw.
- (3) Open the exhaust and water filling screw corks to fill the inside of the motor with pure water. Pay attention to avoiding false fullness, putting on the screw conks and water leaking.
- (4)Measure the motor's insulation with a 500V megohm meter, it should not be below 150 megohm.
- (5) Make ready the corresponding lifting implements, such as tripod, chain hoist etc.
- (6) Place both protective switch and starting equipment to instantaneously start the motor (not over 1s) to see if its moving direction is identical to that on the label and change any two connections of the power supply if not, then place the wire guard board and the water filter screen to make ready to put it into the well. Pour pure water into the outlet of the pump and wait for the water to flow out of the inlet, then start the trial moving of both motor and pump after being linked together.

3.Installation:

- (1) See the attached figure for the details. First mount one node of pump nipple on the water outlet of the pump and clamp it with a clip board, lift it and then have it fall into the well to have the clip board seated on the well terrace.

INSTALLATION OF THE UNIT

(2) Use another clip board to clamp another node of water transport pipe, then lift it and have it fall down to connect it with the flange of the pump nipple with a rubber pad in between, tighten the screws on the diagonal line at the same time. Get the chain hoist up to remove the first clip board to have the pump pipe down onto the well terrace. Carry out installation and put-into-well in turn till all finished, then place the well cover and leave the final clip board on the coven without removal.

(3) Mount the angle pipe, gate valve, water outlet etc. and place the related rubber pad for sealing.

(4) Fix the cable in the notch on the flange of the water transport pipe with binding nope on every node and take care when to put it into the well not to let it injured by collision.

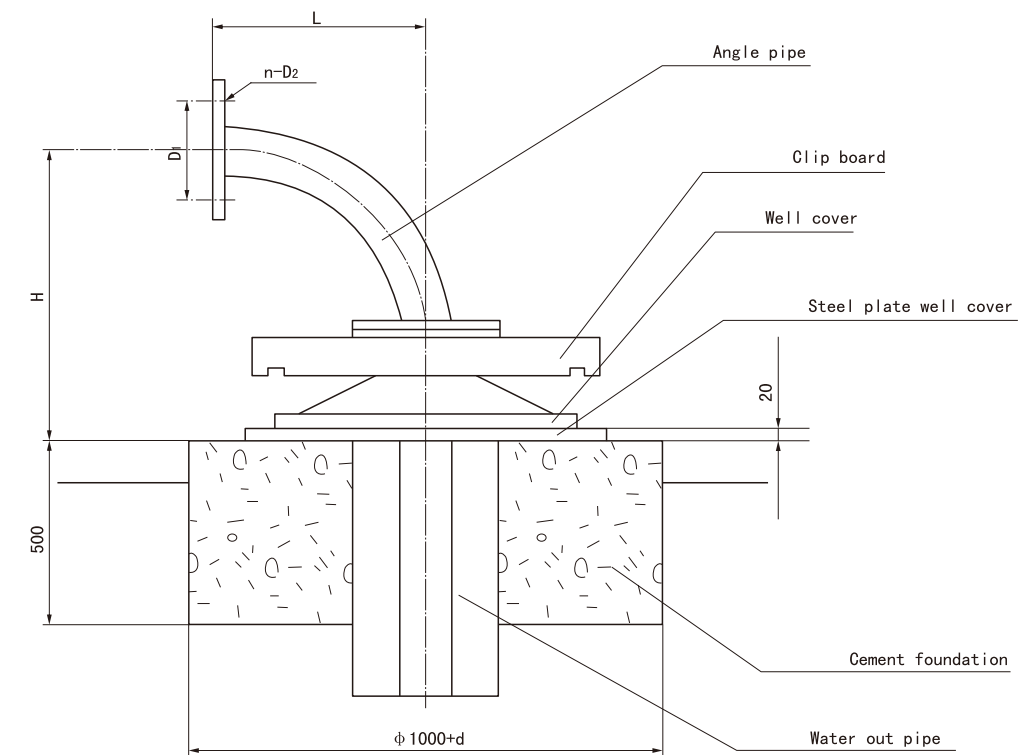
(5) Try some way to overcome jamming when to put the pump into the well and do not force it down so as to avoid it from being jammed.

(6) Never have any person operate inside of the well during installation.

(7) Mount both protective switch and starting equipment after the distribution plate, where a voltmeter, ammeter and indicator are fitted, and place it in a proper place Inside of the well house.

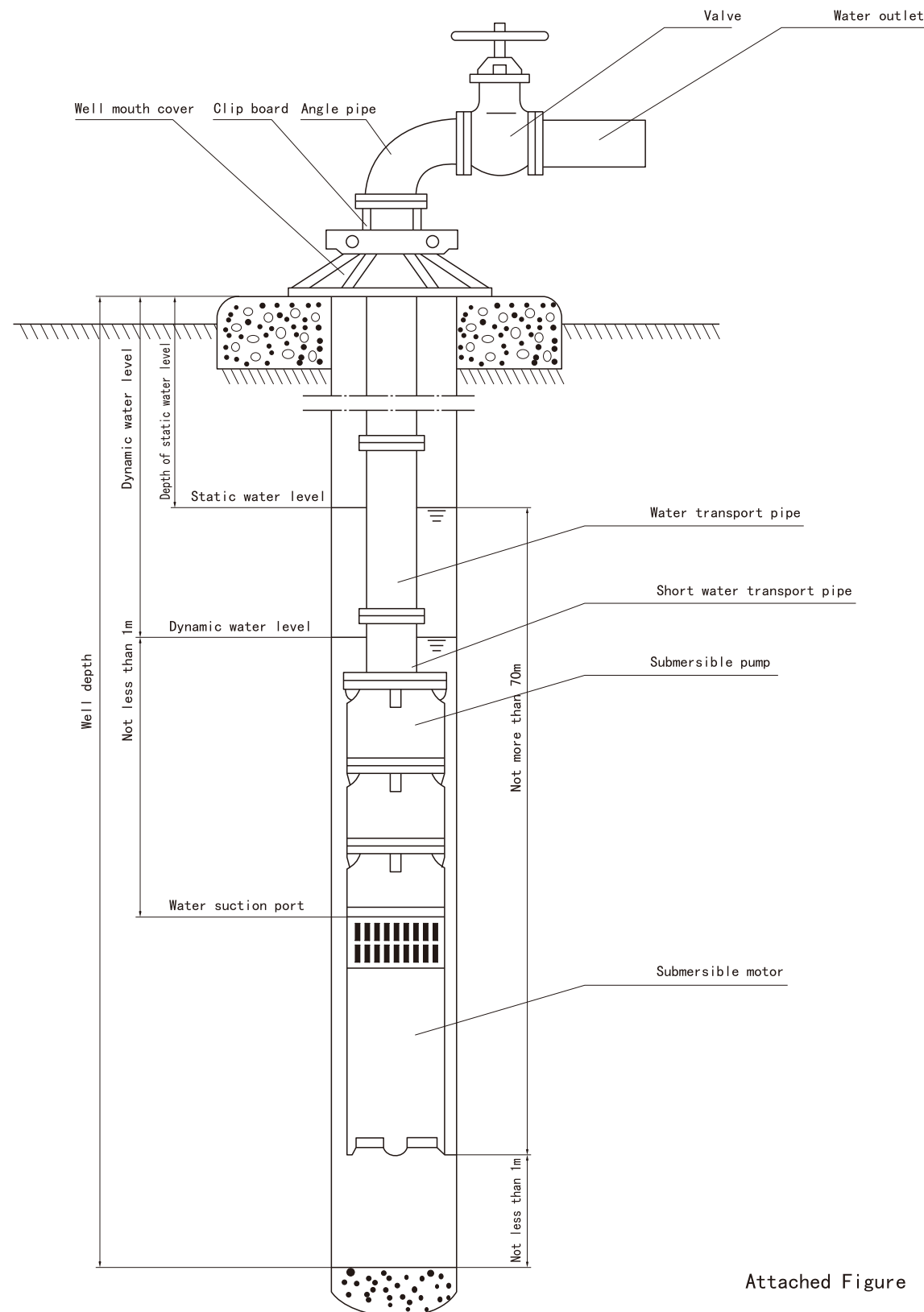
(8) Use the forced measure to “have the iron wire binding from the motor’s foundation to the pump nipple” so as to prevent any accident.

INSTALLATION OF THE UNIT



Dia. of water out pipe (inch)	H (mm)	L (mm)	D ₁ (mm)	n-D ₂ (mm)	d (mm)	remark
1.5A	355	159	110	4-Φ18	O.D. of well wall pipe	Suitable for 100QJ13.2, 100QJ5, 150QJ5
2	440		145			
2A	433					Suitable for 150QJ10,150QJ20
2.5	440					
2.5GG	407					Suitable for high head
2.5A	435					Suitable for 150QJ32, 150QJ25, 175QJ32, 1750QJ40
3	442		160			
3GG	407					Suitable for high head
4	443	161	180	8-Φ18		
5	450	171	210			
6	474	177	240	8-Φ23		
8	547	225	295			

INSTALLATION OF THE UNIT



Attached Figure

CONDITIONS FOR REPAIR, REPLACEMENT AND RETURN

Users are required to bring the invoice and certificate with the submersible well pump when coming to this Co. for repairing it due to a failure, otherwise appraisal is needed.

1. There is a one-year warranty for the various electric pumps made in this Co. subject to correct storage and use by the users upon the operation instructions, which is started from the date on the invoice issued by the sales department. Free repair, replacement or return is available for the failure due to the manufacturing quality, exclusive of the normal wear of the easily-worn-out parts.

2. Free repair, replacement and return are not suitable for the followings:

(1) Use of the electric pump does not conform with any one of the conditions for use or the other liquid out of the contract stated in the operation instructions.

(2) Any problem caused by improper installation or operation.

(3) Any damages caused due to corrosion and electrolysis.

(4) Special order upon contract.

3. During the warranty period, users are not allowed to remove the motor or water upon without a written consent of this Co., otherwise no free repair, replacement or return is available.

FAILURE AND TROUBLESHOOTING

Failure	Causes	Troubleshooting
No water gets up or insufficient water out	1.Dynamic water level below the pump's suction inlet 2.Water transport pipe leaks seriously or comes off 3.Rotor and shaft loose 4.Some impellers loose 5.Reversed moving of motor 6.Pipeline blocked up	1.Increase water transport pipes 2.Replace water transport pipe 3.Replace rotor 4.Reassemble impellers 5.Change power supply connections 6.Get rid of block-up
Pump's flow lowers	1.Seal ring seriously worn out 2.Water filter screen, guide casing, impeller geat blocked up 3.Lower voltage and frequency 4.Dynamic water level lowers to surpass rated head	1.Replace seal ring 2.Get rid of block-up 3.Stop and restart when voltage and frequency get to the set values 4.Replace it with a high head pump
The unit severely shocks on ammeter's indicator swings due to a too heavy current	1.Pump shaft or motor shaft bent 2.Pump shaft, motor shaft and bearing seriously worn out 3.Thrust bearing worn out or damaged 4.Thrust disc's fixing nut damaged 5.Thrust disc broken	1.Repair or replace shaft 2.Replace it 3.Replace it 4.Repair shaft head, replace nut 5.Replace it

FAILURE AND TROUBLESHOOTING

Failure	Causes	Troubleshooting
The unit severely shocks on ammeter's indicator swings due to a too heavy current	7.Impeller, rotor unbalanced or rotor's bar broken 8.Linking bolt loose 9.Low head and big flow with water pump, motor overloaded 10.Insufficient water quantity surged from the well, in-terval water out	6.Find out the cause to repair it 7.Make dynamic balance again or replace rotor 8. Tighten it 9.Add a gate valve to control flow to the running at the work condition point 10.Add a gate valve to control water out quantity
Motor unalbe to start with "buzzing" sound	1.Phase broken 2.Too low voltage 3.Bearing holds shaft 4.Rusted jamming between seal rings of impeller 5.Impeller unable to move jammed by foreign matters inside of pump	1.Check line or starting equipment 2.Adjust it 3.Repair shaft and bearing 4.Sledge pump to have it run or remove it to reassemble 5.Take out foreign matters
Too low dielectric resistance, winding burnt out	1.Water into the connection 2. Winding destroyed 3.Cable broken 4.Lack of water inside of motor 5.Running with lack of phase 6.Long time overloaded running 7.Motor submerged into muddy sand	1.Repair it 2.Wrap or replace it 3.Wrap it 4.Make sure it is full of water 5.Check line and equipment 6.Lower the load to have motor's current not over the set value on the nameplate 7.Mount it upon the installation requirements

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