



General features

ExtraH2O is composed of an electronic control unit and a hydraulic unit with a dual function.

The microprocessor electronic control unit, measuring the electrical conductivity of the water to be treated, determines the intensity of the high-frequency electric field to be generated to activate the formation of Aragonite nano-crystals.

The electronic control unit then adapts the action of the equipment based on the salinity characteristics of the treated water.

Operating principle and use

ExtraH2O allows for the protection of hydronic circuits in general (hot and cold water for sanitary use, water for technical and technological use) from the formation of coherent calcium (limestone) scale. Through a variable high-frequency electric field, the system creates a dual effect: on one hand, it inhibits the precipitation of calcium carbonate in the crystalline form of "Calcite", allowing it to remain in an amorphous (non-crystallized) form that is more hydrosoluble, and on the other hand, it promotes the formation of "Aragonite" nano-crystals, which due to their configuration do not precipitate to form scale but flow with the water. The action is ecological and natural as it does not alter the chemical composition of the treated water in any way and preserves the valuable content of naturally present salts.

The system can be used in various fields, wherever the formation of limestone deposits is to be counteracted without altering the chemical characteristics of the water used.

The conversion to Aragonite or amorphous crystals of calcite (which are unable to form limestone scale) is stable even with the subsequent heating of water, making the system effective also for hot water storage tanks or instantaneous production of hot water at high temperatures.



ExtraH2O			10	20	20 Trial
Nominal maximum flow rate	Qn	m ³ /h	1,5	2,3	15
Pressure loss with Qn	ΔP	Bar	0,2	0,2	0,2
Operating pressure	Pmax	Bar	6	6	6
	Pmin	Bar	1	1	1
Nominal pressure	Pn	Bar	4	4	4
Maximum water hardness to be treated	-	°fr	np	np	np
Ambient operating temperature	Tmax	°C	45	45	45
	Tmin	°C	4	4	4
Ambient humidity (at 31°C)	Umax	%	80	80	80
Operating temperature of water to be treated	Tmax	°C	40	40	40
	Tmin	°C	5	5	5
Maximum temperature of treated water	-	°C	65	65	65
Filtering capacity	-	μm	20-50	20-50	20-50
Electrical power supply	V	V	220-240	220-240	220-240
	Fr	Hz	50-60	50-60	50-60
Maximum electrical power consumption	W	W	15	15	15
Maximum current consumption	I	A	0,07	0,07	0,07 x 3
Energy consumption per m ³ treated at 30°FH	E	Wh	15-20	15-20	(15-20) x 3
Electrical protection rating	IP	-	44	44	44
Nominal height of hydraulic unit (A)	-	inches	7"	10"	20" x 3
Connections		DN - "	25 - 1"	25 - 1"	-
Weight when empty	Q	Kg	2,4	2,8	3,2 x 3

Technical information, user manual and maintenance information available on the website

This technical information is based on the experiences of the company and applies to normal use of the product as described above; different uses must be authorized in writing. Extra reserves the right to make any changes to its products without notice. Addresses and telephone numbers of our technical assistance and consulting organization as well as for the sale of our products and systems, are also available on the website: www.extrah2o.it

