



ORON HORIZONTAL

Self-cleaning mesh filter.
The power of smart filtration



GESTIRIEGO



FILTRATION





HORIZONTAL ORH MODEL

The **ORON** filters, thanks to their automatic cleaning equipment with a hydraulic suction nozzle system, do not require the interruption of the filtering phase for cleaning, thus avoiding pressure losses in the system during the washing process.

Simpler equipment for greater efficiency, specially designed to meet the most demanding systems' requirements.

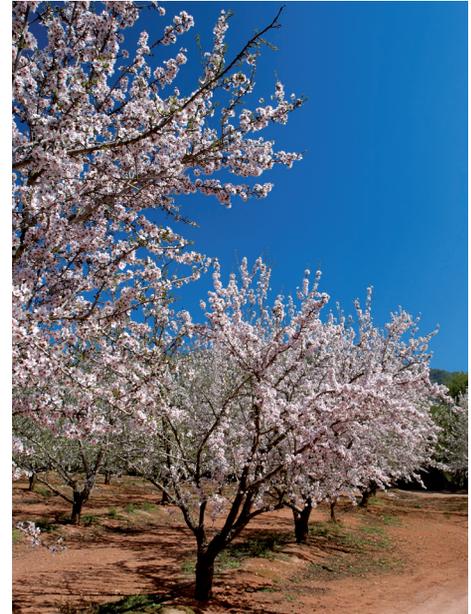
DESCRIPTION

The **ORON ORH** automatic mesh filtering equipment have been developed by **GESTIRIEGO**'s technical department after amassing over 25 years' experience in this type of equipment, combining experience, functionality and high-quality materials to offer equipment that meet the most demanding systems.

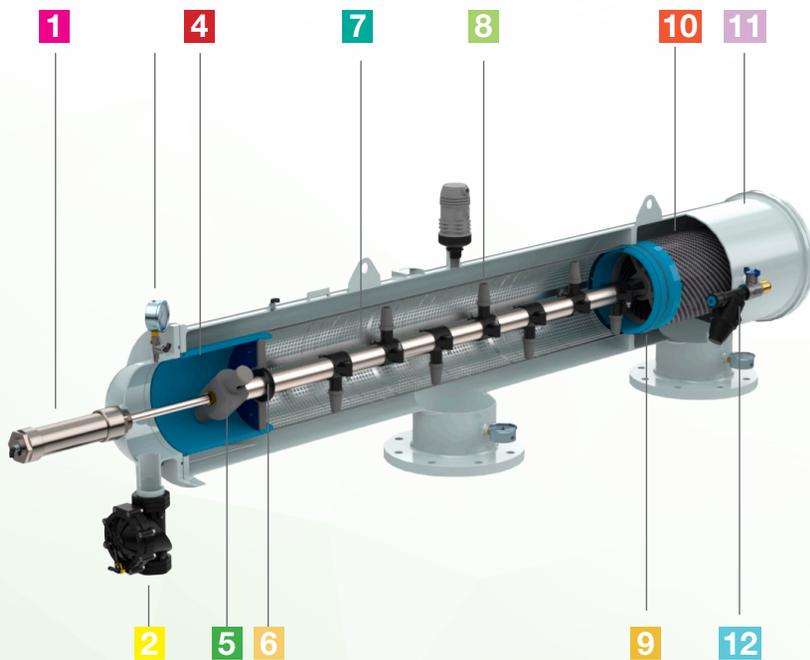
The filters can work individually or in a set (in case the flow rates are very high or the water contains a high load of dirt, which makes it necessary to increase the filtering area). The filter is fully equipped. Therefore, only the inlet, outlet and drain connections have to be installed, along other components supplied, which must be assembled according to specifications.

Unlike the ORV, they have removable pre-filters with a large surface area to retain large particles that may damage the internal parts of the equipment.

The ORH models are equipped with large filtering areas, which makes them the perfect solution to high flow rates.



PARTS AND MATERIALS



PARTS AND MATERIALS		
	NAME	MATERIAL
1	Piston	SST
2	Hydraulic valve	Polyamide
3	Pressure gauge	PVC
4	Turbine chamber	PVC
5	Hydraulic motor	PVC
6	Bushing	Acetal
7	Cleaning manifold	SST+PE
8	Nozzles	PVC
9	Grommets	NBR
10	Pre-filter	SST+PVC
11	Body	Carbon steel + ISO-certified treatment
12	Hydraulic circuit filter	PE

OPERATION

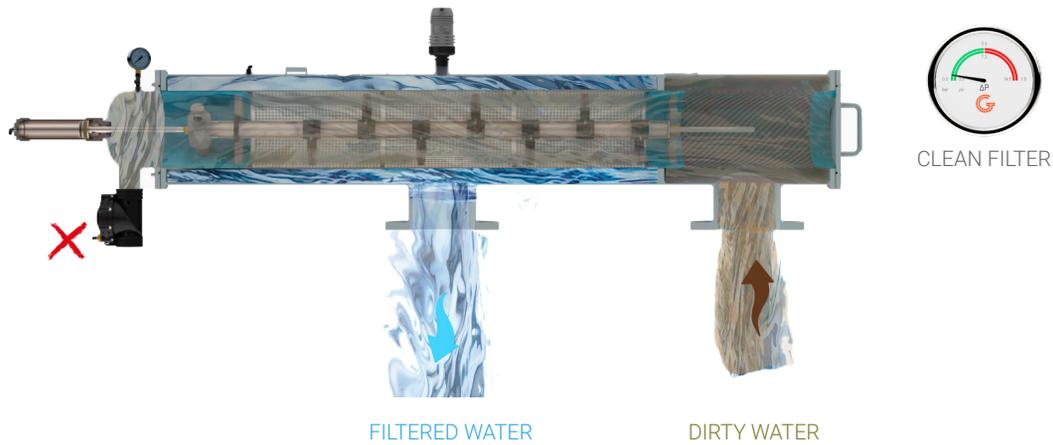
FILTERING PHASE

Dirty water enters the filter through the inlet socket, passing through the removable pre-filter. Particles larger than the pre-set size, which may impact the internal parts of the filter, are retained outside the pre-filter.

Water enters the filtering element and so the dirt larger than the size established by the filtration degree is retained on the inner side of the mesh

Filtered water exits the filter outlet in optimum conditions for use, avoiding damages to the system.

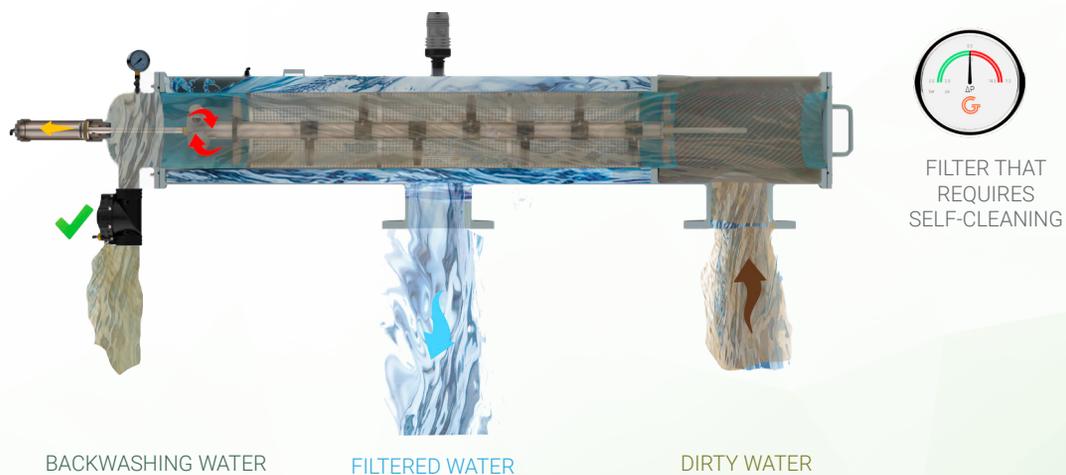
**Maximum working pressure: 10 bar.*



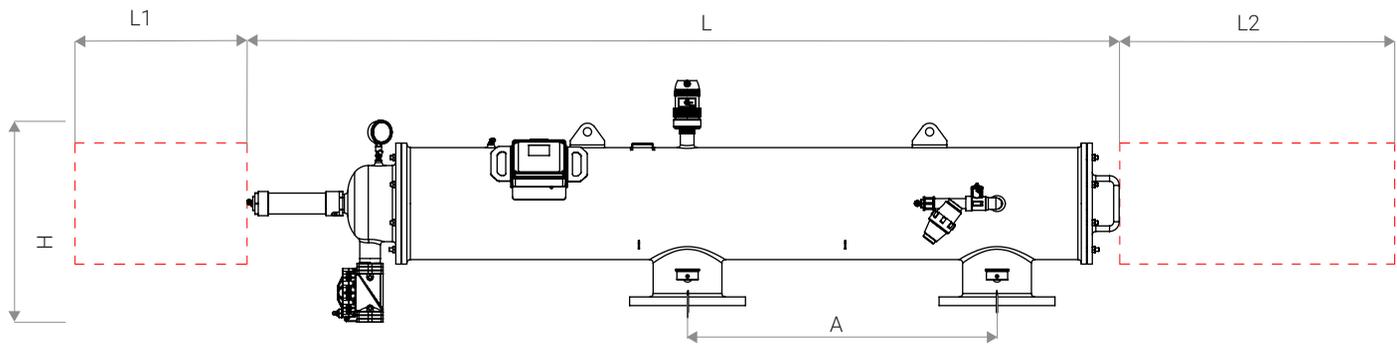
AUTOMATIC SIMULTANEOUS CLEANING PHASE

As dirt accumulates on the walls of the mesh, a pressure difference is generated between the clean and dirty water flows. Once the pressure difference established in the timer (recommended difference: 0.5 bar) is reached, the filter cleaning cycle starts automatically. This cycle activates a nozzle set connected to a manifold (washing unit) and they suck the dirt adhered to the mesh by screening it and release the dirt outside.

**Minimum pressure for optimum cleaning: 2 bar.*



TECHNICAL DATA



SIZES			
	ORH4"	ORH6"	ORH8"
	mm	mm	mm
L1	500	500	500
L	1,940	2,030	2,550
L2	1,300	1,300	1,700
H	460	500	500
A	900	900	900

ORV AUTOMATIC MESH FILTERS WITH CARBON BODY AND STAINLESS STEEL MESH									
MODEL	CONNECTION	MAX. WORKING PRESSURE	MIN. WORKING PRESSURE	MAX. TEMP.	MAX. FLOW	FINE MESH FILTERING AREA	TOTAL FILTERING AREA	INLET/OUTLET DIAMETER	CODE
		bar	bar	°C	m ³ /h	cm ²	cm ²	mm	
ORH4"	4" FLANGE	10	2	50 °C	110	4,800	6,000	100	461610
ORH6"	6" FLANGE	10	2	50 °C	180	4,800	6,600	150	461748
ORH8"	8" FLANGE PN10	10	2	50 °C	320	7,200	9,600	200	461749

CLEANING TIME	
SIMPLE CYCLE	NOTE

35 sec. Washing times may vary depending on the working pressure and regulation of the piston needle valve

CLEANING VALVE	
MODEL	SIZE

ORH4" 2" 63 mm
ORH6" 2" 63 mm
ORH8" 2" 63 mm





ORH CONTROL UNITS

ORH models require a control unit to carry out the cleaning cycle. The control unit consists of a timer and the components required to activate such cycle (solenoids, connection fittings, and wiring).

Depending on the power supply or power availability of the system, three models can be chosen (9V LACHT / 12 VDC / 24 VAC).

They have an output for a general valve, which is activated during the entire cleaning cycle, ideal for controlling shut-off valves, starting for backup pump, stop of subscribers, etc.

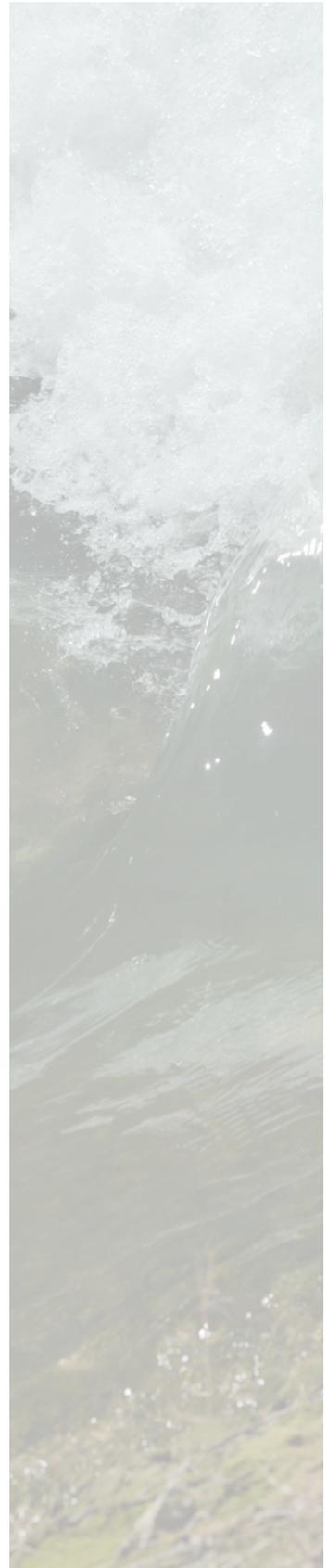
CONTROL UNIT	
ITEM	CODE
WITH TIMER	
24 VAC	462466
LACHT9-12V	462468
12 VDC	462467
WITHOUT TIMER	
24 VAC	462469
LACHT9-12V	462471
12 VDC	462470



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Creando los caminos
del agua

