

Home

Continuous-flow
Reverse Osmosis system
for home application

Aqua
PUR



AquaPUR
Slim ED



AquaPUR Slim
with simple commands and water
production from 70 to 90 litres/hour
is the compact version:
33 x 43 x 23 cm only!

AquaPUR is a continuous-flow reverse osmosis system able to deliver 70-110 lt/h of pure water.

It comes with autocontrol *-ED series-* or manual control *-Slim or Standard version-*. It is equipped with a sediment and a granular activated carbon prefilters that eliminate suspended particles such as rust, sand, sediments and remove chlorine that may damage the R.O. membrane module.

AQUAPUR SELECTIVELY REJECTS THE CONCENTRATED SALT SOLIDS AND ELIMINATES NITRATES, BACTERIA, VIRUSES, CHLORINE AND OTHER CONTAMINANTS DISSOLVED IN THE DRINKING WATER.

Standard Features

- Stainless steel frame
- Inlet solenoid valve
- Automatic switch off for low or high pressure
- Pressure gauge
- TFC high flow membrane
- Automatic start and stop switch from the faucet
- Automatic membrane flushing*
- TDS reading on product water*
- Failures warning for high/low pressure*
- Manual membrane flushing
- Installation kit

* Standard features for AquaPUR Slim ED and AquaPUR ED only



AquaPUR is equipped with a flushing system for the membrane and a by-pass valve to adjust the hardness of the treated water.

Small size and easy to install, practical, safe and reliable, AquaPUR can solve the bothering problem of purchasing mineral water.



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AquaPUR



What is Reverse Osmosis?

Osmosis is a natural process, known for over 200 years, which reverse osmosis systems are based on. The wall of living cells are natural semipermeable membranes. This means that the membrane is selective, some materials can pass through it, others cannot. The semipermeable nature of the membrane allows the water to pass much more readily than the dissolved minerals. If two solutions with different salts concentration are separated by a semipermeable membrane, the water in the less concentrated solution tries to dilute the more concentrated solution: this is the natural osmosis phenomenon. When a pressure is applied to the concentrated solution, the flow of water through the membrane is reversed and the process of reverse osmosis is established. The membrane's ability to selectively pass water is unchanged, only the direction of water flow is changed.

With the same features of quality and safety, AquaPUR is available in two versions: AquaPUR ED -with automatic controls- and AquaPUR -simple commands-.

Small size and easy to install, the series AquaPUR has a 50-110 L/h continuous-flow.

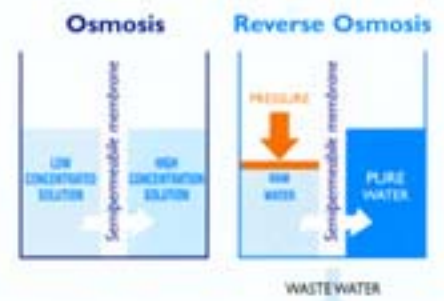


AquaPUR ED

AquaPUR is practical, reliable and cost saving, ideal for bar, restaurants and small Communities.



AquaPUR



Raw water characteristics

Temperature (°C)	min. 5 - max. 30
TDS max. (mg/l)	2.000
pH	min. 3 - max. 11
Free Chlorine max.	0,1 ppm
Water hardness max.	45° F

AquaPUR TECHNICAL SPECIFICATIONS

Model	AquaPUR Slim			AquaPUR		
	NF	TW	NF 70	TW	HR	
Water production*	liters/hour	90	70	110	90	50
	gallons/hour	23	18	28	23	13
Membrane type	TFC					
Sediment prefilter	5 micron					
Granular activated carbon prefilter	25 micron					
Power supply	230 Volt - 50 Hz					
Electric consumption	300 Watt	300 Watt	550 Watt	550 Watt	550 Watt	
Dimensions (a-b-c) mm	322-425-226	322-425-226	325-485-320	325-485-320	325-485-320	

* With raw water at 25°C of temperature and 800 mg/l of TDS (Total Dissolved Solids). The quantity of produced water depends on feed water temperature and TDS.



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Sterilizzatori UV / UV Sterilizers

PERTECO UV sterilizers can eliminate bacteria and viruses from the water for domestic, commercial, industrial application and anywhere a pure, free bacteria and free chlorine water is requested.

They are a valid alternative to using chemicals that, besides altering the water taste, can be noxious to environment. They are equipped with activated carbon cartridge to eliminate bad taste and odour from water.

A 5 micron pre-filtration can be provided for sediments into the water to get UV rays be more effective and carbon filter have longer life.

The high intensity of the UV rays can kill microbes up to 99.9% and disarm their reproducing capacity.

The average life of a lamp is 9000 hrs.

Model	Lt./min	Lt./hour	Cartridge type	Absorption	In-out	Dimensions (cm)
UV SERIES -Max pressure: 4 Bar-						
UV1-CBC	4	240	activated carbon 0.5 µ	10 Watt	½"	12 x 12 x 39
UV2-SD/CBC	4	240	polypropilene 5 µ and activated carbon 0.5 µ	10 Watt	½"	24 x 12 x 39

Power supply: 230 Volt. a.c. - 50 Hz, trasformed to 12 Volt d.c.
Max. pressure: 4 Bar



UVB2-SD/CBC



UVB1-CBC

Model	Lt./min	Lt./hour	Cartridge type	Absorption	In-out	Dimensions (cm)
UVB SERIES						
UVB1-CBC	8	480	activated carbon 0.5 µ	10 Watt	½"	13 x 14 x 40
UVB2-SD/CBC	8	480	polypropilene 5 µ and activated carbon 0.5 µ	10 Watt	½"	27 x 14 x 40

Power supply: 230 Volt. a.c. - 50 Hz, trasformed to 12 Volt d.c.
Max. pressure: 4 Bar

UV20-3/SD/EPM



UV20-2/SD

UV20-1

Model	Lt./min	Lt./hour	Cartridge type	Absorption	In-out	Dimensions (cm)
20 SERIES						
UV20-1 (only UV)	38	2280	-	18 Watt	½"	13 x 16 x 63
UV20-2/SD	38	2280	5 µ	18 Watt	½"	27 x 16 x 63
UV20-2/EPM	38	2280	activated carbon	18 Watt	½"	27 x 16 x 63
UV20-3/SD/EPM	38	2280	polypropilene 5 µ and activated carbon	18 Watt	½"	42 x 16 x 63

Power supply: 230 Volt. a.c. - 50 Hz
Max. pressure: 4 Bar



UVBB-1

UVBB-2/SD DOUBLE



UVBB-2/SD

Model	Lt./min	Lt./hour	Cartridge type	Absorption	In-out	Dimensions (cm)
BIG BLUE SERIES						
UVBB-1 (only UV)	57	3420	-	18 Watt	1" ½	19 x 22 x 74
UVBB-2/SD - UVBB-2/EPM	57	3420	50/5 µ [*] or activated carbon	18 Watt	1" ½	40 x 22 x 74**
UVBB-3/SD/EPM	57	3420	50/5 µ [*] and activated carbon	18 Watt	1" ½	60 x 22 x 74**
UVBB-2/SD DOUBLE	57+57	6840	50/5 µ	18 Watt	1" ½	74 x 48 x 75

*: double filtration in polypropilene
**: also available with stainless steel frame
Max pressure: 6 Bar

Power supply: 230 Volt. a.c. - 50 Hz



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Sterilizzatori UV / UV Sterilizers

Stainless Steel U.V. Sterilizers

The vertical frame UV sterilizers of serie TC are suitable to disinfect the water from bacteria, viruses and other polluting microbes.

These UV systems are modular and in AISI 304 stainless steel (AISI 316 if requested) with low pressure mercury vapours germicidal lamp.



TC-9000



TC-2500

TC-5000

TC-8000

The electrical control panel complies with EC directives and is equipped with ballast to extend the average life of the lamps.

The maximum pressure is 8 Bar and the average lamp life is 9000 hrs. It is advisable to provide upstream a sediment prefiltration for a better effectiveness of the sterilizing process and an activated carbon filter to eliminate bad odour and taste from water.

Model	Lt./min	Lt./hour	Absorption (Watt)	Power supply	In-out	Dimensions (cm)	Weight (Kg)
TC SERIES							<i>lung. x larg. x h</i>
TC 2500	42	2500	90	230 V a.c.-50 Hz*	1"	13 x 16 x 95	9
TC 5000	84	5000	200	230 V a.c.-50 Hz*	1"	24 x 19 x 95	16
TC 8000	134	8000	200	230 V a.c.-50 Hz	1"1/2	38 x 16 107	17
TC 9000	150	9000	250	230 V a.c.-50 Hz	DN 40	UV:(Ø x h) 22x110 frame: 40x22x60	50
TC 13000	217	13000	500	230 V a.c.-50 Hz	DN 50	UV:(Ø x h) 22x110 frame: 40x22x60	50
TC 18000	300	18000	500	230 V c.a.-50 Hz	DN 50	UV:(Ø x h) 22x110 frame: 40x22x60	50
TC 26000	434	26000	750	230 V c.a.-50 Hz	DN 65	UV:(Ø x h) 22x110 frame: 40x22x60	50

Supplied with standard removable joints for cleaning; special connections made under request

*: trasformed to 24 Volt d.c.

Max. pressure: 8 Bar

PERTECO UV sterilizers have a minimum dosage of Ultraviolet energy of 30.000 $\mu\text{Wsec}^2/\text{cm}^2$.

The following list indicates the most common bacteria and viruses and the UV energy necessary to destroy them.

It is recommended not to exceed the flow rate indicated for each model.

INTENSITY OF UV ENERGY REQUIRED FOR 99.9% DESTRUCTION OF VARIOUS MICRO-ORGANISMS:

$\mu\text{Wsec}/\text{cm}^2$

BACTERIA

Agrobacterium tumefaciens	8500
Rhodospirillum rubrum	6200
Bacillus anthracis	8700
Salmonella enteridis	7600
Bacillus megaterium	2500
Salmonella paratyphi	6100
Bacillus subtilis	11000
Salmonella typhimurium	15200
Clostridium tetani	22000
Salmonella typhosa	6000
Corynebacterium diptheriae	6500
Shigella dysenteriae	4200
Escherichia coli	7000
Shigella flexneri	3400
Legionella bozemanii	3500
Staphylococcus epidermidis	5800
Legionella dumoffii	5500
Staphylococcus aureus	7000
Legionella gormanii	4900
Streptococcus faecalis	10000
Legionella micdadei	3100
Legionella pneumophila	3800

VIRUS

Bacteriophage	6600
Leptospira interrogans	6000
Hepatitis virus	8000
Mycobacterium tuberculosis	10000
Influenza virus	6600
Proteus vulgaris	6600
Poliovirus	21000
Pseudomonas aeruginosa	10500
Rotavirus	24000



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