



**Philips
Reverse Osmosis
Water Station
Filter Cartridge with
Aquaporin Inside™**

2000L purifying capacity
(up to 1 year / 5L per day)



ADD541RO/79

Biomimetic reverse osmosis membrane Removes 110* harmful substances

The biomimetic membrane incorporates aquaporin proteins to filter water faster and more energy-efficient.

Replacement cartridge for Philips Water Stations ADD6901HBK01/79 and ADD6912BK/79.

Filters over 110 contaminants*

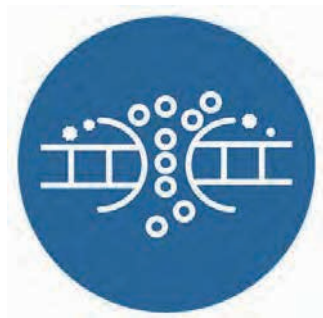
- Chlorine (>99.5%)
- Fluoride (>99.5%)
- Bacteria (99.9999%)
- Viruses (99.999%)
- Bentazone (>99.6%)
- 2,4,6-Trichlorophenol TCP (99.9%)
- PFOA (>99.0%)
- PFOS (>98.9%)
- Hardness
- Lead (Pb)
- Pesticide
- Volatile organic compound
- Metal Ions
- Total Dissolved Solids (TDS)

PHILIPS

Aquaporin Inside™ RO Filter Cartridge

5-stage Reverse Osmosis filtration technology with Aquaporin Inside™, 2000L purifying capacity, Last up to 1 year

Highlights



Experience cleaner, safer water every day with Philips Aquaporin Inside™ technology. This breakthrough reverse osmosis filtration system harnesses the power of nature's own water channels, aquaporin proteins, for superior filtration down to 0.0001 micron. It reduces a wide range of impurities and dissolved solids, ensuring you enjoy consistently safe, refreshing, pure-tasting water for your everyday needs. Tested in collaboration with NASA and ESA, Aquaporin Inside™ technology brings space-age innovation to your home.



The Philips Quick Twist multi stage RO filter with Aquaporin Inside™ technology is extremely efficient: only 1 volume waste water is created when 3 volumes purified water are produced (drain ratio 3:1). Traditional RO systems produce 12 volumes of waste water for 3 volumes of purified water (drain ration 1:4). Great when water sources are scarce!

ADD541RO/79

Specifications

Filter specifications

- Main filter media: RO
- Filtration capacity: 2000L

General specifications

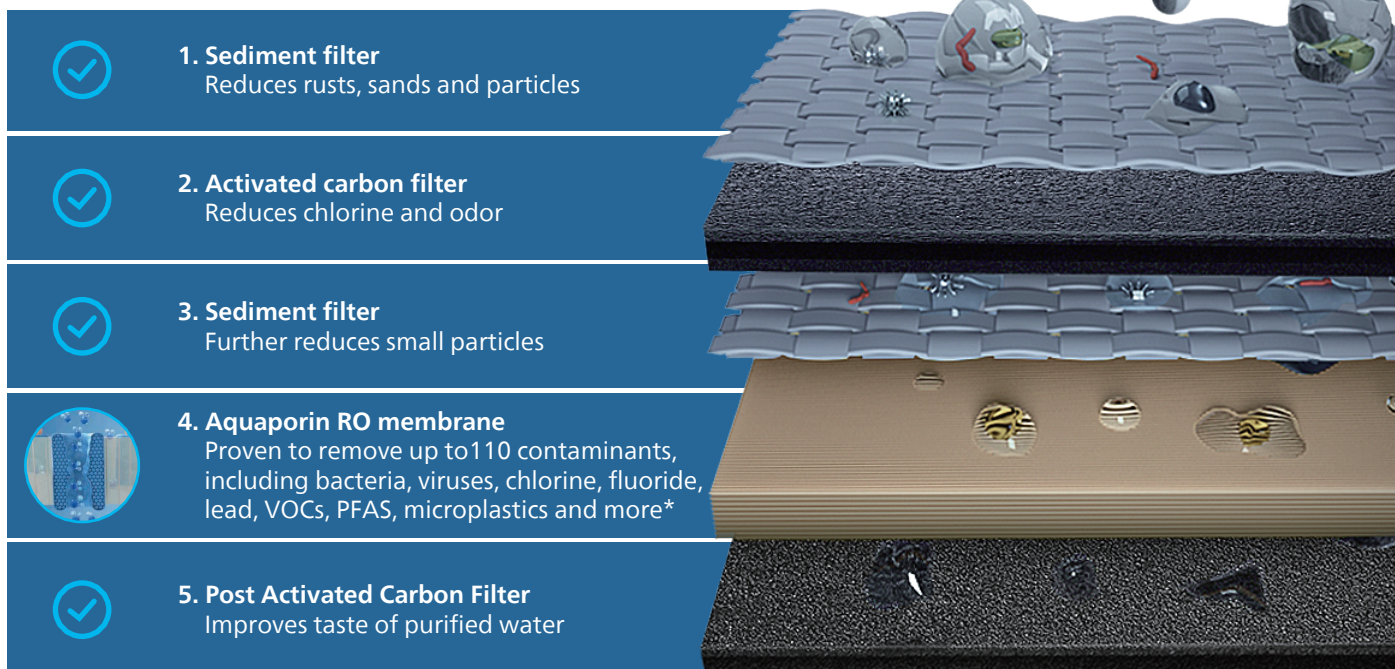
- gross weight: 0.65 kg
- net weight: 0.55 kg
- Filter quantity: 1-pack
- Packaging Dimension (L*W*H): 75*75*340 mm

Main parameters

- Applicable water temperature: 5-38 °C
- Rated water flow: 0.13L/min



5-stage **Aquaporin Inside™** RO cartridge for 2,000 liters of water purification (ADD541RO/79)



Issue date 2024-06-17

Version: 13.13.1pb2

EAN: 4895244613071

© 2024 Koninklijke Philips N.V.
All Rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. or their respective owners.

www.philips.com

* * Tested by 3rd party testing agency under laboratory conditions. The contaminants or other substances reduced by this water filter are not necessarily in all users' water.

This system has been tested by 3rd party testing agencies, such as SGS and laboratory accredited by CNAS, under laboratory conditions, according to test methods nominated by Philips for reduction of the substances listed below.



Filtration performance data for the Philips ADD541RO/79 Reverse Osmosis Filter Cartridge used in the Philips Aquaporin Inside™ Reverse Osmosis Countertop Water Stations ADD6901 and ADD6912

Filter Model	Filter capacity	Recommended filter lifetime	Flow rate	Filtration precision
ADD541	2000L	12 months	0.13L/min	Down to 0.0001 micron

Number	Test item(s)	Unit(s)	Test result(s)		Removal rate(s)(%)
			Influent spiked water	Effluent filtrated water	
1	MS2 coliphage	pfu/mL	1.7×10 ⁵	<1	>99.999
2	Total coliforms	CUF/100mL	1.4×10 ⁶	<1	>99.9999
3	Ammonia nitrogen (as N)	mg/L	2.501	<0.025	>99.0
4	Sulphide	mg/L	2.00	<0.02	>99.0
5	Formaldehyde	mg/L	9.00	<0.05	>99.4
6	Chloramine	mg/L	3.00	<0.01	>99.6
7	Anion synthetic detergent	mg/L	2.500	<0.025	>99.0
8	Boron (B)	mg/L	4.996	<0.002	>99.9
9	Barium (Ba)	mg/L	7.086	<0.005	>99.9
10	Beryllium (Be)	mg/L	0.218	<0.002	>99.0
11	Molybdenum (Mo)	mg/L	1.89	<0.02	>98.9
12	Nickel (Ni)	mg/L	2.02	<0.02	>99.0
13	Sodium (Na)	mg/L	1423.9	95.5	94.2
14	Antimony (Sb)	mg/L	0.103	<0.001	>99.0
15	Silver (Ag)	mg/L	1.06	<0.05	>95.2
16	Cyanogen chloride	mg/L	0.50	<0.01	>98.0
17	Dichloroacetic acid(DCAA)	mg/L	1.33	<0.01	>99.2
18	Trichloroacetic acid(TCAA)	mg/L	1.35	<0.01	>99.2
19	Chloral	mg/L	0.1	<0.01	>99.0
20	2,4,6-Trichlorophenol	mg/L	1.2100	<0.0005	>99.9
21	Dissociate chlorine residue	mg/L	2.00	<0.01	>99.5
22	Chlorine dioxide	mg/L	2.00	<0.02	>99.0
23	Ampicillin	ug/L	9.432	<0.005	>99.9
24	Amoxicillin	ug/L	9.739	<0.005	>99.9
25	Tetracycline	ug/L	3.258	<0.005	>99.8
26	Chlorotetracycline	ug/L	4.131	<0.005	>99.8
27	Oxytetracycline	ug/L	4.498	<0.005	>99.8
28	Sulfadiazine	ug/L	4.496	<0.005	>99.8
29	Sulfamethazine	ug/L	5.313	<0.005	>99.9
30	Roxithromycin	ug/L	4.265	<0.005	>99.8
31	Norfloxacin	ug/L	5.982	<0.005	>99.9
32	Bis(2-ethylhexyl) phthalate	mg/L	0.040	<0.002	>95.0
33	Atrazine	mg/L	0.243	<0.001	>99.5
34	Lindane (γ-BHC)	mg/L	0.1580	<0.0005	>99.6
35	Benzene hexachloride(BHC)	mg/L	0.4380	<0.0010	>99.7
36	Trichloroethene	mg/L	0.5241	<0.0001	>99.9
37	Dibromochloromethane	mg/L	1.4067	<0.0001	>99.9
38	Bromodichloromethane	mg/L	0.8721	<0.0001	>99.9
39	1,2-Dichloroethane	mg/L	0.4779	<0.0001	>99.9
40	Methylene chloride	mg/L	0.4688	0.0047	99.1
41	1,1,1-Trichloroethane	mg/L	41.7090	<0.0001	>99.9
42	Bromoform	mg/L	1.2582	<0.0001	>99.9
43	1,1-Dichloroethene	mg/L	0.4740	<0.0005	>99.8
44	Cis-1,2-dichloroethene	mg/L	0.3366	<0.0005	>99.8
45	Trans-1,2-dichloroethene	mg/L	0.3758	<0.0001	>99.9
46	1,2-Dichlorobenzene	mg/L	2.7191	<0.0001	>99.9
47	1,4-Dichlorobenzene	mg/L	0.5085	<0.0001	>99.9
48	Total Trichlorobenzene	mg/L	0.2160	<0.0003	>99.8
49	Hexachlorobutadiene	mg/L	0.0079	<0.0001	>98.7
50	Acrylamide	mg/L	0.0136	<0.0005	>96.4
51	Tetrachloroethene	mg/L	0.3622	<0.0001	>99.9
52	Epichlorohydrin	mg/L	0.0170	<0.0004	>97.6
53	Benzo(a)pyrene	mg/L	0.00050	<0.00001	>98.0
54	Vinyl chloride	mg/L	0.5237	<0.0005	>99.9
55	Chlorobenzene	mg/L	0.1463	<0.0001	>99.9
56	Total trihalomethanes (TTHMs)	mg/L	4.0482	<0.0004	>99.9
57	2,4-D	mg/L	1.130	<0.001	>99.9
58	DDT	mg/L	0.019	<0.001	>95.7
59	Malathion	mg/L	1.176	<0.001	>99.9
60	Parathion	mg/L	0.048	<0.001	>97.9
61	Parathion methyl	mg/L	0.044	<0.001	>97.7
62	Dimethoate	mg/L	0.357	<0.001	>99.7
63	Pentachlorophenol	mg/L	0.2350	<0.0005	>99.7
64	Chlorothalonil	mg/L	0.627	<0.001	>98.4
65	Heptachlor	mg/L	0.021	<0.001	>95.2
66	Hexachlorobenzene	mg/L	0.088	<0.001	>98.8
67	Dichlorvos	mg/L	0.017	<0.001	>94.1
68	chlorpyrifos	mg/L	0.158	<0.001	>99.3
69	Bentazone	mg/L	0.308	<0.001	>99.6
70	Carbofuran	mg/L	0.148	<0.001	>99.3
71	Deltamethrin	mg/L	0.232	<0.001	>95.6
72	Chlorite	mg/L	3.84	<0.01	>99.7
73	Bromate	mg/L	1.03	<0.01	>99.0
74	Chlorate	mg/L	3.89	<0.01	>99.7
75	Ethylbenzene	mg/L	0.7581	<0.0001	>99.9
76	Xylene	mg/L	6.4823	<0.0003	>99.9
77	Toluene	mg/L	9.4896	<0.0001	>99.9
78	Benzene	mg/L	0.8881	<0.0001	>99.9
79	Styrene	mg/L	2.2338	<0.0001	>99.9
80	Staphylococcus aureus	CUF/100mL	1.2×10 ⁶	<1	>99.9999

This system has been tested by 3rd party testing agencies, such as SGS and laboratory accredited by CNAS, under laboratory conditions, according to test methods nominated by Philips for reduction of the substances listed below.



Filtration performance data for the Philips ADD541RO/79 Reverse Osmosis Filter Cartridge used in the Philips Aquaporin Inside™ Reverse Osmosis Countertop Water Stations ADD6901 and ADD6912

Filter Model	Filter capacity	Recommended filter lifetime	Flow rate	Filtration precision
ADD541	2000L	12 months	0.13L/min	Down to 0.0001 micron

Number	Test item(s)	Test result
81	Chroma	Pass
82	Turbidity	Pass
83	Odor sum	Pass
84	Substance visible to the naked eye	Pass
85	Volatile phenols (phenols)	Pass
86	Oxygen consumption (CODMn method, measured in O2)	Pass
87	Total dissolved solids	Pass
88	Total hardness (CaCO3)	Pass
89	Cyanide	Pass
90	Chromium (Hexavalent)	Pass
91	Lead(Pb)	Pass
92	Cadmium(Cd)	Pass
93	Aluminum(Al)	Pass
94	Iron(Fe)	Pass
95	Manganese(Mn)	Pass
96	Copper(Cu)	Pass
97	Zinc(Zn)	Pass
98	Arsenic(As)	Pass
99	Mercury(Hg)	Pass
100	Selenium(Se)	Pass
101	Fluoride	Pass
102	Chloride	Pass
103	Nitrate (In N)	Pass
104	Sulfate	Pass
105	Trichloromethane	Pass
106	Carbon Tetrachloride	Pass
107	Free Residual Chlorine	Pass
108	Total Colony Count	Pass
109	Thermophilic Coliform	Pass
110	Burkholderia	Pass

- All measured contaminants reduced by this filter are listed.
- Not all contaminants listed may be present in your water.
- Filter does not remove all contaminants that may be present in tap water.
- Testing was performed under standard laboratory conditions, actual performance may vary.
- Removal rate (%) = (Influent spiked water test result - Effluent filtrated water test result) / Influent spiked water test result × 100%.

Philips Reverse Osmosis
Countertop Water Stations
with Aquaporin Inside™



ADD6901HBK01/79



ADD6912BK/79

Register your product and learn more via the website link : www.philips.com/water

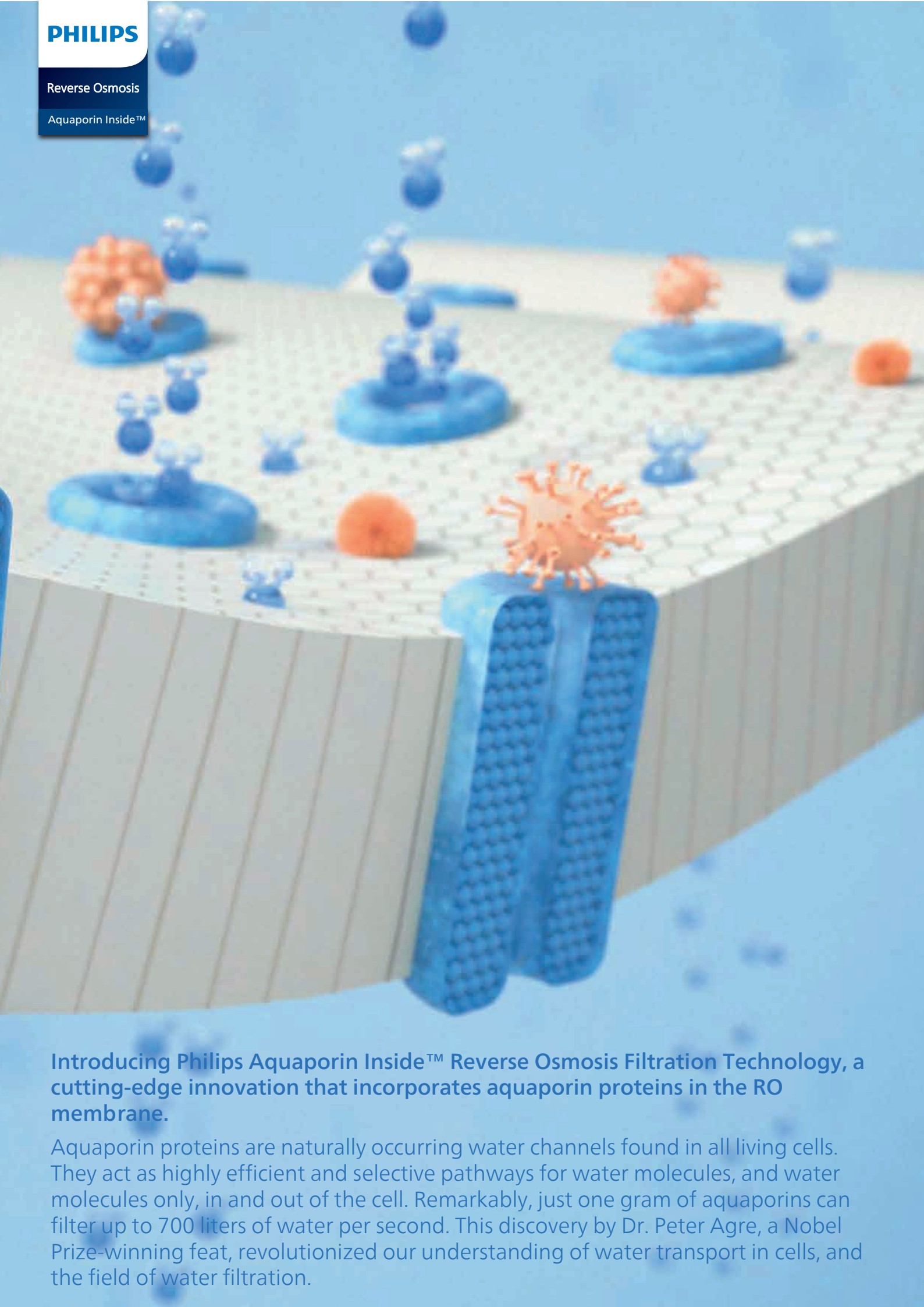
Specifications are subject to change without prior notice

© 2024 AquaShield

All rights reserved.

Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. and are used under license. This product has been manufactured by and is sold under the responsibility of Hong Kong AquaShield Health Technology Company Limited and Hong Kong AquaShield Health Technology Company Limited is the warrantor in relation to this product.

Rev A1 AUG 02, 2024

An artistic illustration of a reverse osmosis membrane. The membrane is a grey, textured surface with a grid of small pores. Several blue, ring-shaped aquaporin proteins are embedded in the membrane. Water molecules, represented as small blue spheres with two white spheres, are shown passing through these proteins. Orange, spiky virus-like particles are shown being blocked by the membrane. A blue, textured strip is shown peeling away from the bottom of the membrane, revealing the underlying structure. The background is a light blue gradient.

PHILIPS

Reverse Osmosis

Aquaporin Inside™

Introducing Philips Aquaporin Inside™ Reverse Osmosis Filtration Technology, a cutting-edge innovation that incorporates aquaporin proteins in the RO membrane.

Aquaporin proteins are naturally occurring water channels found in all living cells. They act as highly efficient and selective pathways for water molecules, and water molecules only, in and out of the cell. Remarkably, just one gram of aquaporins can filter up to 700 liters of water per second. This discovery by Dr. Peter Agre, a Nobel Prize-winning feat, revolutionized our understanding of water transport in cells, and the field of water filtration.