PHILIPS

Aquaporin Inside™

Filtration performance data

268

substances tested

Our most comprehensive filtration testing yet.

APPLIES TO

12 replacement cartridges and 24 machines that use the Aquaporin Inside™ (AQP) RO membrane. Full list on page 2.

Also applies to earlier production of these filter cartridges. The filter specification is unchanged. Testing is now more comprehensive.

end user filtration performance data sheet

Tested by SGS, report XMF26-0002885-03

What the lab results mean

199 of 268 substances reduced by 99% or more

Independent tests of the Philips RO membrane with Aquaporin Inside™ (AQP) under standard laboratory conditions, using test water spiked with high levels of each substance. Not every substance listed will be in your water, and actual performance may vary.

Bacteria and fungi

>99.999%

reduction in lab testing

29 bacteria and fungi, including E. coli, Salmonella and Legionella, fell to under 1 per test sample.

E. coli: 250,000 to <1 CFU/100 mL

Viruses

>99.999%

reduction in lab testing

Two standard test viruses (MS2 and Phi-X174) fell from about 500,000 per mL to under 1 per mL.

MS2: 550,000 to <1 PFU/mL

Lead

99.9%

reduction in lab testing

Test water spiked with 151 µg/L of lead measured 0.2 µg/L after filtration.

Lead: 151.42 to 0.20 µg/L

PFAS

≥98.5%

reduction in lab testing

15 PFAS "forever chemicals", including PFOA (>99.6%) and PFOS (>99.5%). All reduced by 98.5% or more.

PFOA: 1,011 to <4 ng/L

Microplastic test particles

99.99%

reduction in lab testing

Polystyrene (plastic) test particles of 0.5 µm fell from 15 billion to about 164,000 per mL.

Test particles: 0.5 µm polystyrene only

Chlorine

>99.5%

reduction in lab testing

Free chlorine fell from 2.00 to under 0.01 mg/L. Chloramine was reduced by 96.3%.

Free chlorine: 2.00 to <0.01 mg/L

WHAT WAS TESTED

Group	Tested	Lowest result in group	
Germs: bacteria, fungi and viruses	31	**>99.999%**	Pseudomonas aeruginosa
Metals (lead, mercury, arsenic and more)	23	**96.2%**	Sodium (Na)
"Forever chemicals" and microplastics	16	**98.5%**	PFHxA…
Pesticides and herbicides	63	**>95.8%**	p,p'-DDT
Solvents and fuel chemicals (VOCs)	80	**63.2%**	1,4-Dioxane
Chlorine and disinfection by-products	22	**90.3%**	Monochloroacetic acid…
Taste, smell, colour, water quality	13	**95.9%**	Total dissolved solids
Plastic additives and other chemicals	12	**78.5%**	Fluoride
PCBs (old industrial chemicals)	8	**>95.2%**	2,3-Dichlorobiphenyl

199 of the 268 results were reductions of 99% or more. See pages 3 and 4 for every result.

GOOD TO KNOW

- Results are from spiked test water in a laboratory. Real-world results can vary.
- Not every substance listed will be in your water, and no filter removes everything.
- Bacteria and viruses were reduced, not eliminated. Use only on safe mains water.
- The results are for the RO membrane only. The other filter layers in the system were not tested separately.
- For installation, water supply and care, see your user manual.

Harnessing the power of nature.

This reverse osmosis system uses a biomimetic membrane with aquaporin proteins, the same kind of proteins found in nature that help water pass through cell membranes. Aquaporin Inside™ technology is developed by Aquaporin A/S (Denmark). The membrane was independently tested by SGS against 268 substances.

QUESTIONS? AquaShield Australia Pty Ltd

philips.water@aquashield-ips.com.au · Australia 1300 825 576 · New Zealand 0800 600 046

FULL RESULTS: pages 3 and 4

More information: www.philips.com.au

PHILIPS

Which filter fits which product

The test results are for the Aquaporin Inside™ (AQP) RO membrane in the RO cartridges listed here, tested by SGS in report XMF26-0002885-03. 5in1, carbon and CP filters are listed for the full filter set and were not tested.

Results also apply to earlier production of these filter cartridges. The filter specification has not changed. Only more comprehensive testing has been done.

1 Sediment filter

2 Activated carbon filter

3 Sediment filter

4 RO membrane
Aquaporin Inside™, tested by SGS

5 Post activated carbon

6 Mineral filter

Example: 6-stage RO filter cartridge ADD583/79 (illustration)

end user filtration performance data sheet

Tested by SGS, report XMF26-0002885-03

Filters for each product





Product	Type	Main cartridge (contains the tested RO membrane)	Additional filter (not tested)
RO COUNTERTOP WATER STATIONS			
ADD6980BK/79	Ice-Cubes	**ADD583/79** multi-layer, all-in-one	
ADD6992DG/79	Ice-Cubes	**ADD583/79** multi-layer, all-in-one	
ADD6991WH/79	Ice-Cubes	**ADD583/79** multi-layer, all-in-one	
ADD6922DG/79	Ice-Cubes	**ADD583/79** multi-layer, all-in-one	
ADD6996DG/79	Chilled-Hot	**ADD583/79** multi-layer, all-in-one	
ADD6951BR/79	Chilled-Hot	**ADD583/79** multi-layer, all-in-one	
ADD6921DG/79	Chilled-Hot	**ADD583/79** multi-layer, all-in-one	
ADD6920BK/79	Hot-Ambient	**ADD583/79** multi-layer, all-in-one	
ADD6912BK/79	Chilled-Hot	**ADD541RO/79** multi-layer, all-in-one	ADD547/79 post-RO carbon filter
ADD6901HBK01/79	Hot-Ambient	**ADD541RO/79** multi-layer, all-in-one	
ADD6914WH/79	Hot-Ambient	**ADD534** RO cartridge	ADD533 multi-layer filter
ADD5930BK/37	Ambient	**ADD554/37** multi-layer, all-in-one	
RO TAPS / RO UNDER-SINK WATER STATIONS			
AUT9028BN/CH/DG/79 Three colour variations	Chilled-Hot	**AUT640/79** RO cartridge	AUT617 5in1 filter
AUT9131BK/CH/GD/79 Three colour variations	Hot-Ambient	**AUT620R600/79** RO cartridge	AUT619 5in1 filter
AUT6104BK/BN/CH/79 Three colour variations	Hot-Ambient	**AUT609R800/00** multi-layer, all-in-one	
AUT8990/79	Ambient tap	**AUT620R800/79** RO cartridge	AUT619 5in1 filter
AUT8950/79	Ambient tap	**AUT620R400/79** RO cartridge	AUT619 5in1 filter
AUT9510/79	Ambient tap	**AUT521/79** RO cartridge	AUT510, AUT511, AUT512, AUT514 mineral

Some systems use cartridges with mineral layers after the membrane. These cartridges are ADD583, AUT617, AUT619 and AUT514.

ADD534 and the multi-layer filter ADD533 are sold together as one set, the ADD535/79. AUT510, AUT511 and AUT512 are sold together as the set AUT515/79. AUT514/79 is sold separately. Fitment is as supplied by AquaShield and the Philips product pages.

Full test results (1 of 2)

Before = influent spiked test water. After = filtered water. "<" means below the laboratory detection limit, shown as ">" in the removal rate.

Test substance	Unit	Before filtration	After filtration	Removal rate (%)
Germs: bacteria, fungi and viruses				
Pseudomonas aeruginosa	CFU/250 mL	5.0×10^{6}	<1	**>99.999**
Total coliforms	CFU/100 mL	6.6×10^{5}	<1	**>99.999**
Escherichia coli	CFU/100 mL	2.5×10^{5}	<1	**>99.999**
Thermotolerant coliforms	CFU/100 mL	3.2×10^{5}	<1	**>99.999**
Brevundimonas diminuta	CFU/mL	2.8×10^{5}	<1	**>99.999**
Klebsiella terrigena	CFU/mL	6.2×10^{5}	<1	**>99.999**
Salmonella typhimurium	CFU/mL	5.5×10^{5}	<1	**>99.999**
Staphylococcus aureus	CFU/mL	3.4×10^{5}	<1	**>99.999**
Enterococcus faecium	CFU/mL	1.8×10^{5}	<1	**>99.999**
Candida albicans	CFU/mL	2.3×10^{5}	<1	**>99.999**
Shigella flexneri	CFU/mL	1.8×10^{5}	<1	**>99.999**
Aspergillus niger	CFU/mL	1.7×10^{5}	<1	**>99.999**
Clostridium perfringens	CFU/mL	2.1×10^{5}	<1	**>99.999**
Listeria monocytogenes	CFU/mL	4.3×10^{5}	<1	**>99.999**
Vibrio cholerae	CFU/mL	7.6×10^{5}	<1	**>99.999**
Klebsiella pneumoniae	CFU/mL	1.9×10^{5}	<1	**>99.999**
Staphylococcus lentus	CFU/mL	1.6×10^{5}	<1	**>99.999**
Bacillus subtilis	CFU/mL	2.6×10^{5}	<1	**>99.999**
Streptococcus pyogenes	CFU/mL	1.2×10^{5}	<1	**>99.999**
Micrococcus luteus	CFU/mL	4.4×10^{5}	<1	**>99.999**
Porphyromonas gingivalis	CFU/mL	3.5×10^{5}	<1	**>99.999**
Streptococcus mutans	CFU/mL	1.2×10^{5}	<1	**>99.999**
Microsporum canis	CFU/mL	3.0×10^{5}	<1	**>99.999**
Bacillus cereus	CFU/mL	5.1×10^{5}	<1	**>99.999**
Bacillus subtilis var. niger spores	CFU/mL	1.9×10^{5}	<1	**>99.999**
Pseudomonas putida	CFU/mL	1.3×10^{5}	<1	**>99.999**
Microsporum gypseum	CFU/mL	3.6×10^{5}	<1	**>99.999**
Bacteriophage MS2	PFU/mL	5.5×10^{5}	<1	**>99.999**
Bacteriophage Phi-X174	PFU/mL	4.6×10^{5}	<1	**>99.999**
Burkholderia cepacia	CFU/100 mL	1.5×10^{6}	<1	**>99.9999**
Legionella	CFU/mL	1.2×10^{5}	<1	**>99.999**
Metals, including lead, mercury and arsenic				
Chromium (VI)	mg/L	0.401	<0.004	**>99.0**
Antimony (Sb)	mg/L	0.17994	0.00171	**99.0**
Barium (Ba)	mg/L	0.1647	0.0016	**99.0**
Beryllium (Be)	mg/L	0.14299	0.00005	**99.9**
Molybdenum (Mo)	mg/L	0.14776	<0.00006	**>99.9**
Nickel (Ni)	mg/L	0.2114	0.0028	**98.7**
Silver (Ag)	mg/L	0.14614	0.00153	**99.0**
Sodium (Na)	mg/L	4.8929	0.1862	**96.2**
Arsenic (As)(V)	mg/L	0.29549	0.00348	**98.8**
Lead (Pb)	mg/L	0.15142	0.00020	**99.9**
Mercury (Hg)	mg/L	0.16435	0.00017	**99.9**
Cadmium (Cd)	mg/L	0.16283	0.00292	**98.2**
Chromium (Cr)	mg/L	0.2979	0.0004	**99.9**
Selenium (Se)	mg/L	0.1395	0.0018	**98.7**
Tin (Sn)	mg/L	0.16444	0.00013	**99.9**

Test substance	Unit	Before filtration	After filtration	Removal rate (%)
Metals, including lead, mercury and arsenic (continued)				
Aluminium (Al)	mg/L	2.3725	0.0567	**97.6**
Iron (Fe)	mg/L	2.9241	0.0246	**99.2**
Manganese (Mn)	mg/L	1.45432	0.02839	**98.0**
Copper (Cu)	mg/L	2.95633	0.03615	**98.8**
Zinc (Zn)	mg/L	2.3034	0.017	**99.3**
Total phosphorus	mg/L	5.742	<0.05	**>99.1**
Titanium	mg/L	0.0499	<0.0004	**>99.1**
Vanadium	mg/L	0.0802	0.00051	**99.4**
"Forever chemicals" (PFAS) and microplastic test particles				
Particles ≥0.5 µm (polystyrene)	counts/mL	15.0×10^{9}	16.4×10^{4}	**99.99**
PFOA (perfluorooctanoic acid)	ng/L	1011	<4	**>99.6**
PFOS (perfluorooctane sulfonate)	ng/L	873	<4	**>99.5**
PFNA (perfluorononanoic acid)	ng/L	500	<4	**>99.2**
PFHxS (perfluorohexane sulfonic acid)	ng/L	377	<4	**>98.9**
PFBS (perfluorobutane sulfonic acid)	ng/L	900	<4	**>99.5**
PFDA (perfluorodecanoic acid)	ng/L	533	<4	**>99.2**
PFHpA (perfluoroheptanoic acid)	ng/L	729	<4	**>99.4**
PFHxA (perfluorohexanoic acid)	ng/L	613	9	**98.5**
PFBA (perfluorobutanoic acid)	ng/L	278	<4	**>98.5**
PFPeA (perfluoropentanoic acid)	ng/L	492	<4	**>99.1**
PFUnDA (perfluoroundecanoic acid)	ng/L	281	<4	**>98.5**
PFDoDA (perfluorododecanoic acid)	ng/L	314	<4	**>98.7**
PFPeS (perfluoropentane sulfonic acid)	ng/L	512	<4	**>99.2**
PFHpS (perfluoroheptane sulfonic acid)	ng/L	462	<4	**>99.1**
PFDS (perfluorodecane sulfonic acid)	ng/L	365	<4	**>98.9**
Pesticides and herbicides (farm and garden sprays)				
Glyphosate	µg/L	5468	<25	**>99.5**
Silvex (2,4,5-TP)	µg/L	68.8	<0.5	**>99.2**
Dinoseb	µg/L	116.7	<0.5	**>99.5**
Hexachlorocyclopentadiene	µg/L	98.7	<0.5	**>99.4**
Atrazine	µg/L	234.3	<0.5	**>99.7**
Alachlor	µg/L	473.0	<0.5	**>99.8**
Metolachlor	µg/L	625.9	<0.5	**>99.9**
Disulfoton	µg/L	169.5	<0.5	**>99.7**
α-HCH (α-hexachlorocyclohexane)	µg/L	152.9	<0.5	**>99.6**
β-HCH (β-hexachlorocyclohexane)	µg/L	374.5	<0.5	**>99.8**
Lindane (γ-HCH)	µg/L	333.1	<0.5	**>99.8**
δ-HCH (δ-hexachlorocyclohexane)	µg/L	416.4	<0.5	**>99.8**
Trans-Chlordane	µg/L	200.4	<0.5	**>99.7**
Dieldrin	µg/L	162.9	<0.5	**>99.6**
p,p'-DDE	µg/L	160.9	<0.5	**>99.6**
Endrin and endrin ketone	µg/L	151.5	<0.5	**>99.6**
p,p'-DDD	µg/L	63.8	<0.5	**>99.2**
p,p'-DDT	µg/L	12.1	<0.5	**>95.8**
Simazine	µg/L	360	<1	**>99.7**
Aldrin	µg/L	57	<1	**>98.2**
Toxaphene (camphechlor)	µg/L	1006.6	<10	**>99.0**

Test substance	Unit	Before filtration	After filtration	Removal rate (%)
Pesticides and herbicides (farm and garden sprays) (continued)				
Hexachlorocyclohexane (total)	µg/L	1276.9	<2	**>99.8**
Dichlorvos	µg/L	200.60	<0.42	**>99.7**
Hexachlorobenzene	µg/L	50.81	<0.25	**>99.5**
Dimethoate	µg/L	188.86	<0.72	**>99.6**
Pentachlorophenol	µg/L	92.71	<0.99	**>98.9**
Chlorothalonil	µg/L	95.61	<0.42	**>99.5**
Parathion-Methyl	µg/L	264.55	<0.30	**>99.8**
Malathion	µg/L	281.57	<0.40	**>99.8**
Chlorpyrifos	µg/L	143.01	<0.25	**>99.8**
2,4-DDT	µg/L	43.30	<0.17	**>99.6**
Carbofuran	mg/L	0.0698	<0.0005	**>99.2**
Deltamethrin	µg/L	235.03	<0.8	**>99.6**
Cyfluthrin	µg/L	384.42	<0.8	**>99.7**
Cypermethrin	µg/L	233.28	<0.8	**>99.6**
Fenvalerate	µg/L	62.76	<0.8	**>98.7**
Permethrin	µg/L	846.98	<0.8	**>99.9**
Heptachlor epoxide	µg/L	152.03	<0.03	**>99.9**
Profenophos	µg/L	231.9	<0.1	**>99.9**
Carbendazim	µg/L	96.2	1.3	**98.6**
Acetochlor	µg/L	325	<1	**>99.6**
Aldicarb	µg/L	242	<1	**>99.5**
Azoxystrobin	µg/L	279	<1	**>99.6**
Carbaryl	µg/L	297	<1	**>99.6**
Chlorpyrifos-Methyl	µg/L	481	<1	**>99.7**
Fenthion	µg/L	65	<1	**>98.4**
Kresoxim-Methyl	µg/L	100	<1	**>99.0**
Linuron	µg/L	360	<1	**>99.7**
Propamocarb	µg/L	270	<1	**>99.6**
Propargite	µg/L	420	<1	**>99.7**
Propoxur	µg/L	405	2	**99.5**
Pyraclostrobin	µg/L	194	<1	**>99.4**
Terbuthylazine	µg/L	387	<1	**>99.7**
Triazophos	µg/L	246	<1	**>99.5**
Methoxychlor	µg/L	66.3	<0.5	**>99.2**
Imidacloprid	µg/L	1809.5	15.1	**99.2**
Bentazone	µg/L	2078.0	1.3	**99.9**
Molinate	µg/L	23.8	<0.5	**>97.8**
Trifluralin	µg/L	24.4	<0.5	**>97.9**
Parathion (Ethyl)	µg/L	130.25	<0.30	**>99.7**
Heptachlor	µg/L	26.02	<0.34	**>98.6**
2,4-Dichlorophenoxyacetic acid	µg/L	253	<1	**>99.6**
Methomyl	µg/L	277	3	**98.9**
Solvents and fuel chemicals (VOCs)				
Benzene	µg/L	743.6	3.6	**99.5**
Toluene	µg/L	669.7	1.2	**99.8**
Ethylbenzene	µg/L	633.8	<0.1	**>99.9**
Xylenes (total)	µg/L	1927.4	0.5	**>99.9**

Tested by SGS.

Filtration performance data are based on chemical and microbiological challenge tests of the Aquaporin Inside™ RO membrane by SGS, published in test report XMF26-0002885-03, dated 14 August 2026.

- All 268 results in the report are listed.
- Not all substances listed may be present in your water.
- The filter does not remove all contaminants that may be present in tap water.
- Testing was performed on the membrane under standard laboratory conditions, using spiked test water. Actual performance may vary.
- The microplastic test used 0.5 µm polystyrene particles.

Applies to

See page 2 for the full list of products and replacement cartridges. These results also apply to earlier production of these filter cartridges.

How the filter layers work

Before the membrane.

Filter layers that remove chlorine and chloramine to protect the membrane, and take out some taste and odour compounds.

The RO membrane.

The Aquaporin Inside™ membrane. This is the part tested in this report.

After the membrane.

Filter layers that polish the taste.

All Philips RO systems have layers before and after the membrane, in the same cartridge or in separate cartridges. These layers were not tested separately and are not included in the figures in this report.

Some systems use cartridges with mineral layers after the membrane. These cartridges are ADD583, AUT617, AUT619 and AUT514.

Full test results (2 of 2)

Before = influent spiked test water. After = filtered water. "<" means below the laboratory detection limit, shown as ">" in the removal rate.

Test substance	Unit	Before filtration	After filtration	Removal rate (%)
Solvents and fuel chemicals (VOCs) (continued)				
Styrene	µg/L	605.7	<0.1	**>99.9**
Isopropylbenzene	µg/L	582.3	<0.1	**>99.9**
n-Propylbenzene	µg/L	563.8	<0.1	**>99.9**
tert-Butylbenzene	µg/L	582.3	<0.1	**>99.9**
1,2,4-Trimethylbenzene	µg/L	620.5	<0.1	**>99.9**
sec-Butylbenzene	µg/L	578.5	<0.1	**>99.9**
2,2-Dichloropropane	µg/L	94.8	3.3	**96.5**
1,2-Dichloropropane	µg/L	630.3	18.1	**97.1**
cis-1,3-dichloropropene	µg/L	493.0	<0.1	**>99.9**
trans-1,3-dichloropropene	µg/L	548.4	<0.1	**>99.9**
1,2-Dibromoethane	µg/L	605.3	0.6	**99.9**
Vinyl Chloride	µg/L	774.0	23.0	**97.0**
Chloroethane	µg/L	892.4	13.6	**98.5**
1,1-Dichloroethene	µg/L	806.8	1.1	**99.9**
Methylene Chloride	µg/L	562.9	19.0	**96.6**
trans-1,2-dichloroethene	µg/L	666.4	0.3	**>99.9**
cis-1,2-dichloroethene	µg/L	632.4	0.7	**99.9**
Bromochloromethane	µg/L	612.0	5.0	**99.2**
1,1,1-Trichloroethane	µg/L	413.0	8.7	**97.9**
Carbon tetrachloride	µg/L	854.8	22.2	**97.4**
1,2-Dichloroethane	µg/L	751.3	5.5	**99.3**
Trichloroethene	µg/L	650.5	1.2	**99.8**
Dibromomethane	µg/L	582.7	1.4	**99.8**
1,3-Dichloropropane	µg/L	634.8	2.6	**99.6**
Tetrachloroethene	µg/L	487.4	<0.1	**>99.9**
1,2,3-Trichloropropane	µg/L	520.0	21.0	**96.0**
Hexachlorobutadiene	µg/L	515.0	<0.1	**>99.9**
Chlorobenzene	µg/L	611.1	<0.1	**>99.9**
Bromobenzene	µg/L	623.9	<0.1	**>99.9**
2-Chlorotoluene	µg/L	588.8	<0.1	**>99.9**
4-Chlorotoluene	µg/L	581.1	<0.1	**>99.9**
1,3-Dichlorobenzene	µg/L	585.1	<0.1	**>99.9**
1,4-Dichlorobenzene	µg/L	579.4	<0.1	**>99.9**
1,2-Dichlorobenzene	µg/L	618.4	<0.1	**>99.9**
Total trichlorobenzene	µg/L	902.0	<0.2	**>99.9**
1,2,4-Trichlorobenzene	µg/L	447.8	<0.1	**>99.9**
1,2,3-Trichlorobenzene	µg/L	454.2	<0.1	**>99.9**
1,3,5-Trimethylbenzene	µg/L	606.9	<0.1	**>99.9**
4-Isopropyltoluene	µg/L	586.6	<0.1	**>99.9**
n-Butylbenzene	µg/L	555.2	<0.1	**>99.9**
Dichlorodifluoromethane	µg/L	2234.5	105.7	**95.3**
Trichlorofluoromethane	µg/L	368.0	9.3	**97.5**
1,1-Dichloroethane	µg/L	696.8	21.8	**96.9**
1,1-Dichloropropene	µg/L	712.2	<0.1	**>99.9**
1,1,2-Trichloroethane	µg/L	651.4	12.8	**98.0**
1,1,1,2-Tetrachloroethane	µg/L	718.7	11.0	**98.5**
1,1,2,2-Tetrachloroethane	µg/L	662.1	22.9	**96.5**

Test substance	Unit	Before filtration	After filtration	Removal rate (%)
Solvents and fuel chemicals (VOCs) (continued)				
1,2-Dibromo-3-chloropropane	µg/L	620.1	4.6	**99.3**
Naphthalene	µg/L	456.6	<0.1	**>99.9**
Acetone	µg/L	2416.1	13.1	**99.5**
3-Chloro-1-propene	µg/L	113.2	<0.1	**>99.9**
2-Butanone	µg/L	204831.6	1.4	**99.9**
Carbon Disulfide	µg/L	49.8	<0.1	**>99.7**
Chloroacetonitrile	µg/L	26.4	<0.5	**>98.1**
1-Chlorobutane	µg/L	151.7	0.7	**99.5**
trans-1,4-Dichloro-2-butene	µg/L	1959.7	<0.5	**>99.9**
1,1-Dichloropropanone	µg/L	14.8	<0.5	**>96.6**
Diethyl Ether	µg/L	112.9	<0.1	**>99.8**
Ethyl Methacrylate	µg/L	33.6	<0.1	**>99.7**
Hexachloroethane	µg/L	15.7	<0.1	**>99.3**
2-Hexanone	µg/L	13.4	<0.5	**>96.2**
Methacrylonitrile	µg/L	112.8	<0.5	**>99.5**
Methyl Acrylate	µg/L	454.0	<0.1	**>99.9**
Iodomethane	µg/L	44.0	<0.1	**>99.7**
Methyl Methacrylate	µg/L	85.9	<0.1	**>99.8**
4-Methyl-2-pentanone	µg/L	22.4	<0.5	**>97.7**
Methyl tert-Butyl Ether (MTBE)	µg/L	61.4	0.3	**99.5**
Nitrobenzene	µg/L	2038.6	<0.5	**>99.9**
2-Nitropropane	µg/L	53.9	<0.5	**>99.0**
Pentachloroethane	µg/L	8.6	<0.1	**>98.8**
Propionitrile	µg/L	335.1	1.6	**99.5**
Tetrahydrofuran	µg/L	310.8	1.5	**99.5**
Chloromethane	µg/L	374.4	72.6	**80.6**
Bromomethane	µg/L	411.0	4.8	**98.8**
1,4-Dioxane	µg/L	1421	523	**63.2**
Acrylonitrile	µg/L	412.8	<0.5	**>99.8**
Chlorine, chloramine and disinfection by-products				
Chlorine dioxide (ClO2)	mg/L	2.5	0.1	**96.0**
Bromate	mg/L	0.412	<0.005	**>98.7**
Chloramine	mg/L	3.22	0.12	**96.3**
Formaldehyde	mg/L	4.94	<0.05	**>98.9**
Total trihalomethanes (TTHMs)	mg/L	2.6030	0.0218	**99.2**
Dibromochloromethane	mg/L	0.6385	0.0035	**99.5**
Bromodichloromethane	mg/L	0.6534	0.0041	**99.4**
Bromoform	mg/L	0.6135	0.0036	**99.4**
Chloroform	mg/L	0.6976	0.0106	**98.5**
Chloral	µg/L	168.0	3	**98.2**
2,4,6-Trichlorophenol	µg/L	298.9	<1	**>99.6**
Monochloroacetic acid (MCAA)	µg/L	1008	97.3	**90.3**
Dichloroacetic acid (DCAA)	µg/L	1124	<10	**>99.1**
Trichloroacetic acid (TCAA)	µg/L	837	<10	**>99.8**
Monobromoacetic acid (MBAA)	µg/L	841	76.9	**90.9**
Dibromoacetic acid (DBAA)	µg/L	993	<10	**>98.9**
Bromochloroacetic acid (BCAA)	µg/L	149	<10	**>93.2**

Test substance	Unit	Before filtration	After filtration	Removal rate (%)
Chlorine, chloramine and disinfection by-products (continued)				
Tribromoacetic acid (TBAA)	µg/L	2119	<10	**>99.5**
Dibromoacetonitrile	µg/L	1082.5	85.7	**92.1**
Dichloroacetonitrile	µg/L	48.7	0.9	**98.2**
Trichloroacetonitrile	µg/L	105.8	4.3	**95.9**
Free chlorine	mg/L	2.00	<0.01	**>99.5**
Taste, smell, colour and general water quality				
Colour	°	500	<5	**>99.0**
Turbidity	NTU	498	<0.5	**>99.8**
Permanganate index (as O2)	mg/L	64.1	1.07	**98.3**
Volatile phenols (as Phenol)	mg/L	2.5	<0.002	**>99.9**
Total hardness (as $CaCO_3$)	mg/L	2335.4	31.3	**98.7**
Total dissolved solids	mg/L	750	31	**95.9**
Ammonia (as N)	mg/L	5.24	<0.02	**>99.6**
Sulfate	mg/L	29.91	0.11	**99.6**
Chloride	mg/L	153.95	4.49	**97.1**
Anionic synthetic detergent	mg/L	2.484	<0.025	**>98.9**
Sulphide	mg/L	2.06	<0.02	**>99.0**
Geosmin	ng/L	835.2	<3.8	**>99.5**
2-Methylisoborneol	ng/L	375.4	<2.2	**>99.4**
Plastic additives and other chemicals				
Cyanogen Chloride (as CN-)	mg/L	0.97	<0.01	**>98.9**
Cyanide	mg/L	0.530	<0.002	**>99.6**
Fluoride	mg/L	9.87	2.12	**78.5**
Nitrate (as N)	mg/L	31.03	3.78	**87.8**
Chlorite	mg/L	10.71	0.15	**98.6**
Chlorate	mg/L	9.06	0.07	**99.2**
Di(2-ethylhexyl) Phthalate (DEHP)	mg/L	0.836	<0.005	**>99.4**
Diethyl Phthalate	mg/L	2.522	<0.005	**>99.8**
Butyl Benzyl Phthalate	mg/L	0.797	<0.005	**>99.3**
Dibutyl Phthalate	mg/L	0.990	<0.005	**>99.4**
Di(2-ethylhexyl) Adipate	mg/L	2.438	<0.005	**>99.7**
Benzo[a]pyrene	µg/L	0.4502	<0.002	**>99.5**
PCBs (old industrial chemicals)				
2-Chlorobiphenyl	µg/L	59.6	<0.5	**>99.1**
2,4,5-Trichlorobiphenyl	µg/L	68.0	<0.5	**>99.2**
2,2',4,4'-Tetrachlorobiphenyl	µg/L	66.4	<0.5	**>99.2**
2,2',3',4,6-Pentachlorobiphenyl	µg/L	65.7	<0.5	**>99.2**
2,2',4,4',5,6'-Hexachlorobiphenyl	µg/L	62.0	<0.5	**>99.1**
2,2',3,3',4,4',6-Heptachlorobiphenyl	µg/L	51.6	<0.5	**>99.0**
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	µg/L	75.0	<0.5	**>99.3**
2,3-Dichlorobiphenyl	µg/L	10.5	<0.5	**>95.2**

Reading the table

- Before filtration is the level in the spiked test water. After filtration is the level in the filtered water.
- Removal rate (%) = (before − after) / before × 100%.
- "<" means the result was below the laboratory detection limit, so the removal rate is shown as ">".
- Exponents: 5.0×10^{6} means 5,000,000.
- Units: mg/L, µg/L and ng/L are milligrams, micrograms and nanograms per litre. CFU and PFU are colony and plaque forming units.

AquaShield Australia Pty Ltd
Email: philips.water@aquashield-ips.com.au
Phone Australia: 1300 825 576
Phone New Zealand: 0800 600 046

For more information visit:
www.philips.com.au

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End user filtration performance data sheet, version 20261028