

# AQUA4D®

- by Planet Horizons Technologies SA -

## AQUA4D® H-A Max

The **H-A Max** enables efficient water use and large-scale salinity management for macro-irrigation, while extending the life of pivot systems by preventing corrosion and scale deposits. This water treatment system is pre-assembled as a stand-alone unit, for rapid deployment in the field.

### Plug & Play

This ready-to-use system gives AQUA4D® total quality control: it is built under controlled conditions in Switzerland. A full test is carried out before shipment. All the customer has to do is connect the *H-A Max* to his irrigation network and plug it into the power supply.

### Easy to move

In some regions, the irrigation process is interrupted during the winter, making it necessary to store the system. Thanks to the *H-A Max*, moving the structure to another sheltered location is very convenient.

### Various configurations

Depending on the required flow rate, the system is available in several different configurations, from 216 to 432 m<sup>3</sup>/h (951 - 1902 US gpm).

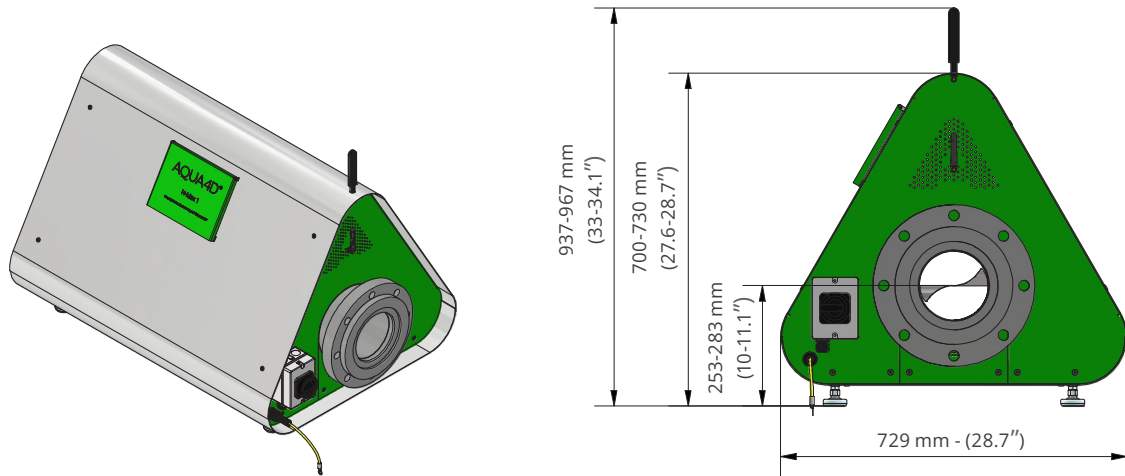
### Minimal energy use

The AQUA4D® system is extremely energy-efficient, and can even be connected to a stand-alone solar power system if there is no connection to the electricity grid.

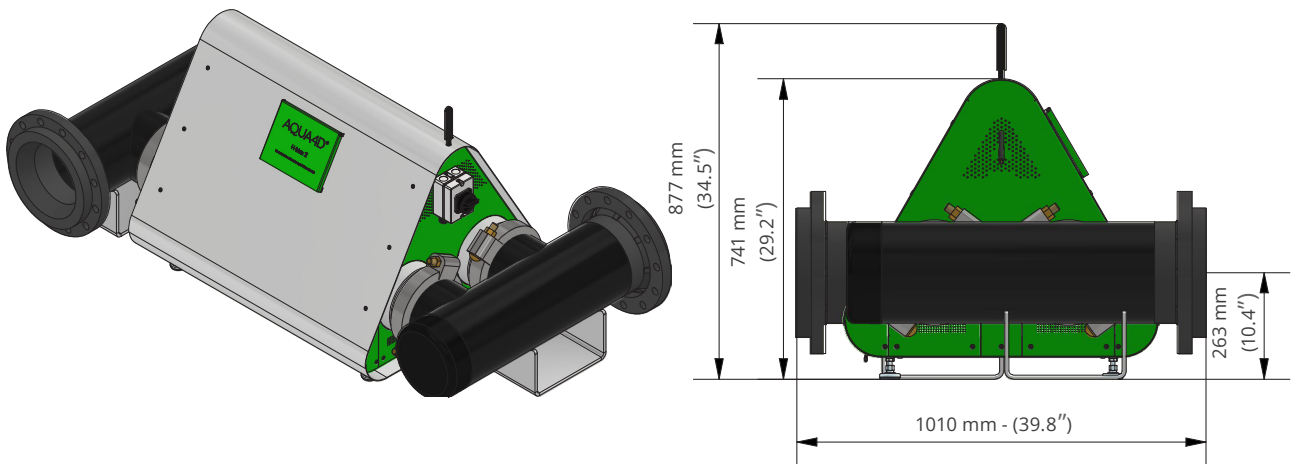


## System overview

### H-A Max



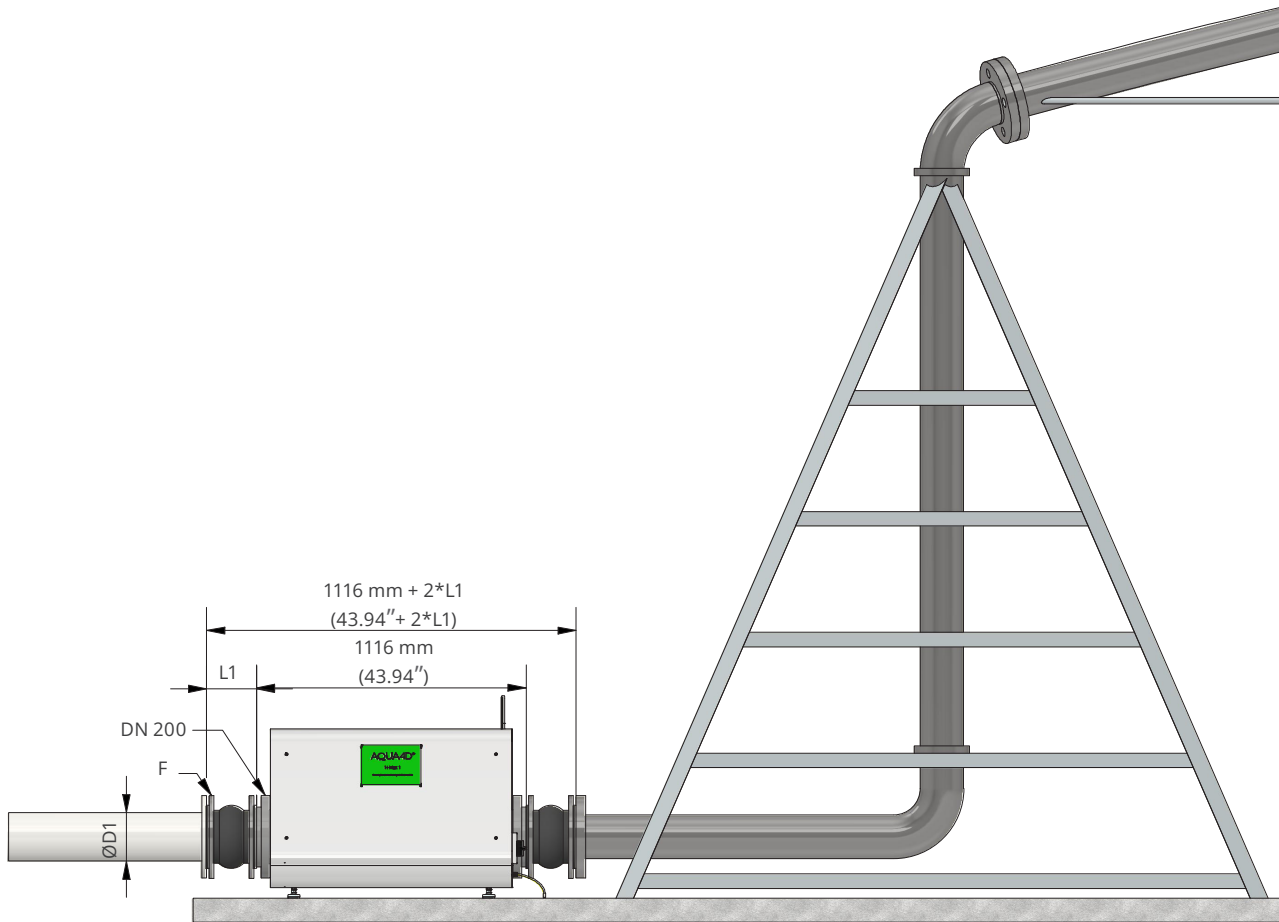
### H-A Max II



Technical data	H-A Max	H-A Max II
Maximum water flow [m <sup>3</sup> /h]	216	432
Maximum water flow [gpm]	792	1584
Maximum water flow [US gpm]	951	1902
Dimension (L x l x h)	1116 x 729 x 937 mm (43.9" x 28.7" x 33")	1867 x 1010 x 877 mm (73.5" x 39.8" x 34.5")
Power supply	100 - 240 VAC / 50 - 60 Hz	
Power consumption [W]	40	60
Maximum water temperature	60°C @ 4 bars (140°F @ 58 psi)	
Maximum water pressure	10 bars @ 20°C (145 psi @ 68°F)	
Maximum pressure loss	0.15 bar (2.2 PSI)	
Ambient temperature	3°C... 45°C (37°... 113°F)	
Storage temperature	0°C... 60°C (32° ... 140°F)	
Weight (empty)	65 kg / 143 lbs	165 kg / 364 lbs
Hydraulic connection	DIN DN 200	DIN DN 250

# H-A Max - Installation

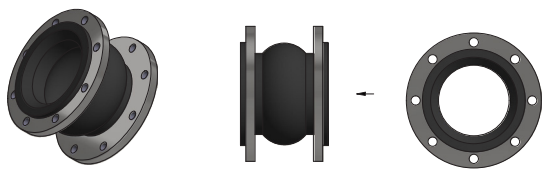
## H-A Max - Hydraulic connection



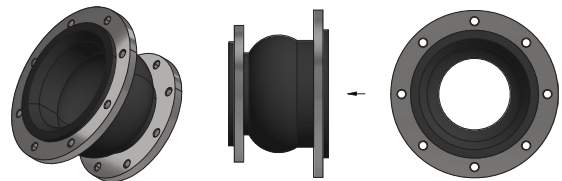
The H-A Max are supplied with flexible rubber expansion joints adapted to the pipe dimensions at the installation site.

Options are as follows:

### Rubber expansion joints

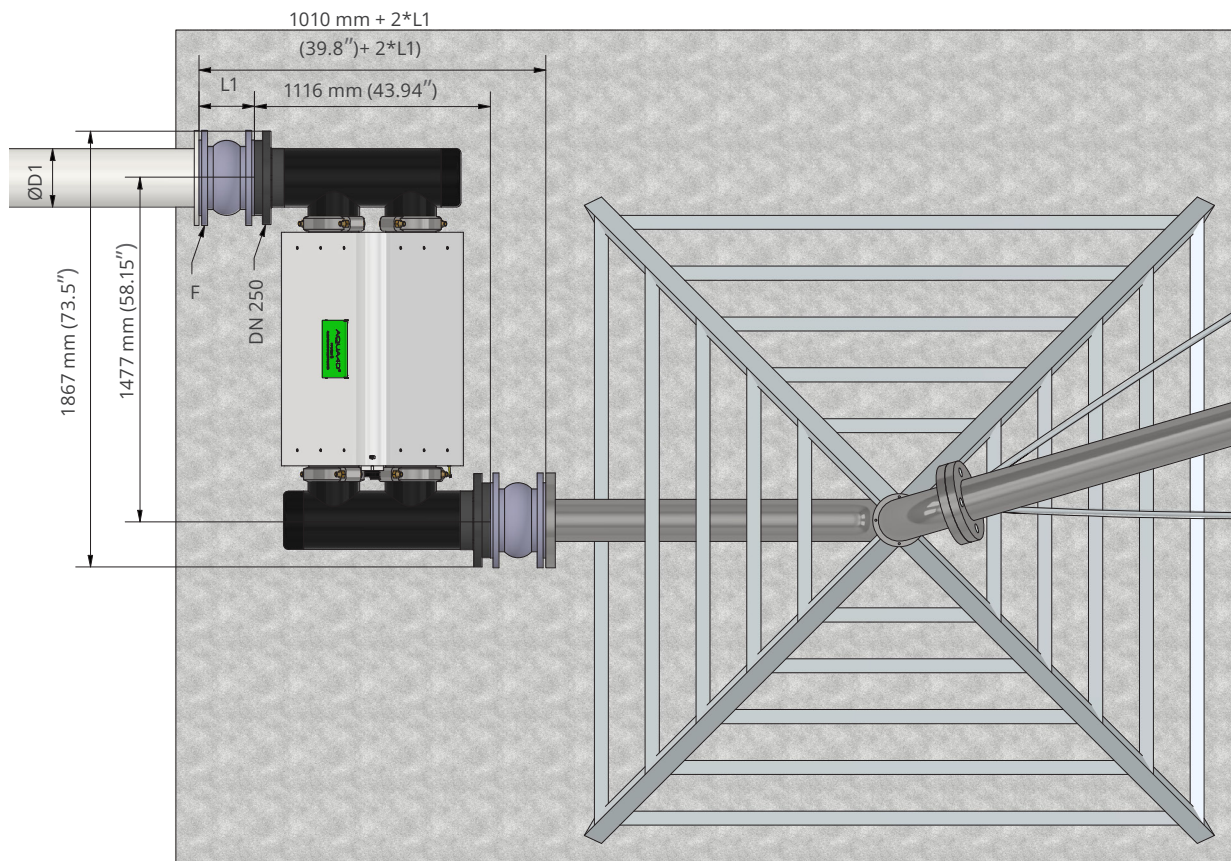


### Expansion joints with reduction



Ø D1 (Pipe)	Type	F (standard flange)	L1 [mm / " ]	Weight
DN200	Standard	DIN PN10	210 (8.27")	14 kg / 31 lbs
DN250	Reduction	DIN PN10	220 (8.66")	17.5 kg / 38.5 lbs
8"	Standard	ANSI LB 150	210 (8.27")	17.5 kg / 38.5 lbs
10"	Reduction	ANSI LB 150	220 (8.66")	21 kg / 46 lbs

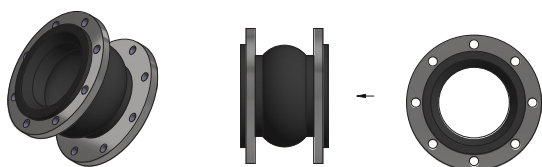
## H-A Max II - Hydraulic connection



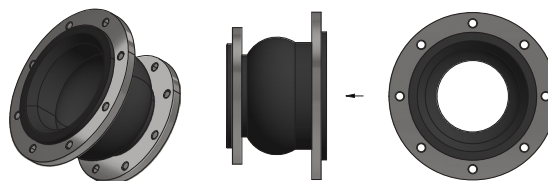
H-A Max II are supplied with flexible rubber expansion joints adapted to the pipe dimensions at the installation site.

Options are as follows:

### Rubber expansion joints



### Expansion joints with reduction



Ø D1 (Pipe)	Type	F (standard flange)	L1 [mm / " ]	Weight
DN250	Standard	DIN PN16	230 (9.06")	20.5 kg / 45 lbs
DN300	Réduction	DIN PN16	220 (8.66")	22.5 kg / 48.5 lbs
10"	Standard	ANSI LB 150	230 (9.06")	24.5 kg / 54 lbs
12"	Réduction	ANSI LB 150	220 (8.66")	33 kg / 73 lbs

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