

WQ SERIES

SUBMERSIBLE SEWAGE PUMP



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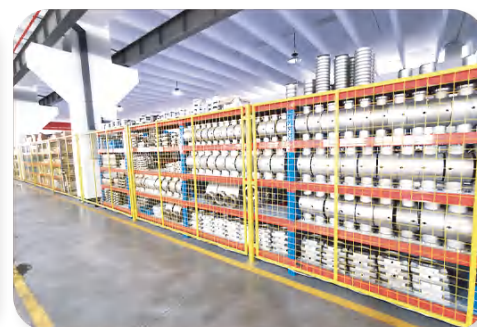
ABOUT aikon

Shanghai Pumping Tech International Co.,Ltd (Brand aikon) specialized in providing fluid solutions for industrial,commercial,agricultural,urban,municipal and other large facilities.We are established in 2009, engaged in Research , design, manufacture, sale distribution and service of electric drive and controller. Our company is located in the Shanghai, the main product is pumps, IoT, controllers, Industrial Cloud Platform.

We adhere to the tenet of "focusing on fluid control and dedicated to innovation." Our excellent reputation derives from providing practical, effective and cost -effective fluid solutions for each of our customers.

500+ Customers in 100+ countries
300+ Employees
2 YEARS Warranty

30000M² Facility area
1000000+ Inverters,Sensor&Pumps



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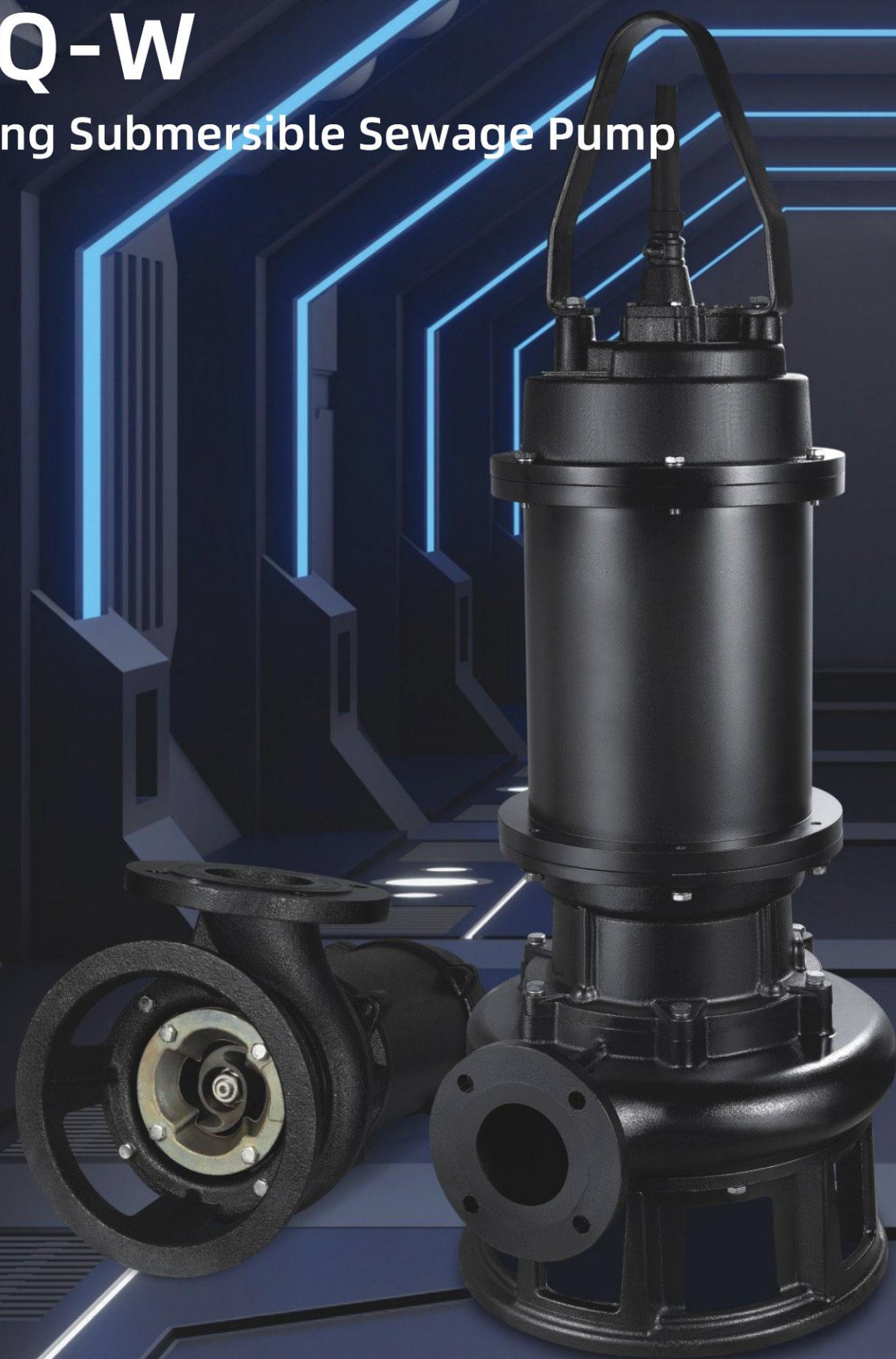
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WQ-W

Cutting Submersible Sewage Pump



CUTTING SUBMERSIBLE SEWAGE PUMP WQ-W

PRODUCT OVERVIEW

1. The WQ-W submersible sewage pump with cutting device features an alloy cutter and impeller made from 20CrNiMo material, which has been heat-treated to enhance toughness. The semi-open impeller design incorporates a rational cutting structure and hydraulic characteristics, effectively minimizing the risk of clogging. It boasts characteristics such as non-winding, strong flow passage capability, high flow rate, high head, and excellent cutting performance, enabling it to shred and discharge impurities like long fibers, plastics, paper, strips, cloth, straw, and ropes from waste water.
2. The designed submersible motor has an IP68 protection rating and F-class insulation. It provides effective submersible cooling with low actual temperature rise and long insulation life. For motors below 7.5 kW, an overload protector is installed to ensure automatic power disconnection in case of abnormal conditions.
3. The pump employs a dual mechanical seal system; for motors below 7.5 kW, an external skeleton oil seal is used. For motors above 11 kW, the motor shaft seal utilizes two to three stages of series mechanical seals, forming a multi-layer reliable sealing defense. One seal is located in the pump's medium to effectively prevent water from entering the oil chamber, while the other two seals are in the oil chamber to prevent oil from entering the motor cavity. The oil chamber is filled with suitable mechanical oil that lubricates and cools the friction surfaces of both independent mechanical seals, ensuring more reliable operation. Additionally, it helps dissipate heat from the lower bearing and some heat from the motor.
4. Some pumps feature a special cable manufacturing process that completely prevents water from entering the motor when the cable sheath is damaged or when the cable's front end is submerged in water.



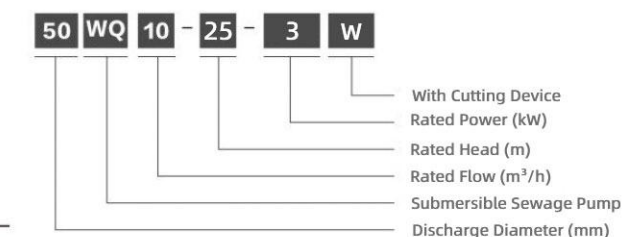
OPERATING CONDITIONS

1. Power Supply: 50Hz, three-phase 380V;
2. Medium Temperature: <40°C; Solid content volume ratio in conveyed medium <2%; Medium density <1200 kg/m³;
3. During operation, the minimum liquid level must not be lower than 2/3 of the motor height;
4. Not suitable for corrosive fluids and media containing corrosive particles;
5. The diameter of solid particles in the medium must not exceed the maximum allowable diameter.

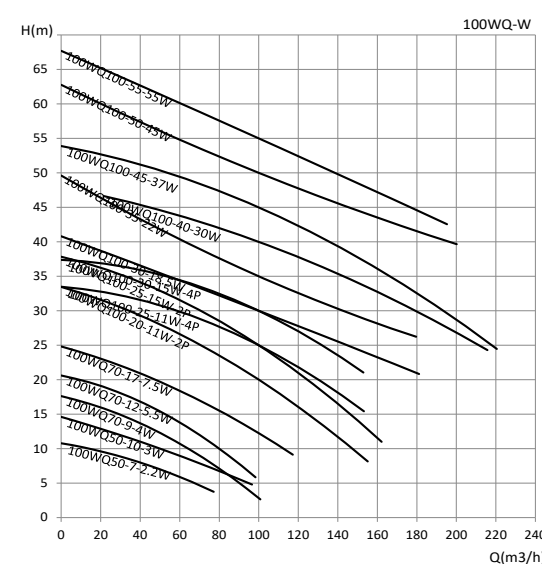
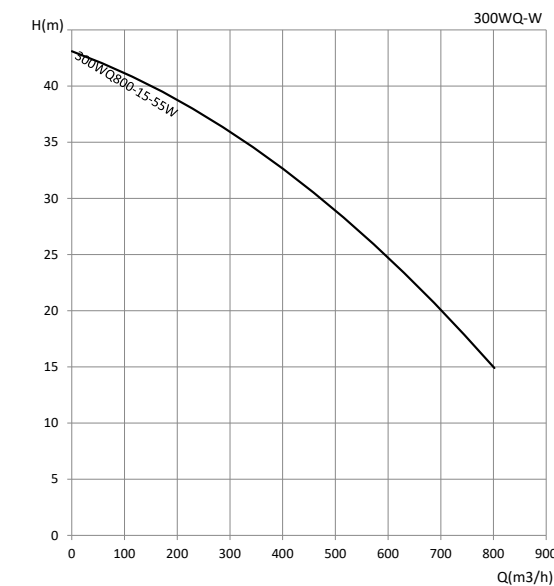
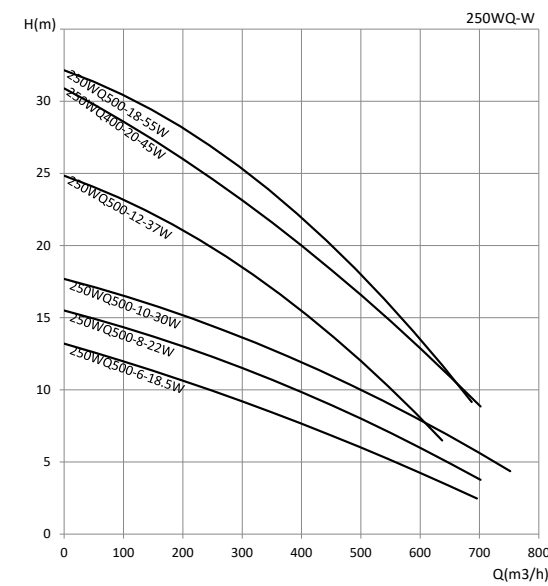
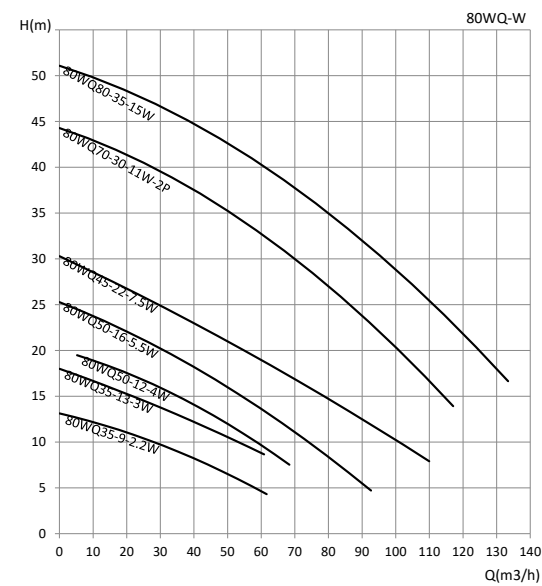
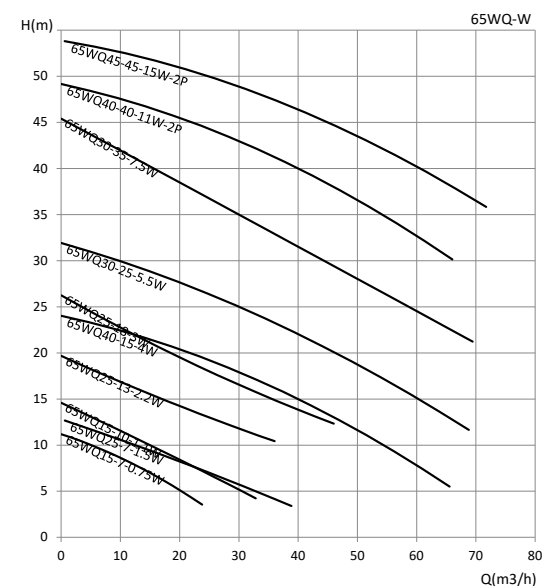
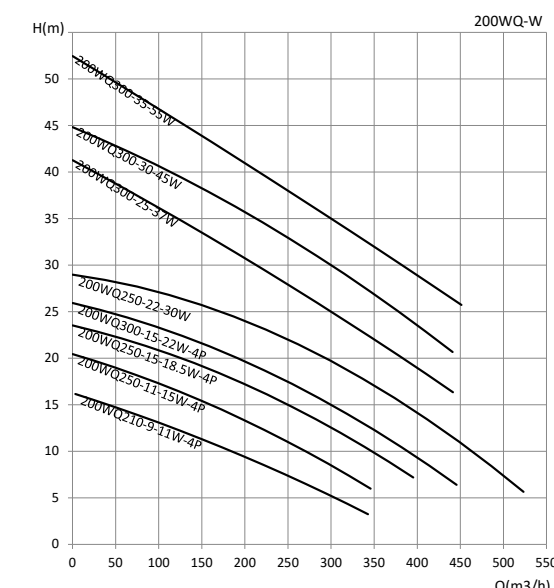
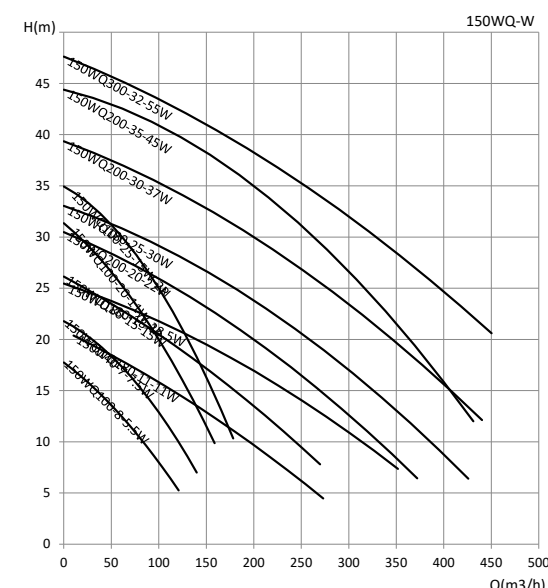
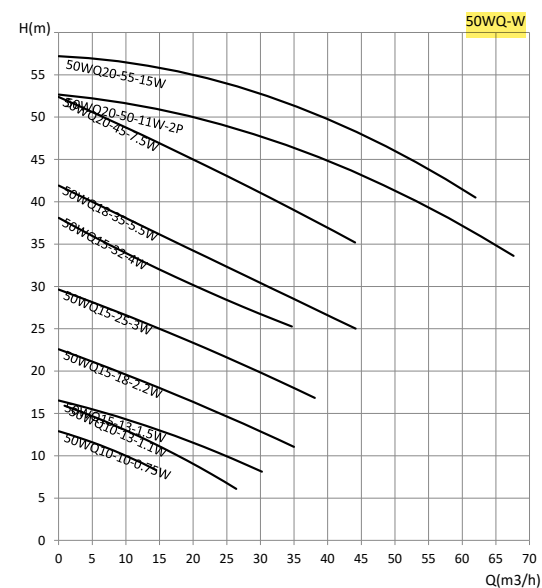
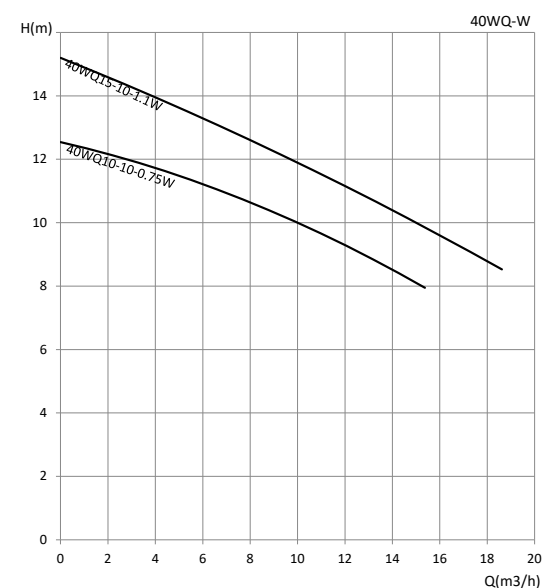
MAIN APPLICATIONS

1. The WQ-W submersible sewage pump with cutting device is primarily used for: Construction sites, engineering foundation work, municipal facilities;
2. Sewage discharge from basements of various high-rise buildings, civil defense tunnels, subways, and other underground levels;
3. Sewage treatment and circulating water transport for small to medium-sized enterprises;
4. Slurry pumping in industries such as food processing, papermaking, brewing, steelmaking, non-ferrous metals, leather production, textiles, pharmaceuticals, and cement manufacturing;
5. Pumping livestock manure in poultry farms, pig farms, various aquaculture settings, fish ponds for cleaning water bodies and septic tanks.

MODEL DESCRIPTION



PERFORMANCE CURVE



TECHNICAL PARAMETERS

Model	Rated Flow (m³/h)	Rated Head (m)	Rated Power (kW)	Rated Voltage (V)	Discharge Diameter (mm)	Rated Speed (r/min)
40WQ10-10-0.75W	10	10	0.75	380V	40	2830
40WQ15-10-1.1W	15	10	1.1	380V	40	2885
50WQ10-10-0.75W	10	10	0.75	380V	50	2860
50WQ10-13-1.1W	10	13	1.1	380V	50	2890
50WQ15-13-1.5W	15	13	1.5	380V	50	2850
50WQ15-18-2.2W	15	18	2.2	380V	50	2850
50WQ15-25-3W	15	25	3	380V	50	2845
50WQ15-32-4W	15	32	4	380V	50	2850
50WQ18-35-5.5W	18	35	5.5	380V	50	2850
50WQ20-45-7.5W	20	45	7.5	380V	50	2850
50WQ20-50-11W-2P	20	50	11	380V	50	2945
50WQ20-55-15W	20	55	15	380V	50	2960
65WQ15-7-0.75W	15	7	0.75	380V	65	2840
65WQ15-10-1.1W	15	10	1.1	380V	65	2885
65WQ25-7-1.5W	25	7	1.5	380V	65	2905
65WQ25-13-2.2W	25	13	2.2	380V	65	2860
65WQ25-18-3W	25	18	3	380V	65	2850
65WQ30-25-5.5W	30	25	5.5	380V	65	2850
65WQ30-35-7.5W	30	35	7.5	380V	65	2850
65WQ40-15-4W	40	15	4	380V	65	2850
65WQ40-40-11W-2P	40	40	11	380V	65	2900
65WQ45-45-15W-2P	45	45	15	380V	65	2955
80WQ35-9-2.2W	35	9	2.2	380V	80	2855
80WQ35-13-3W	35	13	3	380V	80	2860
80WQ45-22-7.5W	45	22	7.5	380V	80	2935
80WQ50-12-4W	50	12	4	380V	80	2850
80WQ50-16-5.5W	50	16	5.5	380V	80	2850
80WQ70-30-11W-2P	70	30	11	380V	80	2900
80WQ80-35-15W	80	35	15	380V	80	2900
100WQ50-7-2.2W	50	7	2.2	380V	100	2850
100WQ50-10-3W	50	10	3	380V	100	2870
100WQ70-9-4W	70	9	4	380V	100	2850
100WQ70-12-5.5W	70	12	5.5	380V	100	2850
100WQ70-17-7.5W	70	17	7.5	380V	100	2850
100WQ100-20-11W-2P	100	20	11	380V	100	2900
100WQ100-25-11W-4P	100	25	11	380V	100	1450
100WQ100-25-15W-2P	100	25	15	380V	100	2900
100WQ100-30-15W-4P	100	30	15	380V	100	1450
100WQ100-30-18.5W	100	30	18.5	380V	100	1475
100WQ100-35-22W	100	35	22	380V	100	1450
100WQ100-40-30W	100	40	30	380V	100	1480
100WQ100-45-37W	100	45	37	380V	100	1480
100WQ100-50-45W	100	50	45	380V	100	1485
100WQ100-55-55W	100	55	55	380V	100	1450
150WQ100-8-5.5W	100	8	5.5	380V	150	2850
150WQ100-20-11W-2P	100	20	11	380V	150	2900
150WQ100-25-15W-2P	100	25	15	380V	150	2900
150WQ140-7-7.5W	140	7	7.5	380V	150	2850

Model	Rated Flow (m³/h)	Rated Head (m)	Rated Power (kW)	Rated Voltage (V)	Discharge Diameter (mm)	Rated Speed (r/min)
150WQ180-11-11W	180	11	11	380V	150	1450
150WQ180-15-15W	180	15	15	380V	150	1450
150WQ180-18-18.5W	180	18	18.5	380V	150	1480
150WQ180-25-30W	180	25	30	380V	150	1450
150WQ200-20-22W	200	20	22	380V	150	1475
150WQ200-30-37W	200	30	37	380V	150	1450
150WQ200-35-45W	200	35	45	380V	150	1450
150WQ300-32-55W	300	32	55	380V	150	1490
200WQ210-9-11W-4P	210	9	11	380V	200	1460
200WQ250-11-15W-4P	250	11	15	380V	200	1450
200WQ250-15-18.5W-4P	250	15	18.5	380V	200	1450
200WQ250-22-30W	250	22	30	380V	200	1450
200WQ300-15-22W-4P	300	15	22	380V	200	1450
200WQ300-25-37W	300	25	37	380V	200	1450
200WQ300-30-45W	300	30	45	380V	200	1450
200WQ300-35-55W	300	35	55	380V	200	1485
250WQ400-20-45W	400	20	45	380V	250	1485
250WQ500-6-18.5W	500	6	18.5	380V	250	1475
250WQ500-8-22W	500	8	22	380V	250	1470
250WQ500-10-30W	500	10	30	380V	250	1475
250WQ500-12-37W	500	12	37	380V	250	1450
250WQ500-18-55W	500	18	55	380V	250	1450
300WQ800-15-55W	800	15	55	380V	300	1485