CATALOGUE 2004

HP HIGH PRESSURE

WATERMAKERS - DISSALATORI





HP HIGH PRESSURE Srl

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OUR GROUP







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OUR PATENTS

AUTOMATIC WASHING SYSTEM (1997)

The first HP's patent. The invention of this hydraulic disposal finally gives the possibility to avoid a manual action on the exchange valves, for the flushing cycle. This is actually used on all the plants of the AUTO series.

AUTOMATIC HYDRAULIC PRESSURE REGULATION (1999)

This device increases the system performance, thanks to the automatic opening of the pressure valve installed at the end of the hydraulic circuit, during the flushing phase. The action of this device allows the final user, to avoid the manual regulation on the valve during the production phase and during the flushing cycle. This is actually used on all the plants of the AUTO series.

GENERATOR WATERMAKER (Camel Dual Power) (1999)

At the end of 1999 HP deposits one of its most important patents, the GENERATOR WATERMAKER, a unique double system that in a single machine includes two different functions: ENERGY and FRESH WATER PRODUCTION. The realization of this system has been possible by using the Automatic Washing System and the Automatic Hydraulic Pressure Regulation.

THERMAL ENERGY RECOVERY SYSTEM (TERS) ON THE ELECTRIC MOTOR (2002)

The energy recovery system on the electric motor represents a new and important evolution for the construction of reverse osmosis watermaker. This allows in fact the induced electric motor cooling, decreasing the current absorption, and in the meantime it acts a sort of "PRE HEATING" of the seawater incoming in the membranes, rendering it more fluid and the osmotic membrane more productive. Actually this system is used in the HP ULTRA COMPACT SERIES. For the other plants it will be available for the AUTO SERIES in June 2003.

AUTOMATIC MOTORIZED REMOTE CONTROLLED PRESSURE REGULATION VALVE (RP TRONIC) (2002)

The main problem, when we talk about watermakers, is the use and the maintenance. Regarding its use, it is well known, that changing the sea water conditions, the watermaker pressure regulation has to be set and reset continuously. Usually these manoeuvres have to be made directly on the watermaker, always installed in narrow places and not easily accessible. These procedures are not so clear for all the user, that may provoke malfunctioning if made in wrong ways.

HP patented a new Automatic Pressure Regulation valve, called **HP RP TRONIC**, that automatically regulates the working pressure for any kind of water. The user just has to give it sea water, starting and stopping the system and nothing else. HP RP TRONIC is equipped of a pressure transducer that analyses the circuit pressure, gradually regulating it at the set up value, thanks to a micro metric motor (2 rpm), that turns clock and anti clock wises, for opening or closing the needle valve. This pressure regulation system, unique and innovative in watermakers, will be combined to the new PLC logic **HP PLC03**, that will also allow the remote manual regulation of the pressure from the wheel house (FIRST WATERMAKER WITH REMOTE PRESSURE CONTROL). This valve can also be used manually, avoiding any watermaker stop. All the AUTOMATIC plants of the series SUPER COMPACT, VERTICAL, SC DOUBLE, ELITE, will be standard equipped of RP TRONIC system.



WARRANTIES

3 YEARS Functioning - Corrosion

COMPULSORY: PLEASE SEND BACK HP WARRANTY REGISTRATION CARD

To let the warranty valid is compulsory sending back to the factory, the HP INTERNATIONAL WARRANTY REGISTRATION CARD included in the user manual booklet within 60 days from the date of the purchase. By returning the registration card, the sender will receive the SERVICE BOOKLET, to be used for the yearly maintenance. *In case the registration card will not be sent back within the specified terms, the warranty will not be considered valid.*

The warranty covers every defects of the materials or of manufacturing and it is limited to the repairing and/or the substitution of the defective part at our factory of ZIBIDO SAN GIACOMO.

The warranty is subordinated to the yearly intervention, effected by the authorized HP SERVICE POINTS.

The maintenances have to be effected yearly at the end of every season.

The maintenances will be subjected to the INTERVENTION COST and to the consumable material cost (as oils, filters). These costs will have to be paid to the service point following its rates and payment conditions.

The watermakers will be considered covered by warranty, after the first year, only in presence of the SERVICE stamp on the booklet.

Any bad intervention or manumission on the machine, by not authorized personnel will let the warranty automatically decay.

If one of the yearly maintenance has not been effected the warranty will not be considerate valid.

In any case the warranty does not give the right for any kind of compensation.

HP HIGH PRESSURE SRL declines any responsibility for damages caused by its machines.

The warranty decays:

- if the machine has been repaired, dismantled, or manumitted by non authorized personnel.
- If the damage has been provoked by a wrong installation.
- If the machine has been used improperly
- If the machine has been used in the harbors
- If the machine has been used in polluted waters
- If the machine has been used over its limit (see user manual)
- If the material are subjected to the normal wearing down.

The machine or the defected part will have to be sent to the our factory of ZIBIDO SAN GIACOMO carriage free. HP can express the last judgment about the causes of the damage and, if it can be considered as a case of warranty. After the repair, the plant or the part will be sent back to the customer, that will be charged of the carriage costs.

HP High Pressure Srl has the right, to apply any modifications, to the warranty terms.

COMPETENT COURT

For any eventual dispute, Milan will be the competent court



HP acqua pura

L.C. Vincent said: "...even the predisposition to the cancer can be influenced by the quality of the water. In particular to treat the water there are methods using the chlorine and the ozone, processes strongly oxidant and causing the cancer". As a solution most of us uses the so said "mineral water", bought more and more, even on the way of strong commercial actions, without calculating and being aware of the physical and chemical properties of the water. Even The European Union in 2001 strongly accused Italy and the improper use of the mineral waters. Sometimes the characteristics of these waters are worst than the tap water coming from the municipality. Sometimes these waters can be considered out of the law, if they were distributed by the public water network. A good and vital water should have these characteristics:

ph 6-6,8 rH2 25-28

ro 6000 ohm minimum

In this case we are in front a very light water with a concentration of residual elements less than 50 mg/lt at 180°C, poor of sodium ions and nitrates free and so microbiologically pure. The water supplied by ACQUA PURA is this all: it is chlorine free, ozone free and pure. This water perfectly respects the bio-electronic parameters, and so it is advised as water to drink, as water for the preparation of the food for children and would be favourable its use even for cooking the foods, or for the body or face washing .ACQUA PURA uses a new kind of nanofiltration reverse osmosis membrane produced in exclusive by DOW CHEMICAL. The water from the tank is treated by ACQUA PURA system, directly, then without stoking the water in another tank. The produced water from the membrane is immediately used without other treatments, like UV sterilisation or chlorine adding. The dumped water of the membrane is sent back to the water tank in order to avoid any waste.

WHAT IS NEW

- CHLORINE FREE
- OZONE FREE
- DRINK YOUR TANK FRESH WATER
- PURE AND DRINKING WATER
- DIRECT REVERSE OSMOSIS
- IT DOES NOT WASTE YOUR WATER

ADVANTAGES

- IDEAL TO TREAT THE WATER OF THE MARINAS
- IDEAL FOR THE BOAT WITHOUT WATERMAKER
- EASY TO INSTALL
- EASY TO USE





HP acqua pura The riverse osmosis system to treat the tank water



Model	Flow Rate Lt/h	Membrane	Price
HP ACQUA PURA	60-80	1	€ 2.300

MODEL	ACQUA PURA
Flow Rate Lt/h – 7 BAR	60 -80
Daily Flow rate Lt/giorno	1700
Conductivity produced water uS	100
Installed power W	100
Total weight Kg	15
Overall Dimensions mm L x A x P	300 X 443 X 185

LAWS REFERENCES

LAW 98/78/CE OF THE EUROPEAN PARLIAMENT 3/10/1998

LAW N°31 ACTUATION OF THE 98/78/CE N°443 OF THE 21/12/1990

PATENT NUMBER MI2001U000640 OF THE 6/12/2001



HP rp tronic THE NEW FRONTIER

The main problem, when we talk about watermakers, is the use and the maintenance. Regarding its use, it is well known, that changing sea water conditions, the watermaker pressure regulation has to be set and reset continuously .Usually these manoeuvres have to be made directly on the watermaker, always installed in narrow places and not easily accessible. These procedures are not so clear for all the user, that may provoke malfunctioning if made in wrong ways.

HP patented a new Automatic Pressure Regulation valve, called HP PR TRONIC, that automatically regulates the working pressure for any kind of water. The user just has to give it sea water, starting and stopping the system and nothing else.

HP PR TRONIC is equipped of a pressure transducer that analyses the circuit pressure, gradually regulating it at the set up value, thanks to a micro metric motor (2 rpm), that turns clock and anti clock wises, for opening or closing the needle valve.



This pressure regulation system, unique and innovative watermakers, will be combined to the new PLC logic HP PLC03, that will also allow the remote hand operated regulation of the pressure from the wheel house (FIRST WATERMAKER WITH REMOTE PRESSURE CONTROL). This valve can also be used manually, avoiding any watermaker stop. All the AUTOMATIC plants of the series SUPER COMPACT, VERTICAL, SC DOUBLE, ELITE, will be standard equipped of PR TRONIC system.

ADVANTAGES OF RP TRONIC SERIES

- Automatic regulation of the working pressure for any kind of water.
- Working pressure adjustable from the remote control panel.
- Remote visualization of the working pressure, of sea water temperature, quantity and quality of the produced fresh water, and working hours.
- Remote controlled working paramemeters set.
- Acustic alarm of minimum and maximum pressure, and of the not conforming water dump outboard.
- New software HP PLC03
- Integrated general diagnostic



- o Micro metric motor
- AISI 316 and anti-corodal aluminium valve body
- o Automatic regulation of the working pressure
- Working pressure adjustable from the remote control panel
- Possibility of HAND OPERATED valve regulation.







HP UC

It is well known that 12V - 24V piston pump reverse osmosis watermakers, have an elevated current absorption, and an insufficient production, and a limited reliability. *From now on won't be like this.* HP HIGH PRESSURE S.R.L. invented and patented a heat recovery system that allows, elevated production of the osmotic membrane and low current consumption, also for DC piston pumps. HP system, consists in a AISI316 cooling chamber for the electrical motor that allows to take advantage of the dispersed energy (heat) from the motor, to render the membrane much more productive, maintaining the motor temperature at minimum levels, then lowering the amps consumption. The extreme compact overall dimensions allow its placement everywhere.

The weight of the new water maker HP ULTRA COMPACT is just 25 Kg. Very easy to install, HP ULTRA COMPACT is able to produce 45 Lt/h of fresh water at 50 bar just using 16 A, at 24 V DC and 39 A at 12V DC. This water maker has been tested continuously for 15 days 24 hours on 24, in a marine surrounding, with sea water, without showing any yielding signs. This new product has been tested for 15 days. It has worked continuously for



15 days 24 hours on 24, in a marine surrounding, with sea water with a salinity of 40000 ppm TDS at 15°C, using a FILMTEC SW30 2521 membrane. The passage from the cooling system of the motor (85°C on the external surface), gave us the possibility to recover 9-10°C in the feeding water, so during the tests the inlet water was about 25°C.

We have obtained a double result: Cooling the electric motor, improving its performances, avoiding an excessive amps consumption; and heating the inlet sea water to render it more fluid and to help the membrane being more permeable and so more efficient.



Energy Thermal Recovery system (patented)



HP UC compared to a small laptop



HP UC

Ultra Compact watermaker with TERS (Thermal Energy Recovery System).

It can be supplied in 12V – 24V – 110V 60Hz - 220V 50Hz – 230V 60 Hz





HP UC35 MANUAL

HP UC70 RP TRONIC

Model	Flow rate Lt/h	Membranes	Price
HP UC 35	35	1 - 2521	€ 4.950
HP UC 35 RP TRONIC	35	1 - 2521	€ 7.950
HP UC 35 – 220V	35	1 - 2521	€ 5.750
HP UC 35 RP TR - 220V	35	1 - 2521	€ 8.650
HP UC 70 – 220V	70	2 - 2521	€ 7.850
HP UC 70 RP TR - 220V	70	2 - 2521	€ 10.200

MANUAL:

Manual flushing system
Manual pressure regulation
Cartridge pre filtration
BRASS high pressure pump head
AISI 316 Pressure Vessels
AISI 316 Gauge meter
Charcoal filters
Electric switchboard

RP TRONIC:

AUTOMATIC MEMBRANES FLUSHING
AUTOMATIC PRESSURE REGULATION NEW
Cartridge pre filtration
AISI 316 Pressure Vessels
AISI 316 Pressure transducer
Digital Amper Meter NEW
Digital Volt Meter NEW
Non conforming water dump system
Digital conductivity transducer
Charcoal filters
Electric switchboard HP PLC 03
Remote Control Panel with remote pressure
regulation NEW

WARRANTY3 YEARS ON CORROSION AND FUNCTIONING



Technical Characteristics HP UC

MODELS	UC 35 12V	UC 35 24V	UC35 220V	UC70 220V
Flow rate Lt/h	35	35	35	70
Nominal flow rate Lt/h	45	45	45	80
Daily flow rate Lt/day	840	840	840	840
Nominal flow rate Lt/day	1080	1080	1080	1080
Conductivity permeate uS	200/300	200/300	200/300	200/300
Installed Power W	300	200	750	750
Total Weight Kg	35	25	35	35
Overall dimension mm	600 X 300	600 X 280 X	600 X 300 X	600 X 300X
LxHxD	X 260	260	260	260

The membrane can be separated by the machine and installed elsewhere.

Overall dimension of the	mm	mm	mm	mm
body without the membrane	600 X 280	410 X 280 X	600 X 280	600 X 280 X
LxHxD	X 260	260	X 260	260

CONNECTIONS	UC 35 12V	UC 35 24V	UC35 220V	UC70 220V
Sea inlet	½" – 20mm	½" – 20mm	½" – 20mm	½" – 20mm
Tank inlet	½" – 20mm	½" – 20mm	½" – 20mm	½" – 20mm
Concentrate outlet	½" – 14mm	½" – 14mm	½" – 14mm	½" – 14mm
Production outlet	½" – 14mm	½" – 14mm	½" – 14mm	½" – 14mm

CONSUMPTION at 15°C inlet seawater		UC 35 12V	UC 35 24V
BAR	Lt/h	Α	Α
30	18	16	8
35	25	24	12
40	39	28	14
50	45	32	16
55	50	39	18
60	55	40	20

The energy consumption at 220V – 50 HZ is 750 W

Data acquired on the 15th continuous day of functioning



HP kit ECO

The system is supplied in separated parts tested all together in our factory before the delivery. This watermaker is very simple and economic. It is recommended in case that the user has no space on board and is searching an economic plant. This system is available with the automatic flush of the membranes to combine with the electrical switchboard HPA and with the low pressure pump (please see the paragraph OPTIONAL FOR HP WATERMAKER).

Model	Flow rate Lt/h	Frame	Membranes	Price
HP ECO 35	35	AISI 316	1 - 2521	€ 4.500
HP ECO 70	70	AISI 316	1 - 2540	€ 5.000
HP ECO 140	140	AISI 316	2 - 2540	€ 6.500
HP ECO 180	180	AISI 316	3 - 2540	€ 8.000
HP ECO 260	260	AISI 316	4 - 2540	€ 9.500

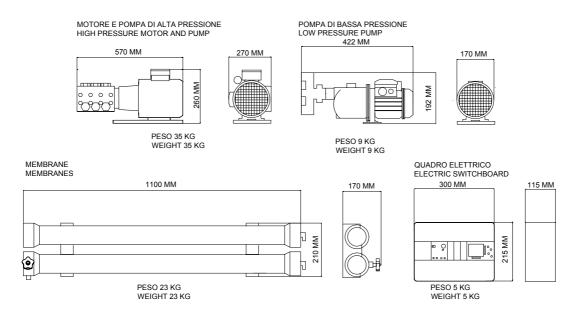
The kit includes the following items:

- AISI 316 PUMP BASE AND FILTER SUPPORTS
- BRASS HIGH PRESSURE PUMP
- SAFETY VALVE FOR HIGH PRESSURE PUMP
- OSMOTIC MEMBRANES 2540
- AISI 316 PRESSURE VESSEL 2540

- AISI 316 NEEDLE REGULATION VALVE
- AISI 316 HIGH PRESSURE FITTINGS
- ELECTRIC SWITCHBOARD
- GAUGE METER
- NON CONFORMING WATER AUTOMATIC SYSTEM

WARRANTY 3 YEARS ON CORROSION AND FUNCTIONING

SCHEMA COMPONENTI KIT ECO COMPONENT'S SCHEME KIT ECO





HP SC

HP SC (Super Compact) is supplied on its frame. SC Series can be equipped of membranes 2521 (short) up to a production of 140 Lt/h and can produce up to 260 Lt/h with four membranes 2540. SC Auto series is equipped of the automatic pressure regulation and automatic membranes flushing.



Model	Flow Rate Lt/h	Membrane	MANUAL	RP TRONIC
HP SC 35	35	1-2521	€ 8.833	€ 11.300
HP SC 70	70	1-2540 o 2-2521	€ 9.400	€ 11.700
HP SC 105	105	3-2521	€ 10.300	€ 12.900
HP SC 140	140	2-2540 o 4-2521	€ 10.900	€ 13.300
HP SC 180	180	3-2540	€ 12.700	€ 15.000
HP SC 260	260	4-2540	€ 14.300	€ 16.836

NOTE: All the plants of the SC series are equipped of all the components of the model HP KIT ECO which the following devices are added to:

MANUAL:

Manual flushing system
Manual pressure regulation
Cartridge pre filtration
BRASS high pressure pump head
AISI 316 Pressure Vessels
AISI 316 Pressure transducer
Non conforming water dump system
Digital conductivity transducer
Charcoal filters
Electric switchboard

RP TRONIC:

AUTOMATIC MEMBRANES FLUSHING
AUTOMATIC PRESSURE REGULATION NEW
Cartridge pre filtration
AISI 316 high pressure pump head
AISI 316 Pressure Vessels
AISI 316 Pressure transducer
Digital Thermometer NEW
Non conforming water dump system
Digital conductivity transducer
Charcoal filters
Electric switchboard
Remote Control Panel with remote pressure
regulation NEW

<u>WARRANTY</u>
3 YEARS ON CORROSION AND FUNCTIONING



Technical characteristics of the series HP SC

MODEL	SC 70	SC 140	SC 180	SC 260
Flow rate Lt/h	70	140	180	260
Nominal flow rate Lt/h	83	166	249	332
Daily flow rate Lt/day	1680	3360	4320	6240
Nominal flow rate Lt/day	1992	3984	5976	7968
Conductivity permeate uS	200/300	200/300	200/300	200/300
Installed Power kW	1,8	1.8	1.8	1.8
Total Weight Kg	79	86	93	100
Overall dimension mm	1060x	1060x	1060x	1060x
LxHxD	435x430	435x430	435x430	540X430

The flow rates are calculated for a treated water with 35000 ppm at 25°C

CONNECTIONS	SC 70	SC140	SC180	SC260
Sea water inlet	1"-30mm	1"-30mm	1"-30mm	1"-30mm
Tank inlet (for washing)	½"-20mm	½"-20mm	½"-20mm	½"-20mm
Concentrate drain	⅓"-12mm	1⁄4"-12mm	1⁄4"-12mm	½"-12mm
Permeate outlet	½"-20mm	½"-20mm	½"-20mm	½"-20mm
Not conforming water outlet	⅓"-12mm	1⁄4"-12mm	1⁄4"-12mm	½"-12mm

REGULATIONS	SC 70	SC140	SC180	SC260
Working pressure	60 bar	60 bar	60 bar	60 bar
Conductivity meter	400uS	400uS	400uS	400uS
Alarm for low pressure	20 bar	20 bar	20 bar	20 bar
Alarm for high pressure	68 bar	68 bar	68 bar	68 bar

ABSORBED CURRENT	SC70	SC140	SC180	SC260
High Pressure pump	9,5A	9,5A	9,5A	9,5A
Low Pressure pump	1,9A	1,9A	1,9A	1,9A



V SERIES

The HP V series answers to the demands of spaces on board with regards to the mono block construction. The vertical conception of the plant gives the possibility to insert the system in tight places. The base of the HP V is only 470 mm X 280 mm, and the height is 620 mm. These measurements are referred to the body of the watermaker that in this case does not include the membranes that can be easily be installed vertically or horizontally everywhere.



The watermakers of the V series are modular and can be supplied in the V KIT version (see the drawing in the following page) without any extra cost.

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Model	Flow rate Lt/h	Membranes	Material	Manual	RP TRONIC	
HP V 35	35	1 – 2521	AISI 316	€ 8.833	€ 11.300	
HP V 70	70	2 – 2521	AISI 316	€ 9.400	€ 11.700	
HP V 140	140	4 – 2521	AISI 316	€ 10.900	€ 13.300	
HP V 180	180	3 – 2540 S	AISI 316	€ 12.700	€ 15.000	
HP V 260	260	4 – 2540 S	AISI 316	€ 14.300	€ 16.836	

S: on the wall

MANUAL:

Manual flushing system
Manual pressure regulation
Cartridge pre filtration
BRASS high pressure pump head
AISI 316 Pressure Vessels
AISI 316 Pressure transducer
Non conforming water dump system
Digital conductivity transducer
Charcoal filters
Electric switchboard

RP TRONIC:

AUTOMATIC MEMBRANES FLUSHING
AUTOMATIC PRESSURE REGULATION NEW
Cartridge pre filtration
AISI 316 high pressure pump head
AISI 316 Pressure Vessels
AISI 316 Pressure transducer
Digital Thermometer NEW
Non conforming water dump system
Digital conductivity transducer

Charcoal filters
Electric switchboard

Remote Control Panel with pressure regulation NEW

WARRANTY
3 YEARS ON CORROSION AND FUNCTIONING



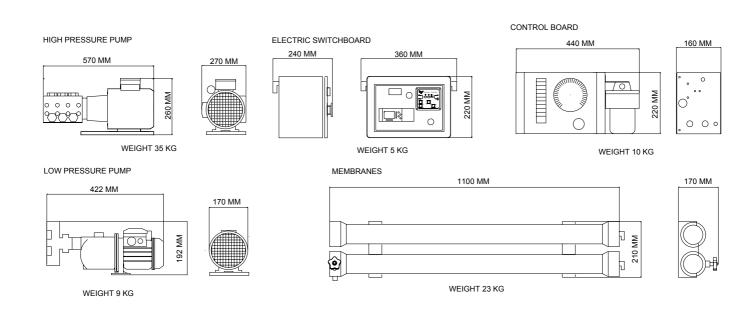
Technical characteristics of the series HP V (Vertical Model)

MODEL	V70	V140	V180	V260
Flow rate Lt/h	70	140	180	260
Nominal flow rate Lt/h	83	166	249	332
Daily flow rate Lt/day	1680	3360	4320	6240
Nominal flow rate Lt/day	1992	3984	5976	7968
Conductivity permeate uS	200/300	200/300	200/300	200/300
Installed Power kW	1,8	1.8	1.8	1.8
Total Weight Kg	79	86	93	102
Overall dimension mm	470x620	470x620	470x620	470x620
LxHxD	x280	x280	x280	x280

The flow rates are calculated for a treated water with 35000 ppm at 25°C

CONNECTIONS	V70	V140	V180	V260
Sea water inlet	1"-30mm	1"-30mm	1"-30mm	1"-30mm
Tank inlet (for washing)	½"-20mm	½"-20mm	½"-20mm	½"-20mm
Concentrate drain	1⁄4"-12mm	1⁄4"-12mm	1⁄4"-12mm	1⁄4"-12mm
Permeate outlet	½"-20mm	½"-20mm	½"-20mm	½"-20mm
Not conforming water outlet	1⁄4"-12mm	1⁄4"-12mm	1⁄4"-12mm	1⁄4"-12mm

REGULATIONS	V70	V140	V180	V260
Working pressure	60 bar	60 bar	60 bar	60 bar
Conductivity meter	400uS	400uS	400uS	400uS
Alarm for low pressure	20 bar	20 bar	20 bar	20 bar
Alarm for high pressure	68 bar	68 bar	68 bar	68 bar
ABSORBED CURRENT	V70	V140	V180	V260
High Pressure pump	9,5A	9,5A	9,5A	9,5A
Low Pressure pump	1,9A	1,9A	1,9A	1,9A





HP eLITE SERIES

The HP Elite watermakers can be considered the most professional watermaker of our production. The PLC keeps every variable under control before and after the membranes. It is supplied only in the automatic version. HIGH PRESSURE PUMP 600 RPM.



Model	Flow Rate Lt/h	Membranes	RP TRONIC
HP ÉLITE 200	200	SW30 1-4040	€ 30.800
HP ÉLITE 400	400	SW30 2-4040	€ 35.900
HP ÉLITE 600	600	SW30 3-4040	€ 40.500
HP ÉLITE 800	800	SW30 4-4040	€ 45.600
HP ÉLITE 1000	1000	SW30 1-8040	€ 52.700

NOTE: All the watermaker of the ELITE series are equipped of all the components of the models HP SC and they can be supplied also in the HAND OPERATED SERIES on request.

RP TRONIC:

AUTOMATIC MEMBRANES FLUSHING AUTOMATIC PRESSURE REGULATION NEW

Cartridge pre filtration

AISI 316 DOUBLE high pressure pump head

AISI 316 Pressure Vessels

AISI 316 Pressure transducer

Digital Thermometer NEW

Non conforming water dump system

Digital conductivity transducer

Charcoal filters

Electric switchboard

Remote Control Panel with pressure regulation NEW

<u>WARRANTY</u>
3 YEARS ON CORROSION AND FUNCTIONING



Technical characteristics of the series HP ELITE

MODEL	Elite 200	Elite 400	Elite 600	Elite 800	Elite 1000
Flow rate Lt/h	200	400	600	800	1000
Nominal flow rate Lt/h					
Daily flow rate Lt/day	4800	9600	14400	19200	24000
Nominal flow rate Lt/day					
Conductivity permeate uS	200/300	200/300	200/300	200/300	200/300
Installed Power kW	5,5	5,5	7	7	7
Total Weight Kg	230	250	270	290	260
Overall dimension mm	1200x	1200x	1200x	1200x	1200x
LxHxD	1100x760	1100x760	1100x760	1100x760	1100x760

The flow rates are calculated for a treated water with 35000 ppm at 25°C

CONNECTIONS	Elite 200	Elite 400	Elite 600	Elite 800	Elite 1000
Sea water inlet	1¼"-42mm	1¼"-42mm	1¼"-42mm	1¼"-42mm	1¼"-42mm
Tank inlet (for washing)	3⁄4"-25mm	3/4"-25mm	³⁄₄"-25mm	³⁄₄"-25mm	3/4"-25mm
Concentrate drain	½"-20mm	½"-20mm	½"-20mm	½"-20mm	½"-20mm
Permeate outlet	½"-20mm	½"-20mm	½"-20mm	½"-20mm	½"-20mm
Not conforming water outlet	½"-20mm	½"-20mm	½"-20mm	½"-20mm	½"-20mm

REGULATIONS	Elite 200	Elite 400	Elite 600	Elite 800	Elite 1000
Working pressure	60 bar				
Conductivity meter	400uS	400uS	400uS	400uS	400uS
Alarm for low pressure	20 bar				
Alarm for high pressure	68 bar				



HP eLITE VERTICAL

The HP Elite Vertical watermakers can be considered the most professional watermaker of our production. The PLC keeps every variable under control before and after the membranes. It is supplied only in the automatic version. HIGH PRESSURE PUMP 600 RPM.



Model	Flow Rate Lt/h	Membranes	RP TRONIC
HP ÉLITE V200	200	SW30 1-4040	€ 30.800
HP ÉLITE V400	400	SW30 2-4040	€ 35.900
HP ÉLITE V600	600	SW30 3-4040	€ 40.500
HP ÉLITE V800	800	SW30 4-4040	€ 45.600
HP ÉLITE V1000	1000	SW30 1-8040	€ 52.700

NOTE: All the watermaker of the ELITE series are equipped of all the components of the models HP SC and they can be supplied also in the HAND OPERATED SERIES on request.

RP TRONIC:

AUTOMATIC MEMBRANES FLUSHING AUTOMATIC PRESSURE REGULATION NEW

Cartridge pre filtration

AISI 316 DOUBLE high pressure pump head

AISI 316 Pressure Vessels

AISI 316 Pressure transducer

Digital Thermometer NEW

Non conforming water dump system Digital conductivity transducer

Charcoal filters

Electric switchboard

Remote Control Panel with pressure regulation NEW

<u>WARRANTY</u>
3 YEARS ON CORROSION AND FUNCTIONING



Technical characteristics of the series HP ELITE VERTICAL

MODEL	Elite 200	Elite 400	Elite 600	Elite 800	Elite 1000
Flow rate Lt/h	200	400	600	800	1000
Nominal flow rate Lt/h					
Daily flow rate Lt/day	4800	9600	14400	19200	24000
Nominal flow rate Lt/day					
Conductivity permeate uS	200/300	200/300	200/300	200/300	200/300
Installed Power kW	5,5	5,5	7	7	7
Total Weight Kg	230	250	270	290	260
Overall dimension mm	600x1200	600x1200	600x1200	600x1200	600x1200
LxHxD	x600	x600	x600	x600	x600

The flow rates are calculated for a treated water with 35000 ppm at 25°C

CONNECTIONS	Elite 200	Elite 400	Elite 600	Elite 800	Elite 1000
Sea water inlet	1¼"-42mm	1¼"-42mm	1¼"-42mm	1¼"-42mm	1¼"-42mm
Tank inlet (for washing)	3⁄4"-25mm	3/4"-25mm	³⁄₄"-25mm	³⁄₄"-25mm	3/4"-25mm
Concentrate drain	½"-20mm	½"-20mm	½"-20mm	½"-20mm	½"-20mm
Permeate outlet	½"-20mm	½"-20mm	½"-20mm	½"-20mm	½"-20mm
Not conforming water outlet	½"-20mm	½"-20mm	½"-20mm	½"-20mm	½"-20mm

REGULATIONS	Elite 200	Elite 400	Elite 600	Elite 800	Elite 1000
Working pressure	60 bar				
Conductivity meter	400uS	400uS	400uS	400uS	400uS
Alarm for low pressure	20 bar				
Alarm for high pressure	68 bar				



HP Remote Control Panel HP RCP



HP RCP 1000

- This remote control panel allows to control HP watermakers and to visualize all the parameters of the watermaker functioning.
- The panel is made of AISI 316 Stainelss Steel with a specify resistance to the marine corrosion.
- The mask is printed on the top with marine resistant varnish.
- The RCP is supplied with a 15 poles cable (standard length 15mt) Please ask before for longer cables.
- Automatic regulation of the working pressure for any kind of water.

- Working pressure adjustable from the remote control panel.
- Remote visualisation of the working pressure, of sea water temperature, quantity and quality of the produced fresh water, and working hours.
- Remote controlled working parameters set.
- Acoustic alarm of minimum and maximum pressure, and of the not conforming water dump outboard.
- New software HP PLC03
- Integrated general dialogue diagnostic



Accessories and sparse for HP High Pressure watermakers

€ 194
€ 1.250
€ 390
€ 390
€ 690
€ 75
€ 90
€ 65
€ 80
€ 940
€ 1.740
€ 388
€ 581
€ 1.200
€ 2.600
€ 426
€ 582
€ 600
€ 1.200
€ 2.600
€ 64
€ 80
€ 160 € 160
€164
€ 300
€ 80
€ 80 € 193
€ 193 € 144
€ 80
€ 130
€ 150
€ 250 € 193
€ 193 € 200
€ 200 € 1.162
€ 750 € 300
€ 300 €1.100
€1.100
€ 100
C 100
<i>E</i> 6
€ 6
€ 6
€ 8
€0
€ 26
€ 22
€ 32 € 26



Sand Filter	
HP SAND 12X48	€ 2.000
HP SAND 21X60	€ 2.500
Automatic fresh water line Solenoid valve (EV2)	€ 300
Anti flocculent dosing system (Product not included)	€ 900
Anti flocculent Product	€ 15
Permatreat 391 (1 Kg)	
Prefiltro multicartuccia INOX	€ 1.300
UV Sterilizer 200 Lt/h	€ 500
UV Sterilizer 400 Lt/h	€ 1.400
UV Sterilizer 500 Lt/h	€ 1.000
UV Sterilizer 2000 Lt/h	€ 1.900
Package (mod. UC)	€ 60
Package (mod. SC - SC KIT - CDP)	€ 155
Package (mod. V)	€ 195
Package (mod. ELITE - DOUBLE)	€ 145





Sand filters containers

UV Sterilizer