4HS MultiPower





4HS MultiPower pumps powered by renewable energy sources, is a new range from 4HS pumps with built-in inverter.

4HS MultiPower pumps can be powered by AC or DC with a wide range of operating voltage (90 - 265 VAC / 90 - 400 VDC). This means that 4HS MP pumps can be connected to solar panels, batteries, wind turbine and a diesel generator.

A special software algorithm allows for adjusting the hydraulic performance to each source and to the available power while maximising the amount of water pumped.

All the advantages of built-in electronics

The built-in electronics inside the motor avoid the use of shielded cables and output filters, and it is the ideal solution for any application in remote

locations without surveillance and climatically adverse.

In fact, in the traditional solutions, the solar inverter is pla-

ced above ground and, being exposed to the weather, could suffer of:

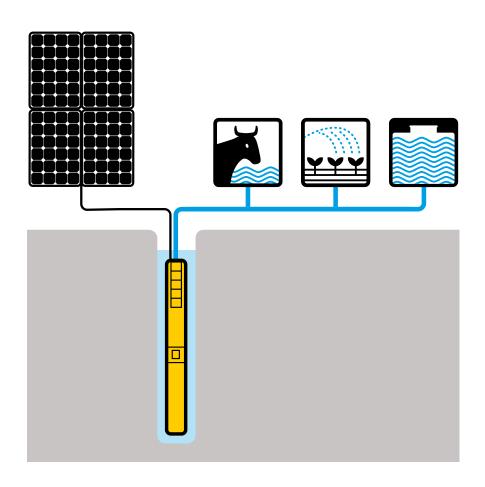
Overheating

Water infiltration

Thermal shock

Damage by animals or people

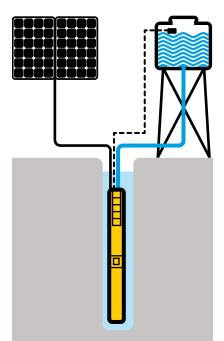
The built-in electronics are directly cooled by the water flow; the operating temperature of the electronic components is so low as to ensure considerably longer life than a surface inverter affected by high temperatures, humidity, dust and sunlight.



4HS MultiPower pump can be installed with CM MultiPower control module or without it, thus becoming a "plug and pump" system.



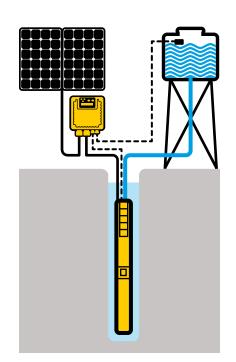
If the CM MultiPower control module is not used, signal cables can be used to



control pump start and stop, connecting a float switch, for example. All the protections against overload, surges and dry running are integrated into the on-board inverter.

If the signal cables are connected to the CM MultiPower control module, it is possible to:

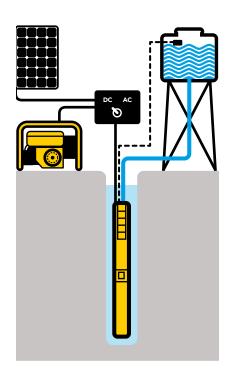
- Control the electric parameters (current, power, voltage).
- Record and store all the alarms related to the working hours.
- Connect a pressure or a flow sensor to monitor the pump's performance.
- Connect a pressure or float switch.
- Provide an alarm digital output for remote control.



Use of auxiliary genset

If solar energy is absent or insufficient, it is possible to power the pump with an auxiliary genset to achieve the desired pump performance.

An AC/DC selector is used to change the power source.



Integrated on-board protection

Protection against overload, surges and dry running are integrated into the pump's electronic circuit.

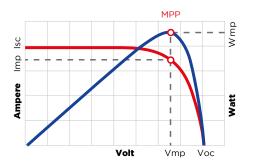
Electronic protection against dry running avoids the use of probes.

MPPT: always the maximum power available

Based on the varying conditions of solar irradiation and temperature, MPPT (Maximum Power Point Tracking) maximises the electrical power drawn from the panels and therefore the amount of water pumped.

The greater the solar irradiation the faster the pump's rotation speed, and consequently water flow increases.

When solar irradiation decreases (due to clouds or the different times of day), the pump reduces frequency and therefore the flow, but it continues to provide water until the irradiation falls below a minimum level necessary to ensure operation.





Centrifugal pump

- Impellers and diffusers in stainless steel.
- Built-in no-return valve.



Motor

- Permanent magnet motor.
- Resined and incapsulated stator made of AISI 304 stainless steel.
- Water-cooled rotor.
- Kingsbury thrust bearing.



Built-in inverter module (MINT)

- Completely resin-filled.
- Removable power cable.





The helical rotor pump

4HS "H" pumps are equipped with a helical rotor that moves within a double-helix rubber stator.

The rotor is made of AISI 304 stainless steel and coated with a hard chrome surface.

During operation, the rotor moves on the rubber surface and is lubricated by the pumped water.

The flow rate is directly proportional to the pump speed while the pressure supplied is kept almost constant.

In this way, unlike a centrifugal pump, the helical rotor pump provides high head even at low rpm, ensuring water on surface even with very low available power or low solar irradiation.

In addition, the helical rotor pumps feature higher hydraulic

efficiency than centrifugal pumps having the same flow. This saves in the number of solar panels necessary for the application.



Permanent magnet motor

4HS MP pumps are equipped with a permanent magnet motor.

The rotor uses Neodymium magnets coated with thin layers of copper and nickel to ensure greater reliability and durability in addition to superior magnetic performance.

High motor efficiency and starting torque make it possible for the pump to run even in low-light conditions.

The integrated inverter module converts DC energy into useful electrical energy to drive the motor efficiently and, at the same time, adjusts the pump speed according to the available irradiation, maximising the power extracted (MPPT).

Overload, overheating, dry-run protections are integrated on board.



Pump selection

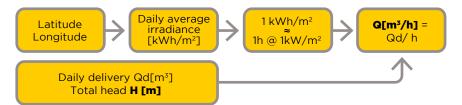
For the correct selection of a 4HS MultiPower pump to be used in a photovoltaic system, it is necessary to know:

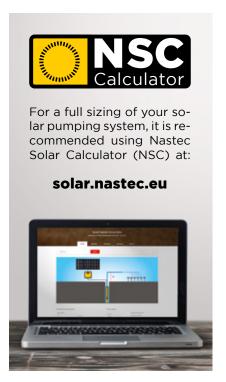
- Desired daily water quantity
- Total dynamic head
- Installation location

Based on location it is possible to calculate average daily radiation [kWh/m²/day]. Average

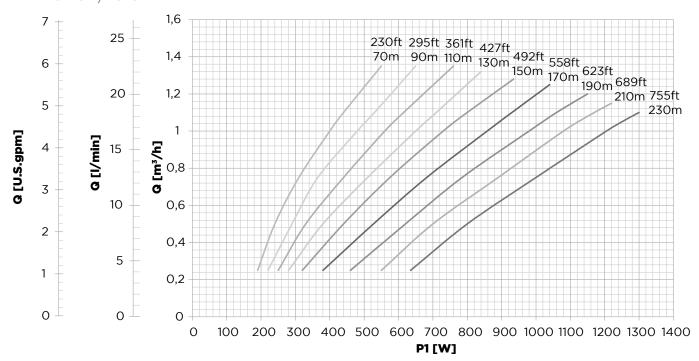
daily radiation can then be considered as the number of hours the pump works with 1 kW/m², the value of reference for defining solar panel performance.

Dividing the required water quantity by the hours, nominal flow is calculated and, in addition to the required head, the right pump can be selected.





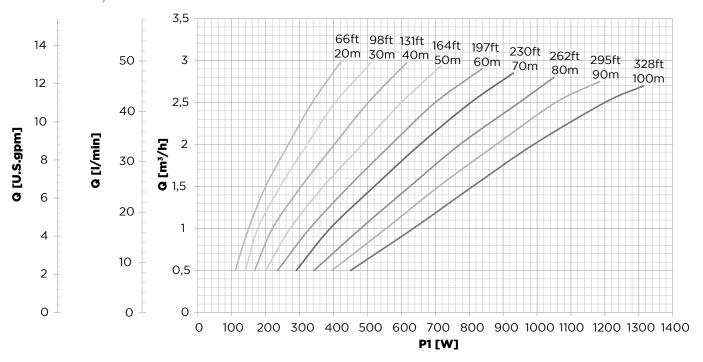
Performance 4HS 01/03H MP



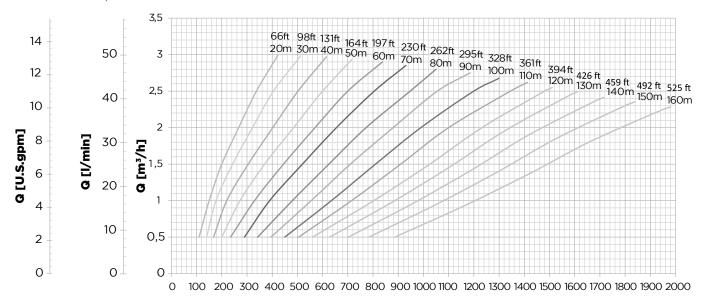
Model	Voltage	Max current	Power factor	Max power	Length	Discharge		Max diameter*	Packing dimensions	Total weight
4HS		[A]		P1 [W]	[mm]		[kg]	[mm]	[cm]	[kg]
01/03H MP	90-400 VDC 90-265 VAC	13 (100 VDC) 13 (100 VAC)	1	1300	1385	1 1/4"	21	99 *	120x20x29	22

^{*} Max external diameter including cable and cable cover

Performance 4HS 02/02H MP



4HS 02/02H R MP



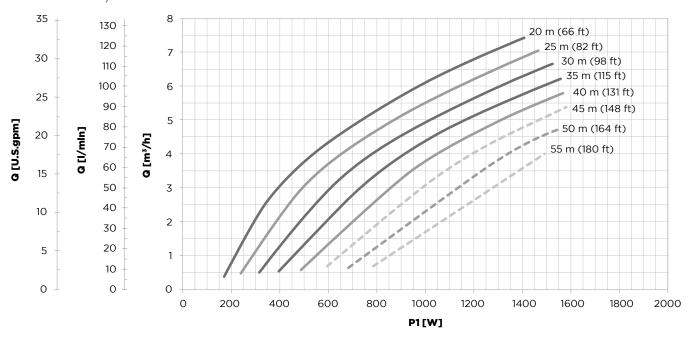
P1 [W]

Model	Voltage	Max current	Power factor		Length	Discharge		Max diameter*	Packing dimensions	Total weight
4HS		[A]		P1 [W]	[mm]		[kg]	[mm]	[cm]	[kg]
02/02H MP	90-400 VDC 90-265 VAC	, , ,	1	1300	1350	1 1/4"	19,5	99 *	120x20x29	20,5
02/02HR MP	90-400 VDC 90-265 VAC	, , ,	1	2000	1400	1 1/4"	20,5	99 *	120x20x29	21,5

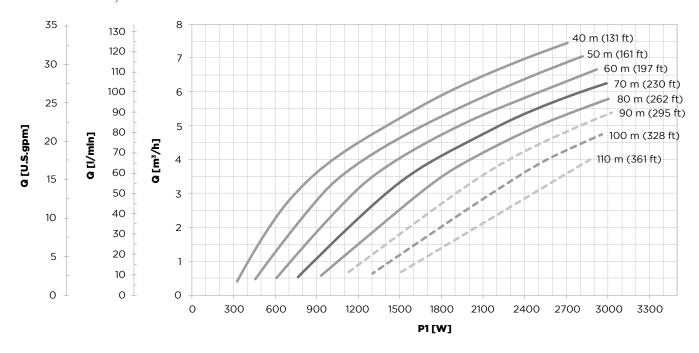
^{*} Max external diameter including cable and cable cover

Performance

4HS 05/04 MP



4HS 05/08 MP



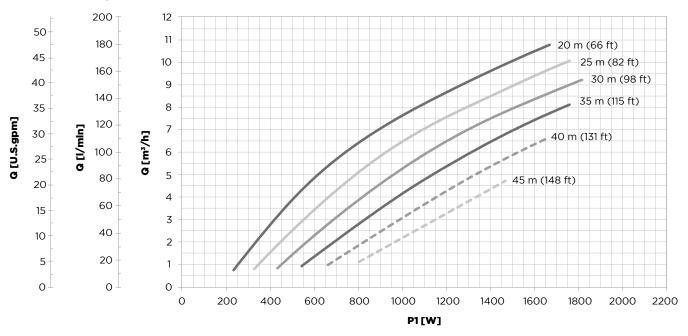
CM MultiPower installation is recommended for points of operation on the dashed lines.

Model	Voltage	Max current	Power factor		Length	Discharge	Pump weight	Max diameter*	Packing dimensions	Total weight
4HS		[A]		P1 [W]	[mm]		[kg]	[mm]	[cm]	[kg]
05/04 MP	90-400 VDC 90-265 VAC	16 (100 VDC) 16 (100 VAC)	1	1600	879	1 1/2"	19,5	99 *	120x20x29	20,5
05/08 MP	90-400 VDC 90-265 VAC	16 (187 VDC) 16 (187 VAC)	1	3000	1013	1 1/2"	22	99 *	120x20x29	23

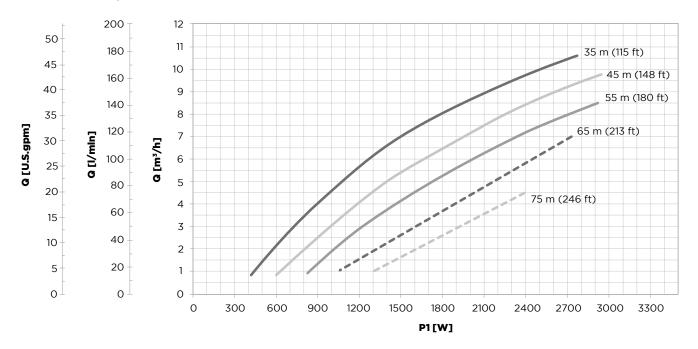
^{*} Max external diameter including cable and cable cover

Performance

4HS 08/03 MP



4HS 08/05 MP

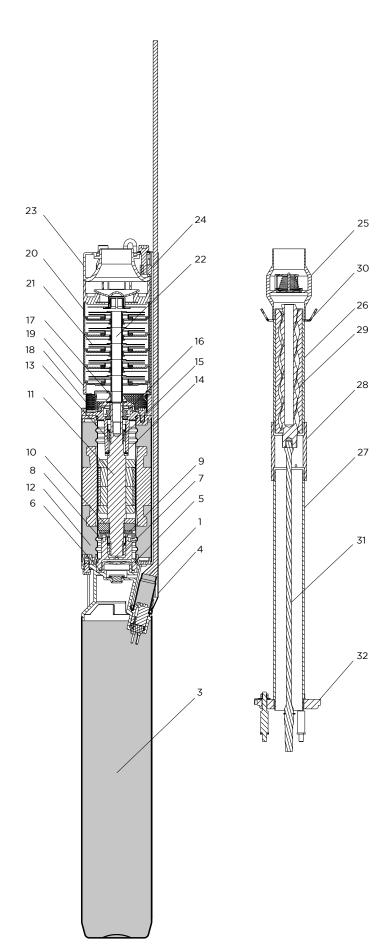


CM MultiPower installation is recommended for points of operation on the dashed lines.

Model	Voltage	Max current	Power factor	Max power	Length	Discharge	Pump weight	Max diameter*	Packing dimensions	Total weight
4HS		[A]		P1 [W]	[mm]		[kg]	[mm]	[cm]	[kg]
08/03 MP	90-400 VDC 90-265 VAC	16 (113 VDC) 16 (113 VAC)	1	1800	858	1 1/2" 2"	19,4	99 *	120x20x29	20
08/05 MP	90-400 VDC 90-265 VAC	16 (187 VDC) 16 (187 VAC)	1	3000	950	1 1/2" 2"	21	99 *	120x20x29	22

^{*} Max external diameter including cable and cable cover

Materials



with removable connector for drinking water applications 3 MINT: Electronic Integrated Module 4 Cable guard AISI 304 5 Lower thrust bearing AISI 304 6 Rubber diaphragm EPDM 7 Lower bush SiC 8 Tilting disc AISI 304 9 Pads AISI 420j 10 Carbon disc CTI25 11 Shaft with rotor AISI 431 12 Canned type stator AISI 304 13 Upper bush SiC 14 Upper thrust bearing Teflon 15 Ceramized sleeve AISI 304 + Ceramic 16 Mechanical seal SiC 17 Rotating sandguard NBR 18 Pump filter AISI 304 19 Pump bracket AISI 304 20 Diffusers AISI 304 21 Impellers AISI 304 22 Pump shaft AISI 304 23 Discharge AISI 304 Helicoidal rotor pump 25 No-return valve AISI 304 27 Supporting pipe AISI 304 28 Junction AISI 304 29 Helicoidal rotor AISI 304 21 Flexible shaft AISI 304	Ref	Description	Material
Integrated Module 4 Cable guard AISI 304 5 Lower thrust bearing AISI 304 6 Rubber diaphragm EPDM 7 Lower bush SiC 8 Tilting disc AISI 304 9 Pads AISI 420j 10 Carbon disc CT125 11 Shaft with rotor AISI 431 12 Canned type stator AISI 304 13 Upper bush SiC 14 Upper thrust bearing Teflon 15 Ceramized sleeve AISI 304 + Ceramic 16 Mechanical seal SiC 17 Rotating sandguard NBR 18 Pump filter AISI 304 19 Pump bracket AISI 304 19 Pump bracket AISI 304 19 Pump shaft AISI 304 20 Diffusers AISI 304 21 Impellers AISI 304 22 Pump shaft AISI 304 23 Discharge AISI 304 24 Straps AISI 304 25 No-return valve AISI 304 26 Helicoidal rotor pump 27 Supporting pipe AISI 304 28 Junction AISI 304 31 Flexible shaft AISI 304 31 Flexible shaft AISI 304	1	with removable connector for drinking	ACS-KTM-WRAS
Lower thrust bearing AISI 304 Rubber diaphragm EPDM Lower bush SiC Rilting disc AISI 304 Pads AISI 420j Carbon disc CT125 Shaft with rotor AISI 431 Canned type stator AISI 304 Upper bush SiC Upper bush SiC Upper thrust bearing Teflon Ceramized sleeve AISI 304 + Ceramic Mechanical seal SiC Rotating sandguard NBR Repump filter AISI 304 Pump bracket AISI 304 Pump bracket AISI 304 Impellers AISI 304 Pump shaft AISI 304 Rotating sandguard	3		
Rubber diaphragm EPDM Lower bush SiC Tilting disc AISI 304 Pads AISI420j Carbon disc CT125 Shaft with rotor AISI 431 Canned type stator AISI 304 Upper bush SiC Upper bush SiC HUpper thrust bearing Teflon Ceramized sleeve AISI 304 + Ceramic Mechanical seal SiC Rotating sandguard NBR Pump filter AISI 304 Pump bracket AISI 304 Pump bracket AISI 304 Centrifugal pump Diffusers AISI 304 Impellers AISI 304 Impellers AISI 304 Helicoidal rotor pump Supporting pipe AISI 304	4	Cable guard	AISI 304
7 Lower bush SiC 8 Tilting disc AISI 304 9 Pads AISI420j 10 Carbon disc CTI25 11 Shaft with rotor AISI 431 12 Canned type stator AISI 304 13 Upper bush SiC 14 Upper thrust bearing Teflon 15 Ceramized sleeve AISI 304 + Ceramic 16 Mechanical seal SiC 17 Rotating sandguard NBR 18 Pump filter AISI 304 19 Pump bracket AISI 304 20 Diffusers AISI 304 21 Impellers AISI 304 22 Pump shaft AISI 304 23 Discharge AISI 304 24 Straps AISI 304 4Helicoidal rotor pump AISI 304 25 No-return valve AISI 304 26 Helicoidal stator EPDM + AISI 304 27 Supporting pipe	5	Lower thrust bearing	AISI 304
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12 Canned type stator 13 Upper bush 14 Upper thrust bearing 15 Ceramized sleeve 16 Mechanical seal 17 Rotating sandguard 18 Pump filter 19 Pump bracket 19 Pump bracket 20 Diffusers 21 Impellers 22 Pump shaft 23 Discharge 24 Straps 25 No-return valve 26 Helicoidal stator 27 Supporting pipe 28 Junction 29 Helicoidal rotor 30 Safety hook 31 Flexible shaft AISI 304	10	Carbon disc	CTI25
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17 Rotating sandguard NBR 18 Pump filter AISI 304 19 Pump bracket AISI 304 Centrifugal pump 20 Diffusers AISI 304 21 Impellers AISI 304 22 Pump shaft AISI 304 23 Discharge AISI 304 24 Straps AISI 304 Helicoidal rotor pump 25 No-return valve AISI 304 26 Helicoidal stator EPDM + AISI 304 27 Supporting pipe AISI 304 28 Junction AISI 304 29 Helicoidal rotor AISI 304 30 Safety hook AISI 304 31 Flexible shaft AISI 316	15	Ceramized sleeve	AISI 304 + Ceramic
18 Pump filter AISI 304 19 Pump bracket AISI 304 Centrifugal pump 20 Diffusers AISI 304 21 Impellers AISI 304 22 Pump shaft AISI 304 23 Discharge AISI 304 24 Straps AISI 304 Helicoidal rotor pump 25 No-return valve AISI 304 26 Helicoidal stator EPDM + AISI 304 27 Supporting pipe AISI 304 28 Junction AISI 304 29 Helicoidal rotor AISI 304 30 Safety hook AISI 304 31 Flexible shaft AISI 316	16	Mechanical seal	SiC
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25 No-return valve AISI 304 26 Helicoidal stator EPDM + AISI 304 27 Supporting pipe AISI 304 28 Junction AISI 304 29 Helicoidal rotor AISI 304 cromed 30 Safety hook AISI 304 31 Flexible shaft AISI 316	24	Straps	AISI 304
26 Helicoidal stator EPDM + AISI 304 27 Supporting pipe AISI 304 28 Junction AISI 304 29 Helicoidal rotor AISI 304 cromed 30 Safety hook AISI 304 31 Flexible shaft AISI 316	Helico	idal rotor pump	
27 Supporting pipe AISI 304 28 Junction AISI 304 29 Helicoidal rotor AISI 304 cromed 30 Safety hook AISI 304 31 Flexible shaft AISI 316	25	No-return valve	AISI 304
28 Junction AISI 304 29 Helicoidal rotor AISI 304 cromed 30 Safety hook AISI 304 31 Flexible shaft AISI 316	26	Helicoidal stator	EPDM + AISI 304
29 Helicoidal rotor AISI 304 cromed 30 Safety hook AISI 304 31 Flexible shaft AISI 316	27	Supporting pipe	AISI 304
30 Safety hook AISI 304 31 Flexible shaft AISI 316	28	Junction	AISI 304
31 Flexible shaft AISI 316	29	Helicoidal rotor	AISI 304 cromed
	30	Safety hook	AISI 304
32 Pump adaptor AISI 304	31	Flexible shaft	AISI 316
	32	Pump adaptor	AISI 304

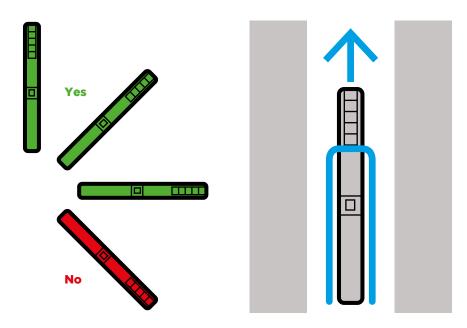
General specifications

4HS MultiPower	
Max liquid temperature	35°C (92°F)
Min liquid cooling speed	0.2 m/s
Characteristics of the pumped liquid	clean, chemically not aggressive, not explosive, without solid and fibre content, with max 50 g/m³ sand content
Protection grade	IP68
Maximum immersion depth	150 m
Materials	Motor and pump in AISI 304 stainless steel
Cable	Flat cable ACS - WRAS - KTM approved
CM MultiPower Control Module	
Max ambient temperature	50°C (122°F)
Protection grade	IP55
Materials	Aluminium enclosure, PVC labels , cable gland in polyamide (PA), display membrane in polyester (PE)
Analog input	2 input 4-20 mA + 2 input 4-20 mA or 0-10 V settable by the user
Digital input	4 input N.O or N.C settable by the user
Digital output	2 relays output 5 A , 250 VAC, N.O or N.C settable by the user
User display	display LCD backlit, 16 characters x 2 rows, 5 buttons
Short-circuit protection	fuse

	Certifications
- 1 /	CE

4HS MultiPower pump can be installed both vertically and horizontally, as long as the outlet is never lower than the horizontal axis.

To ensure proper cooling if 4HS is not installed in a 4" well, it is necessary to use a cooling sleeve.



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