

HR1.4-3

Solar Helical Rotor Pump System for 4" well

System Overview

Head	max.300m work head 210m
Flow rate	max.1.38m ³ /h

Technical Data

Controller: CTL-90

- Control and monitor system operation
- Dry running protection
- Prevent reverse rotation, overload, and overheating
- Integrated MPPT (maximum power point tracking)
- Integrated low-voltage circuit breaker protection
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Power max	1.5KW
Input voltage	120V
MPPT voltage range	60-200V

Motor DBW-2HP

- Maintenance-free brushless DC motor
- Water injection or oil injection
- Stainless steel material: AISI 304/316
- No electronics in the motor

Rated power	2 HP
Efficiency	92% (oil filled motor)
Motor speed	900-3600 rpm
Shell material	AISI 304/316

Pump PEHR-1.25

- Check valve
- Stainless steel material: AISI304/316
- Dry running protection
- Hollow helical rotor pump

Pump Device 4DW1500-HR1.4-3 (Motor, Pump)

Drilling diameter	Min 4.0 in
Water temperature	Max 50°C



**Vmp: MPP-voltage under Standard Test Conditions (STC): 1000 W/m² solar irradiance, 25 °C cell temperature

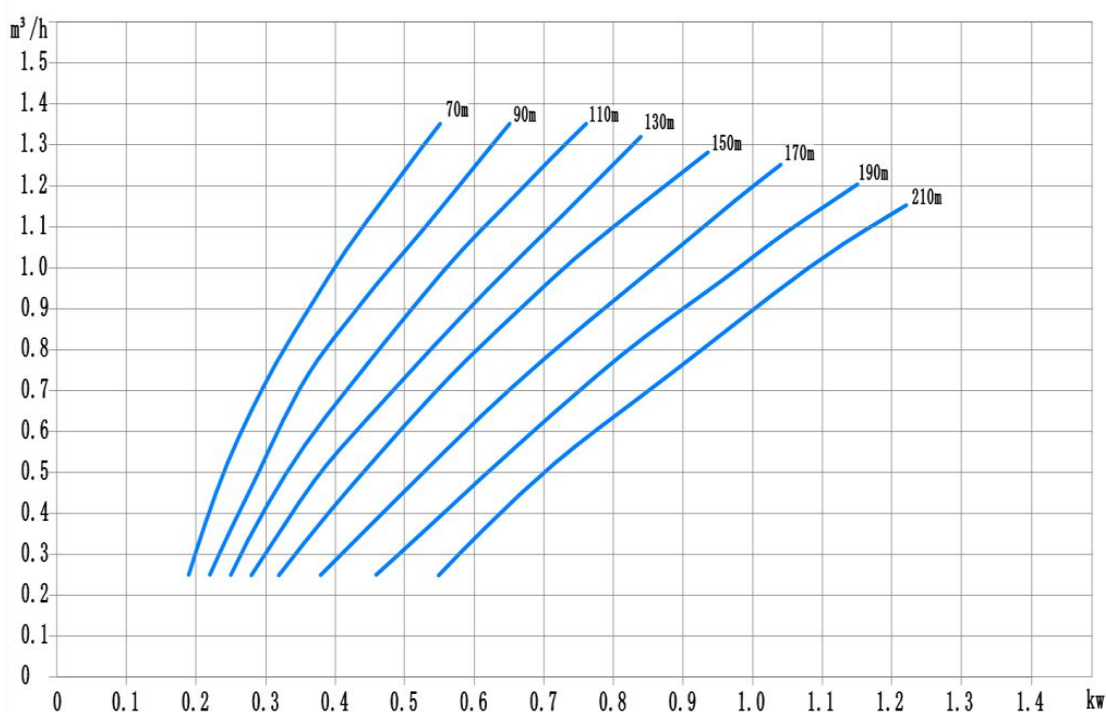
***Specify temperature range on order

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Pump Chart

Vmp*>34V



Performance Parameters

Model	Head	70	90	110	130	150	170	190	210					
HR1.4-3	Flow rate (m³/h)	1.36	1.37	1.38	1.32	1.29	1.26	1.21	1.16					