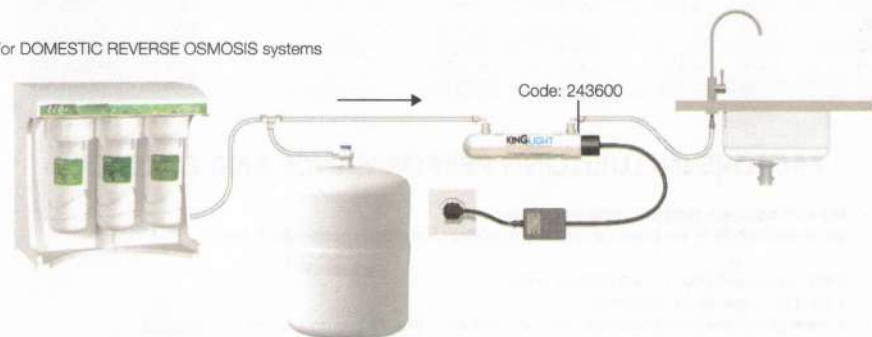


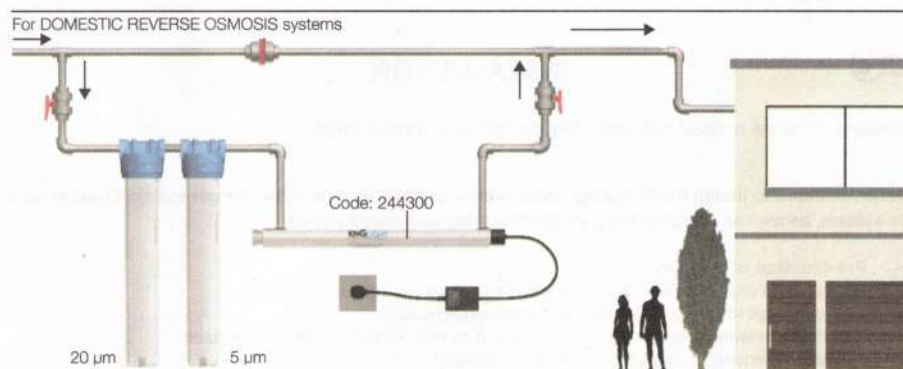
KINGLIGHT

Ultraviolet Water System

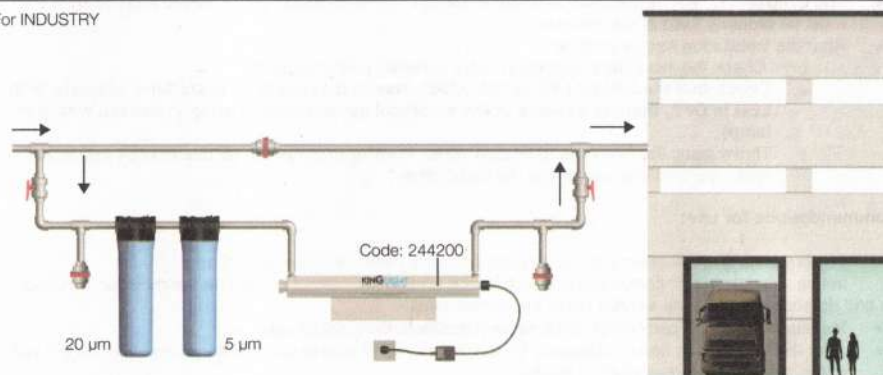
For DOMESTIC REVERSE OSMOSIS systems



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For INDUSTRY



PuricomEurope[®]
REVERSE OSMOSIS PURE WATER

C/ Aiguafreda, 8
Pol. Ind. L'Ametlla Park
08480 L'Ametlla del Vallès.
Barcelona. Spain.

T + 34 936 934 310
F + 34 936 934 329
puricom@puricom.eu
www.puricom.eu

PuricomAmerica[®]
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TECHNICAL SPECIFICATIONS

CODE	NAME	LAMPS	FILTERED WATER FLOW	RO WATER FLOW	CONNECT.	MAXIMUM PRESSURE	LAMP SERVICE LIFE	SPECS.
244600	UV0240LH	1 X 6W	0,12 m3/h	0,24 m3/h	¼"	6 bar	9000 h	LED ALARM.
244000	UV0480LH	1 X 14W	0,36 m3/h	0,48 m3/h	¼"	8 bar	9000 h	LED ALARM.
244100	UV1200LH	1 X 24W	0,96 m3/h	1,20 m3/h	½"	8 bar	9000 h	LED ALARM.
243900	UV3300LH	1 X 39W	2,80 m3/h	3,30 m3/h	¾"	8 bar	9000 h	LED ALARM.
243700	UVS3300LH	1 X 39W	2,80 m3/h	3,30 m3/h	¾"	8 bar	9000 h	LED + SOP
243800	UVP3300LH	1 X 39W	2,80 m3/h	3,30 m3/h	¾"	8 bar	9000 h	PROG + LED
244400	UV5800LH	2 X 39W	4,80 m3/h	5,80 m3/h	1"	8 bar	9000 h	LED + SOP
244200	UVP5800LH	2 X 39W	4,80 m3/h	5,80 m3/h	1"	8 bar	9000 h	PROG + LED
244201	UV12000LH	4 X 39W	10,0 m3/h	12,0 m3/h	1 ½"	8 bar	9000 h	LED + SOP

FACTORS INFLUENCING PERFORMANCE AND EFFICACY

No son equipos potabilizadores por si solos.

Se recomienda la instalación de una prefiltración de al menos 5-10 µm.

- Initial bacteriological contamination level.
- Solids in suspension. Turbidity.
- Levels of compounds absorbing the UVC radiation (Fe, Mn, humic acids, organic, ...).
- Hardness. Fouling on Q-sleeve. (Hot surface).
- Maximum flow.



INSTALLATION

Installation must be carried out according to national laws in force.

It is recommended to install the following components, in order to guarantee the germicidal effectiveness of the system, as well as carrying out a proper handling and maintenance.

- **Pre-filtration of 5-10 µm.**
- By-pass and shut-off valve should be installed before the system.
- Leave enough room for installation and lamp replacement.
- A periodical cleaning system of the system and its components must be scheduled.
- It is recommended to install the systems horizontally.
- The lamp (along with its electrical adapter) must be introduced inside the Q-sleeve and the connector must be properly fixed at the end cap.
- After the installation has been done:
 - Check the installation visually in order to detect possible leaks.
 - **Check that the ballast LED is ON, which means that the lamp is working properly. If the LED is OFF, there is a failure in the electrical system (power supply, ballast, wiring or lamp).**
 - Throw away the first litres of treated water, in order to purge the air that may be inside, the impurities and the residues of the installation.

Recommendations for use:

- Performance and effectiveness is improved if lamp is permanently switched on. In-line systems which continuously switch lamps on and off, cannot guarantee the minimum radiation dose and drastically reduce the service life of the components.
- Installation must be carried out as close as possible to the point of use.
- After the system has been in stand-by for some time, it will supply warm water, depending on the volume of the radiation chamber of each model.
- When plugging the system to the power supply, wait for 5 minutes before consuming or using treated water.



MAINTENANCE

Lamps must be replaced immediately after:

- Exceeding its service life. Even if they are not blown, the UVC (non visible) radiation level will be below that foreseen in the design and will not be able to guarantee its germicidal efficacy.
- Electrical failure of any of them.



Germicidal lamps have a high mercury content and cannot be thrown away in the usual urban rubbish bins. They must be disposed of in specific waste collection points for the proper recycling procedure.

It is recommended to carry out the following procedures annually:

- Inspection of the electrical and electronic control system, reset hourmeter, check sensors, alarms, etc.
- Replacement of o-rings / plastic fittings depends on the material they are made of and the operating time.
- Clean the system.
- Inspection and maintenance of Q-sleeves. (Depending on the characteristics of water to be treated, Q-sleeves must be properly cleaned every 3 to 12 months). Use an antifouling product (citric acid or similar) and handle it properly.



WARNINGS

- The radiation system must not be manipulated without previously unplugging the system from the power supply.
- Do not manipulate or remove the lamp while it is switched on.
- Do not manipulate the lamp or the connector if the system is switched on.
- Always use the appropriate UVC protection when exposing to the lamp radiation (glasses with UVC filter, gloves, etc.). Exposure to such radiation may cause irritations on eyes and skin.
- The lamp can reach high temperatures during normal operation. Before manipulating it, unplug the system from the power supply and wait for some minutes until the lamp cools down.
- Avoid touching the Q-sleeve surface of the lamp with bare skin. Should this occur, clean the surface with alcohol before installing it.
- The type of quartz used to manufacture the lamp and the Q-sleeve is extremely fragile. Do not force the lamp during installation or wiring. The quartz can be really sharp when broken. Handle all pieces with the appropriate protection and care. Should the Q-sleeve break, carefully check and clean the installation, according to the seriousness of the break, since some pieces might fall into water.
- High power systems will need proper ventilation for operation and installation.
- Use original spare parts. Ballasts have been designed on purpose for the appropriate control and start-up of the lamps integrated in the systems. The use of ballasts or lamps, which have not been approved by the manufacturer, do not guarantee a proper operation, germicidal performance or service life.



ADVANTAGES

- Does not add chemical products into water.
- Does not leave any odours or tastes.
- Avoids the inconveniences and risks concerning the handling and storage of chemical products.
- Great germicidal effectiveness.
- Low contact time.
- Maintenance cost: medium / low, when compared to other germicidal systems.
- Risks for technicians: medium, when compared to other systems.
- Easy installation.