





# COMPANY PROFILE

In 2014, Zhejiang Hande Pump industry took the first step in the field of deep well pump manufacturing. After years of persistent pursuit and technological change, Hande Company developed from traditional deep well water pump to solar-energy water pump with its own national brand "HANDURO".

Handuro Company becomes more professional in manufacturing different kinds of deep well submersible water pump, centrifugal pump, solar water pumps and so on, which are sold out to Europe, Asia, America, Africa and other countries and regions. The pumps are widely used in human and livestock water use, farmland irrigation, domestic water use and urban industrial water use, construction site water supply etc..



# CONTENTS

## Drinking Water

Handuro solar water pumping systems have consistently delivered drinking water to homes, communities, and livestock for many years. There's no application more vital than providing drinking water. Thus, opting for a system like Handuro, known for its reliable and predictable delivery, is paramount.



## Power-Free Irrigation

With Handuro's solar water pumps, irrigation becomes hassle-free, eliminating the need for power line installations or concerns over power quality and availability to your fields. These pumps are compatible with any irrigation method, ensuring optimal system design.

Transitioning from diesel or gas-powered pumps? You're likely to witness a swift return on investment when you switch to a Handuro solar pump. These systems are free from fuel costs, engine maintenance, and have zero ongoing operational expenses.

For sites in need of irrigation but lacking power infrastructure, Handuro's solar pumping system can save you both the costs and the wait associated with traditional power setups. Choose Handuro for efficient, sustainable, and cost-effective solutions.

## Livestock Watering

Solar pumps have become the standard for supplying drinking water to livestock, offering the most cost-effective solution. Skip the hassle of windmill maintenance or powering remote pumps. Handuro's systems stand out as the industry's best, efficiently drawing from deep wells with minimal power. Trust in Handuro pumps—they're reliable and time-tested.



## Efficient Irrigation for Your Spaces

From nurturing your lawn and garden to cultivating vibrant fruits and vegetables, powering greenhouses, or even managing hydroponic systems, Handuro's range of solar pumps has got you covered.

These ultra-efficient, long-lasting pump systems cater to your watering needs without the hassle of running power lines. Choose Handuro for a sustainable, seamless watering experience.

## Leisure

### Eco-Friendly Pooling with Handuro SW

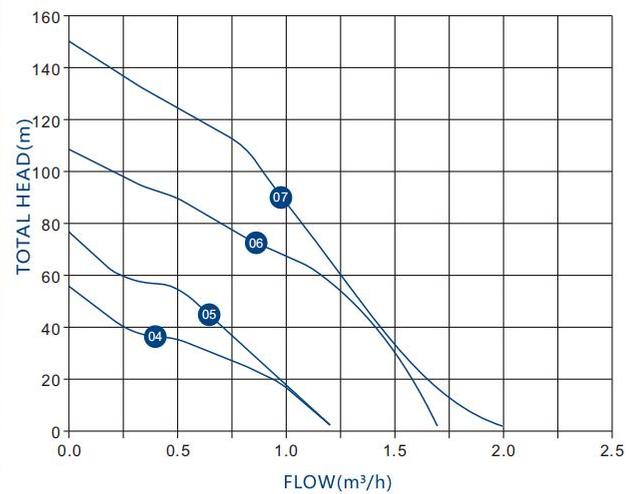
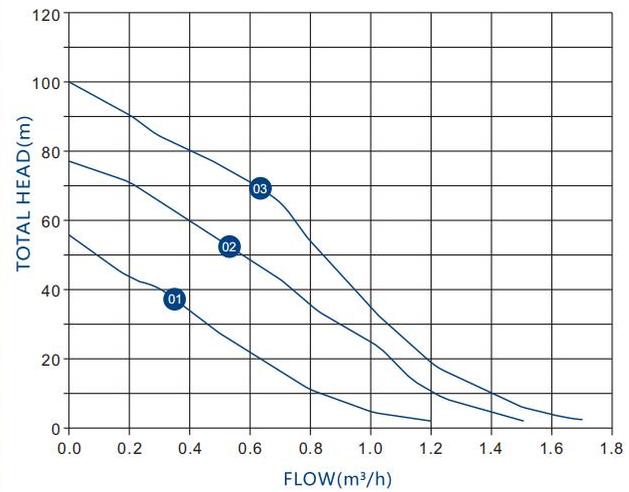
Pool pumps often rank second in household energy consumption, right behind air conditioning. Why not harness the sun, the very essence of leisure, for your pool's needs? With the Handuro SW pool pump, keep your pools pristine while slashing electricity costs. As the sun shines and invites more swimmers, it also powers the pump to circulate and filter more water. Ideal for both residential and commercial settings, the Handuro SW caters to most home pools solely on daytime solar power. Commercial setups can also benefit, using grid switchover or hybrid solutions. Dive into sustainability, and let your pool be powered by the sun!



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PERFORMANCE CURVES



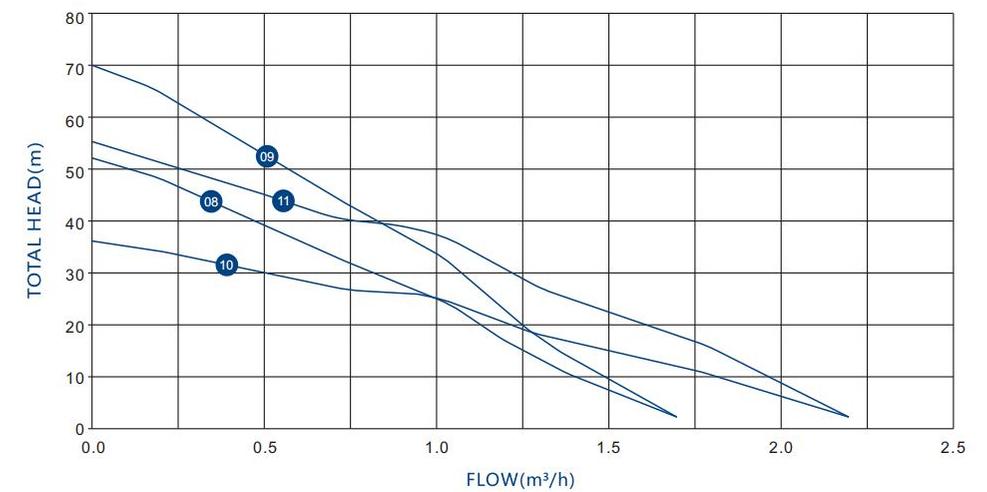
TECHNICAL DATA

NO.	Model	Power		Max. Flow	Max. Head	Outlet (Inch)	Cable	Solar Panels
		Kw	Hp					
1	HD-2SS1.2-56-24-120	0.12	0.16	1.2m³/h	56m	0.75"	1.5m	550W*1
2	HD-2SS1.5-77-24-210	0.21	0.28	1.5m³/h	77m	0.75"	1.5m	550W*1
3	HD-2SS1.7-100-48-500	0.5	0.67	1.7m³/h	100m	0.75"	1.5m	550W*2

NO.	Model	Power		Max. Flow	Max. Head	Outlet (Inch)	Cable	Solar Panels
		Kw	Hp					
4	HD-3SS1.2-56-24-120	0.12	0.16	1.2m³/h	56m	0.75"	2m	550W*1
5	HD-3SS1.2-77-24-210	0.21	0.28	1.2m³/h	77m	0.75"	2m	550W*1
6	HD-3SS1.7-109-48-500	0.5	0.67	1.7m³/h	109m	0.75"	2m	550W*2
7	HD-3SS2.0-150-72-750	0.75	1	2.0m³/h	150m	0.75"	2m	550W*3



MODEL DEFINITION

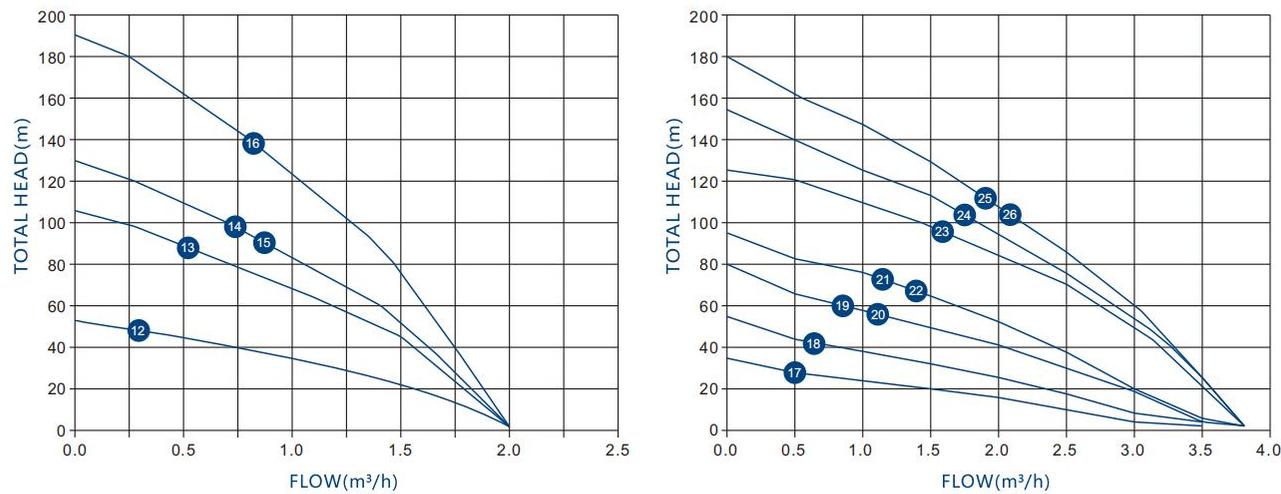


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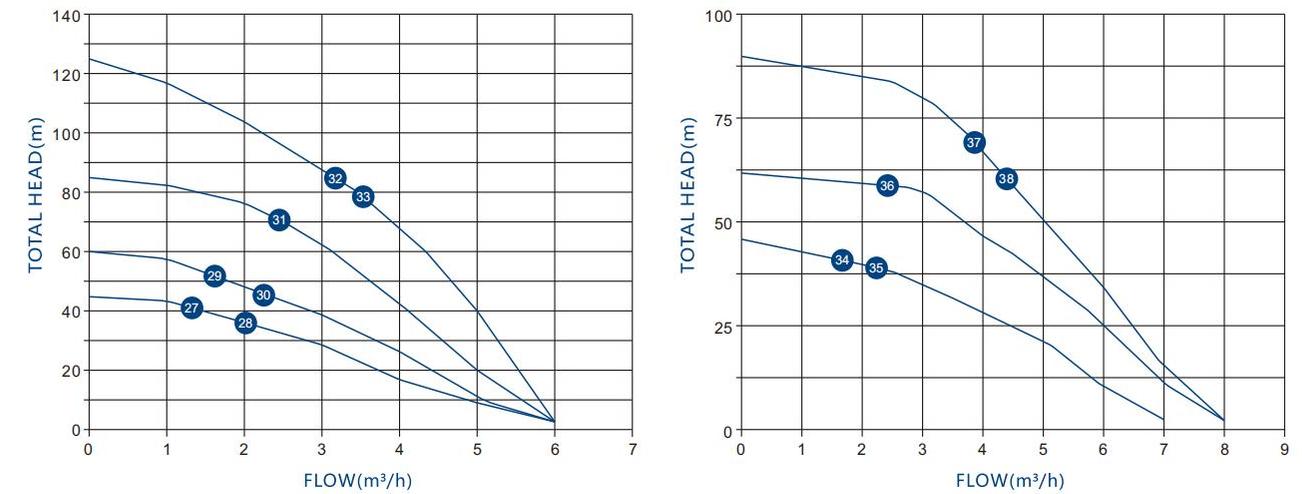
NO.	Model	Power		Max. Flow	Max. Head	Outlet (Inch)	Cable	Solar Panels
		Kw	Hp					
8	HD-2SC1.7-52-24-300	0.3	0.4	1.7m³/h	52m	0.75"	1.5m	550W*1
9	HD-2SC1.7-70-48-400	0.4	0.55	1.7m³/h	70m	0.75"	1.5m	550W*2
10	HD-2SC2.2-36-24-300	0.3	0.4	2.2m³/h	36m	0.75"	1.5m	550W*1
11	HD-2SC2.2-55-48-400	0.4	0.55	2.2m³/h	55m	0.75"	1.5m	550W*2



PERFORMANCE CURVES



PERFORMANCE CURVES

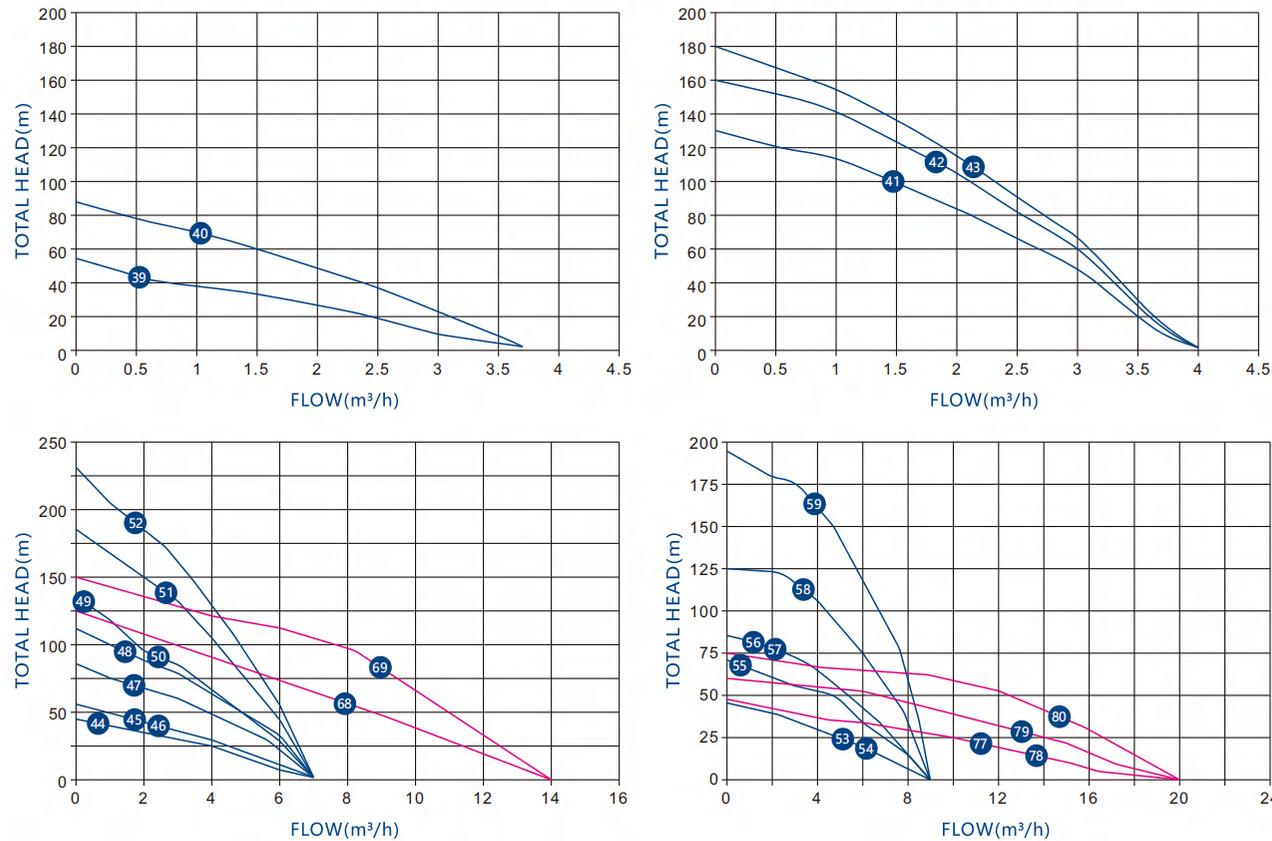


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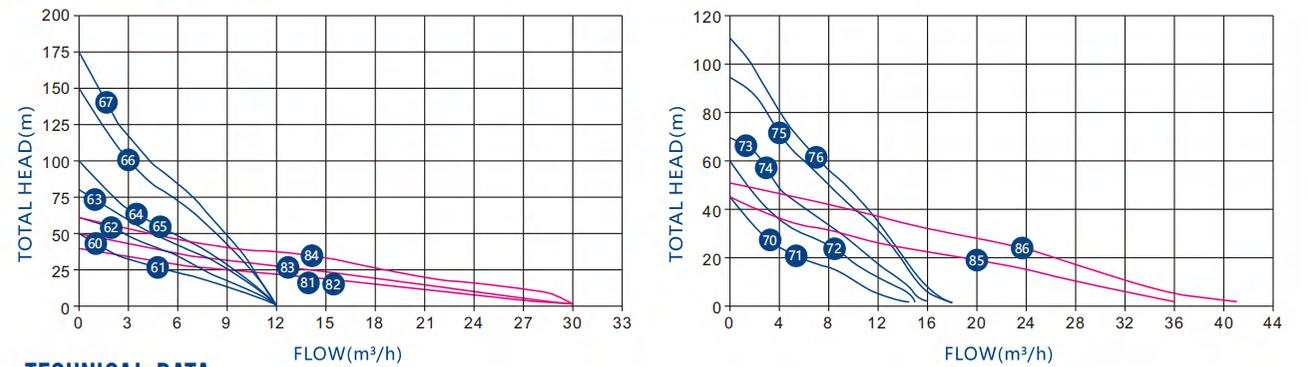
NO.	Model	Power		Max. Flow	Max. Head	Outlet (Inch)	Cable	Solar Panels
		Kw	Hp					
12	HD-3SC2-53-24-300	0.3	0.4	2m³/h	53m	1.25"	2m	550W*1
13	HD-3SC2-105-48-600	0.6	0.8	2m³/h	105m	1.25"	2m	550W*2
14	HD-3SC2-130-48-750	0.75	1	2m³/h	130m	1.25"	2m	550W*2
15	HD-3SC2-130-72-750	0.75	1	2m³/h	130m	1.25"	2m	550W*3
16	HD-3SC2-190-110-1100	1.1	1.5	2m³/h	190m	1.25"	2m	550W*3
17	HD-3SC3.5-35-24-300	0.3	0.4	3.5m³/h	35m	1.25"	2m	550W*1
18	HD-3SC3.8-55-48-400	0.4	0.55	3.8m³/h	55m	1.25"	2m	550W*2
19	HD-3SC3.8-80-48-600	0.6	0.8	3.8m³/h	80m	1.25"	2m	550W*2
20	HD-3SC3.8-80-72-600	0.6	0.8	3.8m³/h	80m	1.25"	2m	550W*3
21	HD-3SC3.8-95-48-750	0.75	1	3.8m³/h	95m	1.25"	2m	550W*2
22	HD-3SC3.8-95-72-750	0.75	1	3.8m³/h	95m	1.25"	2m	550W*3
23	HD-3SC3.8-125-110-1100	1.1	1.5	3.8m³/h	125m	1.25"	2m	550W*3
24	HD-3SC3.8-155-110-1300	1.3	1.75	3.8m³/h	155m	1.25"	2m	550W*3
25	HD-3SC3.8-180-110-1500	1.5	2	3.8m³/h	180m	1.25"	2m	550W*4
26	HD-3SC3.8-180-180-1500	1.5	2	3.8m³/h	180m	1.25"	2m	550W*5
27	HD-3SC6-45-48-600	0.6	0.8	6.0m³/h	45m	1.25"/1.5"	2m	550W*2
28	HD-3SC6-45-72-600	0.6	0.8	6.0m³/h	45m	1.25"/1.5"	2m	550W*3
29	HD-3SC6-60-48-750	0.75	1	6.0m³/h	60m	1.25"/1.5"	2m	550W*2
30	HD-3SC6-60-72-750	0.75	1	6.0m³/h	60m	1.25"/1.5"	2m	550W*3
31	HD-3SC6-85-110-1100	1.1	1.5	6.0m³/h	85m	1.25"/1.5"	2m	550W*3
32	HD-3SC6-125-110-1500	1.5	2	6.0m³/h	125m	1.25"/1.5"	2m	550W*4
33	HD-3SC6-125-180-1500	1.5	2	6.0m³/h	125m	1.25"/1.5"	2m	550W*5
34	HD-3SC7-46-48-750	0.75	1	7.0m³/h	46m	1.25"/1.5"	2m	550W*2
35	HD-3SC7-46-72-750	0.75	1	7.0m³/h	46m	1.25"/1.5"	2m	550W*3
36	HD-3SC8-62-110-1100	1.1	1.5	8.0m³/h	62m	1.25"/1.5"	2m	550W*3
37	HD-3SC8-90-110-1500	1.5	2	8.0m³/h	90m	1.25"/1.5"	2m	550W*4
38	HD-3SC8-90-180-1500	1.5	2	8.0m³/h	90m	1.25"/1.5"	2m	550W*5



PERFORMANCE CURVES



PERFORMANCE CURVES

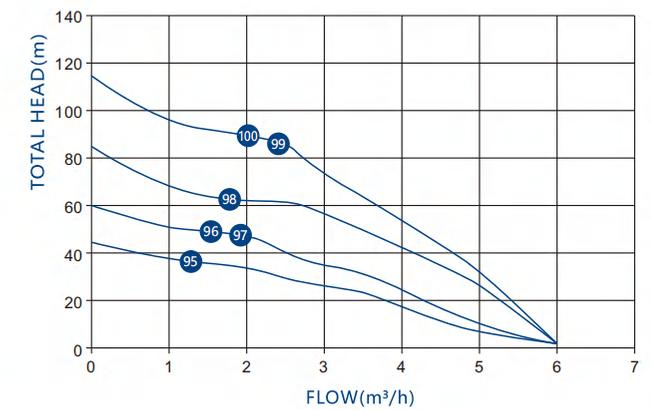
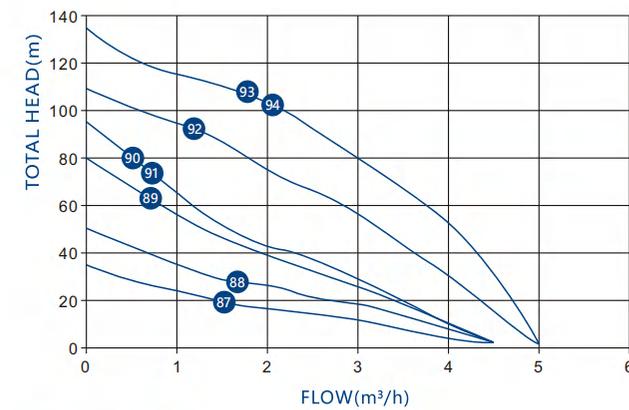


TECHNICAL DATA

NO.	Model	Power		Max. Flow	Max. Head	Outlet (Inch)	Cable	Solar Panels
		Kw	Hp					
39	HD-4SC3.6-55-48-500	0.5	0.7	3.6m³/h	55m	1.25"	2m	550W*2
40	HD-4SC3.6-88-72-750	0.75	1	3.6m³/h	88m	1.25"	2m	550W*3
41	HD-4SC4-130-110-1100	1.1	1.5	4.0m³/h	130m	1.25"	2m	550W*3
42	HD-4SC4-160-110-1300	1.3	1.75	4.0m³/h	160m	1.25"	2m	550W*3
43	HD-4SC4-180-110-1500	1.5	2	4.0m³/h	180m	1.25"	2m	550W*4
44	HD-4SC7-45-48-600	0.6	0.8	7.0m³/h	45m	1.25"/1.5"/2"	2m	550W*2
45	HD-4SC7-56-48-750	0.75	1	7.0m³/h	56m	1.25"/1.5"/2"	2m	550W*2
46	HD-4SC7-56-72-750	0.75	1	7.0m³/h	56m	1.25"/1.5"/2"	2m	550W*3
47	HD-4SC7-86-110-1100	1.1	1.5	7.0m³/h	86m	1.25"/1.5"/2"	2m	550W*3
48	HD-4SC7-112-110-1300	1.3	1.75	7.0m³/h	112m	1.25"/1.5"/2"	2m	550W*3
49	HD-4SC7-135-110-1500	1.5	2	7.0m³/h	135m	1.25"/1.5"/2"	2m	550W*4
50	HD-4SC7-135-180-1500	1.5	2	7.0m³/h	135m	1.25"/1.5"/2"	2m	550W*5
51	HD-4SC7-185-280-2200	2.2	3	7.0m³/h	185m	1.25"/1.5"/2"	2m	550W*7
52	HD-4SC7-230-300-3000	3	4	7.0m³/h	230m	1.25"/1.5"/2"	2m	550W*8
53	HD-4SC9-45-48-750	0.75	1	9.0m³/h	45m	1.5"/2"	2m	550W*2
54	HD-4SC9-45-72-750	0.75	1	9.0m³/h	45m	1.5"/2"	2m	550W*3
55	HD-4SC9-71-110-1300	1.3	1.75	9.0m³/h	71m	1.5"/2"	2m	550W*3
56	HD-4SC9-85-110-1500	1.5	2	9.0m³/h	85m	1.5"/2"	2m	550W*4
57	HD-4SC9-85-180-1500	1.5	2	9.0m³/h	85m	1.5"/2"	2m	550W*5
58	HD-4SC9-125-280-2200	2.2	3	9.0m³/h	125m	1.5"/2"	2m	550W*7
59	HD-4SC9-195-300-3000	3	4	9.0m³/h	195m	1.5"/2"	2m	550W*8
60	HD-4SC12-50-48-750	0.75	1	12.0m³/h	50m	2"	2m	550W*2
61	HD-4SC12-50-72-750	0.75	1	12.0m³/h	50m	2"	2m	550W*3
62	HD-4SC12-60-110-1100	1.1	1.5	12.0m³/h	60m	2"	2m	550W*3
63	HD-4SC12-80-110-1300	1.3	1.75	12.0m³/h	80m	2"	2m	550W*3
64	HD-4SC12-100-110-1500	1.5	2	12.0m³/h	100m	2"	2m	550W*4
65	HD-4SC12-100-180-1500	1.5	2	12.0m³/h	100m	2"	2m	550W*5
66	HD-4SC12-150-280-2200	2.2	3	12.0m³/h	150m	2"	2m	550W*7
67	HD-4SC12-175-300-3000	3	4	12.0m³/h	175m	2"	2m	550W*8
68	HD-4SC14-125-280-2200	2.2	3	14.0m³/h	125m	2"	2m	550W*7
69	HD-4SC14-150-300-3000	3	4	14.0m³/h	150m	2"	2m	550W*8
70	HD-4SC15-45-48-750	0.75	1	15.0m³/h	45m	2"	2m	550W*2
71	HD-4SC15-45-72-750	0.75	1	15.0m³/h	45m	2"	2m	550W*3
72	HD-4SC15-60-110-1100	1.1	1.5	15.0m³/h	60m	2"	2m	550W*3
73	HD-4SC16-70-110-1500	1.5	2	16.0m³/h	70m	2"	2m	550W*4
74	HD-4SC16-70-180-1500	1.5	2	16.0m³/h	70m	2"	2m	550W*5
75	HD-4SC18-95-280-2200	2.2	3	18.0m³/h	95m	2"	2m	550W*7
76	HD-4SC18-112-300-3000	3	4	18.0m³/h	112m	2"	2m	550W*8
77	HD-4SC20-48-110-1500	1.5	2	20.0m³/h	48m	2"	2m	550W*4
78	HD-4SC20-48-180-1500	1.5	2	20.0m³/h	48m	2"	2m	550W*5
79	HD-4SC20-60-280-2200	2.2	3	20.0m³/h	60m	2"	2m	550W*7
80	HD-4SC20-75-300-3000	3	4	20.0m³/h	75m	2"	2m	550W*8
81	HD-4SC30-40-110-1500	1.5	2	30.0m³/h	40m	2"	2m	550W*4
82	HD-4SC30-40-180-1500	1.5	2	30.0m³/h	40m	2"	2m	550W*5
83	HD-4SC30-50-280-2200	2.2	3	30.0m³/h	50m	2"	2m	550W*7
84	HD-4SC30-60-300-3000	3	4	30.0m³/h	60m	2"	2m	550W*8
85	HD-4SC36-45-280-2200	2.2	3	36.0m³/h	45m	2"	2m	550W*7
86	HD-4SC41-52-300-3000	3	4	41.0m³/h	52m	2"	2m	550W*8



PERFORMANCE CURVES

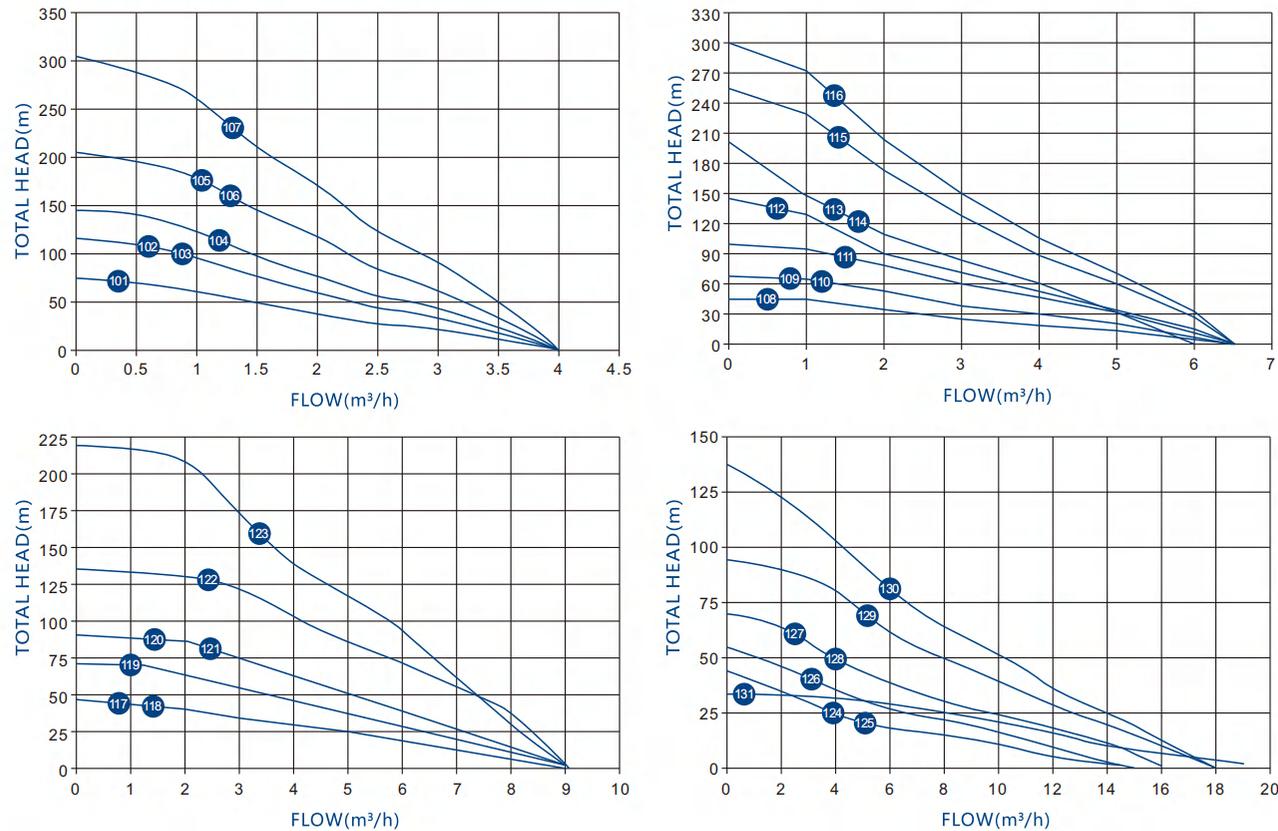


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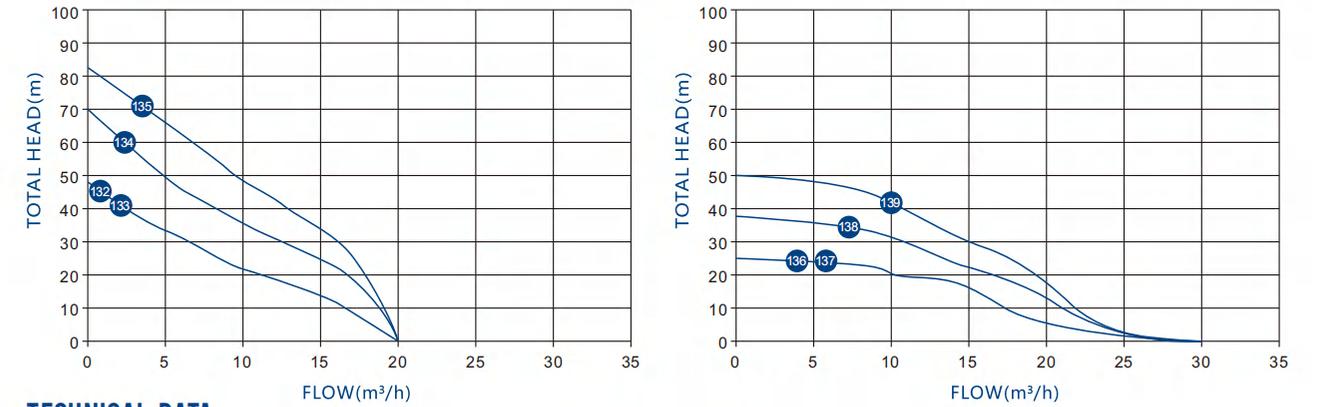
NO.	Model	Power		Max. Flow	Max. Head	Outlet (Inch)	Cable	Solar Panels
		Kw	Hp					
87	HD-3SSC4.5-35-24-300	0.3	0.4	4.5m³/h	35m	1.25"	2m	550W*1
88	HD-3SSC4.5-50-48-400	0.4	0.55	4.5m³/h	50m	1.25"	2m	550W*2
89	HD-3SSC4.5-80-48-600	0.6	0.8	4.5m³/h	80m	1.25"	2m	550W*2
90	HD-3SSC4.5-95-48-750	0.75	1	4.5m³/h	95m	1.25"	2m	550W*2
91	HD-3SSC4.5-95-72-750	0.75	1	4.5m³/h	95m	1.25"	2m	550W*3
92	HD-3SSC5-110-110-1100	1.1	1.5	5.0m³/h	110m	1.25"	2m	550W*3
93	HD-3SSC5-135-110-1500	1.5	2	5.0m³/h	135m	1.25"	2m	550W*4
94	HD-3SSC5-135-180-1500	1.5	2	5.0m³/h	135m	1.25"	2m	550W*5
95	HD-3SSC6-44-48-600	0.6	0.8	6.0m³/h	44m	1.25"	2m	550W*2
96	HD-3SSC6-60-48-750	0.75	1	6.0m³/h	60m	1.25"	2m	550W*2
97	HD-3SSC6-60-72-750	0.75	1	6.0m³/h	60m	1.25"	2m	550W*3
98	HD-3SSC6-85-110-1100	1.1	1.5	6.0m³/h	85m	1.25"	2m	550W*3
99	HD-3SSC6-115-110-1500	1.5	2	6.0m³/h	115m	1.25"	2m	550W*4
100	HD-3SSC6-115-180-1500	1.5	2	6.0m³/h	115m	1.25"	2m	550W*5



PERFORMANCE CURVES



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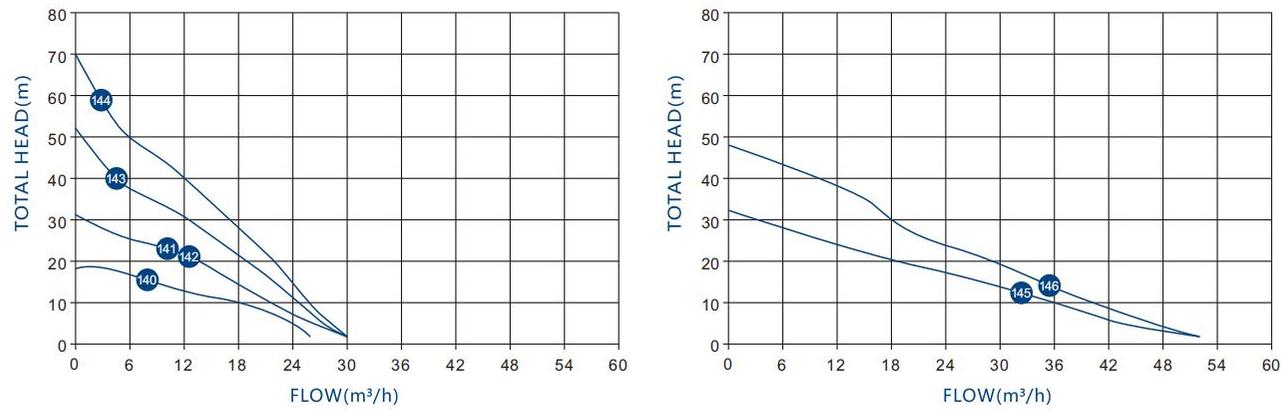


TECHNICAL DATA

NO.	Model	Power		Max. Flow	Max. Head	Outlet (Inch)	Cable	Solar Panels
		Kw	Hp					
101	HD-4SSC4-75-48-600	0.6	0.8	4.0m³/h	75m	1.25"	2m	550W*2
102	HD-4SSC4-115-48-750	0.75	1	4.0m³/h	115m	1.25"	2m	550W*2
103	HD-4SSC4-115-72-750	0.75	1	4.0m³/h	115m	1.25"	2m	550W*3
104	HD-4SSC4-145-110-1100	1.1	1.5	4.0m³/h	145m	1.25"	2m	550W*3
105	HD-4SSC4-205-110-1500	1.5	2	4.0m³/h	205m	1.25"	2m	550W*4
106	HD-4SSC4-205-180-1500	1.5	2	4.0m³/h	205m	1.25"	2m	550W*5
107	HD-4SSC4-303-280-2200	2.2	3	4.0m³/h	303m	1.25"	2m	550W*7
108	HD-4SSC6.5-45-48-500	0.5	0.7	6.5m³/h	45m	1.25"	2m	550W*2
109	HD-4SSC6.5-67-48-750	0.75	1	6.5m³/h	67m	1.25"	2m	550W*2
110	HD-4SSC6.5-67-72-750	0.75	1	6.5m³/h	67m	1.25"	2m	550W*3
111	HD-4SSC6.5-101-110-1100	1.1	1.5	6.5m³/h	101m	1.25"	2m	550W*3
112	HD-4SSC6.5-146-110-1300	1.3	1.75	6.5m³/h	146m	1.25"	2m	550W*3
113	HD-4SSC6-203-110-1500	1.5	2	6.0m³/h	203m	1.25"	2m	550W*4
114	HD-4SSC6-203-180-1500	1.5	2	6.0m³/h	203m	1.25"	2m	550W*5
115	HD-4SSC6.5-255-280-2200	2.2	3	6.5m³/h	255m	1.25"	2m	550W*7
116	HD-4SSC6.5-300-300-3000	3	4	6.5m³/h	300m	1.25"	2m	550W*8
117	HD-4SSC9-48-48-750	0.75	1	9.0m³/h	48m	2"	2m	550W*2
118	HD-4SSC9-48-72-750	0.75	1	9.0m³/h	48m	2"	2m	550W*3
119	HD-4SSC9-70-110-1100	1.1	1.5	9.0m³/h	70m	2"	2m	550W*3
120	HD-4SSC9-90-110-1500	1.5	2	9.0m³/h	90m	2"	2m	550W*4
121	HD-4SSC9-90-180-1500	1.5	2	9.0m³/h	90m	2"	2m	550W*5
122	HD-4SSC9-135-280-2200	2.2	3	9.0m³/h	135m	2"	2m	550W*7
123	HD-4SSC9-220-300-3000	3	4	9.0m³/h	220m	2"	2m	550W*8
124	HD-4SSC14.5-45-48-750	0.75	1	14.5m³/h	45m	2"	2m	550W*2
125	HD-4SSC14.5-45-72-750	0.75	1	14.5m³/h	45m	2"	2m	550W*3
126	HD-4SSC15-55-110-1100	1.1	1.5	15.0m³/h	55m	2"	2m	550W*3
127	HD-4SSC16-70-110-1500	1.5	2	16.0m³/h	70m	2"	2m	550W*4
128	HD-4SSC16-70-180-1500	1.5	2	16.0m³/h	70m	2"	2m	550W*5
129	HD-4SSC18-95-280-2200	2.2	3	18.0m³/h	95m	2"	2m	550W*7
130	HD-4SSC18-137-300-3000	3	4	18.0m³/h	137m	2"	2m	550W*8
131	HD-4SSC19-35-110-1100	1.1	1.5	19.0m³/h	35m	2"	2m	550W*3
132	HD-4SSC20-48-110-1500	1.5	2	20.0m³/h	48m	2"	2m	550W*4
133	HD-4SSC20-48-180-1500	1.5	2	20.0m³/h	48m	2"	2m	550W*5
134	HD-4SSC20-70-280-2200	2.2	3	20.0m³/h	70m	2"	2m	550W*7
135	HD-4SSC20-82-300-3000	3	4	20.0m³/h	82m	2"	2m	550W*8
136	HD-4SSC25-25-110-1500	1.5	2	25.0m³/h	25m	2"	2m	550W*4
137	HD-4SSC25-25-180-1500	1.5	2	25.0m³/h	25m	2"	2m	550W*5
138	HD-4SSC30-38-280-2200	2.2	3	30.0m³/h	38m	2"	2m	550W*7
139	HD-4SSC30-50-300-3000	3	4	30.0m³/h	50m	2"	2m	550W*8



PERFORMANCE CURVES

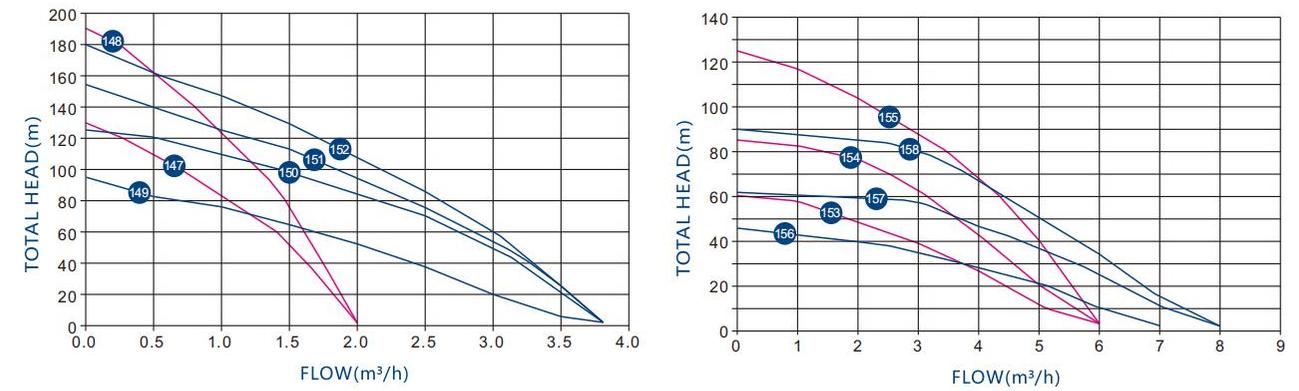


TECHNICAL DATA

NO.	Model	Power		Max. Flow	Max. Head	Outlet (Inch)	Cable	Solar Panels
		Kw	Hp					
140	HD-4/6SSC26-18-110-1100	1.1	1.5	26.0m³/h	18m	3"	2m	550W*3
141	HD-4/6SSC30-31-110-1500	1.5	2	30.0m³/h	31m	3"	2m	550W*4
142	HD-4/6SSC30-31-180-1500	1.5	2	30.0m³/h	31m	3"	2m	550W*5
143	HD-4/6SSC30-52-280-2200	2.2	3	30.0m³/h	52m	3"	2m	550W*7
144	HD-4/6SSC30-70-300-3000	3	4	30.0m³/h	70m	3"	2m	550W*8
145	HD-4/6SSC52-32-280-2200	2.2	3	52.0m³/h	32m	3"	2m	550W*7
146	HD-4/6SSC52-48-300-3000	3	4	52.0m³/h	48m	3"	2m	550W*8



PERFORMANCE CURVES

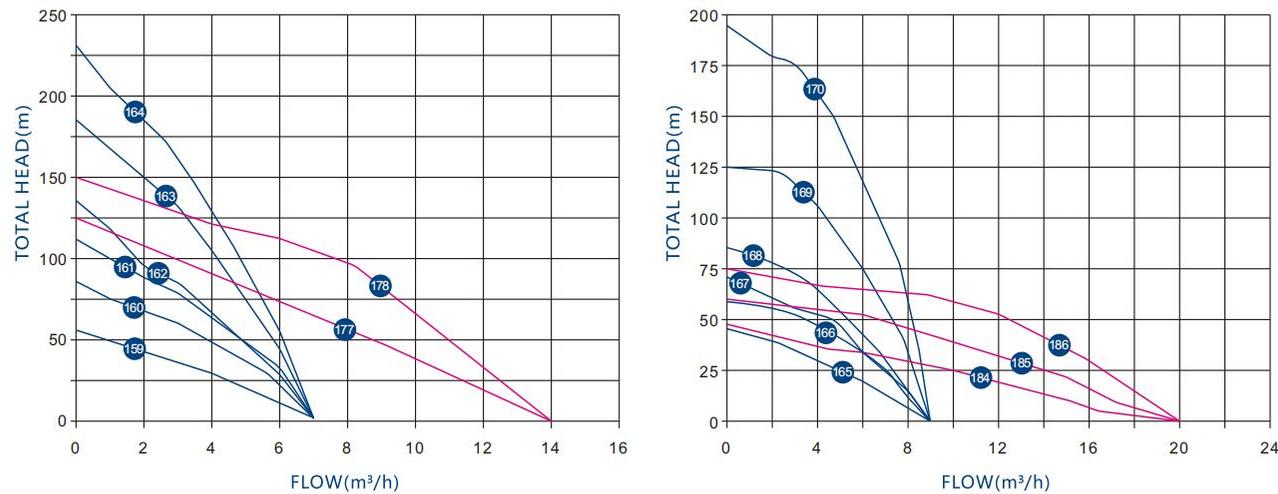


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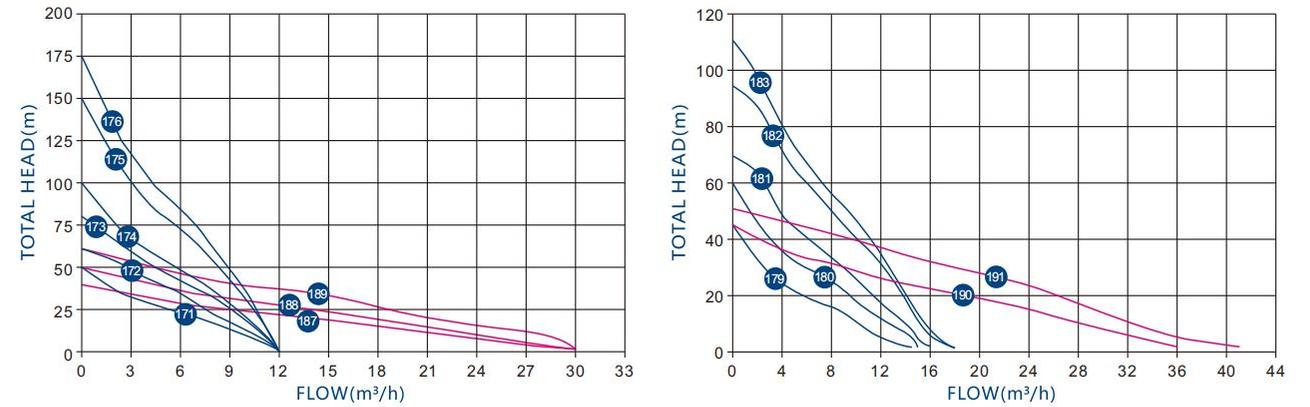
NO.	Model	Power		Max. Flow	Max. Head	Outlet (Inch)	Cable	Solar Panels
		Kw	Hp					
147	HD-3SC2-130-96-750-A/D	0.75	1	2m³/h	130m	1.25"	2m	550W*3
148	HD-3SC2-190-150-1100-A/D	1.1	1.5	2m³/h	190m	1.25"	2m	550W*4
149	HD-3SC3.8-95-96-750-A/D	0.75	1	3.8m³/h	95m	1.25"	2m	550W*3
150	HD-3SC3.8-125-150-1100-A/D	1.1	1.5	3.8m³/h	125m	1.25"	2m	550W*4
151	HD-3SC3.8-155-170-1300-A/D	1.3	1.75	3.8m³/h	155m	1.25"	2m	550W*5
152	HD-3SC3.8-180-180-1500-A/D	1.5	2	3.8m³/h	180m	1.25"	2m	550W*5
153	HD-3SC6-60-96-750-A/D	0.75	1	6.0m³/h	60m	1.25"/1.5"	2m	550W*3
154	HD-3SC6-85-150-1100-A/D	1.1	1.5	6.0m³/h	85m	1.25"/1.5"	2m	550W*4
155	HD-3SC6-125-180-1500-A/D	1.5	2	6.0m³/h	125m	1.25"/1.5"	2m	550W*5
156	HD-3SC7-46-96-750-A/D	0.75	1	7.0m³/h	46m	1.25"/1.5"	2m	550W*3
157	HD-3SC8-62-150-1100-A/D	1.1	1.5	8.0m³/h	62m	1.25"/1.5"	2m	550W*4
158	HD-3SC8-90-180-1500-A/D	1.5	2	8.0m³/h	90m	1.25"/1.5"	2m	550W*5



PERFORMANCE CURVES



PERFORMANCE CURVES

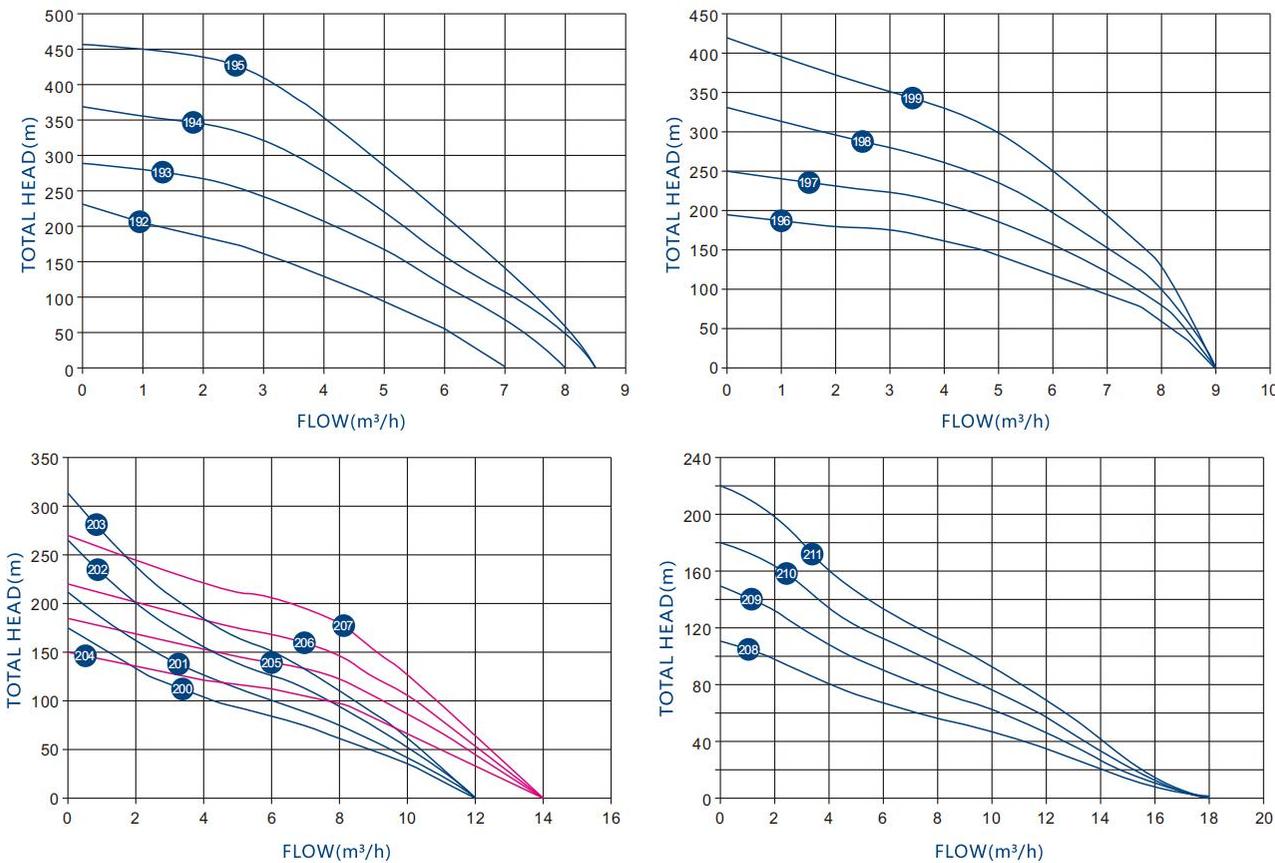


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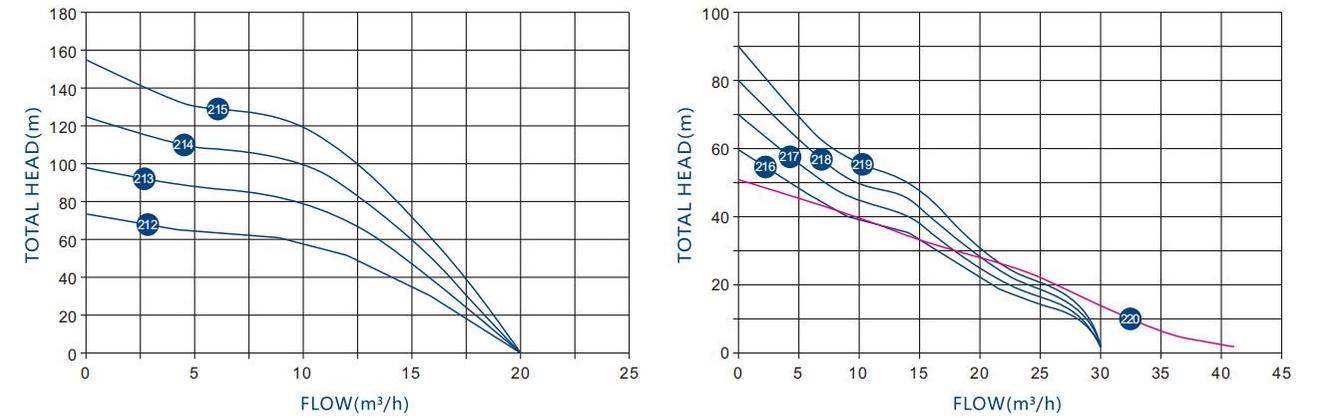
NO.	Model	Power		Max. Flow	Max. Head	Outlet (Inch)	Cable	Solar Panels
		Kw	Hp					
159	HD-4SC7-56-96-750-A/D	0.75	1	7.0m³/h	56m	1.25"/1.5"/2"	2m	550W*3
160	HD-4SC7-86-150-1100-A/D	1.1	1.5	7.0m³/h	86m	1.25"/1.5"/2"	2m	550W*4
161	HD-4SC7-112-170-1300-A/D	1.3	1.75	7.0m³/h	112m	1.25"/1.5"/2"	2m	550W*5
162	HD-4SC7-135-180-1500-A/D	1.5	2	7.0m³/h	135m	1.25"/1.5"/2"	2m	550W*5
163	HD-4SC7-185-280-2200-A/D	2.2	3	7.0m³/h	185m	1.25"/1.5"/2"	2m	550W*7
164	HD-4SC7-230-300-3000-A/D	3	4	7.0m³/h	230m	1.25"/1.5"/2"	2m	550W*8
165	HD-4SC9-45-96-750-A/D	0.75	1	9.0m³/h	45m	1.5"/2"	2m	550W*3
166	HD-4SC9-58-150-1100-A/D	1.1	1.5	9.0m³/h	58m	1.5"/2"	2m	550W*4
167	HD-4SC9-71-170-1300-A/D	1.3	1.75	9.0m³/h	71m	1.5"/2"	2m	550W*5
168	HD-4SC9-85-180-1500-A/D	1.5	2	9.0m³/h	85m	1.5"/2"	2m	550W*5
169	HD-4SC9-125-280-2200-A/D	2.2	3	9.0m³/h	125m	1.5"/2"	2m	550W*7
170	HD-4SC9-195-300-3000-A/D	3	4	9.0m³/h	195m	1.5"/2"	2m	550W*8
171	HD-4SC12-50-96-750-A/D	0.75	1	12.0m³/h	50m	2"	2m	550W*3
172	HD-4SC12-60-150-1100-A/D	1.1	1.5	12.0m³/h	60m	2"	2m	550W*4
173	HD-4SC12-80-170-1300-A/D	1.3	1.75	12.0m³/h	80m	2"	2m	550W*5
174	HD4SC12-100-180-1500-A/D	1.5	2	12.0m³/h	100m	2"	2m	550W*5
175	HD-4SC12-150-280-2200-A/D	2.2	3	12.0m³/h	150m	2"	2m	550W*7
176	HD-4SC12-175-300-3000-A/D	3	4	12.0m³/h	175m	2"	2m	550W*8
177	HD-4SC14-125-280-2200-A/D	2.2	3	14.0m³/h	125m	2"	2m	550W*7
178	HD-4SC14-150-300-3000-A/D	3	4	14.0m³/h	150m	2"	2m	550W*8
179	HD-4SC15-45-96-750-A/D	0.75	1	15.0m³/h	45m	2"	2m	550W*3
180	HD-4SC15-60-150-1100-A/D	1.1	1.5	15.0m³/h	60m	2"	2m	550W*4
181	HD-4SC16-70-180-1500-A/D	1.5	2	16.0m³/h	70m	2"	2m	550W*5
182	HD-4SC18-95-280-2200-A/D	2.2	3	18.0m³/h	95m	2"	2m	550W*7
183	HD-4SC18-112-300-3000-A/D	3	4	18.0m³/h	112m	2"	2m	550W*8
184	HD-4SC20-48-180-1500-A/D	1.5	2	20.0m³/h	48m	2"	2m	550W*5
185	HD-4SC20-60-280-2200-A/D	2.2	3	20.0m³/h	60m	2"	2m	550W*7
186	HD-4SC20-75-300-3000-A/D	3	4	20.0m³/h	75m	2"	2m	550W*8
187	HD-4SC30-40-180-1500-A/D	1.5	2	30.0m³/h	40m	2"	2m	550W*5
188	HD-4SC30-50-280-2200-A/D	2.2	3	30.0m³/h	50m	2"	2m	550W*7
189	HD-4SC30-60-300-3000-A/D	3	4	30.0m³/h	60m	2"	2m	550W*8
190	HD-4SC36-45-280-2200-A/D	2.2	3	36.0m³/h	45m	3"	2m	550W*7
191	HD-4SC41-52-300-3000-A/D	3	4	41.0m³/h	52m	3"	2m	550W*8



PERFORMANCE CURVES



PERFORMANCE CURVES

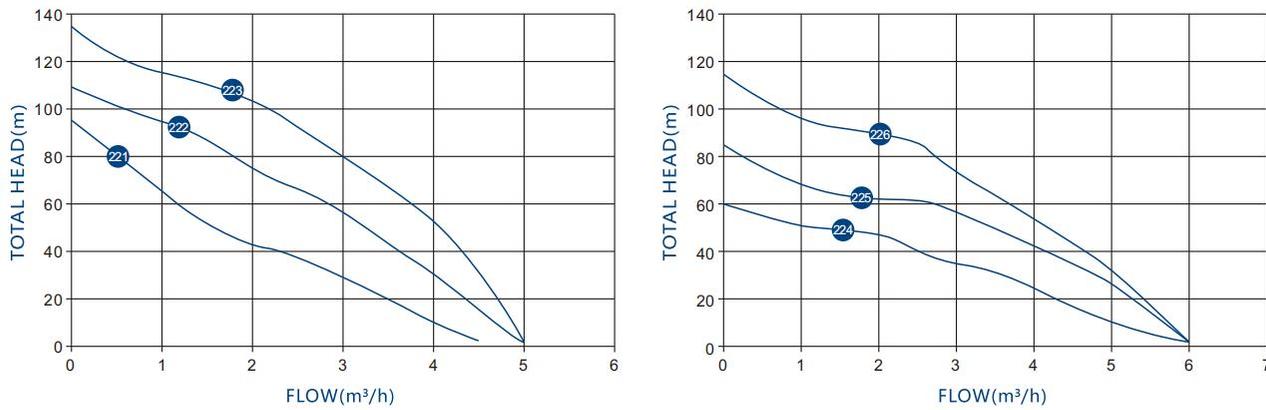


TECHNICAL DATA

NO.	Model	Power		Max. Flow	Max. Head	Outlet (inch)	Cable	Solar Panels
		Kw	HP					
192	HD-4SC7-230-530-3000-A/D	3	4	7.0m³/h	230m	1.25"/1.5"/2"	2m	550W*12
193	HD-4SC8-290-530-4000-A/D	4	5.5	8.0m³/h	290m	1.25"/1.5"/2"	2m	550W*12
194	HD-4SC8.5-370-530-5500-A/D	5.5	7.5	8.5m³/h	370m	1.25"/1.5"/2"	2m	550W*13
195	HD-4SC8.5-456-530-7500-A/D	7.5	10	8.5m³/h	456m	1.25"/1.5"/2"	2m	550W*13*2
196	HD-4SC9-195-530-3000-A/D	3	4	9.0m³/h	195m	1.5"/2"	2m	550W*12
197	HD-4SC9-250-530-4000-A/D	4	5.5	9.0m³/h	250m	1.5"/2"	2m	550W*12
198	HD-4SC9-330-530-5500-A/D	5.5	7.5	9.0m³/h	330m	1.5"/2"	2m	550W*13
199	HD-4SC9-420-530-7500-A/D	7.5	10	9.0m³/h	420m	1.5"/2"	2m	550W*13*2
200	HD-4SC12-175-530-3000-A/D	3	4	12.0m³/h	175m	2"	2m	550W*12
201	HD-4SC12-213-530-4000-A/D	4	5.5	12.0m³/h	213m	2"	2m	550W*12
202	HD-4SC12-265-530-5500-A/D	5.5	7.5	12.0m³/h	265m	2"	2m	550W*13
203	HD-4SC12-315-530-7500-A/D	7.5	10	12.0m³/h	315m	2"	2m	550W*13*2
204	HD-4SC14-150-530-3000-A/D	3	4	14.0m³/h	150m	2"	2m	550W*12
205	HD-4SC14-185-530-4000-A/D	4	5.5	14.0m³/h	185m	2"	2m	550W*12
206	HD-4SC14-220-530-5500-A/D	5.5	7.5	14.0m³/h	220m	2"	2m	550W*13
207	HD-4SC14-270-530-7500-A/D	7.5	10	14.0m³/h	270m	2"	2m	550W*13*2
208	HD-4SC18-112-530-3000-A/D	3	4	18.0m³/h	112m	2"	2m	550W*12
209	HD-4SC18-150-530-4000-A/D	4	5.5	18.0m³/h	150m	2"	2m	550W*12
210	HD-4SC18-180-530-5500-A/D	5.5	7.5	18.0m³/h	180m	2"	2m	550W*13
211	HD-4SC18-220-530-7500-A/D	7.5	10	18.0m³/h	220m	2"	2m	550W*13*2
212	HD-4SC20-75-530-3000-A/D	3	4	20.0m³/h	75m	2"	2m	550W*12
213	HD-4SC20-98-530-4000-A/D	4	5.5	20.0m³/h	98m	2"	2m	550W*12
214	HD-4SC20-125-530-5500-A/D	5.5	7.5	20.0m³/h	125m	2"	2m	550W*13
215	HD-4SC20-155-530-7500-A/D	7.5	10	20.0m³/h	155m	2"	2m	550W*13*2
216	HD-4SC30-60-530-3000-A/D	3	4	30.0m³/h	60m	2"	2m	550W*12
217	HD-4SC30-70-530-4000-A/D	4	5.5	30.0m³/h	70m	2"	2m	550W*12
218	HD-4SC30-80-530-5500-A/D	5.5	7.5	30.0m³/h	80m	2"	2m	550W*13
219	HD-4SC30-90-530-7500-A/D	7.5	10	30.0m³/h	90m	2"	2m	550W*13*2
220	HD-4SC41-52-530-3000-A/D	3	4	41.0m³/h	52m	3"	2m	550W*12



PERFORMANCE CURVES

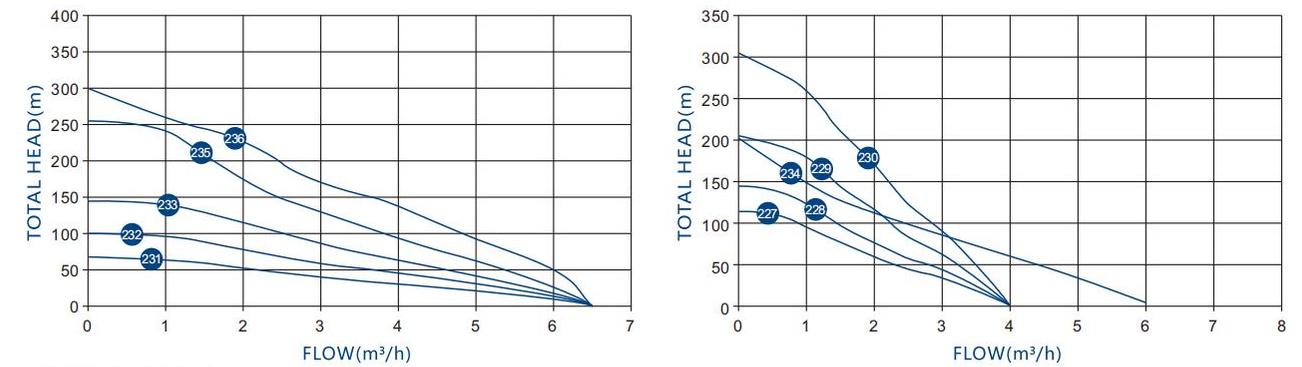


TECHNICAL DATA

NO.	Model	Power		Max. Flow	Max. Head	Outlet (Inch)	Cable	Solar Panels
		Kw	Hp					
221	HD-3SSC4.5-95-96-750-A/D	0.75	1	4.5m³/h	95m	1.25"	2m	550W*3
222	HD-3SSC5-110-150-1100-A/D	1.1	1.5	5.0m³/h	110m	1.25"	2m	550W*4
223	HD-3SSC5-135-180-1500-A/D	1.5	2	5.0m³/h	135m	1.25"	2m	550W*5
224	HD-3SSC6-60-96-750-A/D	0.75	1	6.0m³/h	60m	1.25"	2m	550W*3
225	HD-3SSC6-85-150-1100-A/D	1.1	1.5	6.0m³/h	85m	1.25"	2m	550W*4
226	HD-3SSC6-115-180-1500-A/D	1.5	2	6.0m³/h	115m	1.25"	2m	550W*5



PERFORMANCE CURVES

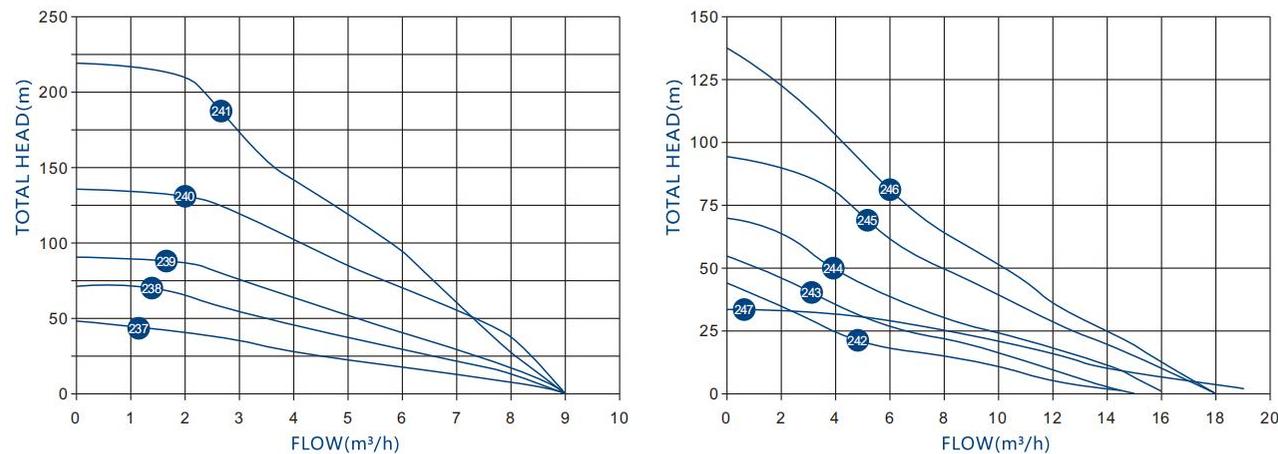


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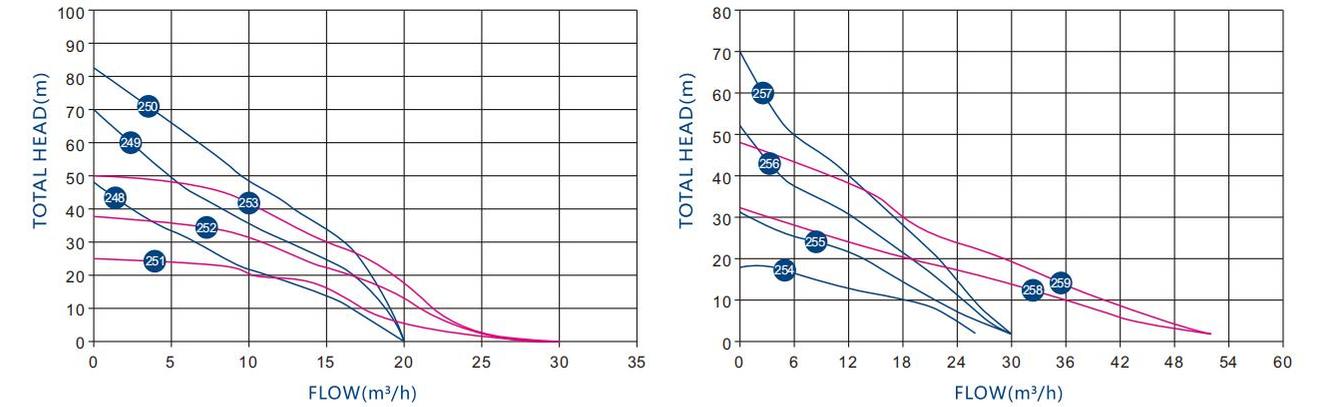
NO.	Model	Power		Max. Flow	Max. Head	Outlet (Inch)	Cable	Solar Panels
		Kw	Hp					
227	HD-4SSC4-115-96-750-A/D	0.75	1	4.0m³/h	115m	1.25"	2m	550W*3
228	HD-4SSC4-145-150-1100-A/D	1.1	1.5	4.0m³/h	145m	1.25"	2m	550W*4
229	HD-4SSC4-205-180-1500-A/D	1.5	2	4.0m³/h	205m	1.25"	2m	550W*5
230	HD-4SSC4-303-280-2200-A/D	2.2	3	4.0m³/h	303m	1.25"	2m	550W*7
231	HD-4SSC6.5-67-96-750-A/D	0.75	1	6.5m³/h	67m	1.25"	2m	550W*3
232	HD-4SSC6.5-101-150-1100-A/D	1.1	1.5	6.5m³/h	101m	1.25"	2m	550W*4
233	HD-4SSC6.5-146-170-1300-A/D	1.3	1.75	6.5m³/h	146m	1.25"	2m	550W*5
234	HD-4SSC6-203-180-1500-A/D	1.5	2	6.0m³/h	203m	1.25"	2m	550W*5
235	HD-4SSC6.5-255-280-2200-A/D	2.2	3	6.5m³/h	255m	1.25"	2m	550W*7
236	HD-4SSC6.5-300-300-3000-A/D	3	4	6.5m³/h	300m	1.25"	2m	550W*8



PERFORMANCE CURVES



PERFORMANCE CURVES

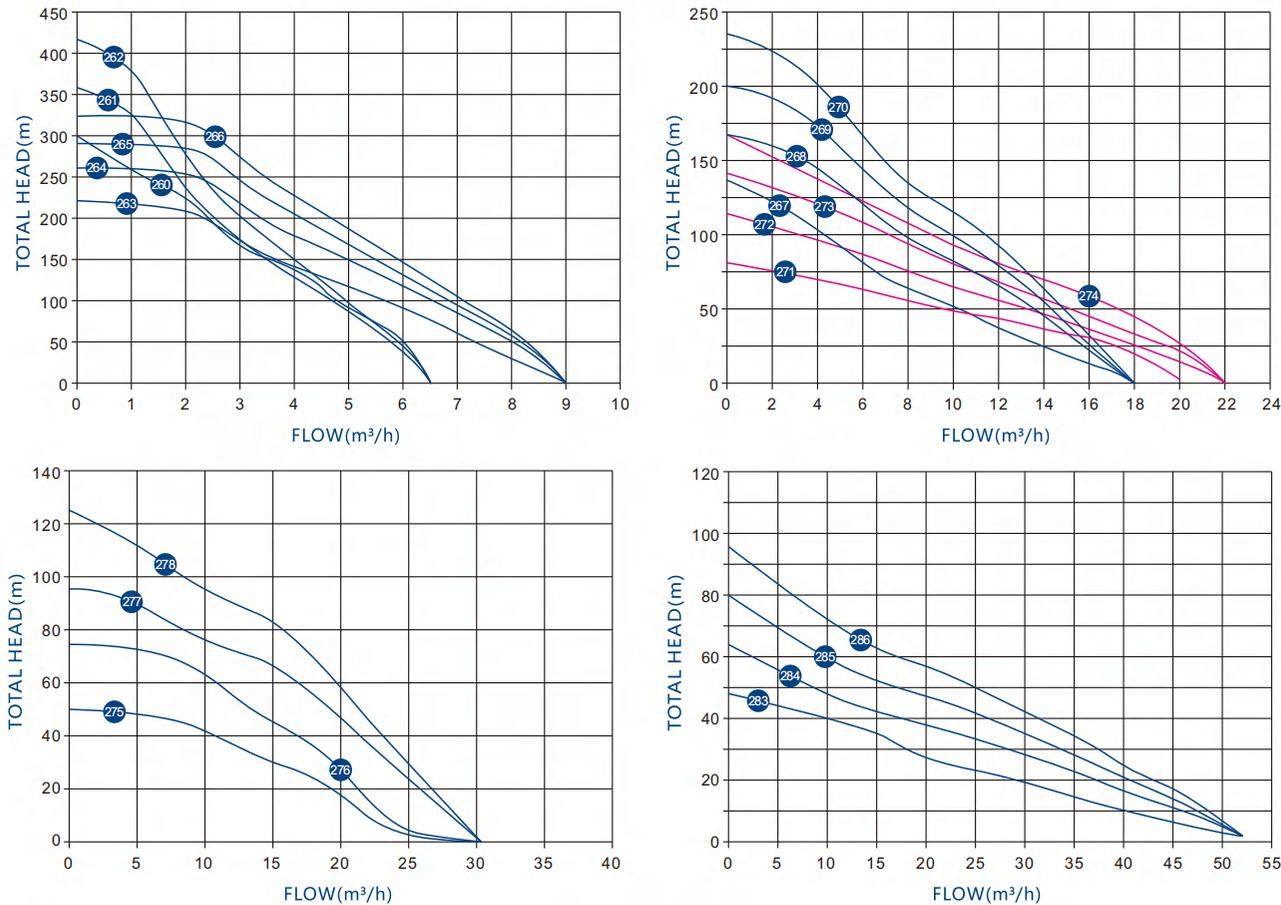


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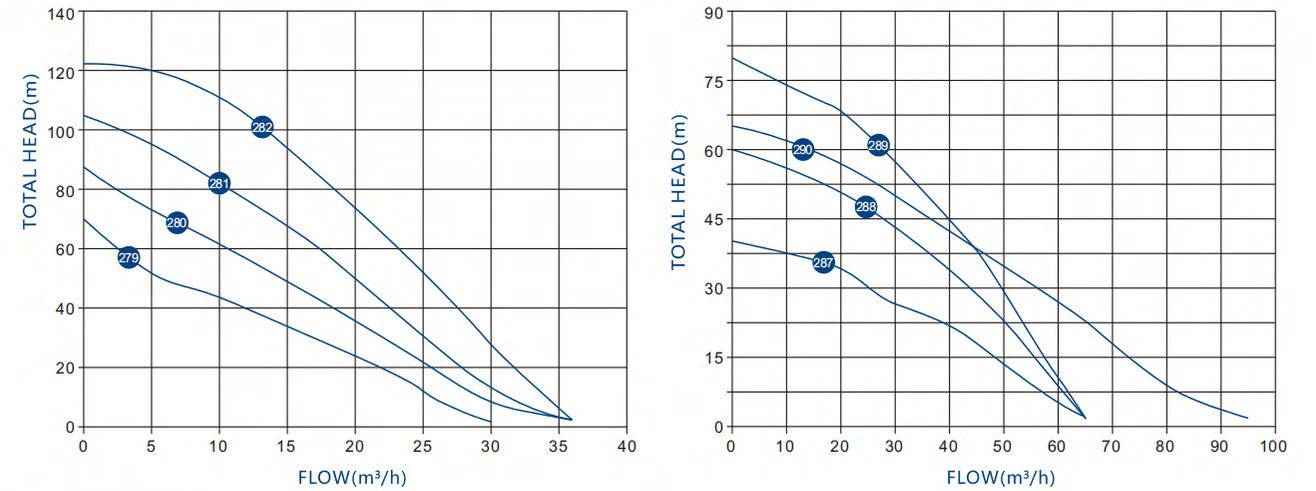
NO.	Model	Power		Max. Flow	Max. Head	Outlet (Inch)	Cable	Solar Panels
		Kw	Hp					
237	HD-4SSC9-48-96-750-A/D	0.75	1	9.0m³/h	48m	2"	2m	550W*3
238	HD-4SSC9-70-150-1100-A/D	1.1	1.5	9.0m³/h	70m	2"	2m	550W*4
239	HD-4SSC9-90-180-1500-A/D	1.5	2	9.0m³/h	90m	2"	2m	550W*5
240	HD-4SSC9-135-280-2200-A/D	2.2	3	9.0m³/h	135m	2"	2m	550W*7
241	HD-4SSC9-220-300-3000-A/D	3	4	9.0m³/h	220m	2"	2m	550W*8
242	HD-4SSC14.5-45-96-750-A/D	0.75	1	14.5m³/h	45m	2"	2m	550W*3
243	HD-4SSC15-55-150-1100-A/D	1.1	1.5	15.0m³/h	55m	2"	2m	550W*4
244	HD-4SSC16-70-180-1500-A/D	1.5	2	16.0m³/h	70m	2"	2m	550W*5
245	HD-4SSC18-95-280-2200-A/D	2.2	3	18.0m³/h	95m	2"	2m	550W*7
246	HD-4SSC18-137-300-3000-A/D	3	4	18.0m³/h	137m	2"	2m	550W*8
247	HD-4SSC19-35-150-1100-A/D	1.1	1.5	19.0m³/h	35m	2"	2m	550W*4
248	HD-4SSC20-48-180-1500-A/D	1.5	2	20.0m³/h	48m	2"	2m	550W*5
249	HD-4SSC20-70-280-2200-A/D	2.2	3	20.0m³/h	70m	2"	2m	550W*7
250	HD-4SSC20-82-300-3000-A/D	3	4	20.0m³/h	82m	2"	2m	550W*8
251	HD-4SSC25-25-180-1500-A/D	1.5	2	25.0m³/h	25m	2"	2m	550W*5
252	HD-4SSC30-38-280-2200-A/D	2.2	3	30.0m³/h	38m	2"	2m	550W*7
253	HD-4SSC30-50-300-3000-A/D	3	4	30.0m³/h	50m	2"	2m	550W*8
254	HD-4/6SSC26-18-150-1100-A/D	1.1	1.5	26.0m³/h	18m	3"	2m	550W*4
255	HD-4/6SSC30-31-180-1500-A/D	1.5	2	30.0m³/h	31m	3"	2m	550W*5
256	HD-4/6SSC30-52-280-2200-A/D	2.2	3	30.0m³/h	52m	3"	2m	550W*7
257	HD-4/6SSC30-70-300-3000-A/D	3	4	30.0m³/h	70m	3"	2m	550W*8
258	HD-4/6SSC52-32-280-2200-A/D	2.2	3	52.0m³/h	32m	3"	2m	550W*7
259	HD-4/6SSC52-48-300-3000-A/D	3	4	52.0m³/h	48m	3"	2m	550W*8



PERFORMANCE CURVES



PERFORMANCE CURVES

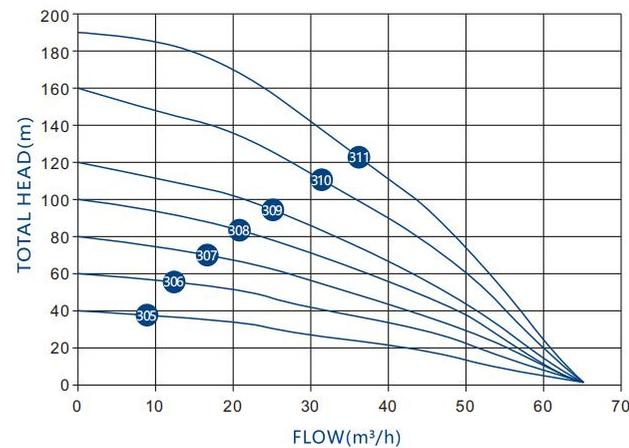
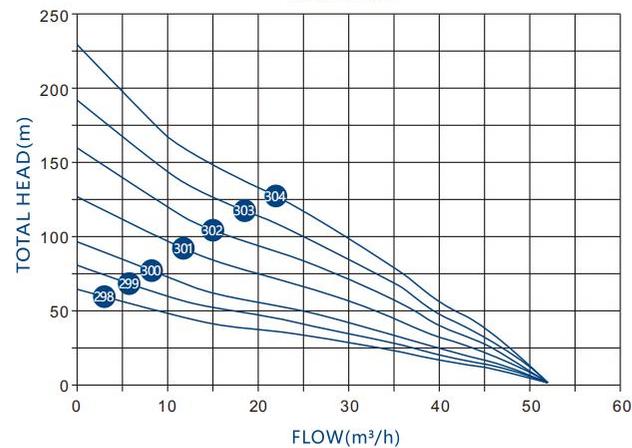
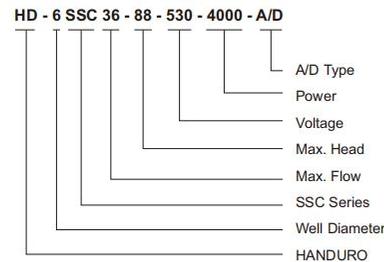
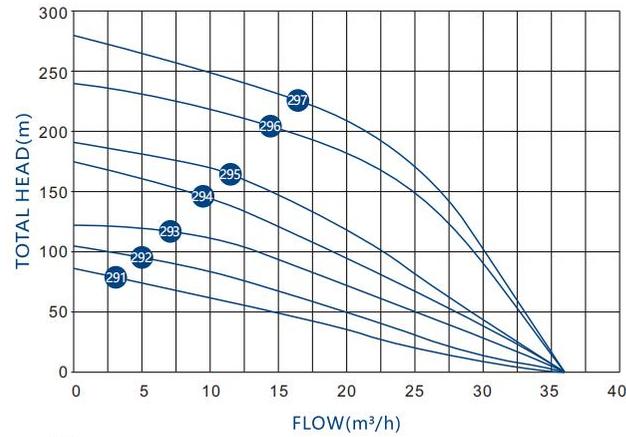


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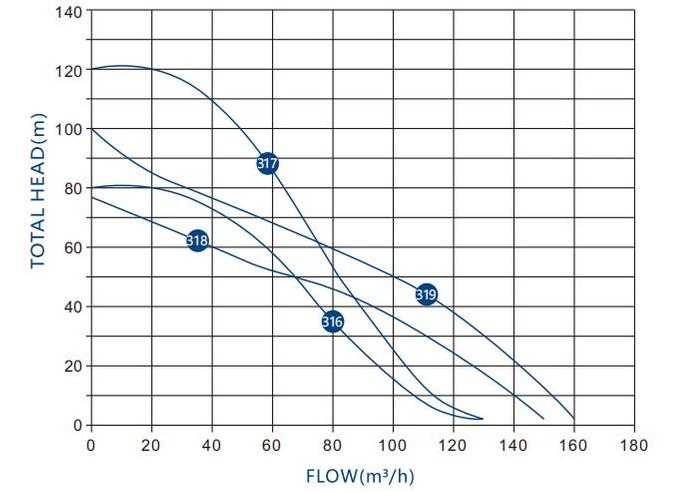
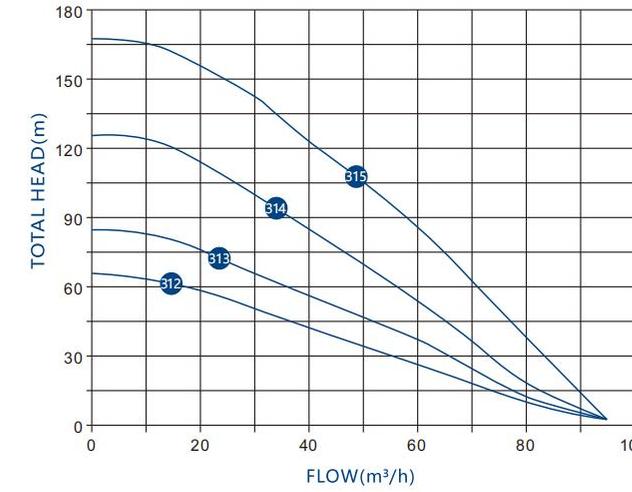
NO.	Model	Power		Max. Flow	Max. Head	Outlet (inch)	Cable	Solar Panels
		Kw	HP					
260	HD-4SSC6.5-300-530-3000-A/D	3	4	6.5m³/h	300m	1.25"	2m	550W*12
261	HD-4SSC6.5-360-530-4000-A/D	4	5.5	6.5m³/h	360m	1.25"	2m	550W*12
262	HD-4SSC6.5-420-530-5500-A/D	5.5	7.5	6.5m³/h	420m	1.25"	2m	550W*13
263	HD-4SSC9-220-530-3000-A/D	3	4	9.0m³/h	220m	2"	2m	550W*12
264	HD-4SSC9-260-530-4000-A/D	4	5.5	9.0m³/h	260m	2"	2m	550W*12
265	HD-4SSC9-295-530-5500-A/D	5.5	7.5	9.0m³/h	295m	2"	2m	550W*13
266	HD-4SSC9-325-530-7500-A/D	7.5	10	9.0m³/h	325m	2"	2m	550W*13*2
267	HD-4SSC18-137-530-3000-A/D	3	4	18.0m³/h	137m	2"	2m	550W*12
268	HD-4SSC18-168-530-4000-A/D	4	5.5	18.0m³/h	168m	2"	2m	550W*12
269	HD-4SSC18-200-530-5500-A/D	5.5	7.5	18.0m³/h	200m	2"	2m	550W*13
270	HD-4SSC18-235-530-7500-A/D	7.5	10	18.0m³/h	235m	2"	2m	550W*13*2
271	HD-4SSC20-82-530-3000-A/D	3	4	20.0m³/h	82m	2"	2m	550W*12
272	HD-4SSC22-115-530-4000-A/D	4	5.5	22.0m³/h	115m	2"	2m	550W*12
273	HD-4SSC22-143-530-5500-A/D	5.5	7.5	22.0m³/h	143m	2"	2m	550W*13
274	HD-4SSC22-169-530-7500-A/D	7.5	10	22.0m³/h	169m	2"	2m	550W*13*2
275	HD-4SSC30-50-530-3000-A/D	3	4	30.0m³/h	50m	2"	2m	550W*12
276	HD-4SSC30-75-530-4000-A/D	4	5.5	30.0m³/h	75m	2"	2m	550W*12
277	HD-4SSC30-96-530-5500-A/D	5.5	7.5	30.0m³/h	96m	2"	2m	550W*13
278	HD-4SSC30-125-530-7500-A/D	7.5	10	30.0m³/h	125m	2"	2m	550W*13*2
279	HD-4/6SSC30-70-530-3000-A/D	3	4	30.0m³/h	70m	3"	2m	550W*12
280	HD-4/6SSC36-88-530-4000-A/D	4	5.5	36.0m³/h	88m	3"	2m	550W*12
281	HD-4/6SSC36-105-530-5500-A/D	5.5	7.5	36.0m³/h	105m	3"	2m	550W*13
282	HD-4/6SSC36-122-530-7500-A/D	7.5	10	36.0m³/h	122m	3"	2m	550W*13*2
283	HD-4/6SSC52-48-530-3000-A/D	3	4	52.0m³/h	48m	3"	2m	550W*12
284	HD-4/6SSC52-64-530-4000-A/D	4	5.5	52.0m³/h	64m	3"	2m	550W*12
285	HD-4/6SSC52-80-530-5500-A/D	5.5	7.5	52.0m³/h	80m	3"	2m	550W*13
286	HD-4/6SSC52-96-530-7500-A/D	7.5	10	52.0m³/h	96m	3"	2m	550W*13*2
287	HD-4/6SSC65-40-530-4000-A/D	4	5.5	65.0m³/h	40m	3"	2m	550W*12
288	HD-4/6SSC65-60-530-5500-A/D	5.5	7.5	65.0m³/h	60m	3"	2m	550W*13
289	HD-4/6SSC65-80-530-7500-A/D	7.5	10	65.0m³/h	80m	3"	2m	550W*13*2
290	HD-4/6SSC95-65-530-7500-A/D	7.5	10	95.0m³/h	65m	3"	2m	550W*13*2



PERFORMANCE CURVES



PERFORMANCE CURVES

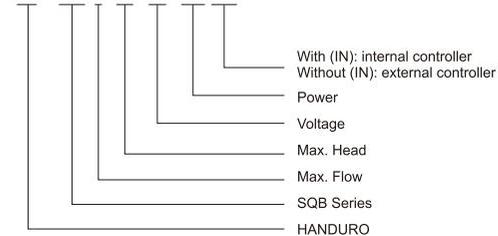


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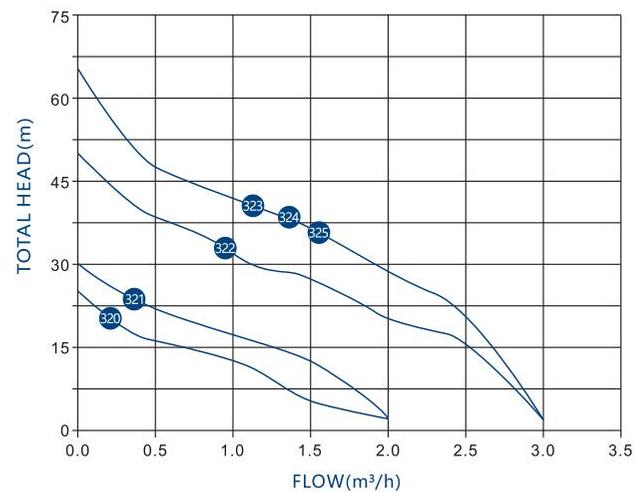
NO.	Model	Power		Max. Flow	Max. Head	Outlet (inch)	Cable	Solar Panels
		Kw	HP					
291	HD-6SSC36-88-530-4000-A/D	4	5.5	36m³/h	88m	3"	2m	550W*12
292	HD-6SSC36-105-530-5500-A/D	5.5	7.5	36m³/h	105m	3"	2m	550W*13
293	HD-6SSC36-122-530-7500-A/D	7.5	10	36m³/h	122m	3"	2m	550W*13*2
294	HD-6SSC36-175-530-9200-A/D	9.2	12.5	36m³/h	175m	3"	2m	550W*13*2
295	HD-6SSC36-190-530-11000-A/D	11	15	36m³/h	190m	3"	2m	550W*15*2
296	HD-6SSC36-240-530-15000-A/D	15	20	36m³/h	240m	3"	2m	550W*13*3
297	HD-6SSC36-280-530-22000-A/D	22	30	36m³/h	280m	3"	2m	550W*13*4
298	HD-6SSC52-64-530-4000-A/D	4	5.5	52m³/h	64m	3"	2m	550W*12
299	HD-6SSC52-80-530-5500-A/D	5.5	7.5	52m³/h	80m	3"	2m	550W*13
300	HD-6SSC52-96-530-7500-A/D	7.5	10	52m³/h	96m	3"	2m	550W*13*2
301	HD-6SSC52-128-530-9200-A/D	9.2	12.5	52m³/h	128m	3"	2m	550W*13*2
302	HD-6SSC52-160-530-11000-A/D	11	15	52m³/h	160m	3"	2m	550W*15*2
303	HD-6SSC52-192-530-15000-A/D	15	20	52m³/h	192m	3"	2m	550W*13*3
304	HD-6SSC52-230-530-22000-A/D	22	30	52m³/h	230m	3"	2m	550W*13*4
305	HD-6SSC65-40-530-4000-A/D	4	5.5	65m³/h	40m	3"	2m	550W*12
306	HD-6SSC65-60-530-5500-A/D	5.5	7.5	65m³/h	60m	3"	2m	550W*13
307	HD-6SSC65-80-530-7500-A/D	7.5	10	65m³/h	80m	3"	2m	550W*13*2
308	HD-6SSC65-100-530-9200-A/D	9.2	12.5	65m³/h	100m	3"	2m	550W*13*2
309	HD-6SSC65-120-530-11000-A/D	11	15	65m³/h	120m	3"	2m	550W*15*2
310	HD-6SSC65-160-530-15000-A/D	15	20	65m³/h	160m	3"	2m	550W*13*3
311	HD-6SSC65-190-530-22000-A/D	22	30	65m³/h	190m	3"	2m	550W*13*4
312	HD-6SSC95-65-530-7500-A/D	7.5	10	95m³/h	65m	4"	2m	550W*13*2
313	HD-6SSC95-85-530-11000-A/D	11	15	95m³/h	85m	4"	2m	550W*15*2
314	HD-6SSC95-125-530-15000-A/D	15	20	95m³/h	125m	4"	2m	550W*13*3
315	HD-6SSC95-166-530-22000-A/D	22	30	95m³/h	166m	4"	2m	550W*13*4
316	HD-6SSC130-80-530-15000-A/D	15	20	130m³/h	80m	4"	2m	550W*13*3
317	HD-6SSC130-120-530-22000-A/D	22	30	130m³/h	120m	4"	2m	550W*13*4
318	HD-8SSC150-77-530-15000-A/D	15	20	150m³/h	77m	5"	2m	550W*13*3
319	HD-8SSC160-100-530-22000-A/D	22	30	160m³/h	100m	5"	2m	550W*13*4



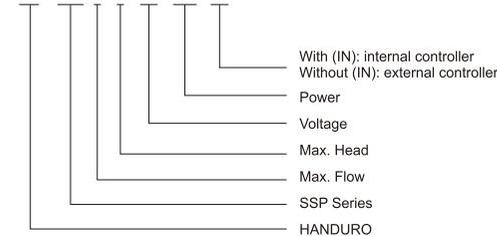
HD - SQB 2 - 25 - 24 - 210 (IN)



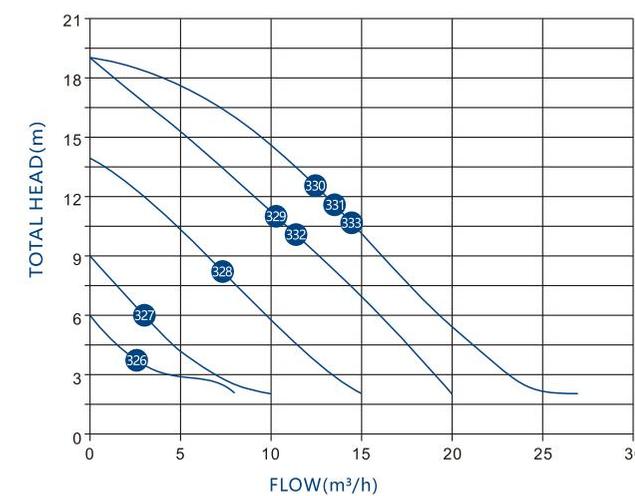
PERFORMANCE CURVES



HD - SSP 8 - 6 - 12 - 100 - IN



PERFORMANCE CURVES

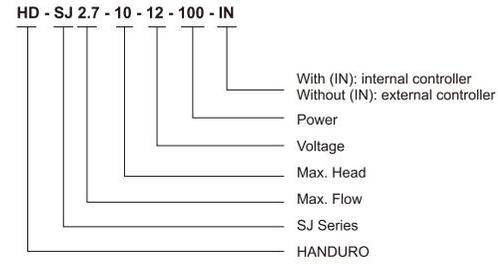


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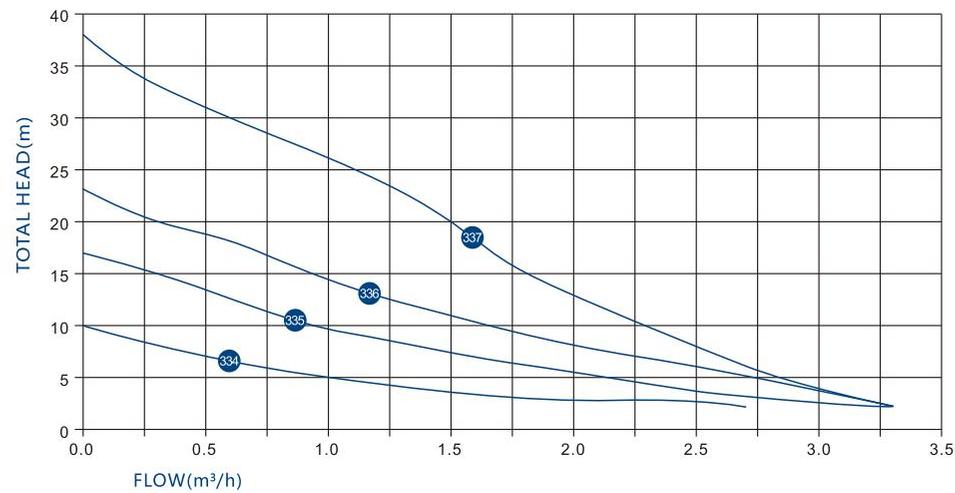
NO.	Model	Power		Max. Flow	Max. Head	Outlet (inch)	Cable	Solar Panels
		Kw	Hp					
320	HD-SQB2-25-24-210(IN)	0.21	0.28	2.0m³/h	25m	1"	2m	550W*1
321	HD-SQB2-30-24-280(IN)	0.28	0.38	2.0m³/h	30m	1"	2m	550W*1
322	HD-SQB3-50-48-550(IN)	0.55	0.75	3.0m³/h	50m	1"	2m	550W*2
323	HD-SQB3-65-48-750(IN)	0.75	1	3.0m³/h	65m	1"	2m	550W*2
324	HD-SQB3-65-72-750(IN)	0.75	1	3.0m³/h	65m	1"	2m	550W*3
325	HD-SQB3-65-96-750-A/D	0.75	1	3.0m³/h	65m	1"	2m	550W*3

TECHNICAL DATA

NO.	Model	Power		Max. Flow	Max. Head	Outlet (mm)	Cable	Solar Panels
		Kw	Hp					
326	HD-SSP8-6-12-100-IN	0.1	0.13	8m³/h	6m	38*38 (Hose)	2m	550W*1
327	HD-SSP10-9-12-180-IN	0.18	0.24	10m³/h	9m	38*38 (Hose)	2m	550W*1
328	HD-SSP15-14-48-500(IN)	0.5	0.7	15m³/h	14m	48*48/50*50	2m	550W*2
329	HD-SSP20-19-72-900(IN)	0.9	1.2	20m³/h	19m	48*48/50*50	2m	550W*3
330	HD-SSP27-19-110-1200(IN)	1.2	1.6	27m³/h	19m	60*60/63*63	2m	550W*3
331	HD-SSP27-19-150-1200	1.2	1.6	27m³/h	19m	60*60/63*63	2m	550W*4
332	HD-SSP20-19-96-900-A/D	0.9	1.2	20m³/h	19m	48*48/50*50	2m	550W*3
333	HD-SSP27-19-150-1200-A/D	1.2	1.6	27m³/h	19m	60*60/63*63	2m	550W*4

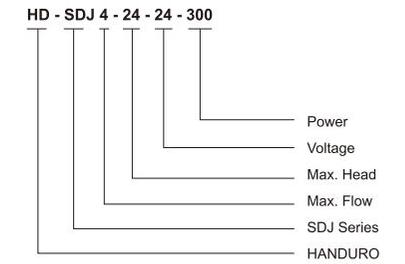


PERFORMANCE CURVES

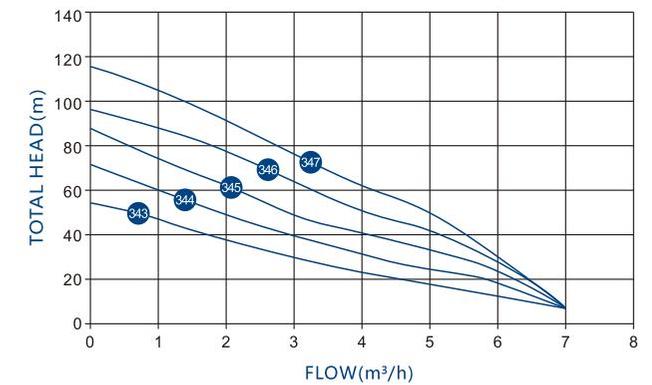
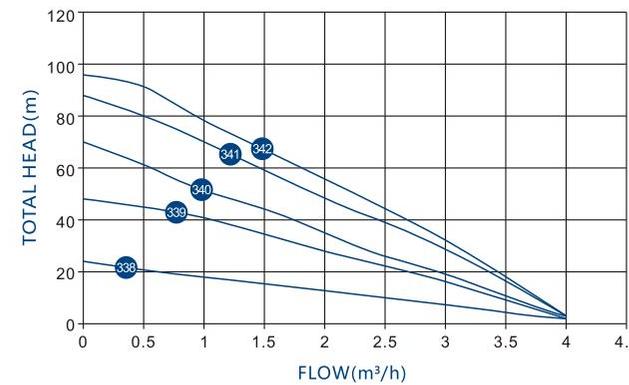


TECHNICAL DATA

NO.	Model	Power		Max. Flow	Max. Head	Outlet (inch)	Cable	Solar Panels
		Kw	Hp					
334	HD-SJ2.7-10-12-100-IN	0.1	0.13	2.7m³/h	10m	1"	2m	550W*1
335	HD-SJ3.3-17-18-200-IN	0.2	0.24	3.3m³/h	17m	1"	2m	550W*1
336	HD-SJ3.3-23-24-300-IN	0.3	0.4	3.3m³/h	23m	1"	2m	550W*1
337	HD-SJ3.3-38-48-550-IN	0.55	0.75	3.3m³/h	38m	1"	2m	550W*2



PERFORMANCE CURVES



TECHNICAL DATA

NO.	Model	Power	Max. Flow	Max. Head	Cable	Solar Panels
338	HD-SDJ4-24-24-300	300	4m³/h	24m	2m	550W*1
339	HD-SDJ4-48-48-500	500	4m³/h	48m	2m	550W*2
340	HD-SDJ4-70-48-600	600	4m³/h	70m	2m	550W*2
341	HD-SDJ4-88-72-750	750	4m³/h	88m	2m	550W*3
342	HD-SDJ4-96-96-900	900	4m³/h	96m	2m	550W*3
343	HD-SDJ7-54-72-750	750	7m³/h	54m	2m	550W*3
344	HD-SDJ7-72-96-900	900	7m³/h	72m	2m	550W*3
345	HD-SDJ7-88-110-1100	1100	7m³/h	88m	2m	550W*3
346	HD-SDJ7-96-110-1300	1300	7m³/h	96m	2m	550W*4
347	HD-SDJ7-116-110-1500	1500	7m³/h	116m	2m	550W*4

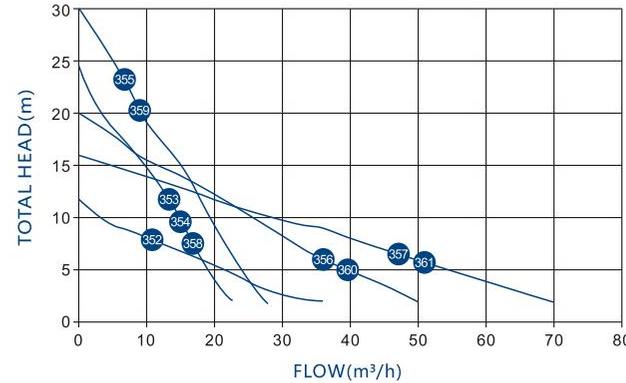
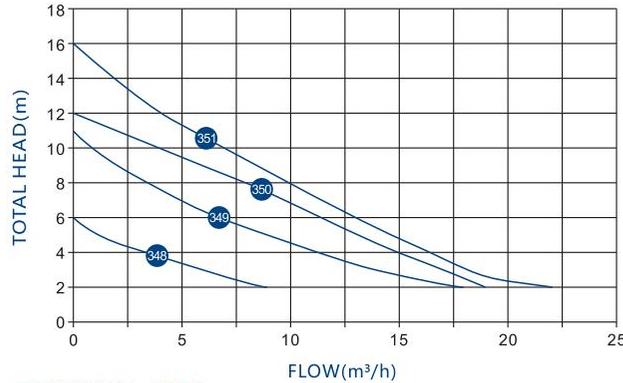


HD-SWP



CONTROLLER (A/D 96V-300V) CONTROLLER (DC 180V-300V) CONTROLLER (DC 24V-110V) SIMPLE CONTROLLER

PERFORMANCE CURVES



TECHNICAL DATA

NO.	Model	Power		Max. Flow	Max. Head	Outlet (inch)	Cable	Solar Panels
		Kw	Hp					
348	HD-SWP9-6-24-300-IN	0.3	0.4	9m³/h	6m	1.5"	2m	550W*1
349	HD-SWP18-11-48-600-IN	0.6	0.8	18m³/h	11m	2"	2m	550W*2
350	HD-SWP19-12-72-750-IN	0.75	1	19m³/h	12m	2"	2m	550W*3
351	HD-SWP22-16-110-1100-IN	1.1	1.5	22m³/h	16m	2"	2m	550W*3
352	HD-SWP36-12-110-1100-IN	1.1	1.5	36m³/h	12m	3"	2m	550W*3
353	HD-SWP23-25-110-1500	1.5	2	23m³/h	25m	2"	2m	550W*4
354	HD-SWP23-25-180-1500	1.5	2	23m³/h	25m	2"	2m	550W*5
355	HD-SWP28-30-280-2200	2.2	3	28m³/h	30m	2"	2m	550W*7
356	HD-SWP50-20-280-2200	2.2	3	50m³/h	20m	3"	2m	550W*7
357	HD-SWP70-16-280-2200	2.2	3	70m³/h	16m	4"	2m	550W*7
358	HD-SWP23-25-180-1500-A/D	1.5	2	23m³/h	25m	2"	2m	550W*5
359	HD-SWP28-30-280-2200-A/D	2.2	3	28m³/h	30m	2"	2m	550W*7
360	HD-SWP50-20-280-2200-A/D	2.2	3	50m³/h	20m	3"	2m	550W*7
361	HD-SWP70-16-280-2200-A/D	2.2	3	70m³/h	16m	4"	2m	550W*7



HD-SCPM

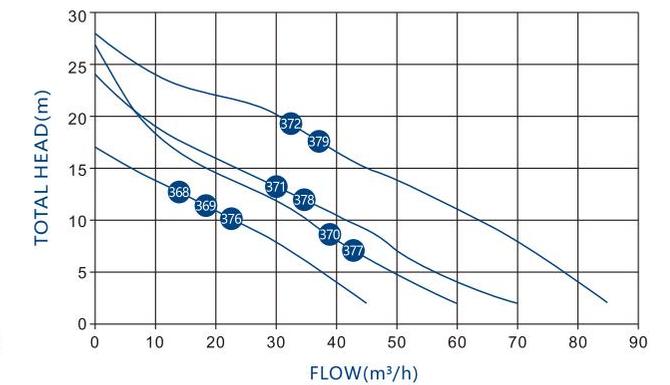
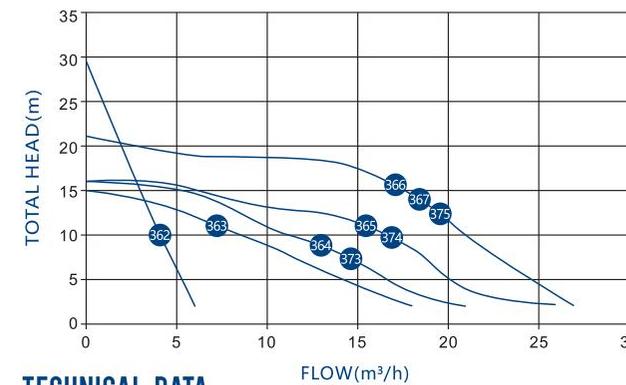


HD-SCPM



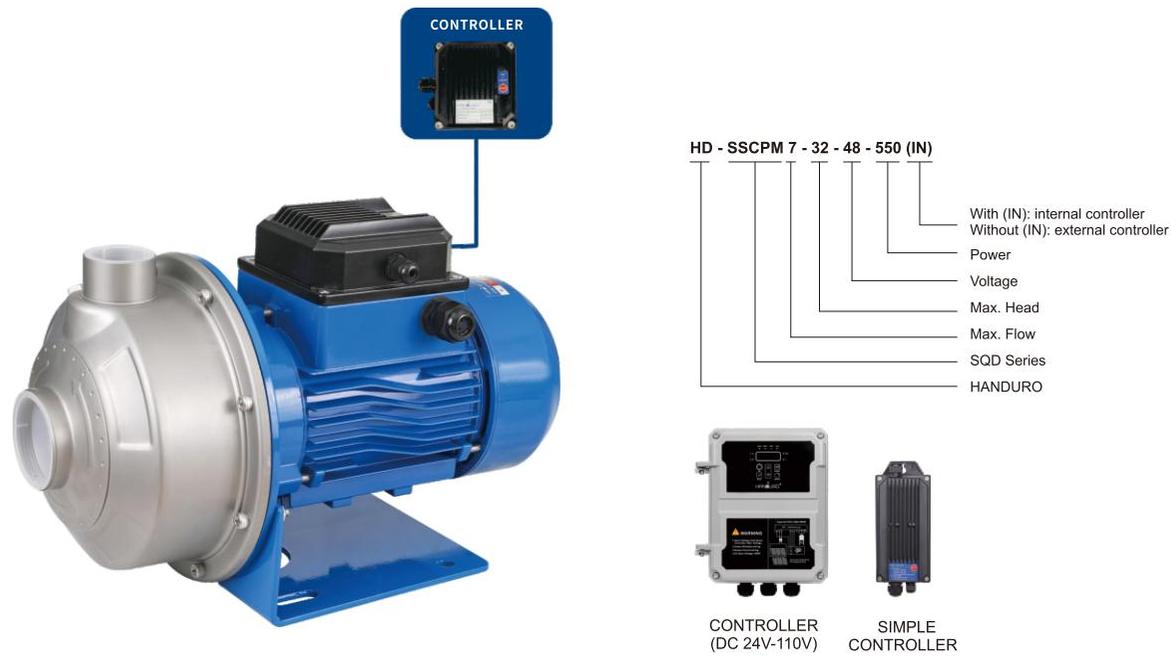
CONTROLLER (A/D 96V-300V) CONTROLLER (DC 180V-300V) CONTROLLER (DC 24V-110V) SIMPLE CONTROLLER

PERFORMANCE CURVES

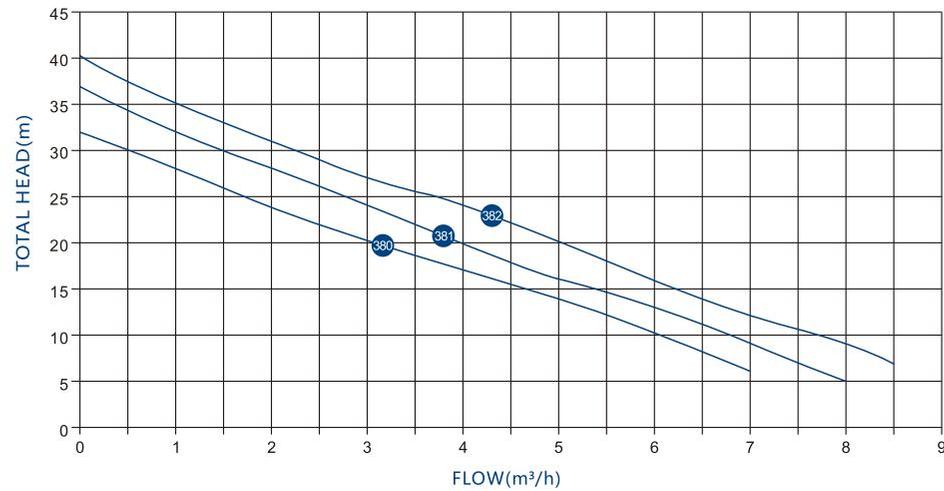


TECHNICAL DATA

NO.	Model	Power		Max. Flow	Max. Head	Outlet (inch)	Cable	Solar Panels
		Kw	Hp					
362	HD-SCPM6-30-48-550(IN)	0.55	0.75	6m³/h	30m	1"	2m	550W*2
363	HD-SCPM18-15-48-550(IN)	0.55	0.75	18m³/h	15m	2"	2m	550W*2
364	HD-SCPM21-16-72-750(IN)	0.75	1	21m³/h	16m	2"	2m	550W*3
365	HD-SCPM26-16-110-1100(IN)	1.1	1.5	26m³/h	16m	2"	2m	550W*3
366	HD-SCPM27-21-110-1500	1.5	2	27m³/h	21m	2"	2m	550W*4
367	HD-SCPM27-21-180-1500	1.5	2	27m³/h	21m	2"	2m	550W*5
368	HD-SCPM45-17-110-1500	1.5	2	45m³/h	17m	3"	2m	550W*4
369	HD-SCPM45-17-180-1500	1.5	2	45m³/h	17m	3"	2m	550W*5
370	HD-SCPM60-27-280-2200	2.2	3	60m³/h	27m	3"	2m	550W*7
371	HD-SCPM70-24-280-2200	2.2	3	70m³/h	24m	4"	2m	550W*7
372	HD-SCPM85-28-300-3000	3	4	85m³/h	28m	4"	2m	550W*8
373	HD-SCPM21-16-96-750-A/D	0.75	1	21m³/h	16m	2"	2m	550W*3
374	HD-SCPM26-16-150-1100-A/D	1.1	1.5	26m³/h	16m	2"	2m	550W*4
375	HD-SCPM27-21-180-1500-A/D	1.5	2	27m³/h	21m	2"	2m	550W*5
376	HD-SCPM45-17-180-1500-A/D	1.5	2	45m³/h	17m	3"	2m	550W*5
377	HD-SCPM60-27-280-2200-A/D	2.2	3	60m³/h	27m	3"	2m	550W*7
378	HD-SCPM70-24-280-2200-A/D	2.2	3	70m³/h	24m	4"	2m	550W*7
379	HD-SCPM85-28-300-3000-A/D	3	4	85m³/h	28m	4"	2m	550W*8



PERFORMANCE CURVES

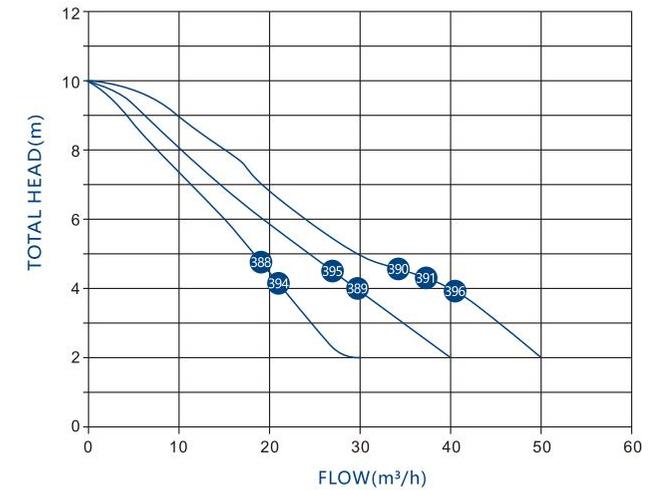
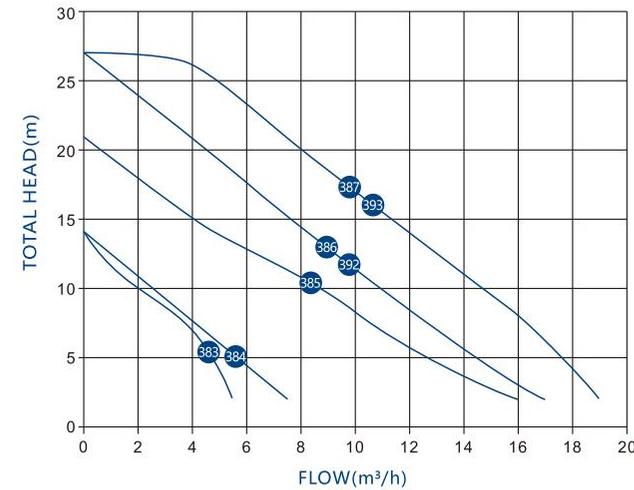


TECHNICAL DATA

NO.	Model	Power		Max. Flow	Max. Head	Outlet (inch)	Cable	Solar Panels
		Kw	Hp					
380	HD-SSCPM7-32-48-550(IN)	0.55	0.75	7m³/h	32m	1.25*1"	2m	
381	HD-SSCPM8-37-72-750(IN)	0.75	1	8m³/h	37m	1.25*1"	2m	
382	HD-SSCPM8.5-40-72-900(IN)	0.9	1.2	8.5m³/h	40m	1.25*1"	2m	



PERFORMANCE CURVES

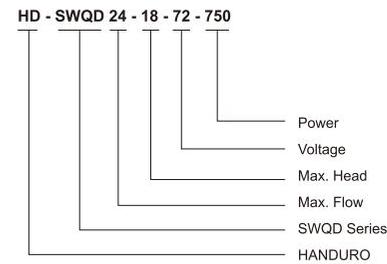


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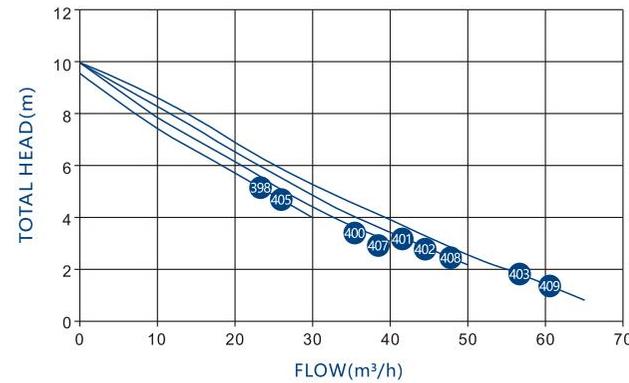
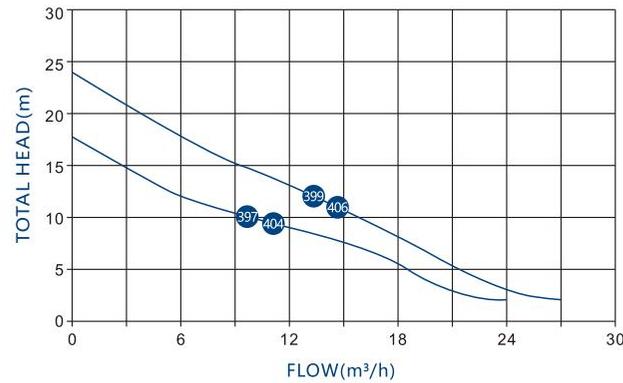
NO.	Model	Power		Max. Flow	Max. Head	Outlet (inch)	Cable	Solar Panels
		Kw	Hp					
383	HD-SQD5.5-14-24-300(IN)	0.3	0.4	5.5m³/h	14m	1"	5m	550W*1
384	HD-SQD7.5-14-24-300(IN)	0.3	0.4	7.5m³/h	14m	1.5"	5m	550W*1
385	HD-SQD16-21-48-600(IN)	0.6	0.8	16m³/h	21m	2"	5m	550W*2
386	HD-SQD17-27-72-750(IN)	0.75	1	17m³/h	27m	2"	5m	550W*3
387	HD-SQD19-27-110-1100(IN)	1.1	1.5	19m³/h	27m	2"	5m	550W*3
388	HD-SQD30-10-72-750	0.75	1	30m³/h	10m	1"	5m	550W*3
389	HD-SQD40-10-110-1100	1.1	1.5	40m³/h	10m	1.5"	5m	550W*3
390	HD-SQD50-10-110-1500	1.5	2	50m³/h	10m	2"	5m	550W*4
391	HD-SQD50-10-180-1500	1.5	2	50m³/h	10m	2"	5m	550W*5
392	HD-SQD17-27-96-750-A/D	0.75	1	17m³/h	27m	2"	5m	550W*3
393	HD-SQD19-27-150-1100-A/D	1.1	1.5	19m³/h	27m	3"	5m	550W*4
394	HD-SQD30-10-96-750-A/D	0.75	1	30m³/h	10m	3"	5m	550W*3
395	HD-SQD40-10-150-1100-A/D	1.1	1.5	40m³/h	10m	3"	5m	550W*4
396	HD-SQD50-10-180-1500-A/D	1.5	2	50m³/h	10m	3"	5m	550W*5



HD-SWQD



PERFORMANCE CURVES



TECHNICAL DATA

NO.	Model	Power		Max. Flow	Max. Head	Outlet (inch)	Cable	Solar Panels
		Kw	Hp					
397	HD-SWQD24-18-72-750	0.75	1	24m³/h	18m	2"	5m	550W*3
398	HD-SWQD30-9-72-750	0.75	1	30m³/h	9m	3"	5m	550W*3
399	HD-SWQD27-24-110-1100	1.1	1.5	27m³/h	24m	2"	5m	550W*3
400	HD-SWQD40-10-110-1100	1.1	1.5	40m³/h	10m	3"	5m	550W*3
401	HD-SWQD50-10-110-1500	1.5	2	50m³/h	10m	3"	5m	550W*4
402	HD-SWQD50-10-180-1500	1.5	2	50m³/h	10m	3"	5m	550W*5
403	HD-SWQD65-10-280-2200	2.2	3	65m³/h	10m	4"	5m	550W*7
404	HD-SWQD24-18-96-750-A/D	0.75	1	24m³/h	18m	2"	5m	550W*3
405	HD-SWQD30-9-96-750-A/D	0.75	1	30m³/h	9m	3"	5m	550W*3
406	HD-SWQD27-24-150-1100-A/D	1.1	1.5	27m³/h	24m	2"	5m	550W*4
407	HD-SWQD40-10-150-1100-A/D	1.1	1.5	40m³/h	10m	3"	5m	550W*4
408	HD-SWQD50-10-180-1500-A/D	1.5	2	50m³/h	10m	3"	5m	550W*5
409	HD-SWQD65-10-280-2200-A/D	2.2	3	65m³/h	10m	4"	5m	550W*7



TECHNICAL DATA

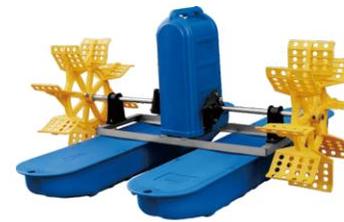
NO.	Model	Power		Max. Flow	Max. Head	Outlet (inch)	Cable	Solar Panels
		Kw	Hp					
410	HD-SA20-5-24-370	0.37	0.5	20m³/h	5m		2m	550W*3
411	HD-SA27-5-72-750	0.75	1	27m³/h	5m	3"	2m	550W*3
412	HD-SA32-7-110-1100	1.1	1.5	32m³/h	7m	3"	2m	550W*4
413	HO-SA43-7-110-1500	1.5	2	43m³/h	7m	3"	2m	550W*5
414	HO-SA43-7-180-1500	1.5	2	43m³/h	7m	3"	2m	550W*7
415	HD-SA60-5-280-2200	2.2	3	60m³/h	5m	4"	2m	550W*3
416	HD-SA27-5-96-750-A/D	0.75	1	27m³/h	5m	3"	2m	550W*4
417	HD-SA32-7-150-1100-A/D	1.1	1.5	32m³/h	7m	3"	2m	550W*5
418	HO-SA43-7-180-1500-A/D	1.5	2	43m³/h	7m	3"	2m	550W*7
419	HD-SA60-5-280-2200-A/D	2.2	3	60m³/h	5m	4"	2m	550W*7



Solar Aerator

TECHNICAL DATA

NO.	Model	Power		Oxygenation rate	Covering Area (m²)	QTY of impeller	Cable	Solar Panels
		Kw	Hp					
420	HD-SWA-110-1500	1.5	2	≥ 1.1	2000-6000	4	2m	550W*4
421	HD-SWA-180-1500	1.5	2	≥ 1.1	2000-6000	4	2m	550W*5
422	HD-SWA-280-2200	2.2	3	≥ 1.5	2665-8000	6	2m	550W*7



Solar Paddle Wheel Aerator

NO.	Model	Power		Oxygenation rate	Covering Area (m²)	QTY of impeller	Cable	Solar Panels
		Kw	Hp					
423	HD-SWA-180-1500-A/D	1.5	2	≥ 1.1	2000-6000	4	2m	550W*5
424	HD-SWA-280-2200-A/D	2.2	3	≥ 1.5	2665-8000	6	2m	550W*7

TECHNICAL DATA

NO.	ITEM	Voltage	P <sub>2</sub>		Oxygenation rate (kgo/h)	Covering Area(m²)	Solar Panel		Solar Panels
			KW	HP			open voltage	power	
425	HD-SIA-110-1500	110V	1.5	2	≥ 1.6	2000-4000	<210V	≥2000W	550W*4
426	HD-SIA-180-1500	180V	1.5	2	≥ 1.6	2000-4000	<430V	≥2000W	550W*5



Solar Impeller Aerator

NO.	ITEM	AC Voltage	DC Voltage	P <sub>2</sub>		Oxygenation rate (kgo/h)	Covering Area(m²)	Solar Panel		Solar Panels
				KW	HP			open voltage	power	
427	HD-SIA-180-1500-A/D	110V-240V	60V-430V	1.5	2	≥ 1.6	2000-4000	<430V	≥ 2000W	550W*5
428	HD-SIA-280-2200-A/D	180V-240V	60V-430V	2.2	3	≥ 1.8	2665-5320	<430V	≥ 3000W	550W*7
429	HD-SIA-300-3000-A/D	350V-460V	60V-430V	3	4	≥ 4.5	2665-5328	<800V	≥ 4000W	550W*8

TECHNICAL DATA

NO.	ITEM	Voltage	P <sub>2</sub>		Oxygenation rate (kgo/h)	Covering Area(m²)	Solar Panel		Solar Panels
			KW	HP			open voltage	power	
430	HD-SPQ-110-1100	110V	1.1	1.5	≥1.1	2000-3500	<220V	≥1500W	550W*3
431	HD-SPQ-110-1500	110V	1.1	1.5	≥1.5	3500-5500	<220V	≥2000W	550W*4
432	HD-SPQ-180-1500	180V	1.5	2	≥1.5	3500-5500	<430V	≥2000W	550W*5
433	HD-SPQ-280-2200	280V	2.2	3	≥3	5500-8000	<430V	≥3000W	550W*7



Steam explosion

NO.	ITEM	AC Voltage	DC Voltage	P <sub>2</sub>		Oxygenation rate (kgo/h)	Covering Area(m²)	Solar Panel		Solar Panels
				KW	HP			open voltage	power	
434	HD-SPQ-180-1500-A/D	110V-240V	60V-430V	1.5	2	≥1.5	3500-5500	<430V	≥2000W	550W*5
435	HD-SPQ-280-2200-A/D	110V-240V	60V-430V	2.2	3	≥3	5500-8000	<430V	≥3000W	550W*7

## SOLAR CONTROLLER

CONTROLLER (DC 24V-110V)	CONTROLLER (DC 180V-300V)	CONTROLLER (A/D 96V-300V)
AUTO TYPE (3000W-5500W)	MANUAL TYPE(15KW-22KW)	MANUAL TYPE (3000-11000W)
LV CONTROLLER	HYBIRD CONTROLLER	SIMPLE CONTROLLER

## CONTROLLER AND PUMP MATACHING METHOD

CONTROLLER TYPE	Adaptable Pump	Max.Input Current(A)	Max.Open Circuit Voltage(V)	AC Voltage(V)	MPPT Voltage Range(V)	Working Temperature °C	Voltage Range (V)
HD-24	Rated 24V	18	<60	/	30-48	-15~60	18-60
HD-36	Rated 36V	18	<60	/	30-48	-15~60	18-60
HD-48	Rated 48V	18	<110	/	60-90	-15~60	30-110
HD-72	Rated 72V	18	<170	/	90-120	-15~60	50-170
HD-96/110	Rated 96/110V	18	<220	/	96-150	-15~60	60-220
HD-96-HV	Rated 96V-HV	18	<430	/	96-350	-15~60	80-430
HD-150-HV	Rated 150V-HV	18	<430	/	150-350	-15~60	80-430
HD-180-HV	Rated 180V-HV	18	<430	/	180-350	-15~60	80-430
HD-280-HV	Rated 280V-HV	18	<430	/	280-350	-15~60	80-430
HD-300-HV	Rated 300V-HV	18	<430	/	300-350	-15~60	80-430
HD-96-AD	Rated 96V-AD	18	<430	80~280	96-350	-15~60	80-430
HD-150-AD	Rated 150V-AD	18	<430	80~280	150-350	-15~60	80-430
HD-180-AD	Rated 180V-AD	18	<430	80~280	180-350	-15~60	80-430
HD-280-AD	Rated 280V-AD	18	<430	80~280	280-350	-15~60	80-430
HD-300-AD	Rated 300V-AD	18	<430	80~280	300-350	-15~60	80-430
HD-530-AD	Rated 530V-AD		<780	260~480	480-650	-15~60	200-780

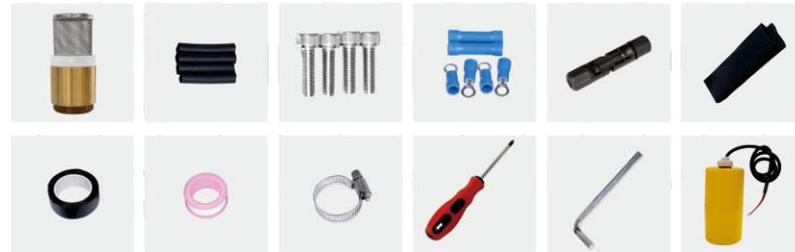
PUMP MODEL (Power-Voltage)	SOLAR PANEL PARAMETER				Control Box Parameter	
	450W		550W			
	G.W.	Volume	G.W.	Volume	Best Working Voltage	Open Voltage
	23kg/pc	1762*1134*35mm	27kg/pc	2278*1134*35mm		
Vmp	Voc	Vmp	Voc			
	43V	51V	42V	51V		
120W-24V						
210W-24V	1 pcs				30V-48V	<60V
210W-36V						
280W-24V						
300W-24V	1 pcs				30V-48V	<60V
400W-48V	2 pcs in series				60V-90V	<110V
500W-48V	2 pcs in series				60V-90V	<110V
550W-48V						
600W-48V	2 pcs in series				60V-90V	<110V
600W-72V	2 or 3 pcs in series				90V-120V	<170V
750W-72V	3 pcs in series				90V-120V	<170V
900W-72V	3 pcs in series				90V-120V	<170V
1100W-110V	4 pcs in series				110V-150V	<220V
1200W-110V	4 pcs in series				110V-150V	<220V
1300W-110V						
1500W-110V	4 pcs in series				110V-150V	<220V
750W-96V	3 pcs in series				96V-350V	<430V
1100W-150V	4 pcs in series				150V-350V	<430V
1300W-170V	5 pcs in series				170V-350V	<430V
1500W-180V	5 pcs in series				180V-350V	<430V
2200W-280V	7 pcs in series				280V-350V	<430V
3000W-300V	8 pcs in series				300V-350V	<430V
3000W-530V	12 pcs in series				480V-650V	<780V
4000W-530V	12 pcs in series				480V-650V	<780V
5500W-530V	15 pcs in series				480V-650V	<780V
7500W-530V	total 24pcs, 12pcs in series and in 2 parallels				480V-530V	<780V
9200W-530V	total 30pcs, 15pcs in series and in 2 parallels				480V-530V	<780V
11KW-530V	total 36pcs, 12pcs in series and in 3 parallels				480V-530V	<780V
15KW-530V	total 48pcs, 12pcs in series and in 4 parallels				480V-530V	<780V
22KW-530V	total 60pcs, 12pcs in series and in 5 parallels				480V-530V	<780V



FREE ACCESSORIES



FREE ACCESSORIES



FREE ACCESSORIES

