DC Brush-less Motor

4DC

The 4DC Brush-less motor is designed to work with a TGP Hybrid solar inverter, which is an off-grid solar inverter that supports both AC and DC input. This technology is more efficient at lower voltages and requires fewer PV Panels to operate.

Technical Data:

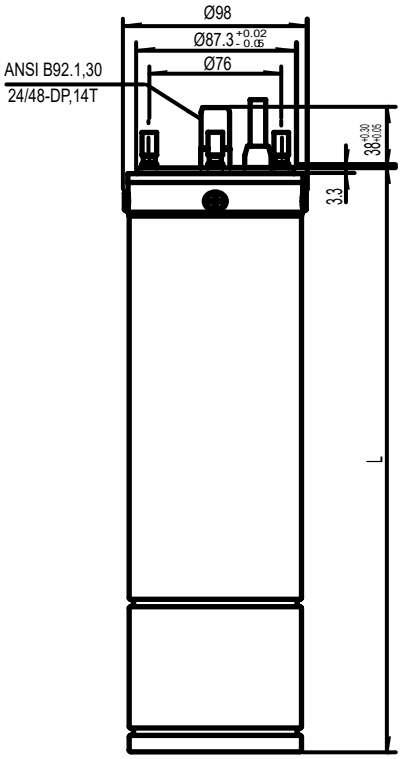
- Power Rating - 0.75kW up to 2.2kW
- Voltage - 110V up to 300V
- Max Submersion Depth - 70m
- Operating Speed - 500 - 3000 rpm
- Isolation - Class B
- Material of Construction - 304 Stainless Steel
- Flange Connection - Nema Standard

Working Conditions:

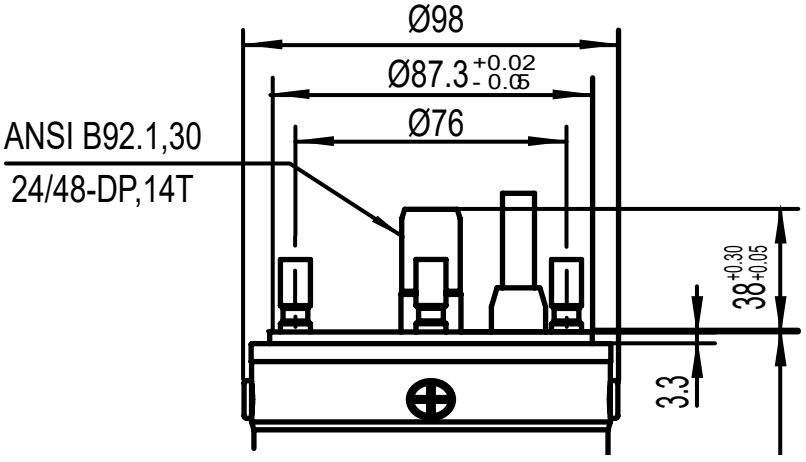
- Max control box ambient temperature: 35°C

	4DC110/0.75kW	4DC150/1.1kW	4DC200/1.5kW	4DC300/2.2kW
Voltage	110V	150V	200V	300V
Max Amps	12A	12A	12A	12A
Weight	5.8kg	5.8kg	5.8kg	7kg
Required Input Watt	1100W	1500W	2200W	3000W

Dimensions:



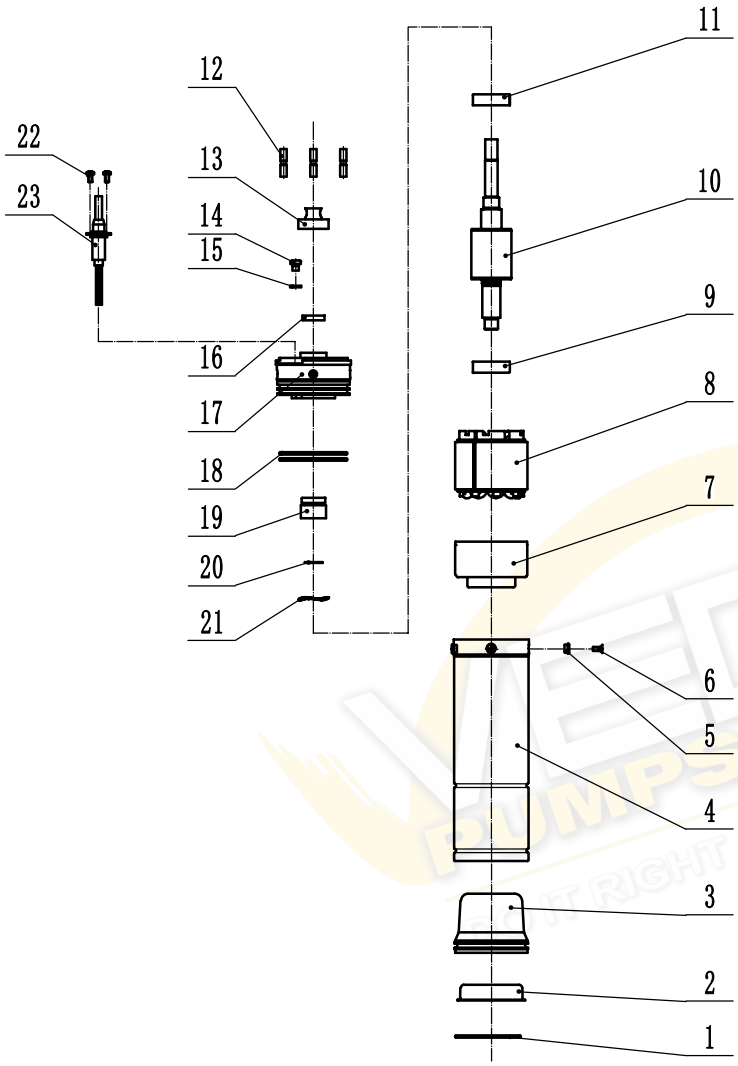
Model	L : Dimension (mm)
4DC110/0.75kW	260
4DC150/1.1kW	260
4DC200/1.5kW	260
4DC300/2.2kW	270



DC Brush-less Motor

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Exploded View:



No	Description	QTY
1	Retaining Ring	1
2	Baseplate	1
3	Diaphragm	1
4	Casing	1
5	Gasket	4
6	Screw	4
7	Bearing Seat	1
8	Stator	1
9	Bearing	1
10	Rotor	1
11	Bearing	1
12	Screw	4
13	Protection Cap	1
14	Screw	1
15	Rubber Washer	1
16	Frame Seal	1
17	Oil Cylinder	1
18	O Ring	2
19	Mechanical Seal	1
20	Retaining Ring	1
21	Wave Spring	1
22	Screw	2
23	Cable Entry	1

DC Brush-less Motor

MINIMUM INVERTER VOLTAGE

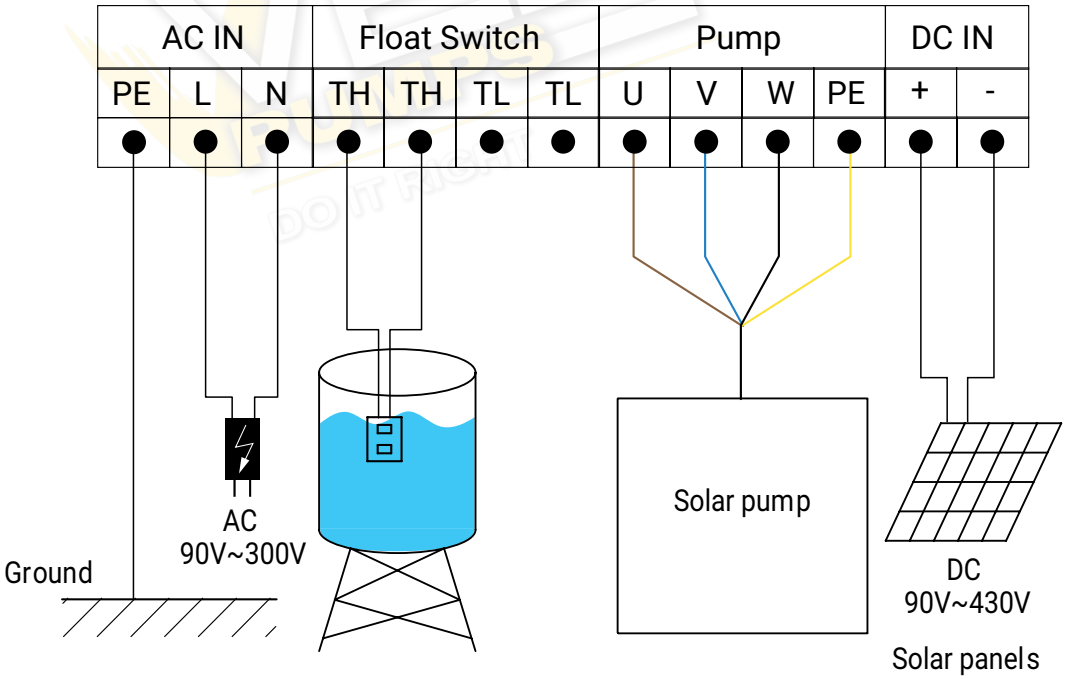
HYBRID/AUTO Mode

Motor Type	Motor Input Voltage	Inverter kW:	Max DC VOC	Max DC Isc	Minimum DC VMPP	Minimum IMPP
DC Brush-less	110	0.75	430	17	340	10
DC Brush-less	150	1.1	430	17	340	10
DC Brush-less	200	1.5	430	17	340	10
DC Brush-less	300	2.2	430	17	340	10

DC only Mode

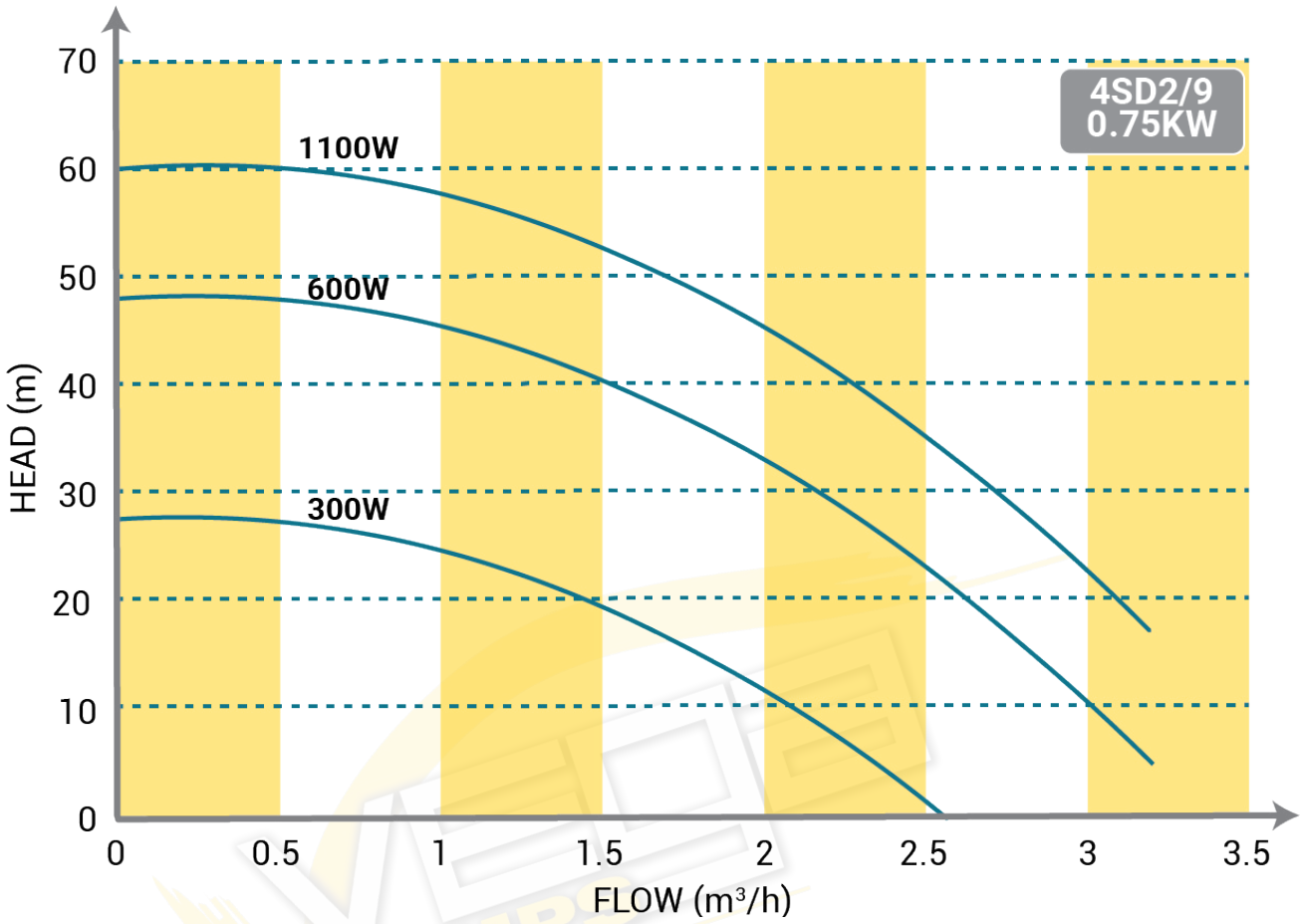
Motor Type	Motor Input Voltage	Inverter kW:	Max DC VOC	Max DC Isc	Minimum DC VMPP	Minimum IMPP
DC Brush-less	110	0.75	430	17	110	10
DC Brush-less	150	1.1	430	17	150	10
DC Brush-less	200	1.5	430	17	200	10
DC Brush-less	300	2.2	430	17	300	10

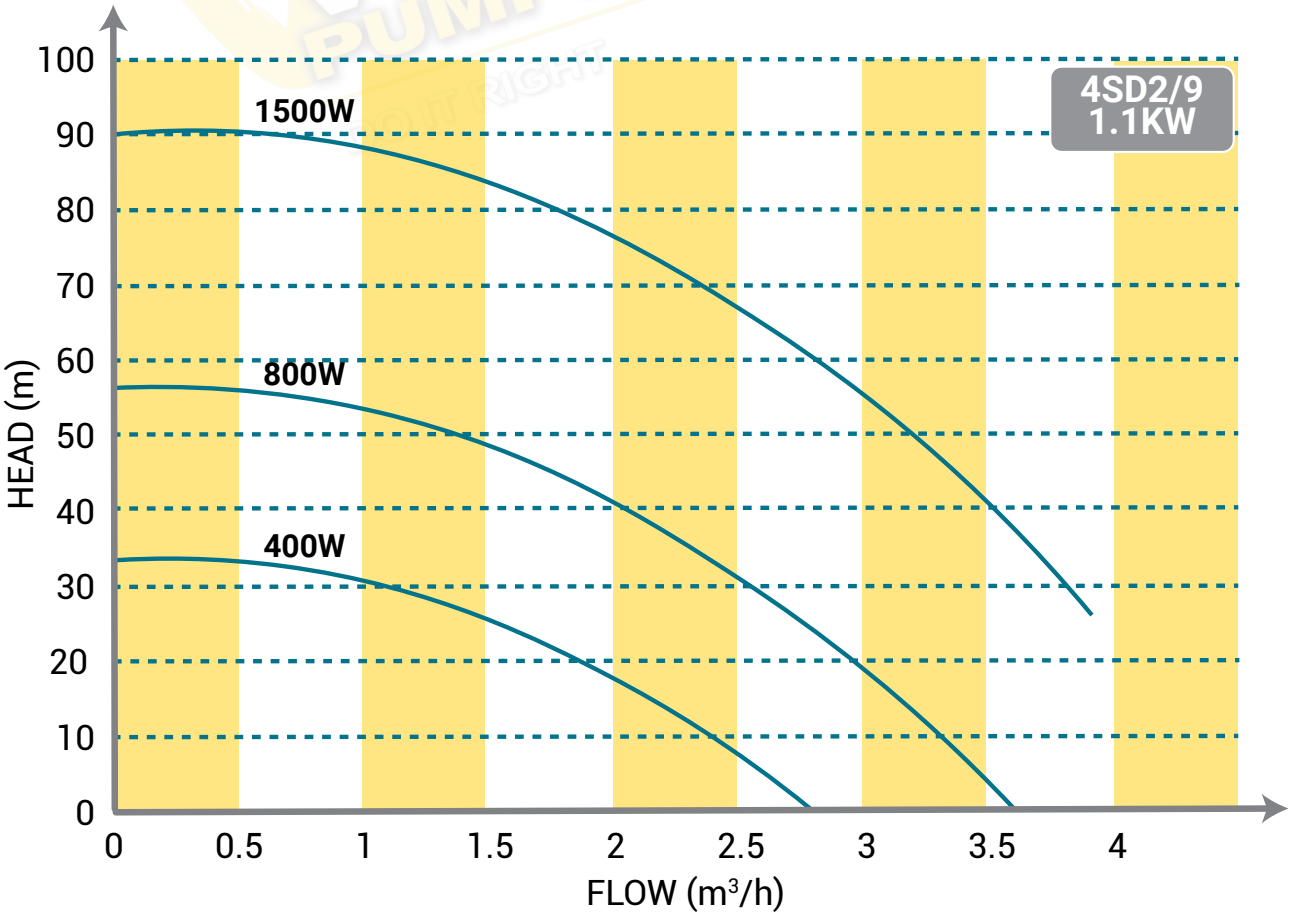
BLDC PUMP WIRING



Compatible Wet Ends

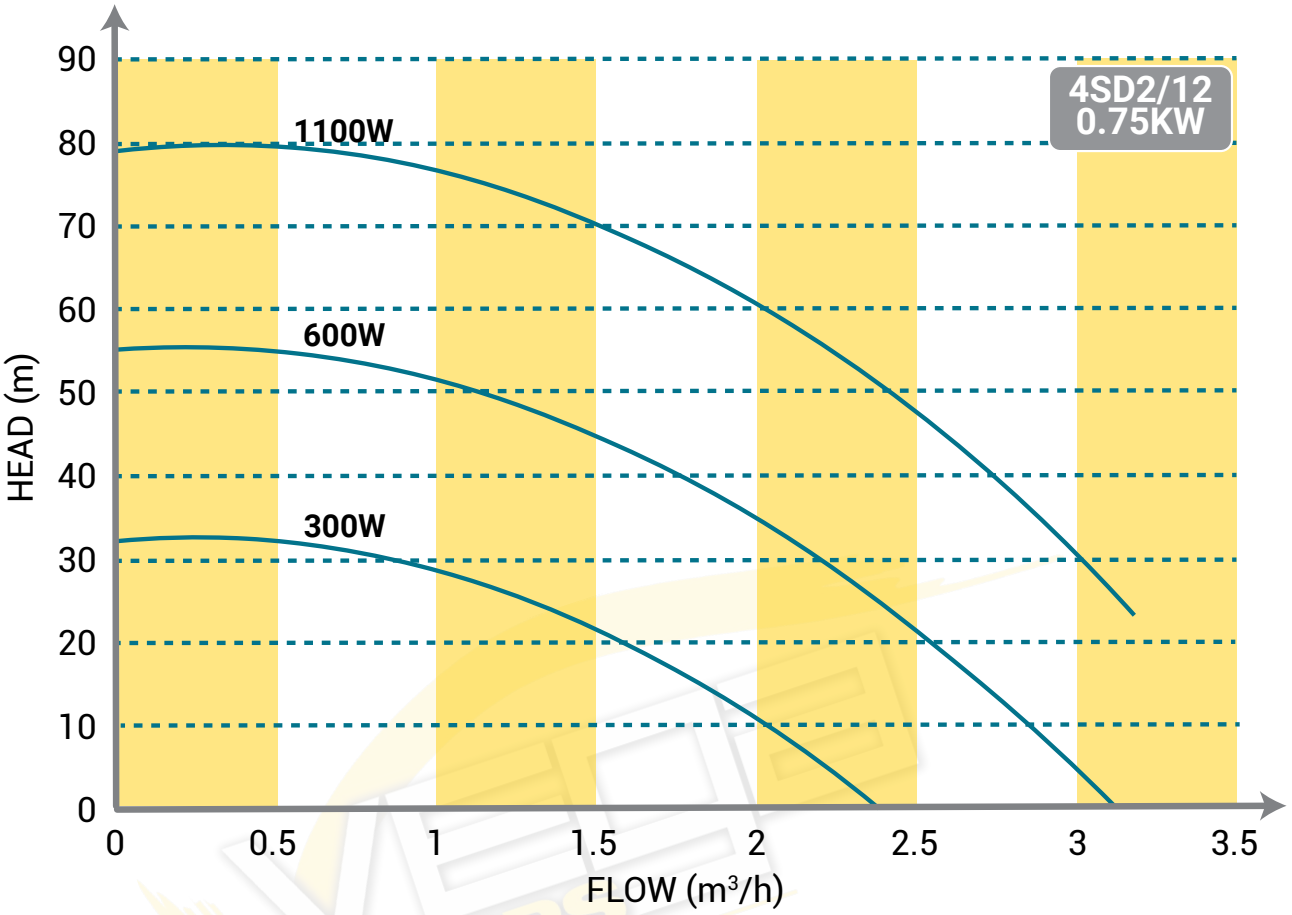
4SD2

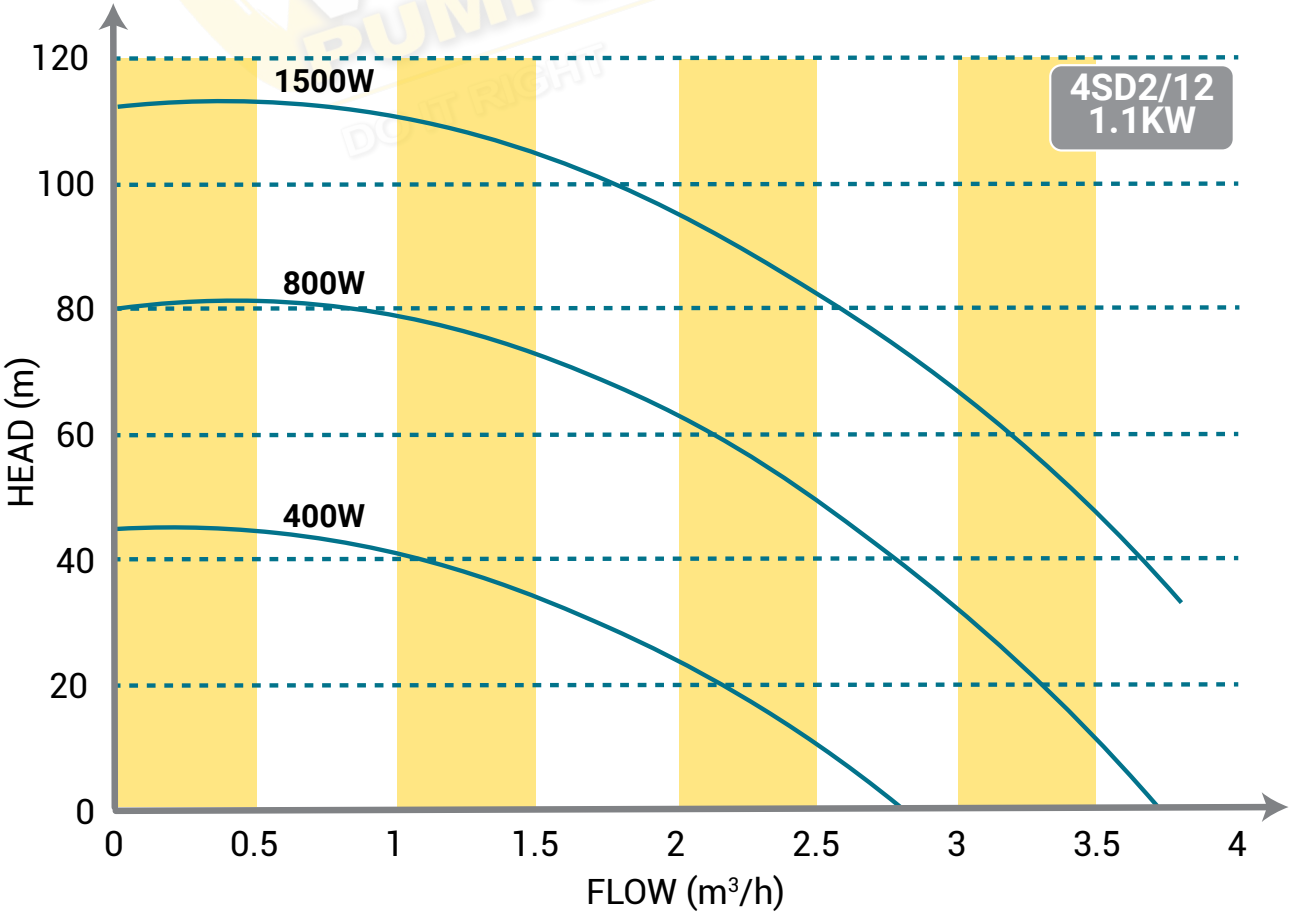




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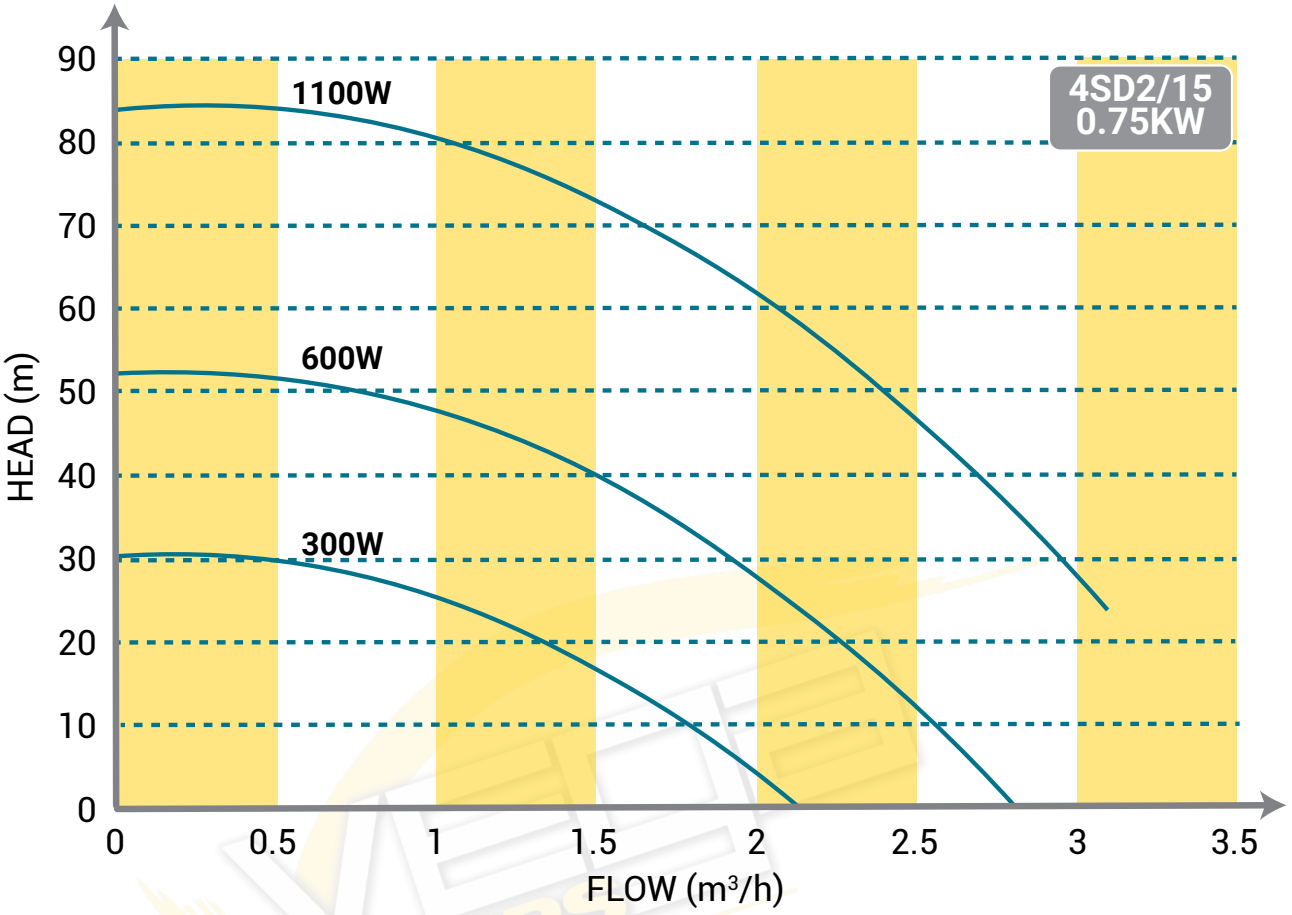
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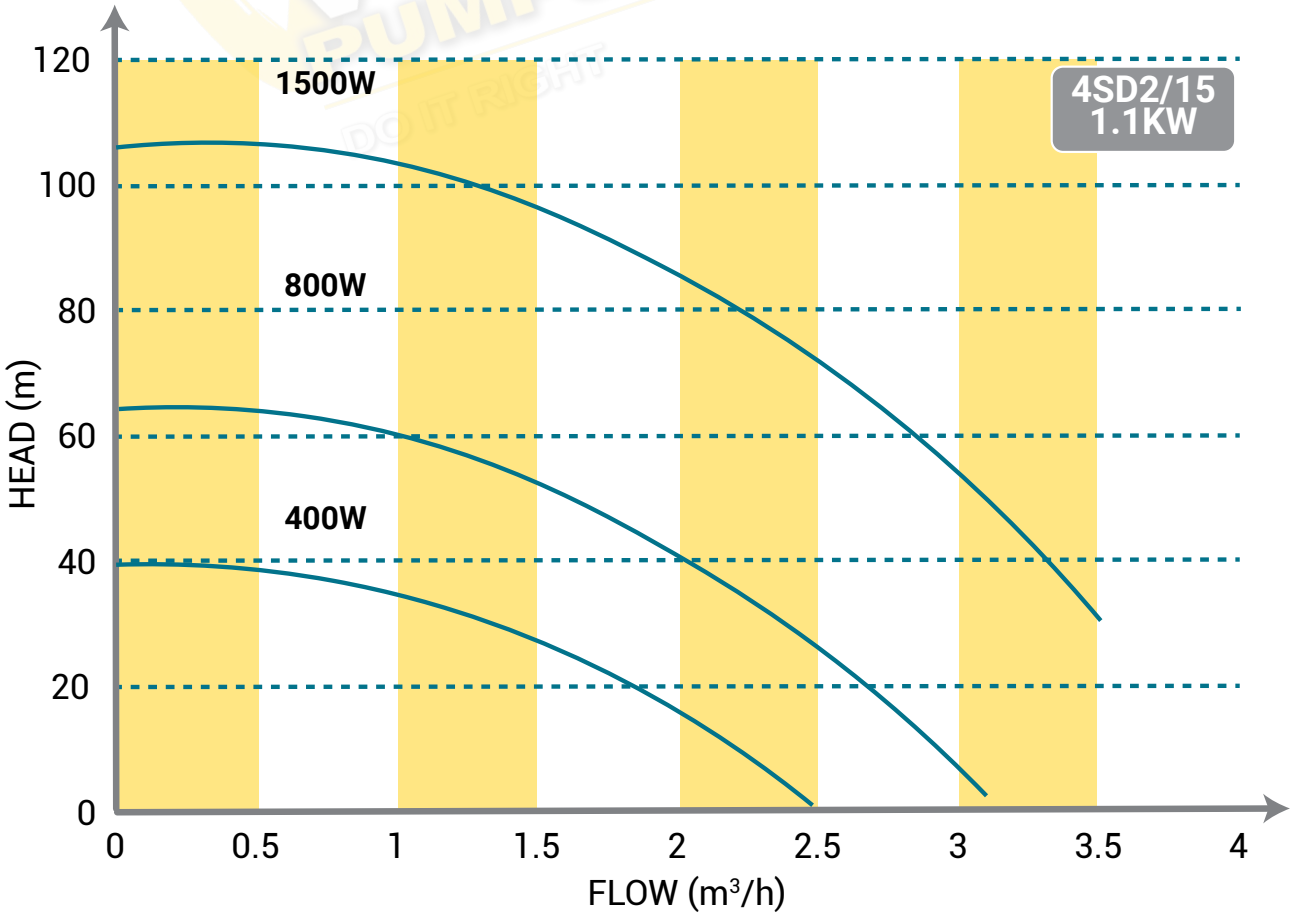




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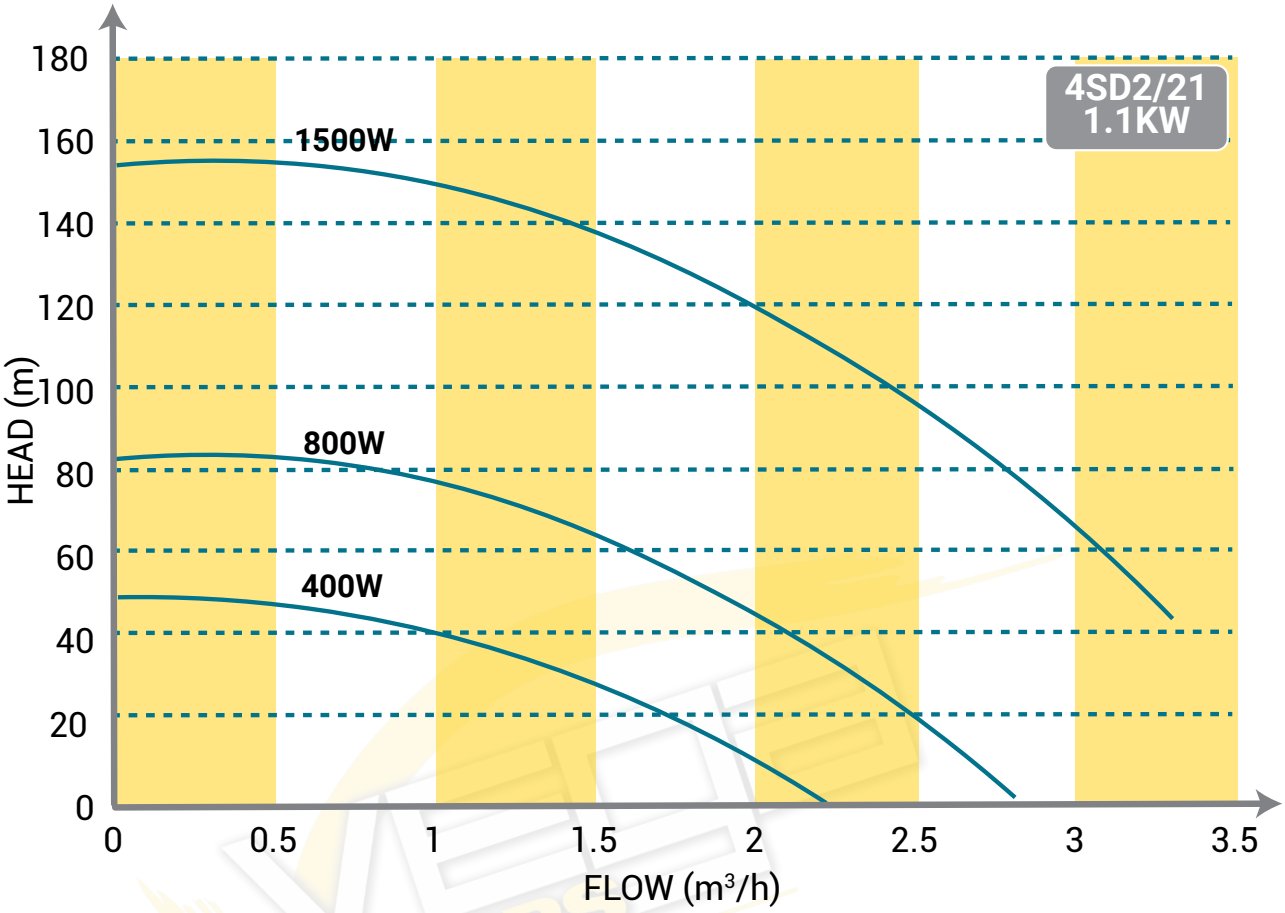
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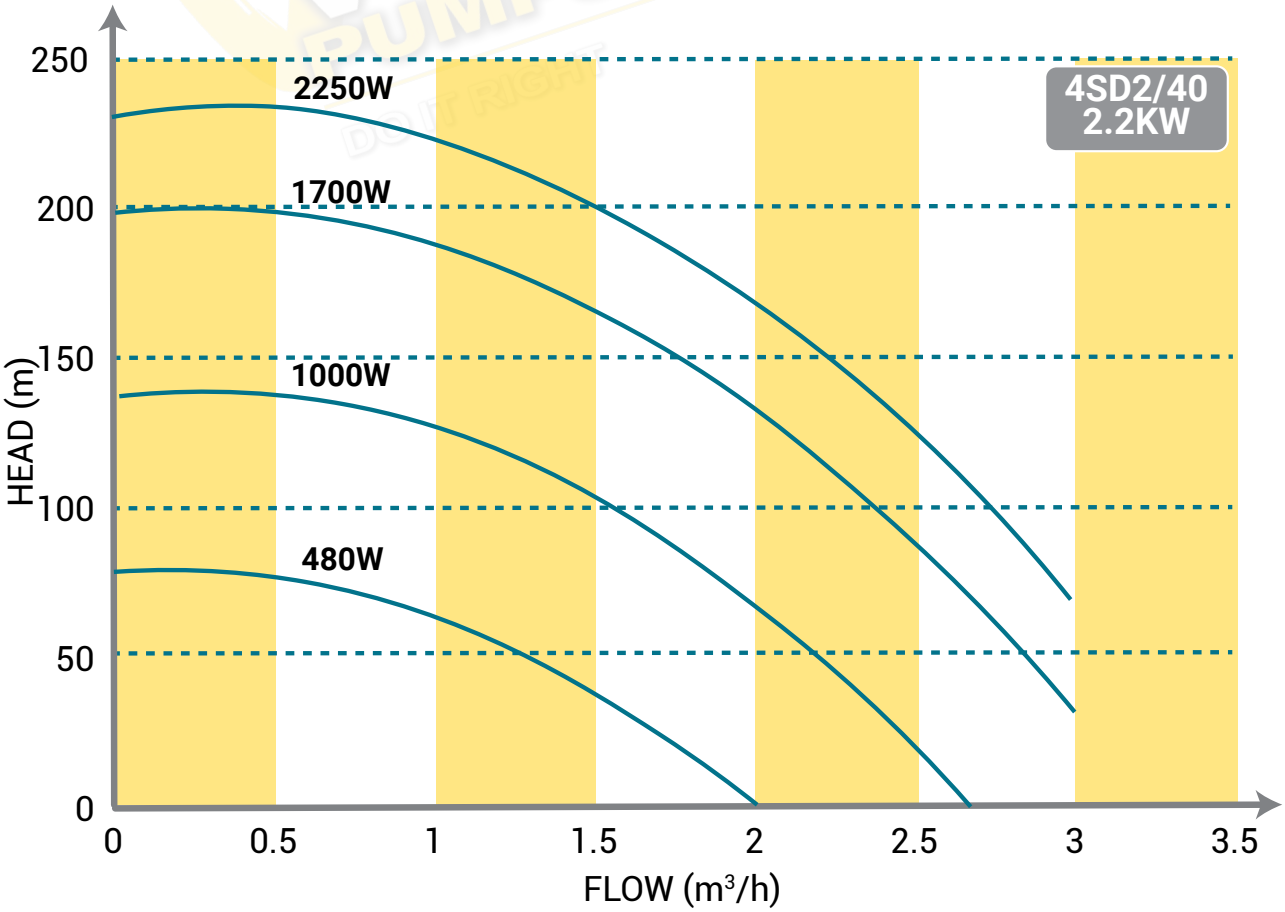




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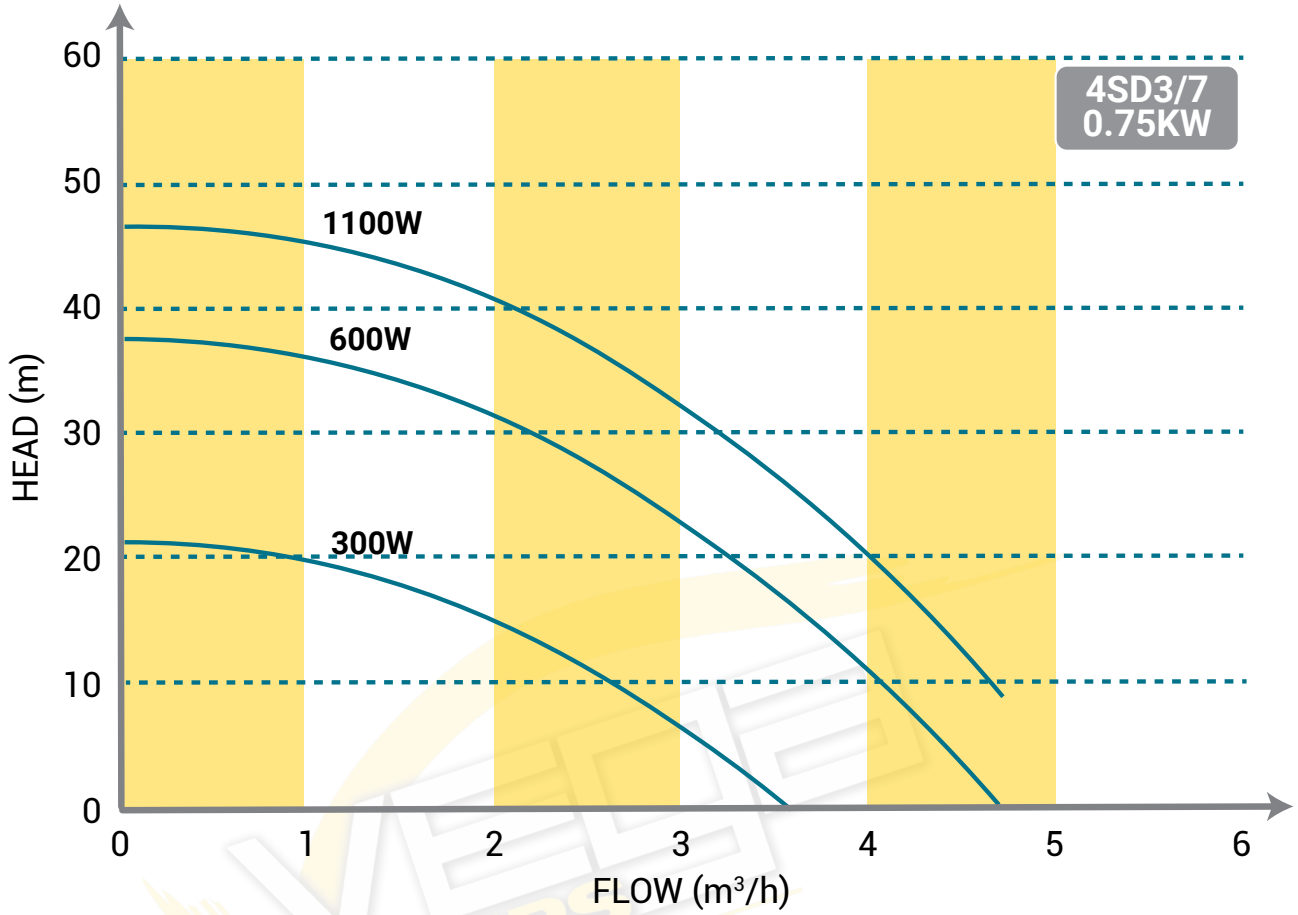
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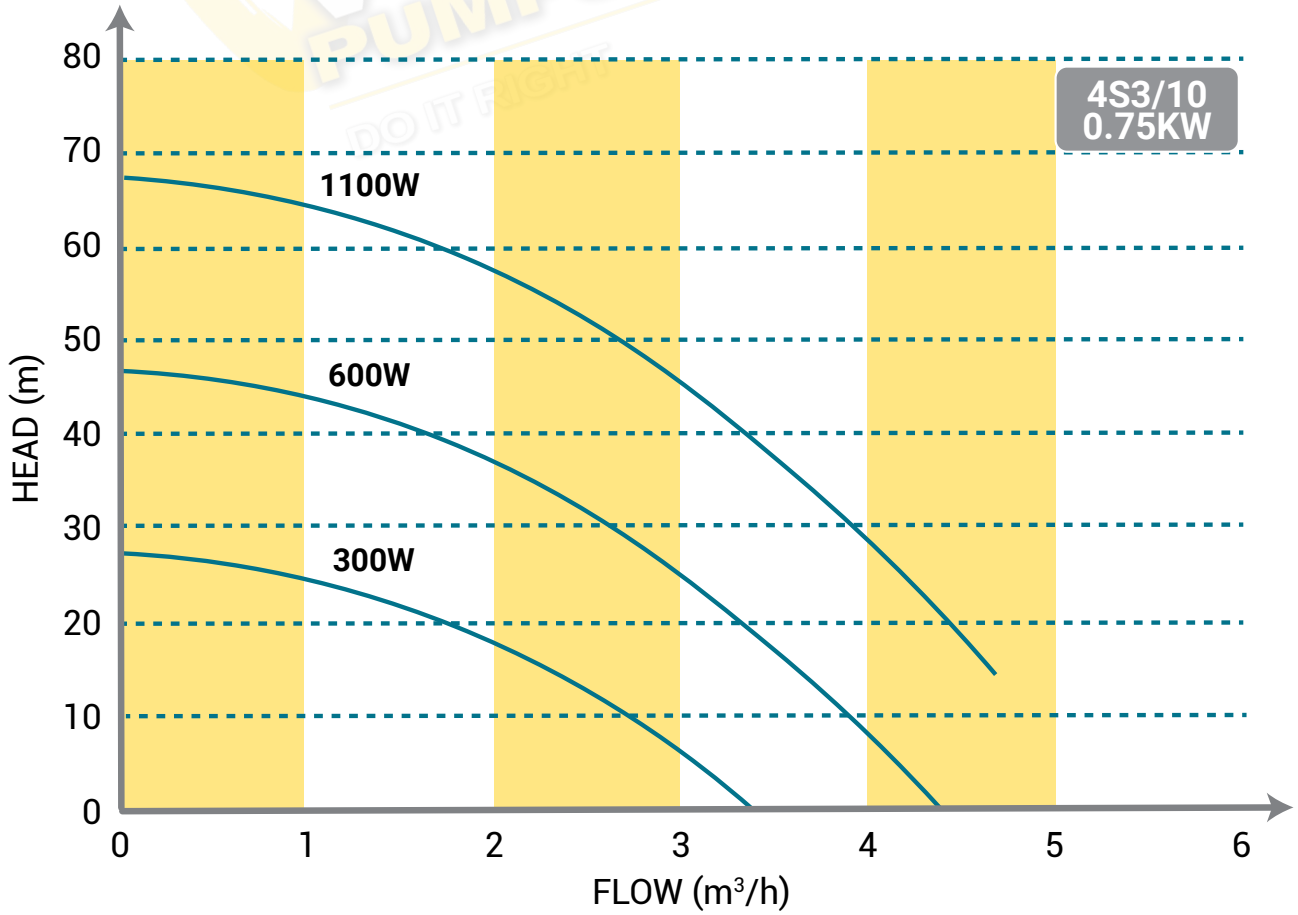




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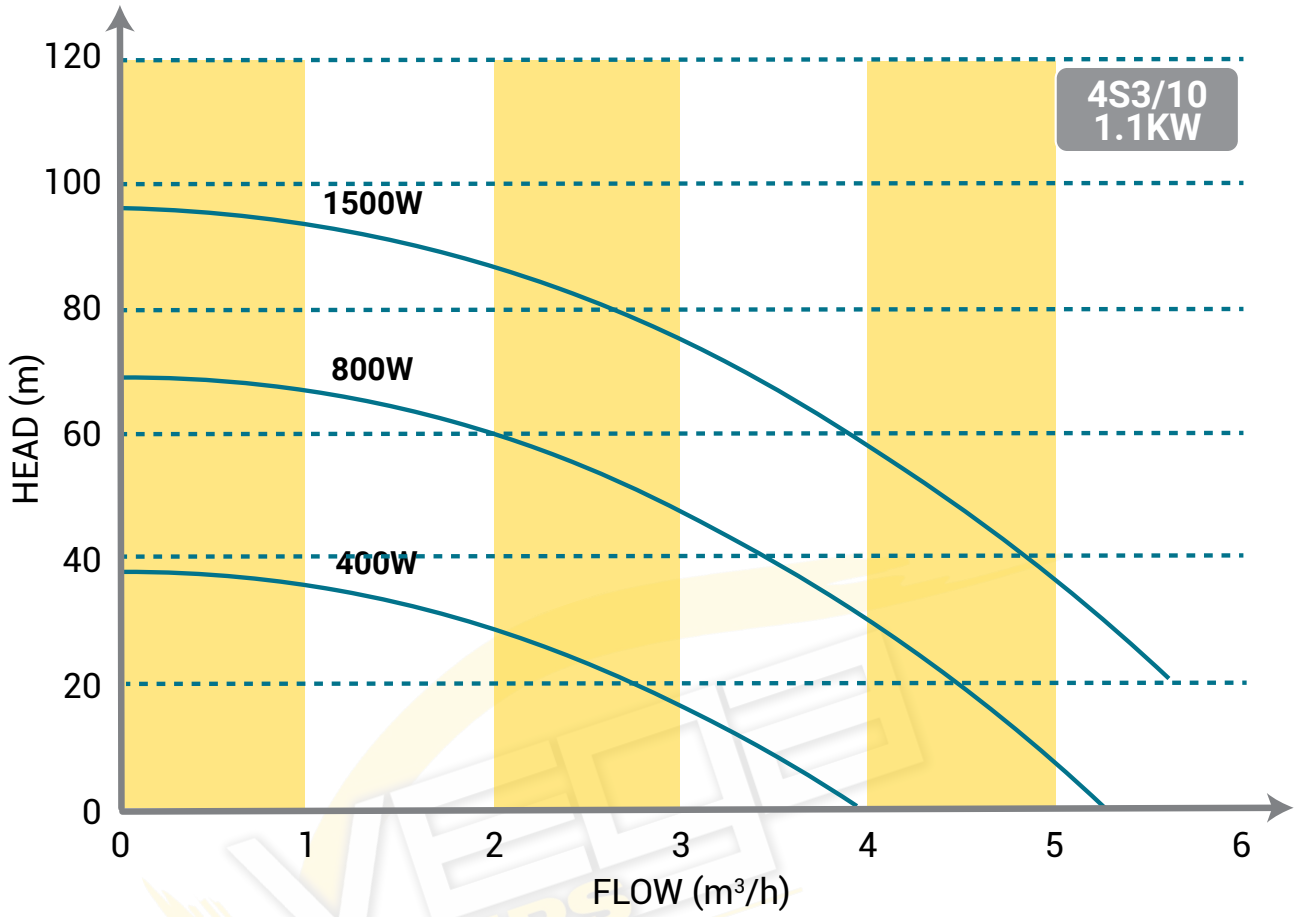
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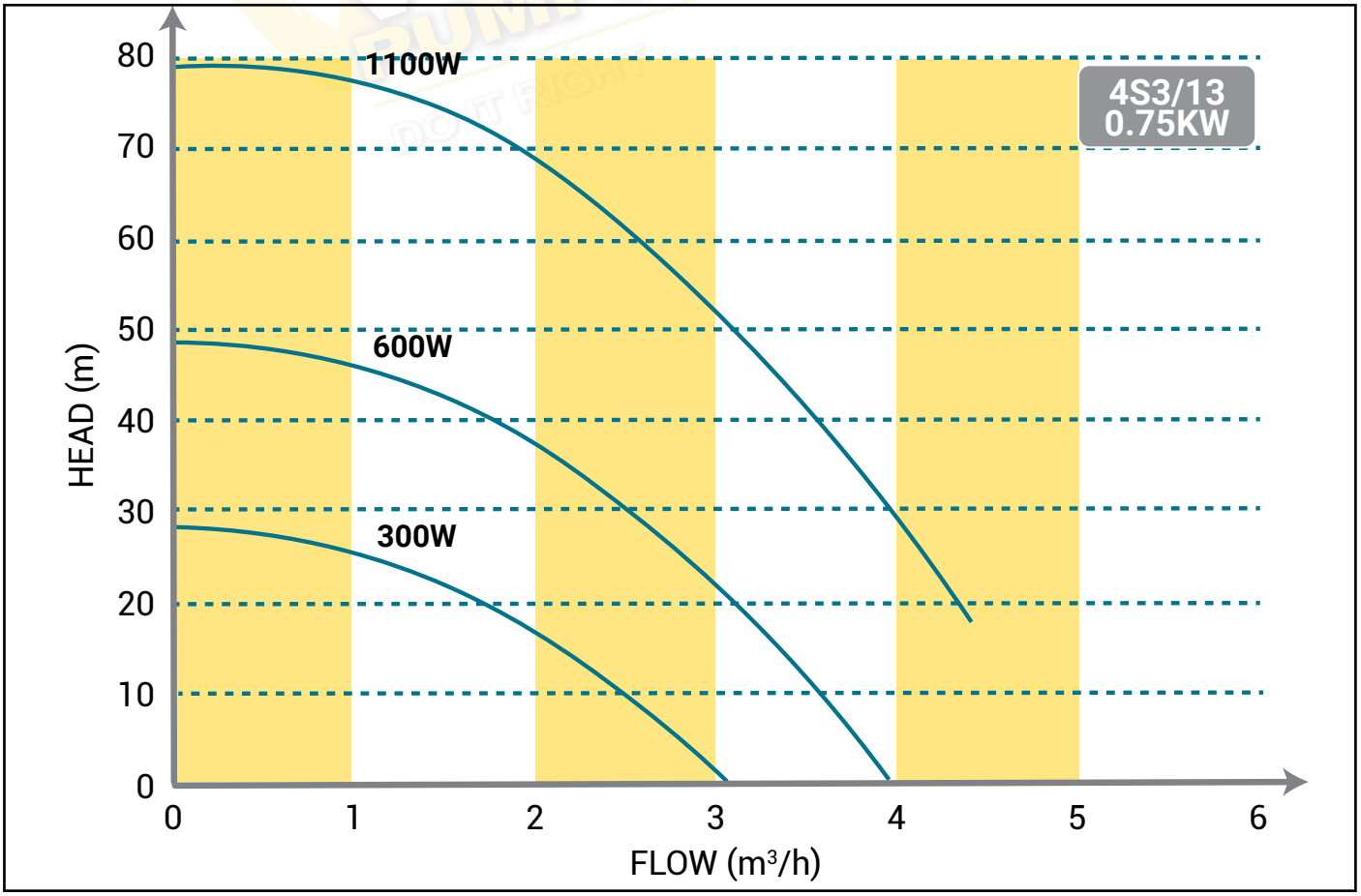




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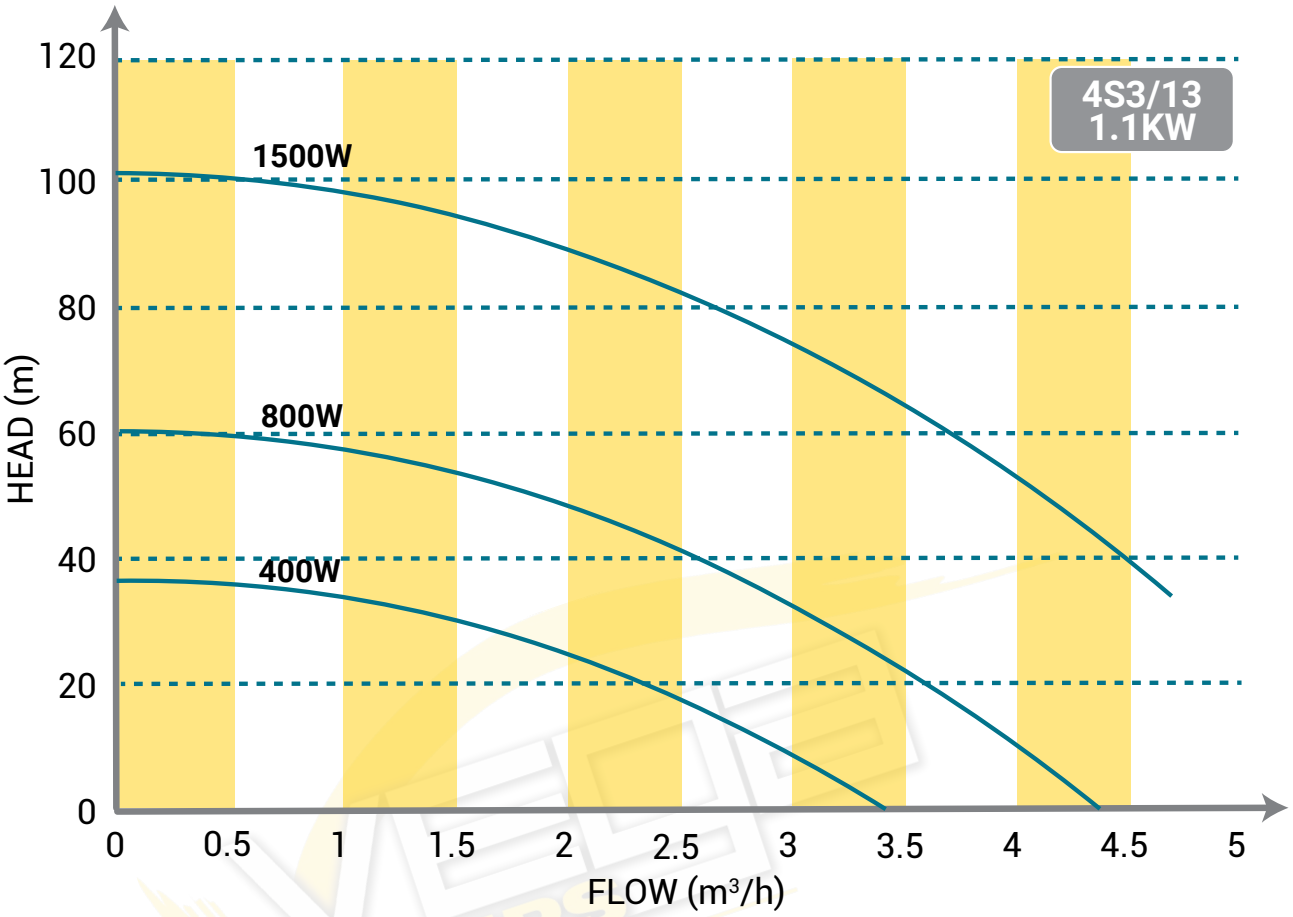
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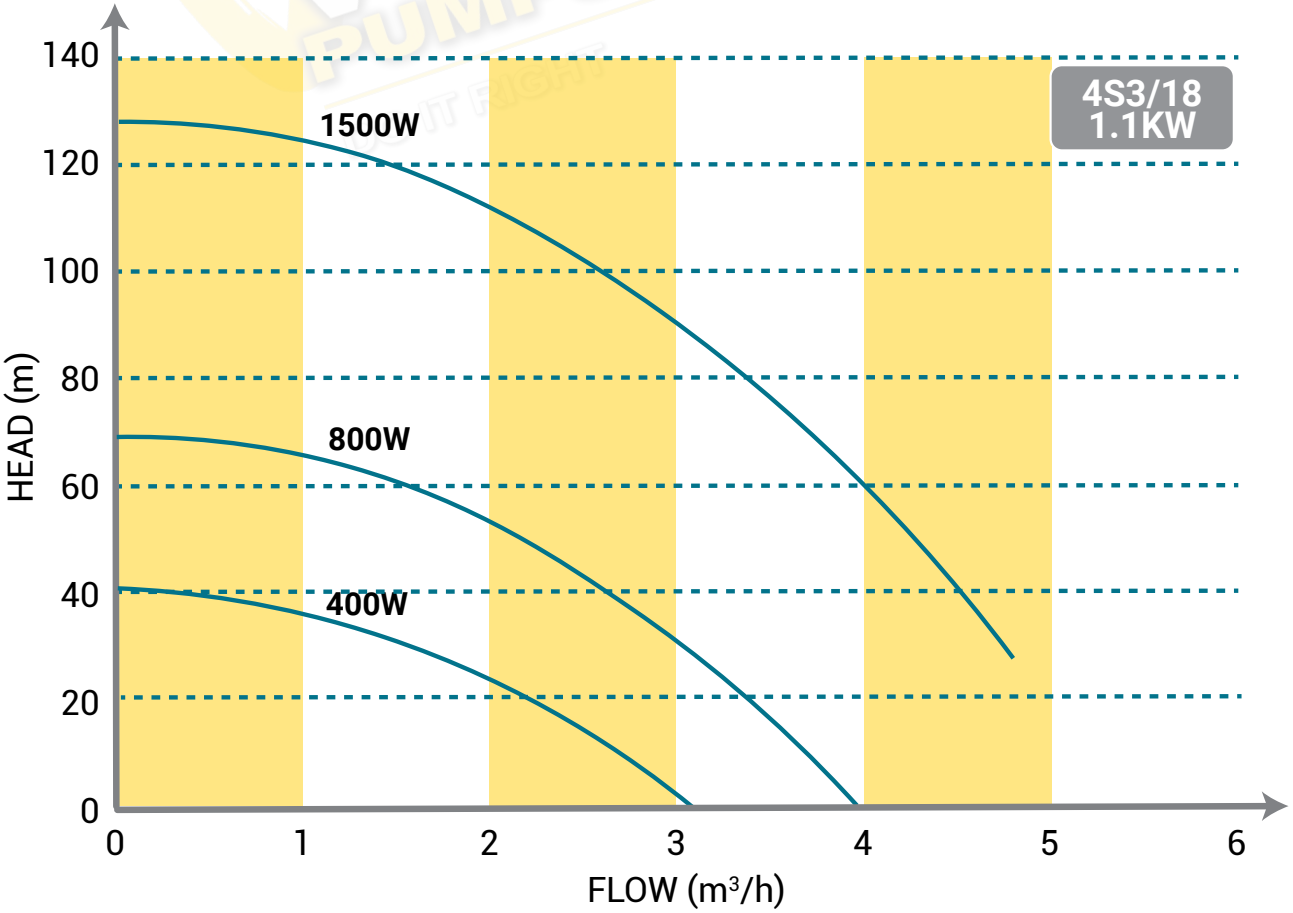




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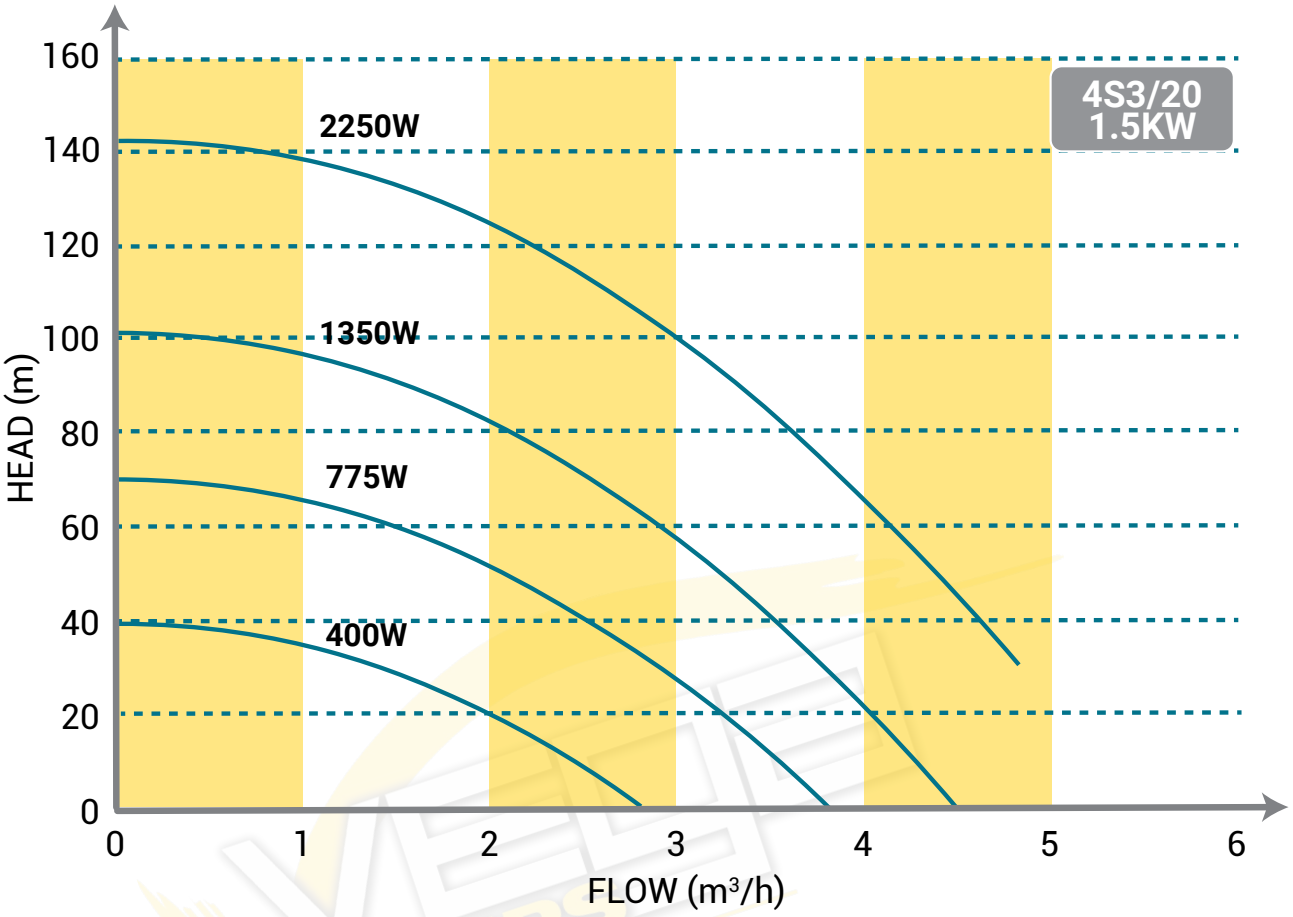
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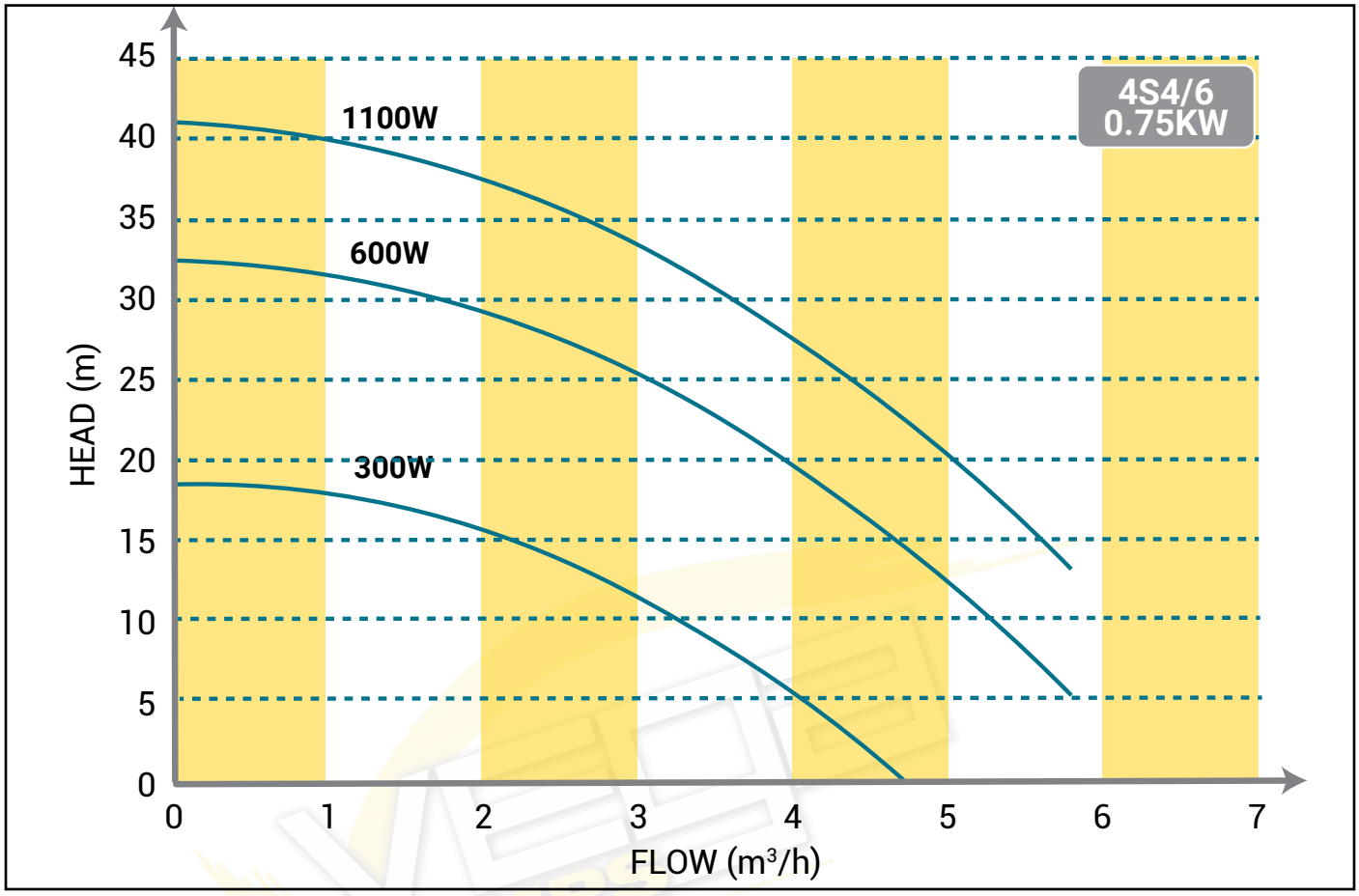
Compatible Wet Ends

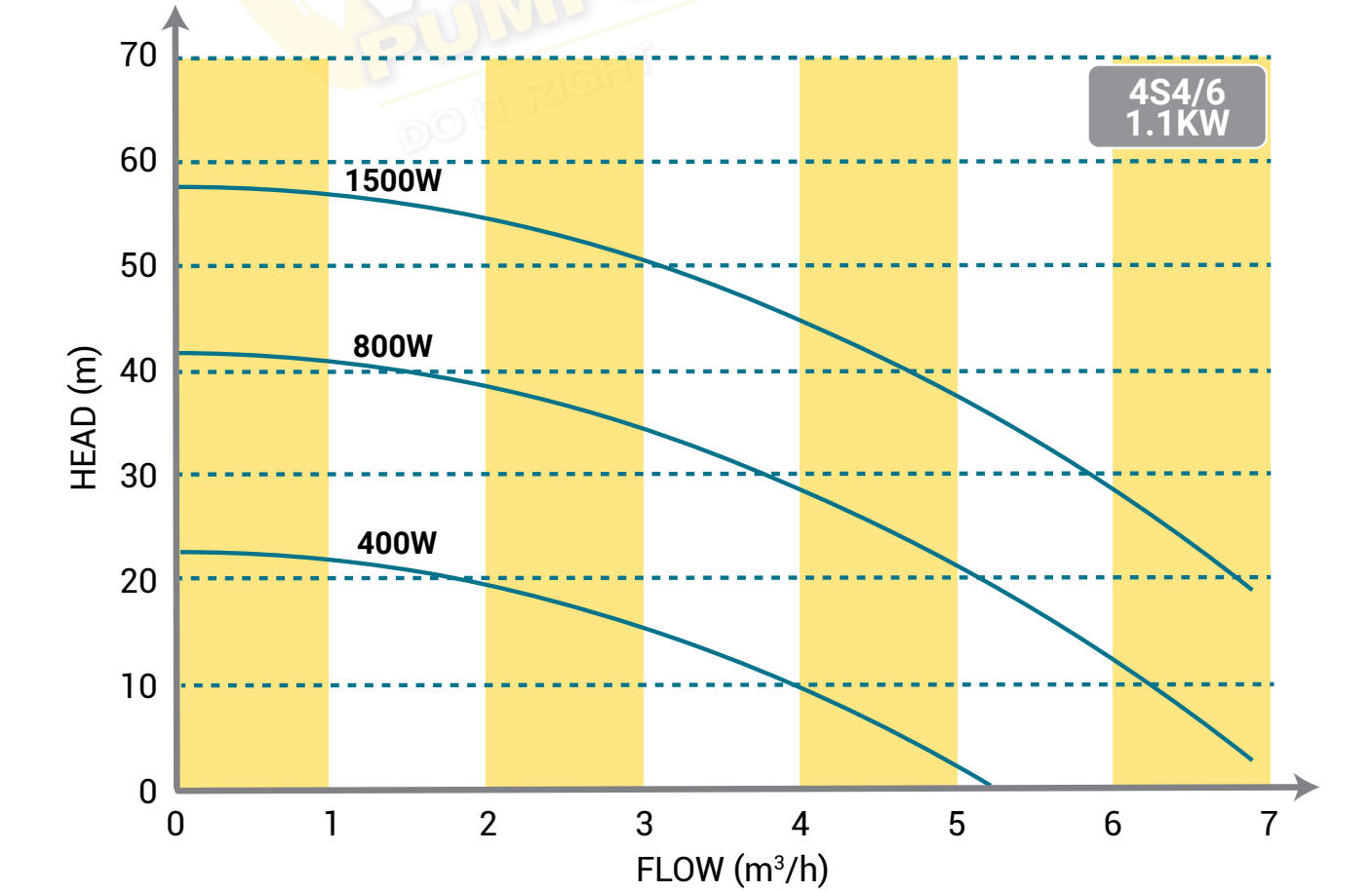
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Compatible Wet Ends

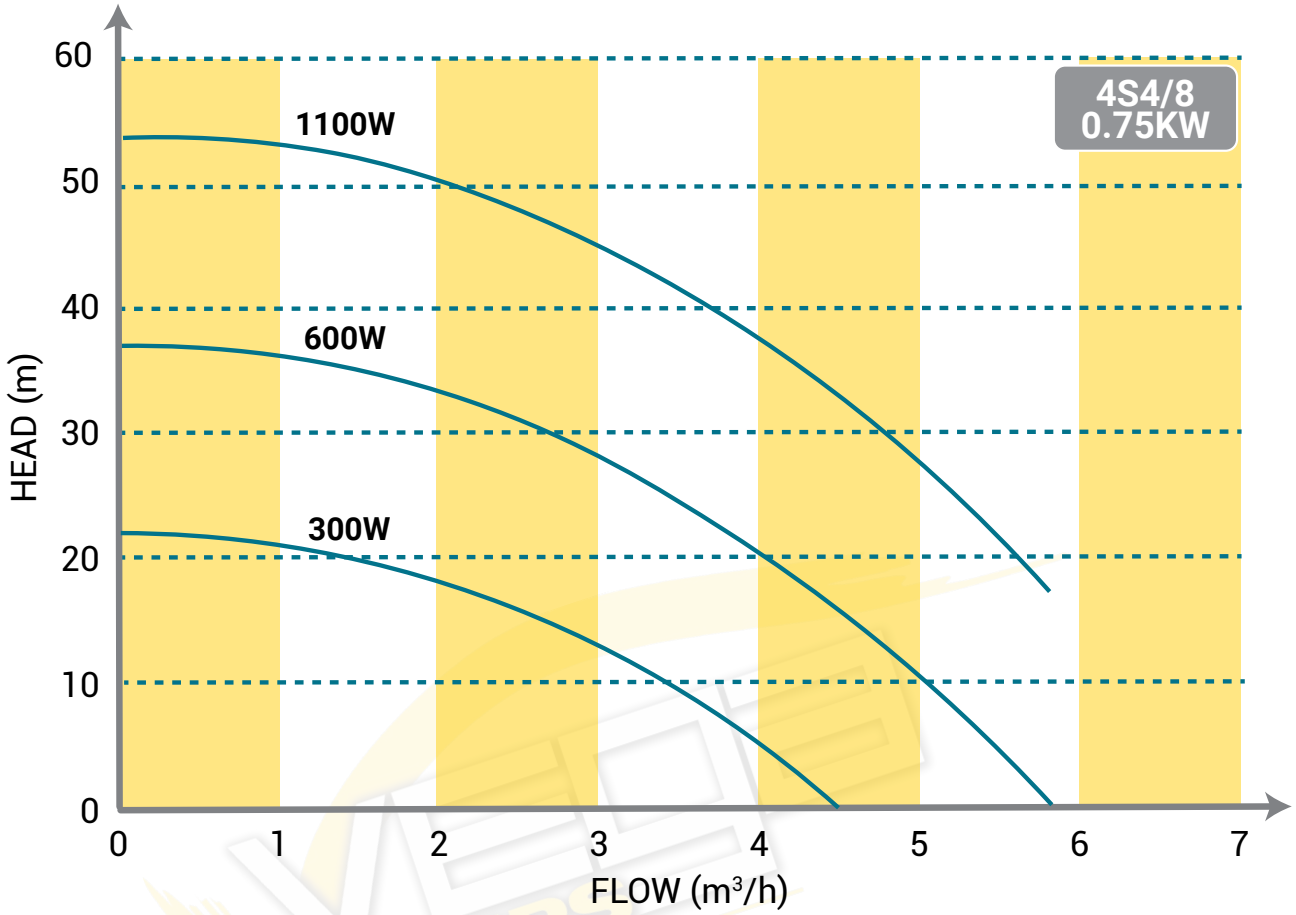
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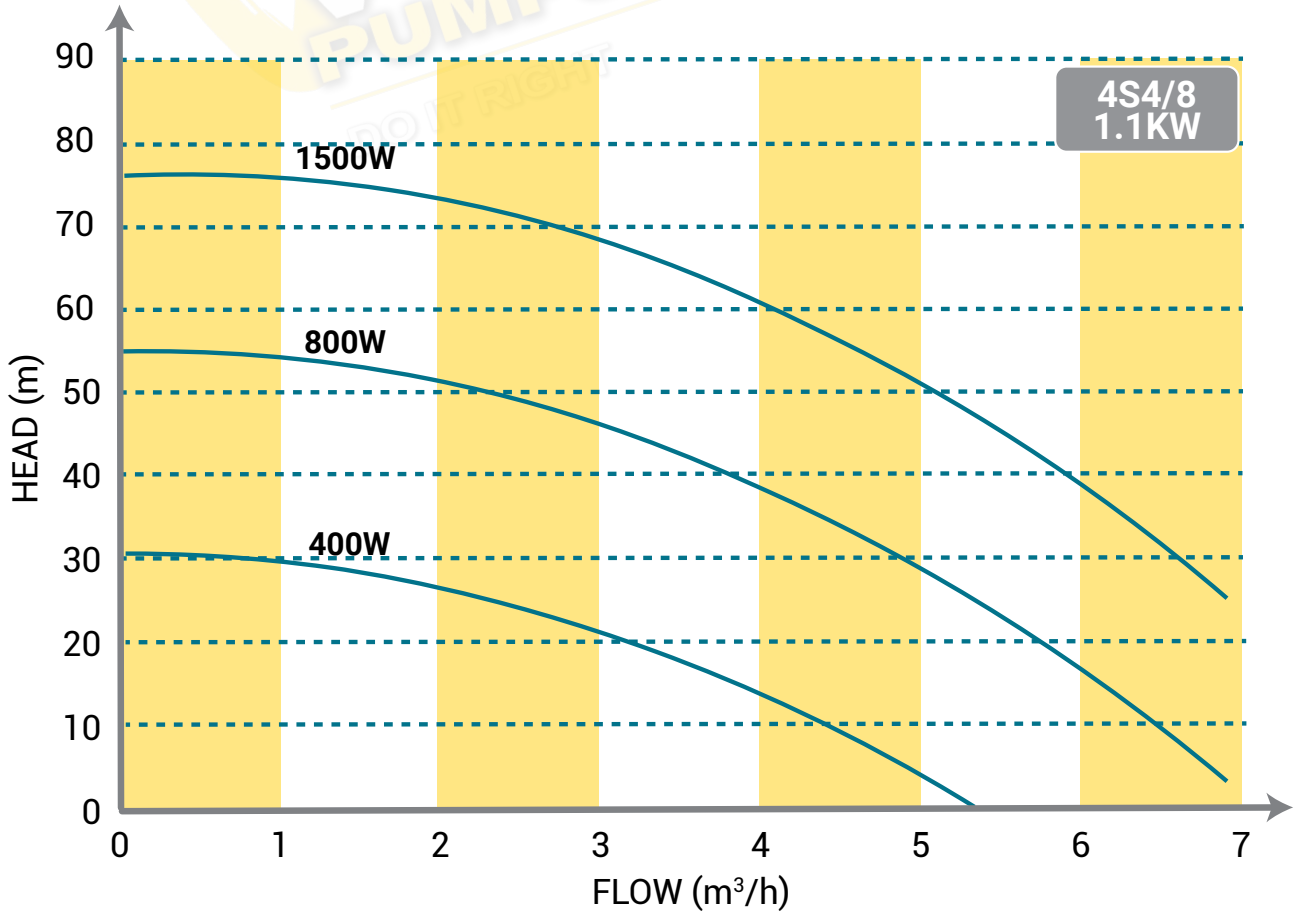




Compatible Wet Ends

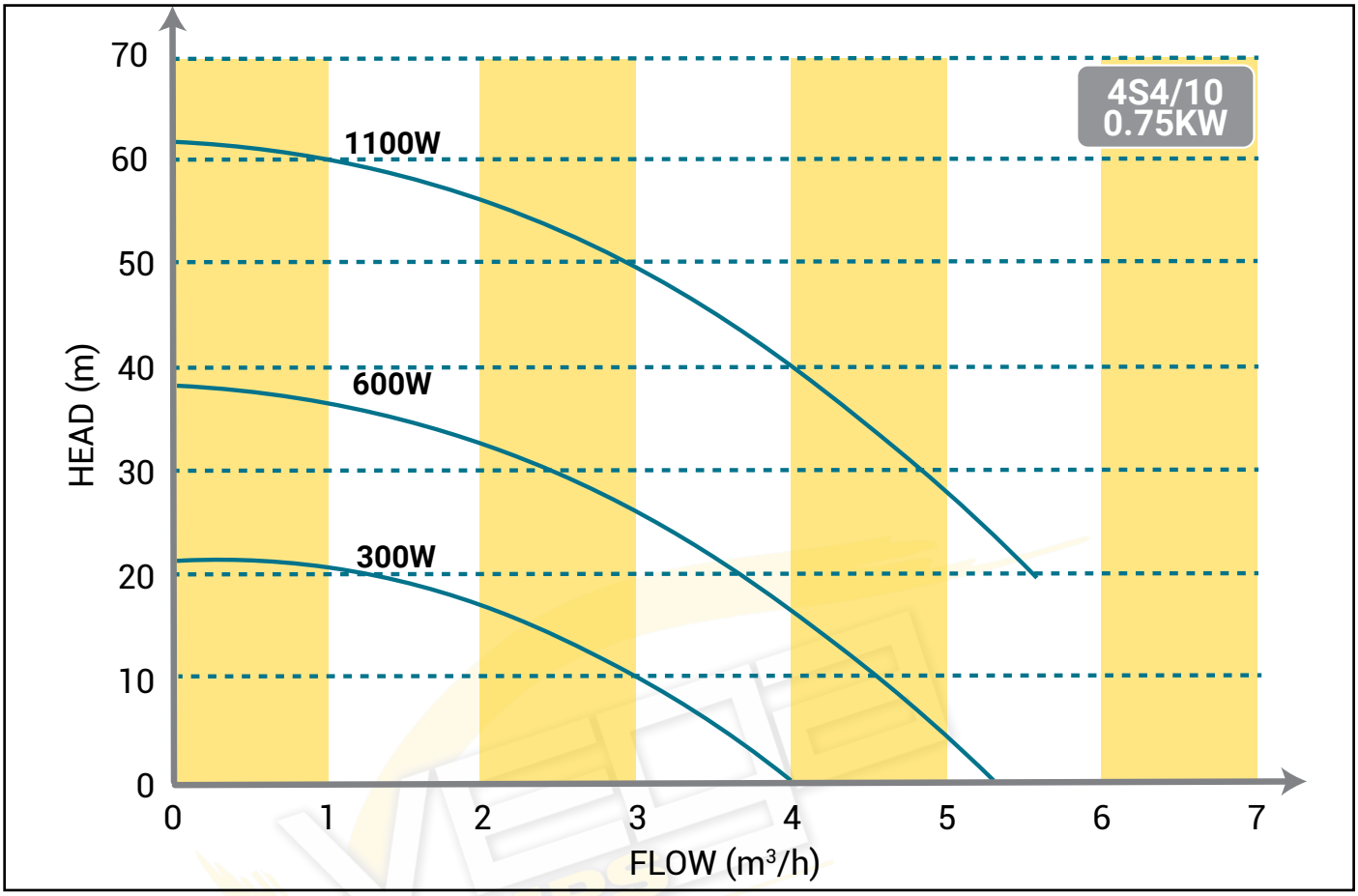
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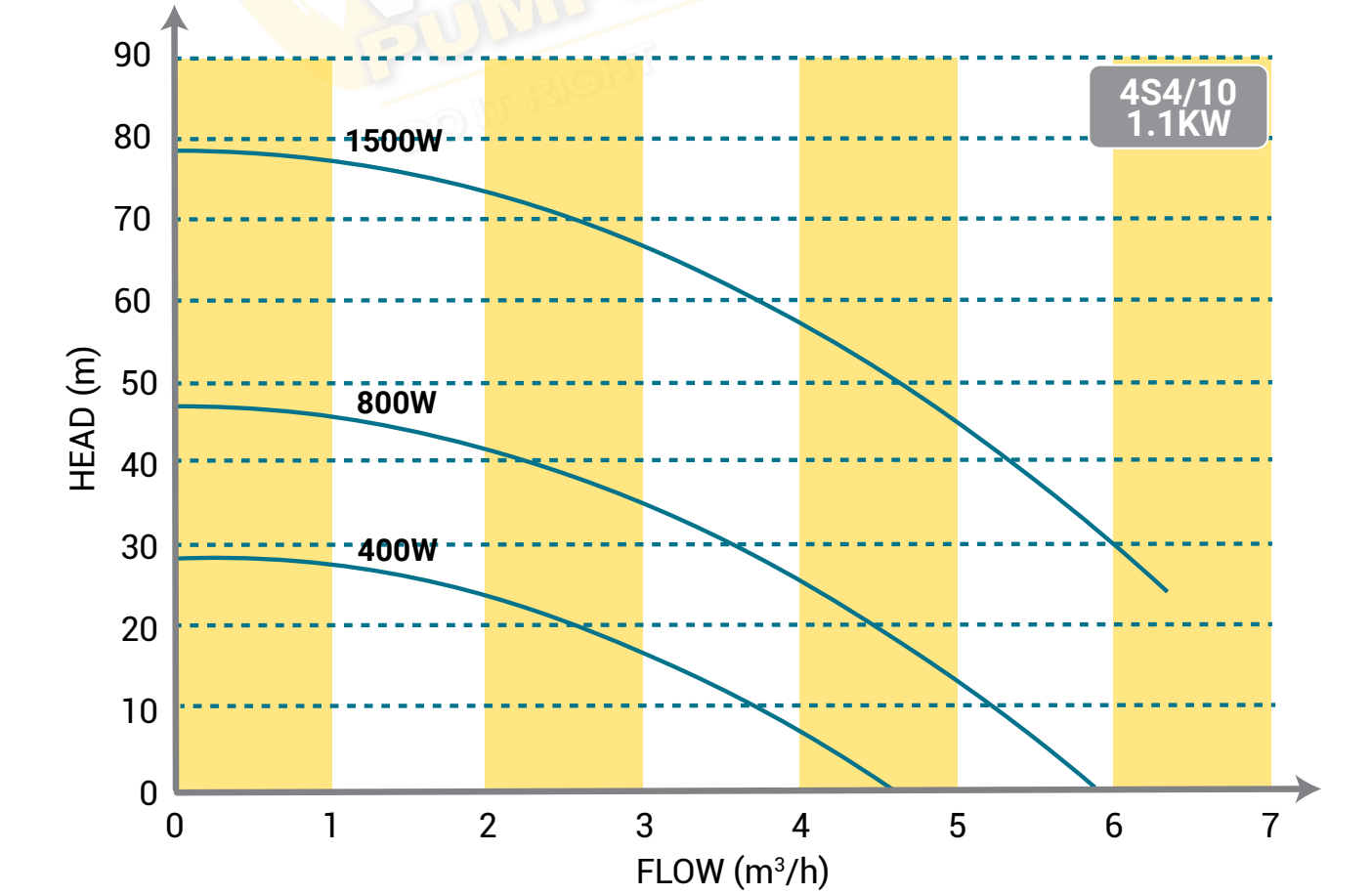




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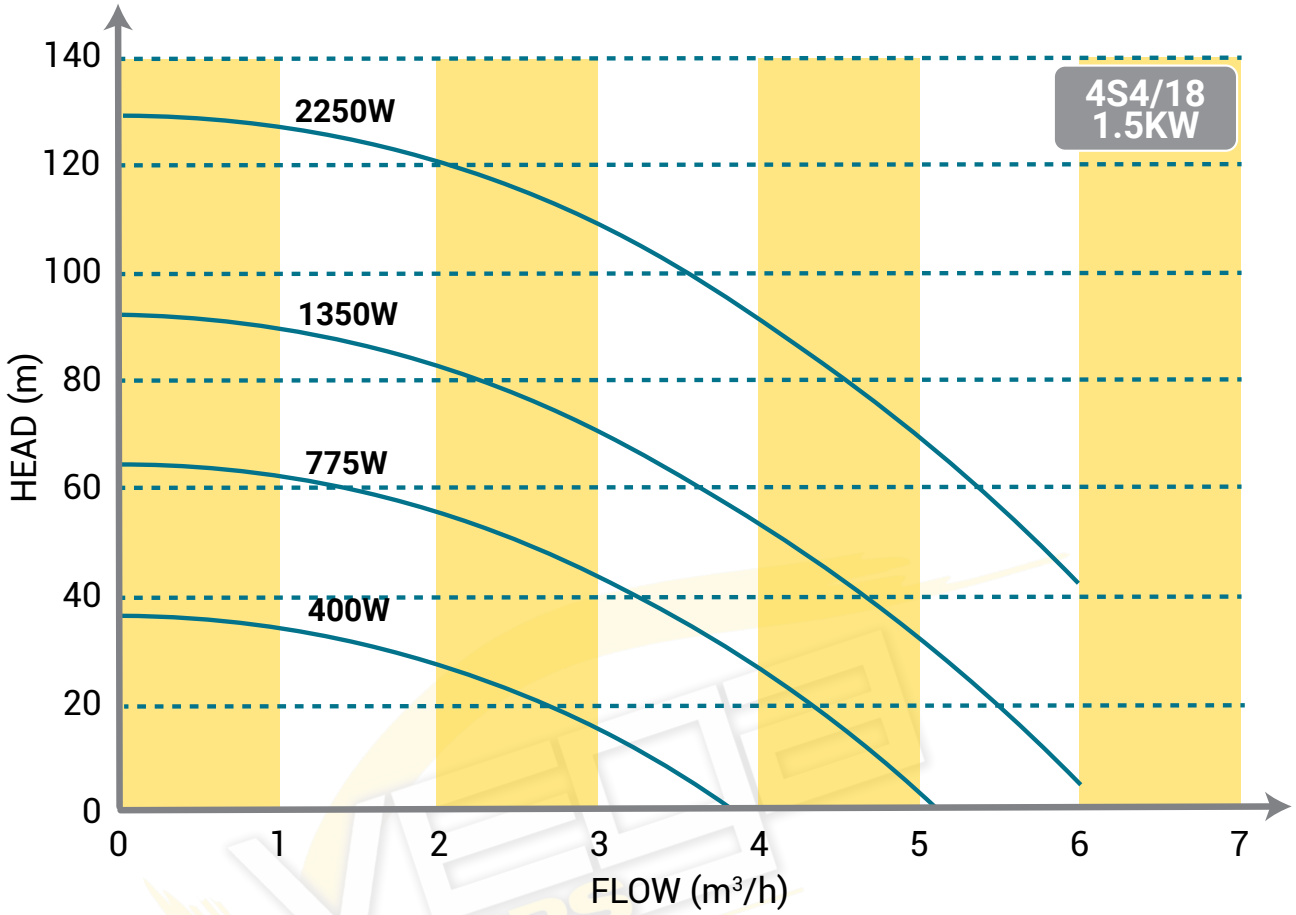
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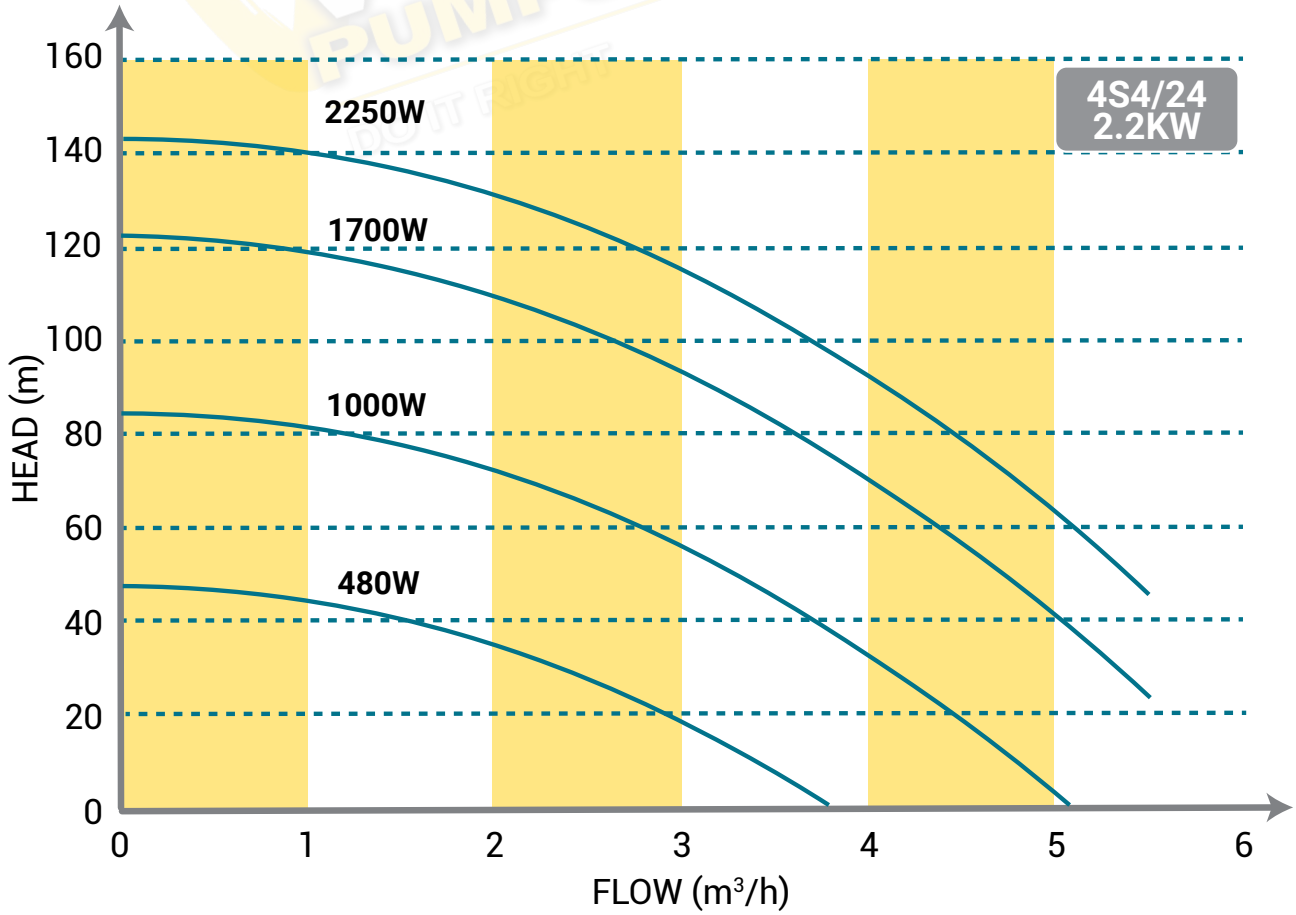




Compatible Wet Ends

4SD4





Compatible Wet Ends

4SD6

