

HR1.4-2

Solar Helical Rotor Pump System for 4" well

System Overview

Head max.200m work head 120m
Flow rate max.1.38m³/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 break protection

Power max 0.75KW
Input voltage 90V
MPPT voltage range 32-155V

Motor DBW-1HP

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

Rated power 1HP
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 4DW750-HR1.4-2(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

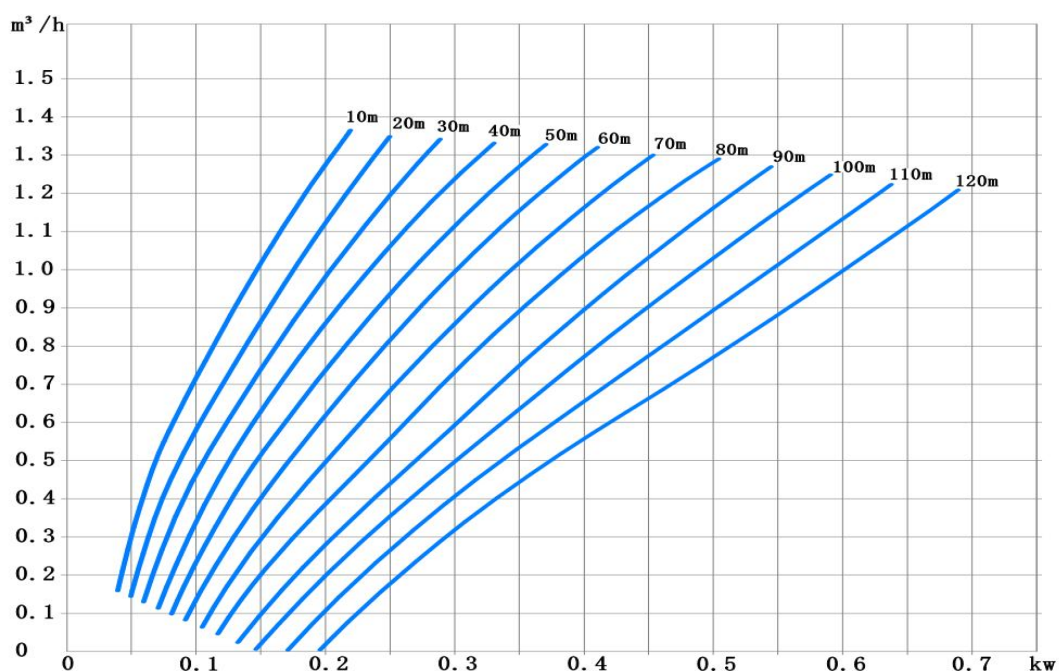
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Pump Chart

Vmp*>34V



Performance Parameters

Model	Head	10	20	30	40	50	60	70	80	90	100	110	120	140
HR1.4-2	Flow rate (m³/h)	1.4	1.38	1.36	1.36	1.33	1.32	1.3	1.29	1.28	1.26	1.25	1.24	