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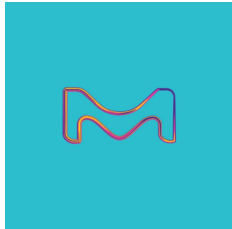
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эл.почта: mqc@nt-rt.ru || сайт: <https://milliq.nt-rt.ru/>



PR0GMPK01

Kit: Progard® 1 Pack & Vent Filter

Protects the RO membrane and preserves stored water (Type 2) quality

Quality Level.....	300
feature	Kit contains Progard® 1 Pretreatment Pack and a Tank Vent Filter for Type 2 water
packaging	pkg of 1 kit
compatibility.....	for use with Direct-Q®
.....	for use with Elix®
.....	for use with RiOs™

Description

General description

This consumable kit includes Progard® Pretreatment Pack and a Tank Vent Filter.

Pretreatment Pack is designed to pretreat feed water by removing large particles, organic compounds, and free chlorine from tap water. This protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling and chlorine oxidation.

Tank Vent Filter prevents airborne contaminants from entering the pure water storage tank.

Application

For optimal protection of the RO membrane and pure water in the storage tank.

Features and Benefits

Optimal protection of RO membrane.

Protects the quality of stored pure water.

Ensures prolonged system lifetime and optimizes performance.

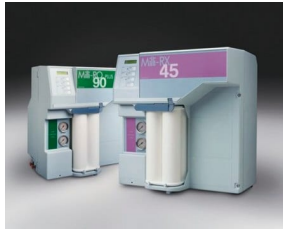
Legal Information

DIRECT-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



CPR0P0402

Kit: ROPAK® 1 Purification Cartridge

Use to protect reverse osmosis (RO) membranes

packagingpkg of 1 unit
compatibility.....for use with AFS®
shipped inambient

Description

General description

ROPAK® RO System Double-sided Pretreatment Pack efficiently removes most of the large particles, organic compounds, and chlorine from tap water to protect the RO membranes.

Application

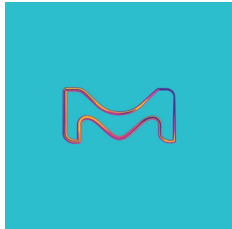
For use with AFS®, Milli-RO™, Milli-RX and Milli-U systems.

Features and Benefits

Purification technology involves the use of activated carbon, anti-scaling, and RO membranes.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany
MILLI-RO is a trademark of Merck KGaA, Darmstadt, Germany
ROPAK is a registered trademark of Merck KGaA, Darmstadt, Germany



CR0101002

Polygard® CR Cartridge Filter

Versatile cartridge filters for the clarification and prefiltration of process fluids., 10 in. 1.0 µm
Code 0 Silicone

UNSPSC Code 41104212
eCl@ss 33050190
NACRES NB.21

Quality Level 300
packaging pkg of 1 unit
H 25.4 cm (10.0 in.)
pore size 1 µm pore size
shipped in ambient

Description

General description

Polygard® CR Filters are designed for particle removal applications in liquids and gases. The graded-density depth structure of Polygard® CR filter media provides maximum filtration capacity, and the all-polypropylene construction offers low extractable levels and broad chemical compatibility. Cartridges are robust, strong, resilient, and are designed to withstand multiple steam-in-place cycles.

The Reverse Osmosis membrane removes 95%-99% of contaminants including ions, particulates, bacteria, and organic molecules (MW >200kDa).

Application

Polygard®-CR high-efficiency cartridge filters are widely used in the beverage industry for liquid and gas filtration applications to protect tighter filters.

Features and Benefits

A broad range of micron ratings to match a wide array of particle removal applications.

Nominal particle retention rating.

Low extractable levels.

High-capacity media.

Designed for rigorous process conditions and broad chemical compatibility.

Legal Information

POLYGARD is a registered trademark of Merck KGaA, Darmstadt, Germany



PROG000S1

Progard® S Pretreatment Pack

Short, Protects the reverse osmosis (RO) membrane from hard water components

material.....	polypropylene (and EPDM)
Quality Level.....	300
packaging	pkg of 1 unit
manufacturer/tradename	Progard®
H.....	21 cm (8.3 in.)
halogenated residue.....	<1 ppm (Cl ₂)
compatibility.....	for use with Direct-Q® (1997-2010)
.....	for use with Elix® (1997-2008)
.....	for use with RiOs™ (1997-2012)
shipped in	ambient

Description

General description

The Progard® S1 Pretreatment Pack is designed to pretreat water by removing large particles, organic compounds and free chlorine from tap water. This protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling and chlorine oxidation.

Progard® S1 Pretreatment Pack ensures that your system lifetime and performance are optimized.

Replacement of consumables when requested by the system is key to maintain the system's performance within specifications.

Designed for use with Direct-Q®, Elix® and RiOs™ 5/8/16 water purification systems.

Application

Removal of organics, free chlorine and particles from tap water to protect the RO membrane.

Features and Benefits

The Progard® S1 pretreatment pack is constructed from polypropylene and EPDM.

Suitable for tap water feed with silt density index (SDI) < 5 and Cl₂ < 1 ppm.

Natural activated carbon media exhibits a high surface area and adsorption kinetic, tolerating feed water containing up to 1 ppm of chlorine.

To prevent the bacteria proliferation, the natural activated carbon selected has been impregnated with silver, a proven bacteriostatic agent.

Depth filter media exhibits a high capacity and optimized retention, tolerating feed water with an SDI up to 5.

Incorporates polyphosphate, specifically selected to avoid scaling without releasing ions.

Components

Combination of three purification media:

Activated carbon removes free chlorine and organic compounds

Depth-filtration media removes particles and colloids

Anti-scaling agent minimizes the risk of scale formation

Legal Information

DIRECT-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PR0G000S2

Progard® S Pretreatment Pack

Long, Protects the reverse osmosis (RO) membrane from hard water components

material.....	EPDM rubber
.....	polypropylene
Quality Level.....	300
feature	Optimal protection of Reverse Osmosis (RO) membrane, optimized system lifetime and performance. Removal of large particles, organic compounds and free chlorine from feed water with a silt density index (SDI) up to 12.
packaging	pkg of 1 unit
manufacturer/tradename	Progard®
H.....	39.5 cm (15.5 in.)
total organic carbon (TOC) residue	<2000 ppb
halogenated residue.....	<3 ppm (Cl ₂)
compatibility.....	for use with Direct-Q® (1997-2010)
.....	for use with Elix® (1997-2008)
.....	for use with RiOs™ (1997-2012)
shipped in	ambient

Description

General description

The Progard® S2 Pretreatment Pack is designed to pretreat water by removing large particles, organic compounds and free chlorine from tap water. This protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling and chlorine oxidation.

Progard® S2 Pretreatment Pack ensures that your system lifetime and performance are optimized.

Replacement of consumables when requested by the system is key to maintain the system's performance within specifications.

Designed for use with Direct-Q®, Elix® and RiOs™ 5/8/16 water purification systems.

Application

Removal of organics, free chlorine and particles from tap water to protect the RO membrane.

Features and Benefits

The Progard® S2 pretreatment pack is constructed from polypropylene and EPDM.

Suitable for tap water feed with silt density index (SDI) < 12, Cl₂ < 3 ppm and TOC < 2000 ppb.

Natural activated carbon media exhibits a high surface area and adsorption kinetic, tolerating feed water containing up to 3 ppm of chlorine and 2000 ppb of TOC.

To prevent the bacteria proliferation, the natural activated carbon selected has been impregnated with silver, a proven bacteriostatic agent.

Depth filter media exhibits a high capacity and optimized retention, tolerating feed water with SDI up to 12.

Incorporates polyphosphate, specifically selected to avoid scaling without releasing ions.

Legal Information

DIRECT-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



SIMPAKKD2

Kit: SimPak® 2 Purification

For Simplicity® systems with Elix® / RO / distilled water feed

Quality Level.....300
packagingpkg of 1 kit
compatibility.....for use with Simplicity®
shipped inambient

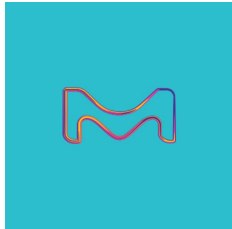
Description

General description

The SimPak® 2 Purification kit contains one each Purification Pack, SimFilter, and 0.05 µm Reservoir Vent Filter. SimPak® 2 Purification kit for use with Simplicity® systems with Elix® / RO / distilled water feed.

Legal Information

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany
SIMPAK is a registered trademark of Merck KGaA, Darmstadt, Germany
SIMPLICITY is a registered trademark of Merck KGaA, Darmstadt, Germany



CPAFS3PRB

Kit: Progard® 2 Pack & Simfilter & Millex Vent Filter

packagingpkg of 1 kit
Quality Level.....300
compatibility.....for use with AFS®
shipped inambient

Description

General description

The PROGARD® Pretreatment Pack has been designed to pretreat water by removing large particles, organic compounds and free chlorine from tap water. This protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling and chlorine oxidation.

Benefits:

Optimal protection of reverse osmosis (RO) membrane
Ensures system lifetime and performance are optimized

Application

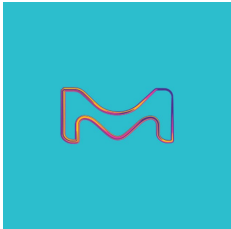
For AFS® 3/3D systems

Components

PR0G00002 Progard pretreatment
AFBCTFAFS bacteria filter and vent kit

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany
PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany



CDFC410F2
Carbon Cartridge

(4" x 10"), For optimal protection of reverse osmosis (RO) membrane

Quality Level.....	300
packaging	pkg of 2 units
D × H	10 cm (4 in.) × 25.4 cm (10 in.)

Description

General description

This cartridge pretreats tap water prior to RO purification and effectively removes colloids, particles, and free chlorine. It also increases the lifetime of the water purification system and optimizes its performance.

Application

For pretreatment of tap water with high chlorine level (>3 ppm).



CDFC420F2 Carbon Cartridge

(4" x 20"), For pretreatment of water with high chlorine level (> 3 ppm)

Quality Level.....300
featureremoval of colloids, particles and free chlorines for improved system performance.
packagingpkg of 2 units
H.....50.8 cm (20 in.)
diam.....10 cm (4 in.)
shipped inambient

Description

General description

Carbon Cartridge (4" x 20") employs ion-exchange technology to efficiently remove colloids, particles and free chlorines for improved system performance.

Application

Carbon Cartridge (4" x 20") is used for the optimal pretreatment of water with high chlorine level (> 3 ppm).

Features and Benefits

Optimal protection of reverse osmosis (RO) membrane.
Ensures system lifetime and performance are optimized.



CPAFS8PRM

Kit: Progard® 3 + Millipak® 100

For use with AFS® 8/8D/16/16D systems (2003 range)

Quality Level.....300
composition(Polypropylene and EPDM)
packagingpkg of 1 kit
compatibility.....for use with AFS®

Description

General description

This water purification kit contains Millipak® 100 Bacteria Filter (MPGL10ZW1) and Progard® 3 Pretreatment Pack (PR0G00003). Millipak® filter removes bacteria from pure water before it enters the analyzer.
The Progard® Pack pretreats water by removing large particles, organic compounds and free chlorine from tap water.

Application

The filter provides bacteria- and particulate-free water suitable for laboratory use, including clinical analyzers.
The pretreatment pack protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling and chlorine oxidation.

Features and Benefits

Millipak® 100 filter features:

0.22 µm Durapore® filter membrane for bacteria removal.

Low protein binding membrane yields high sample recovery with minimal loss of valuable product ensuring high-value filtration.

Progard® 3 Pretreatment Pack features:

Polyphosphate for anti-scaling protection.

Silver-impregnated activated carbon filter for free chlorine reduction and bacteriostatic protection.

Depth-filtration (0.5 µm) for removal of particles and colloids.

Other Notes

Directions for Use

Organism Retention: Microorganisms

Mode of Action: Filtering

Application: General laboratory analysis

Intended Use: Water purification

Instructions for Use: This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to the system equipment user guide section "Using the System" (available on USB key in the system box).

Storage Statement: Store in a dry location

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany

Durapore is a registered trademark of Merck KGaA, Darmstadt, Germany

MILLIPAK is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany



CDPRM2606

Rogard II Prefilter

66 cm (26 in.), For protection of reverse osmosis (RO) membrane

material.....	polypropylene (Melt blown)
Quality Level.....	300
feature	removes large particles from tap water
packaging	pkg of 6 units
H.....	66 cm (26 in.)
pore size.....	5.0 µm pore size
compatibility.....	for use with Milli-Q® IQ 7010
shipped in	ambient

Description

General description

The Rogard Prefilter is designed to pretreat water by removing large particles, organic compounds and free chlorine from tap water. This protects the reverse osmosis (RO) membrane against organic fouling and chlorine oxidation.

Application

Rogard II Prefilter 66 cm (26") is used with Milli-Q® and Milli-RO™ bowl-style systems mainly in applications such as pharmaceutical products analysis, and environmental testing.

Features and Benefits

Optimal protection of reverse osmosis (RO) membrane.
Ensures optimized system lifetime and performance.
Employs depth filtration purification technology.

Legal Information

MILLI-RO is a trademark of Merck KGaA, Darmstadt, Germany
Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



CDPRM1206

Rogard II Prefilter

30 cm (12 in.), Pretreats feed water to protect the reverse osmosis (RO) membrane

material.....	polypropylene (Melt blown)
Quality Level.....	300
feature	removes large particles from tap water
packaging	pkg of 6 units
H.....	30 cm (12 in.)
pore size.....	5.0 µm pore size
shipped in	ambient

Description

General description

The Rogard II Prefilter, with melt blown polypropylene, 5.0 µm, pretreats water by removing large particles from tap feed water. This protects the reverse osmosis (RO) membrane against fouling and chlorine oxidation. For use with Milli-Q® and Milli-RO™ bowl-style water purification systems.

Application

Rogard II Prefilter is used for optimal protection of the RO membrane.

Features and Benefits

Optimal protection of reverse osmosis (RO) membrane.
Ensures optimized system lifetime and performance.
Employs depth filtration purification technology.

Legal Information

MILLI-RO is a trademark of Merck KGaA, Darmstadt, Germany
Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



STARTPK01 StartPAK Installation Pack

Pretreatment attachments

packaging	pkg of 1 unit
compatibility	for use with Milli-Q® EQ 7008
.....	for use with Milli-Q® EQ 7016
.....	for use with Milli-Q® IX 7003
.....	for use with Milli-Q® IX 7005
.....	for use with Milli-Q® IX 7010
.....	for use with Milli-Q® IX 7015
.....	for use with Milli-Q® IQ 7003
.....	for use with Milli-Q® IQ 7005
.....	for use with Milli-Q® IQ 7010
.....	for use with Milli-Q® IQ 7015

Description

General description

StartPAK installation pack is used with Milli-Q® IQ 7003/05/10/15 and Milli-Q® EQ 7008/16 water purification systems.

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



PR0GTLC S1

Progard® TL1 Pretreatment Pack

Protects and maintains good performance of the reverse osmosis (RO) membrane

Quality Level.....	300
feature	removal of large particles, organic compounds and free chlorine from tap water
packaging	pkg of 1 unit
manufacturer/tradename	Progard®
compatibility.....	for use with Elix®
.....	for use with Elix® Gulfstream
.....	for use with Elix® Large
.....	for use with RiOs™ Large
.....	for use with RiOs™
shipped in	ambient

Description

General description

Proper pretreatment is an essential step in producing the desired final product water quality. The choice of the pretreatment is made according to the flow rate of the feed water.

The Progard® TL1-C Pretreatment Pack pretreats tap water by removing large particles, organic compounds and free chlorine. This protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling and chlorine oxidation.

Intended for use with larger water purification systems: Elix® 20/35/70/100 and RiOs™ 30/50/100/150/200.

Application

For optimal protection of the RO membrane and automatic RO maintenance.

Features and Benefits

Optimal protection of the water system.

Ensures system lifetime and performance are optimized.

Polyphosphate - specifically selected to avoid scaling without releasing ions.

Depth-filtration for particle removal.

ROProtect CR for automatic RO maintenance.

Legal Information

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PR0GTL0S1

Progard® TL1 Pretreatment Pack

Protects the reverse osmosis (RO) membrane from hard water components. For use with Elix® and RiOs™ systems.

material.....	cartridge (activated carbon)
.....	cartridge
Quality Level.....	300
feature	removal of large particles and free chlorine from tap water
.....	removal of large particles, organic compounds and free chlorine from tap water
packaging	pkg of 1 unit
manufacturer/tradename	Progard®
compatibility.....	for use with Elix®
.....	for use with Elix® Gulfstream
.....	for use with Elix® Large
.....	for use with RiOs™ Large
.....	for use with RiOs™
shipped in	ambient

Description

General description

Polyphosphate for anti-scaling protection. Silver-impregnated activated carbon for free chlorine reduction and bacteriostatic protection

The Progard® TL1 Pretreatment Pack removes large particles, organic compounds and free chlorine from tap water, before this water feeds your water purification system. This protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling and chlorine oxidation.

Progard® TL1 Pretreatment Pack ensures that your system lifetime and performance are optimized.

Replacement of consumables, when requested by the system, is key to maintain the system's performance within specifications.

Designed for use with Elix® Large, Elix® Gulfstream and RiOs™ Large water purification systems.

Application

Removes particles, organics and free chlorine to protect the RO membrane.

Features and Benefits

Protects RO membrane against mineral scaling, organic fouling and chlorine oxidation.

Depth filter media exhibits high capacity and optimized retention of colloids.

e-Sure RFID tag ensures full traceability and provides instant visibility of pack parameters

Silver-impregnated activated carbon reduces free chlorine and provides bacteriostatic protection.

Polyphosphate protects against scaling without releasing ions.

Replace every 6 months for optimal results.

Legal Information

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PR0GTXL0S1

Progard® XL Pretreatment Pack

For optimal protection of the reverse osmosis (RO) membrane from tap water components

material.....	EPDM rubber cartridge
.....	carbon cartridge (activated)
.....	polypropylene and polyethylene cartridge
Quality Level.....	300
packaging.....	pkg of 1 unit
manufacturer/tradename	Progard®
parameter	2-40 °C temp. range
.....	4.2 L/min flow rate
.....	6 bar max. pressure
H × W × D.....	20.8 in. × 6.1 in. × 3.1 in.
total organic carbon (TOC) residue	<1 ppm
fitting.....	11 mm female inlet and outlet (O-rings)
compatibility.....	for use with Milli-Q® CLX
.....	for use with Milli-Q® HR
.....	for use with Milli-Q® HX

Description

General description

The Progard® XL-S pretreatment pack pretreats feed water by removing large particles, organic compounds and free chlorine from tap water. It protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling, and chlorine oxidation. The pretreatment pack includes prefiltration to remove particles, activated carbon to remove chlorine, and an anti-scaling agent to minimize the risk of scale formation.

For use with larger RiOs™, Elix® and AFS® E water purification systems.

Application

The pack protects and maintains the good performance of the reverse osmosis membrane.

Features and Benefits

Polyphosphate provides anti-scaling protection.

Silver-impregnated activated carbon reduces free chlorine and provides bacteriostatic protection.

Depth-filtration removes particles and colloids.

e-Sure tag RFID technology for instant visibility on pack parameters, automatic pack parameters archiving and full traceability.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PR0GTXLCS2

Progard® XL Pretreatment Pack

For optimal protection of reverse osmosis (RO) membranes from hard water

material.....	carbon cartridge (activated)
.....	cartridge
Quality Level.....	300
packaging.....	pkg of 2 units
manufacturer/tradename	Progard®
parameter	2-40 °C temp. range
.....	4.2 L/min flow rate
.....	6 bar max. pressure
H × W × D.....	20.8 in. × 6.1 in. × 3.1 in.
fitting.....	11 mm female inlet and outlet (O-rings)
compatibility.....	for use with AFS®
.....	for use with Elix® Large
.....	for use with Milli-Q® CLX
.....	for use with Milli-Q® HR
.....	for use with Milli-Q® HX
.....	for use with RiOs™ Large

Description

General description

Polyphosphate for anti-scaling protection.

Silver-impregnated activated carbon for free chlorine reduction and bacteriostatic protection.

The Progard® XL-S-C pretreatment pack pretreats feed water by removing large particles and free chlorine from tap water. It protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling, and chlorine oxidation.

The pretreatment pack includes prefiltration to remove particles, activated carbon to remove chlorine, and an anti-scaling agent to minimize the risk of scale formation. The Autoclean pack option includes a built-in chlorine cleaning tablet that will automatically clean the RO membrane when this new pack is installed.

For use with larger RiOs™, Elix®, Milli-Q® HR, HX, CLX and AFS® E water purification systems.

Application

The packs protect and maintain good performance of RO membranes in water purification systems.

Features and Benefits

Optimal protection of reverse osmosis (RO) membrane

Ensures system lifetime and performance are optimized

Depth-filtration removes particles and colloids.

Polyphosphate protects from scaling.

Silver-impregnated activated carbon filter reduces free chlorine and provides bacteriostatic protection.

EfferSanEffervescent (formerly ROProtect CR) tablets provide automatic RO maintenance

e-Sure tag RFID technology for instant visibility on pack parameters, automatic pack parameters archiving and full traceability.

Replace every 6 months for optimal results

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PR0GTXLCS1

Progard® XL Pretreatment Pack

For optimal protection of reverse osmosis (RO) membranes from hard water

material.....	EPDM rubber cartridge
.....	carbon cartridge (activated)
.....	filter (silver-impregnated activated carbon)
.....	polypropylene and polyethylene cartridge
Quality Level.....	300
packaging	pkg of 1 unit
manufacturer/tradename	Progard®
parameter	2-40 °C temp. range
.....	4.2 L/min flow rate
.....	6 bar max. pressure
H × W × D.....	20.8 in. × 6.1 in. × 3.1 in.
fitting.....	11 mm female inlet and outlet (O-rings)
compatibility.....	for use with AFS®
.....	for use with Elix® Large
.....	for use with Milli-Q® CLX
.....	for use with Milli-Q® HR
.....	for use with Milli-Q® HX
.....	for use with RiOs™ Large
shipped in	ambient

Description

General description

The Progard® XL-S-C pretreatment pack pretreats feed water by removing large particles and free chlorine from tap water. It protects the RO membrane against mineral scaling, organic fouling, and chlorine oxidation. The pretreatment pack includes prefiltration to remove particles, activated carbon to remove chlorine, and an anti-scaling agent to minimize the risk of scale formation. The Autoclean pack option includes a built-in chlorine cleaning tablet that will automatically clean the RO membrane when this new pack is installed. For use with larger RiOs™, Elix®, Milli-Q® HR, HX, CLX and AFS® E water purification systems.

Application

The packs protect and maintain good performance of RO membranes in water purification systems.

Features and Benefits

Optimal protection of reverse osmosis (RO) membrane.
Ensures system lifetime and performance are optimized.
Depth-filtration removes particles and colloids.
Polyphosphate protects from scaling.
Silver-impregnated activated carbon filter reduces free chlorine and provides bacteriostatic protection.
EfferSan Effervescent (formerly ROProtect CR) tablets provide automatic RO maintenance.
e-Sure tag RFID technology for instant visibility on pack parameters, automatic pack parameters archiving and full traceability.
Replace every 6 months for optimal results

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany
ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany
Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany
PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany
RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PR0GTXL0S2

Progard® XL Pretreatment Pack

For optimal protection of the reverse osmosis (RO) membrane from tap water components.

material.....	carbon cartridge (activated)
.....	cartridge (Polyphosphate for anti-scaling protection)
Quality Level.....	300
packaging.....	pkg of 2 units
manufacturer/tradename	Progard®
parameter	2-40 °C temp. range
.....	4.2 L/min flow rate
.....	6 bar max. pressure
H × W × D.....	20.8 in. × 6.1 in. × 3.1 in.
fitting.....	11 mm female inlet and outlet (O-rings)
compatibility.....	for use with AFS®
.....	for use with Elix® Large
.....	for use with Milli-Q® CLX
.....	for use with Milli-Q® HR
.....	for use with Milli-Q® HX
.....	for use with RiOs™ Large

Description

General description

The Progard® XL-S pretreatment pack pretreats feed water by removing large particles, organic compounds and free chlorine from tap water. It protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling, and chlorine oxidation.

The pretreatment pack includes prefiltration to remove particles, activated carbon to remove chlorine, and an anti-scaling agent to minimize the risk of scale formation.

For use with larger RiOs™, Elix® and AFS® E water purification systems.

Application

The packs protect and maintain good performance of the reverse osmosis membrane.

Features and Benefits

Polyphosphate provides anti-scaling protection.

Silver-impregnated activated carbon reduces free chlorine and provides bacteriostatic protection.

Depth-filtration removes particles and colloids.

e-Sure tag RFID technology for instant visibility on pack parameters, automatic pack parameters archiving and full traceability.

Legal Information

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PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



CPDI000S1

DI-PAK® Purification Pack

Small: L - 12.7 cm, For the production of de-ionized water

UNSPSC Code 41104202
eCl@ss 33050190
NACRES JA.13

material.....polypropylene and polyethylene
Quality Level.....300
feature.....removal of volatile organic compound
packaging.....pkg of 1 unit
manufacturer/tradenameVOC-Pak®
parameter.....(Resistivity at 18.2 MΩ.cm at 25 °C)
effective L.....12.7 cm
impurities.....<5 ppb TOC
compatibility.....for use with AFS®
.....for use with Milli-Q® Advantage A10
.....for use with Milli-Q® Biocel
.....for use with Milli-Q® Gradient
.....for use with Milli-Q® Plus
.....for use with Milli-Q® Synthesis
.....for use with Q-POD® Element
.....for use with RiOs-DI® Clinical
.....for use with RiOs™ Large
.....for use with Super-Q® Ultrapure High Flow Water Systems
shipped inambient

Description

General description

CPDI000S1 DI-PAK® StartPak 1 (Small) is suitable for the production of de-ionized water with a resistivity > 1 MΩ.cm when fed with potable tap water. Ion exchange resins are used to carry out the purification. A thin layer of Activated Carbon is employed to remove free chlorine as well as some organic contaminants.

Application

CPDI000S1 DI-PAK® StartPak 1 (Small) is used in the preparation of deionized water in the experiments, including, but not limited to – generation of the steam atmosphere in the thermal treatment apparatus to produce a high surface area AC adsorbent and purification of cell culture media.[1]

Features and Benefits

Utilizes depth filtration and ion-exchange technologies.
Adsorbent: Silver impregnated activated carbon (AC).
Feedwater source: Tap water.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany
DI-PAK is a registered trademark of Merck KGaA, Darmstadt, Germany
Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany
Q-POD is a registered trademark of Merck KGaA, Darmstadt, Germany
RIOS is a trademark of Merck KGaA, Darmstadt, Germany
RIOS-DI is a registered trademark of Merck KGaA, Darmstadt, Germany
Super-Q is a registered trademark of Merck KGaA, Darmstadt, Germany
VOC-PAK is a registered trademark of Merck KGaA, Darmstadt, Germany



PR0G00003

Progard® Pretreatment Pack

Protects the reverse osmosis (RO) membrane from hard water components

material.....	EPDM rubber
.....	polypropylene
Quality Level.....	300
feature	Optimal protection of RO membrane, optimized system lifetime and performance,
feed water with a silt density index up to 5.	
packaging	pkg of 1 unit
manufacturer/tradename	Progard®
halogenated residue	<1 ppm (Cl ₂)
pore size.....	0.5 µm pore size
compatibility.....	for use with AFS® (2003-2012)
shipped in	ambient

Description

General description

The Pretreatment Pack cartridge is designed to pretreat water by removing large particles, organic compounds and free chlorine from tap water. This protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling and chlorine oxidation. Progard® 3 Pretreatment Pack ensures that your system lifetime and performance are optimized. Replacement of consumables when requested by the system is key to maintain the system's performance within specifications. Designed for use with AFS® water purification systems.

Application

Removal of organics, free chlorine and particles from tap water for optimal protection of the RO membrane.

Features and Benefits

The Progard® 3 pretreatment pack is constructed from polypropylene and EPDM.

Suitable for tap water feed with silt density index (SDI) < 5, Cl₂ < 1 ppm.

Natural activated carbon media exhibits a high surface area and adsorption kinetic, tolerating feed water containing up to 1 ppm of chlorine.

To prevent the bacteria proliferation, the natural activated carbon selected has been impregnated with silver, a proven bacteriostatic agent.

Depth filter media exhibits a high capacity and optimized retention, tolerating feed water with SDI up to 5.

Incorporates polyphosphate, specifically selected to avoid scaling without releasing ions.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany



PROG0NP02

Progard® Pretreatment Pack

feature	Optimal protection of Reverse Osmosis (RO) membrane, optimized system lifetime and performance. Removal of large particles, organic compounds and free chlorine from feed water with a silt density index (SDI) up to 12.
Quality Level.....	300
packaging	pkg of 1 unit
manufacturer/tradename	Progard®
H.....	39.5 cm (15.5 in.)
total organic carbon (TOC) residue	<2000 ppb
halogenated residue	<3 ppm (Cl ₂)
compatibility.....	for use with Elix® (1997-2008)
.....	for use with RiOs™ (1997-2012)
shipped in	ambient

Description

General description

The Progard® 2 Pretreatment Pack without polyphosphate, has been designed to pretreat water by removing large particles, organic compounds and free chlorine from tap water. This protects the reverse osmosis (RO) membrane against organic fouling and chlorine oxidation.

Progard® 2 Pretreatment Pack ensures that your system lifetime and performance are optimized.

Replacement of consumables, when requested by the system, is key to maintain the system's performance within specifications.

Application

Designed for use with Elix® and RiOs™ 5/8/16 water purification systems.

Features and Benefits

The Progard® 2 pretreatment pack is constructed from polypropylene and EPDM.

Suitable for tap water feed with SDI < 12 and Cl₂ < 3 ppm and TOC < 2000 ppb.

Natural activated carbon media exhibits a high surface area and adsorption kinetic, tolerating feed water containing up to 3 ppm of chlorine and 2000 ppb of TOC.

Depth filter media exhibits a high capacity and optimized retention, tolerating feed water with a silt density index up to 12.

The assembly of the pretreatment pack is fully automated.

Legal Information

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PR0G00001

Progard® Pretreatment Pack

Protects the reverse osmosis (RO) membrane from hard water components

material.....	polypropylene (and EPDM)
Quality Level.....	300
packaging	pkg of 1 unit
manufacturer/tradename	Progard®
H.....	21 cm (8.3 in.)
halogenated residue.....	<1 ppm (Cl ₂)
compatibility.....	for use with Direct-Q® (1997-2010)
.....	for use with Elix® (1997-2008)
.....	for use with RiOs™ (1997-2012)
shipped in	ambient

Description

General description

The Progard® 1 Pretreatment Pack is designed to pretreat water by removing large particles, organic compounds and free chlorine from tap water. This protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling and chlorine oxidation. Progard® 1 Pretreatment Pack ensures that your system lifetime and performance are optimized. Replacement of consumables when requested by the system is key to maintain the system's performance within specifications. Designed for use with Direct-Q®, Elix® and RiOs™ 5/8/16 water purification systems.

Application

Removal of organics, free chlorine, particles and colloids from tap water to protect the RO membrane.

Features and Benefits

The Progard® 1 pretreatment pack is constructed from polypropylene and EPDM.
Suitable for tap water feed with silt density index (SDI) < 5 and Cl₂ < 1 ppm.
Natural activated carbon media exhibits a high surface area and adsorption kinetic, tolerating feed water containing up to 1 ppm of chlorine.
Depth filter media exhibits a high capacity and optimized retention, tolerating feed water with SDI up to 5.
Incorporates polyphosphate, specifically selected to avoid scaling without releasing ions.

Components

Combination of three purification media:
Activated carbon removes free chlorine and organic compounds
Depth-filtration media removes particles and colloids
Anti-scaling agent minimizes the risk of scale formation

Legal Information

DIRECT-Q is a registered trademark of Merck KGaA, Darmstadt, Germany
ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany
PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany
RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PR0G0TNP2

Progard® Pretreatment Pack

Protects the reverse osmosis (RO) membrane from water components

material.....	EPDM rubber
.....	polypropylene
Quality Level.....	300
feature	Optimal protection of Reverse Osmosis (RO) membrane, optimized system lifetime and performance. Removal of large particles, organic compounds and free chlorine from feed water with a silt density index (SDI) up to 12
packaging	pkg of 1 unit
manufacturer/tradename	Progard®
H.....	39.5 cm (15.5 in.)
total organic carbon (TOC) residue	<2000 ppb
halogenated residue.....	<3 ppm (Cl ₂)
compatibility.....	for use with AFS®
.....	for use with Elix® Advantage
.....	for use with Elix® Essential UV
.....	for use with Elix® Essential
.....	for use with Elix® Reference
.....	for use with Milli-Q® Integral
.....	for use with RiOs™ Essential
shipped in	ambient

Description

General description

The Progard® TNP2 Pretreatment Pack pretreats tap water by removing large particles, organic compounds and free chlorine. This protects the reverse osmosis (RO) membrane against organic fouling and chlorine oxidation.

Progard® TNP2 Pretreatment Pack ensures that your system lifetime and performance are optimized.

Replacement of consumables, when requested by the system, is key to maintain the system's performance within specifications.

Designed for use with AFS® Essential, Elix® Advantage, Elix® Reference, Elix® Essential, Milli-Q® Integral, and RiOs™ Essential water purification systems.

Application

Removes free chlorine, organics and particles to protect the RO membrane.

Features and Benefits

The Progard® TNP2 pretreatment pack is constructed from polypropylene and EPDM.

Suitable for tap water feed with silt density index (SDI) < 12 and Cl₂ < 3 ppm, and TOC < 2000 ppb.

Natural activated carbon media exhibits a high surface area and adsorption kinetic, tolerating feed water containing up to 3 ppm of chlorine and 2000 ppb of TOC. Removes free chlorine and organic compounds.

To prevent the bacteria proliferation, the natural activated carbon selected has been impregnated with silver, a proven bacteriostatic agent.

Depth filter media exhibits a high capacity and optimized retention, tolerating feed water SDI up to 12 and removes particles.

100% traceability with e-Sure Tag - Incorporates RFID technology. This provides instant visibility on pack parameters and ensures a safe and optimal performance of the system, giving full traceability.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PR0G00002

Progard® Pretreatment Pack

Protects the reverse osmosis (RO) membrane from hard water components

Quality Level.....	300
composition	polyphosphate, activated carbon and 0.5 µm depth filter.
packaging	pkg of 1 unit
manufacturer/tradename	Progard®
H.....	39.5 cm (15.5 in.)
total organic carbon (TOC) residue	<2000 ppb
halogenated residue	<3 ppm (Cl ₂)
compatibility.....	for use with AFS® (1999-2012)
.....	for use with Direct-Q® (1997-2010)
.....	for use with Elix® (1997-2008)
.....	for use with RiOs™ (1997-2012)
shipped in	ambient

Description

General description

The Progard® 2 Pretreatment Pack is designed to pretreat water by removing large particles, organic compounds and free chlorine from tap water. This protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling and chlorine oxidation. Progard® 2 Pretreatment Pack ensures that your system lifetime and performance are optimized. Designed for use with AFS®, Direct-Q® Elix® and RiOs™ 5/8/16 water purification systems. Replacement of consumables when requested by the system is key to maintain the system's performance within specifications.

Application

Removal of organics, free chlorine, particles and colloids from tap water for optimal protection of the RO membrane.

Features and Benefits

The Progard® 2 pretreatment pack is constructed from polypropylene and EPDM.

Suitable for tap water feed with silt density index (SDI) < 12, Cl₂ < 3 ppm and TOC < 2000 ppb.

Natural activated carbon media exhibits a high surface area and adsorption kinetic, tolerating feed water containing up to 3 ppm of chlorine and 2000 ppb of TOC.

Depth filter media exhibits a high capacity and optimized retention, tolerating feed water with SDI up to 12.

Incorporates polyphosphate, specifically selected to avoid scaling without releasing ions.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany

DIRECT-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PR0G000T3

Progard® Pretreatment Pack

Protects the reverse osmosis (RO) membrane from hard water components

Quality Level.....	300
feature	Optimal protection of RO membrane, optimized system lifetime and performance, feed water with a silt density index up to 5.
packaging	pkg of 1 unit
manufacturer/tradename	Progard®
halogenated residue	<1 ppm (Cl ₂)
compatibility.....	for use with Milli-Q® Direct
shipped in	ambient

Description

General description

Progard® Pretreatment Pack is designed to remove large particles, organic compounds and free chlorine from tap water. This protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling and chlorine oxidation.

Progard® T3 Pretreatment Pack ensures that your system lifetime and performance are optimized.

Replacement of consumables when requested by the system is key to maintain the system's performance within specifications.

Designed for use with Milli-Q® Direct water purification systems.

Application

Removal of organics, free chlorine and particles from tap water to protect RO membrane.

Features and Benefits

The Progard® T3 pretreatment pack is constructed from polypropylene and EPDM.

Suitable for tap water feed with silt density index (SDI) < 5, Cl₂ < 1 ppm.

Natural activated carbon media exhibits a high surface area and adsorption kinetic, tolerating feed water containing up to 1 ppm of chlorine.

Depth filter media exhibits a high capacity and optimized retention, tolerating feed water with SDI up to 5.

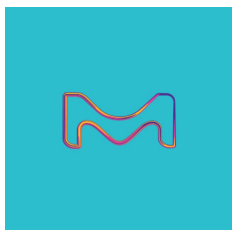
Incorporates polyphosphate, specifically selected to avoid scaling without releasing ions.

100% traceability with e-Sure Tag - T3 pretreatment packs incorporate RFID technology. This provides instant visibility on pack parameters and ensures a safe and optimal performance of the system, giving full traceability.

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany



PROG0NP01

Progard® Pretreatment Pack

For optimal protection of reverse osmosis membranes (without polyphosphate)

Quality Level.....	300
composition	(Polypropylene and EPDM)
packaging	pkg of 1 unit
manufacturer/tradename	Progard®
H.....	21 cm
impurities	<1 ppm Cl ₂

Description

General description

The Progard® Pretreatment Pack pretreats water by removing large particles, organic compounds, and free chlorine from tap water and thus, prolongs system lifetime.

Features and Benefits

Depth filter prevents RO membrane coating from the accumulation of particles and colloids.

Activated carbon prevents membrane fouling by removing free chlorine and organics.

Legal Information

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany



PR0G0T0S2

Progard® TS2 Pretreatment Pack

For the optimal protection of Reverse Osmosis (RO) membranes

material.....	EPDM rubber
.....	cartridge (activated carbon)
.....	cartridge
.....	polypropylene
Quality Level.....	300
feature	Optimal protection of Reverse Osmosis (RO) membrane, optimized system lifetime and performance. Removes of large particles and free chlorine from feed water with a silt density index (SDI) up to 12.
packaging	pkg of 1 unit
H.....	39.5 cm (15.5 in.)
compatibility.....	for use with AFS®
.....	for use with Elix® Advantage
.....	for use with Elix® Essential UV
.....	for use with Elix® Essential
.....	for use with Elix® Reference
.....	for use with Milli-Q® Integral
.....	for use with RiOs™ Essential
shipped in	ambient

Description

General description

Polyphosphate for anti-scaling protection. Silver-impregnated activated carbon for free chlorine reduction and bacteriostatic protection.

The Progard® TS2 Pretreatment Pack is designed to pretreat tap water prior to purification by reverse osmosis (RO). Tap water is pretreated by effectively removing contaminants such as free chlorine, large particles and colloids, organic compounds and hardness. This protects the RO membrane from organic fouling, chlorine oxidation and mineral scaling. It also increases the lifetime of the water purification system and optimizes its performance.

Application

Purified water produced using Milli-Q®, AFS®, RiOs™, and Elix® water purification systems equipped with the Progard® TS2 pretreatment pack is used for various laboratory applications.

Features and Benefits

Protects RO membrane against mineral scaling, organic fouling and chlorine oxidation.

Polyphosphates provide protection against scaling.

Silver-impregnated activated carbon reduces free chlorine and prevents bacteria proliferation.

Depth-filtration removes particles and colloids.

e-Sure RFID tag ensures full traceability and provides instant visibility of pack parameters.

Replace every 6 months for optimal results.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



SQPAKPR0M1

SQPAK™ RO Cartridge

Removes organics, ions, particulates up to 99% from tap water feeding Milli-Q® SQ 2Series RO production stations

Quality Level.....	300
packaging	pkg of 1 unit
greener alternative product characteristics.....	Design for Energy Efficiency
.....	Learn more about the Principles of Green Chemistry.
sustainability	Greener Alternative Product
compatibility.....	for use with Milli-Q® SQ 2Series
greener alternative category	, DfS-Developed

Description

General description

To learn how Milli-Q® SQ 2Series water systems work and read a full overview, visit our dedicated page.

The SQPAK™ RO cartridge produces pure RO water at up to 42 L/h.

This cartridge's RO membrane efficiently removes up to 99% of water contaminants such as bacteria, ions, particulates and organics.

For use on the production station of Milli-Q® SQ 2Series configurations, including Milli-Q® SR 240/240L/240XL and Milli-Q® SQ 240C/240CV systems.

We are committed to bringing you Greener Alternative Products, which belongs to one of the four categories of greener alternatives . This product is a Design for Sustainability (DfS) developed product. [Click here to view its DfS scorecard.](#)

Features and Benefits

Efficiently removes up to 99% of ions, bacteria, particulates and organics from feed water

Easy to replace thanks to the Twist & Lock mechanism

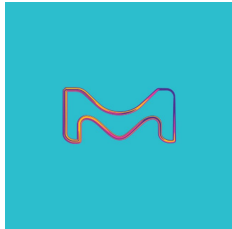
Need for cartridge replacement is indicated by an orange, blinking pictogram light on the system

Pure label and green color of the SQPAK™ RO cartridge is repeated on the production station interface, to inform about its water purification purpose and guide replacement

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

SQPAK is a trademark of Merck KGaA, Darmstadt, Germany



CDRC4050HG

Reverse Osmosis Cartridge

Produces Reverse Osmosis water at a flow rate of 144L/h at 1 bar, For water purification with Elix® Gulfstream systems

UNSPSC Code 41104214
eCl@ss 33050190
NACRES..... JA.14

packagingpkg of 1 unit
parameter2.4 L/min flow rate at 1 bar
resistivity.....>10.0 MΩ-cm (at 25 °C)
impurities.....<10 cfu/mL Bacteria
total organic carbon (TOC) residue<500 ppb
pore size.....<0.22 µm pore size
conductivity.....<0.1 µS/cm
compatibility.....for use with Elix® Gulfstream
shipped inambient

Description

General description

The Reverse Osmosis membrane removes 95%-99% of contaminants including ions, particulates, bacteria, and organic molecules.

Application

For Elix® Gulfstream systems

Legal Information

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany



CDRCKT220

Reverse Osmosis Cartridge

Produces Reverse Osmosis water at a flow rate of 220 L/h, For use with Milli-Q® CLX / HR / HX systems

packagingpkg of 1 unit
parameter220 L/hr flow rate
compatibility.....for use with Milli-Q® CLX Water Purification System
.....for use with Milli-Q® HR Water Purification System
.....for use with Milli-Q® HX SD Water Purification System

Description

General description

The reverse osmosis (RO) cartridge removes 95%-99% of contaminants including ions, particulates, bacteria and organic molecules from potable feed water.

Application

RO water is used in laboratories for applications such as general rinsing, feedwater to washing machines and autoclaves, basic reagent preparation, or as a feed to ultrapure water purification systems.

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



CDRCHKIT2

Reverse Osmosis Cartridge

High fouling RO Kit for RiOs™ 50 and Elix® 35 Water Purification System

packagingpkg of 1 unit
compatibility.....for use with Elix®
.....for use with RiOs™

Description

General description

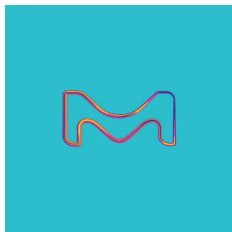
The Reverse Osmosis membrane removes 95%-99% of contaminants including ions, particulates, bacteria, and organic molecules. For use with, Elix® 35 and RiOs™ 50 water purification systems.

Application

The RO water delivered from Elix® and RiOs™ systems is used in laboratories, mainly for applications such as general rinsing, feedwater to washing machines and autoclaves, or as a feed to pure and ultrapure water purification systems.

Legal Information

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany
RIOS is a trademark of Merck KGaA, Darmstadt, Germany



CDRC030HG

Reverse Osmosis Cartridge

Produces Reverse Osmosis water at a flow rate of 30 L/hr, For use with Elix® and RiOs™ water purification systems

packagingpkg of 1 unit
compatibility.....for use with Elix®
.....for use with RiOs™

Description

General description

The reverse osmosis (RO) membrane removes 95%-99% of contaminants including ions, particulates, bacteria, and organic molecules. For use with Elix® and RiOs™ water purification systems.

Application

The RO water delivered from RiOs™ and Elix® systems is used in laboratories, mainly for applications such as general rinsing, feedwater to washing machines and autoclaves, or as a feed to pure and ultrapure water purification systems.

Features and Benefits

Genuine consumable for replacing the Reverse Osmosis Cartridge - CDRC030HG.

Legal Information

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany
RIOS is a trademark of Merck KGaA, Darmstadt, Germany



CDRCKT060

Reverse Osmosis Cartridge

Produces Reverse Osmosis water at a flow rate of 60 L/h, For use with Milli-Q® CLX / HR / HX systems

packagingpkg of 1 unit
parameter60 L/hr flow rate
compatibility.....for use with Milli-Q® CLX Water Purification System
.....for use with Milli-Q® HR Water Purification System
.....for use with Milli-Q® HX SD Water Purification System

Description

General description

The reverse osmosis (RO) cartridge removes 95%-99% of contaminants including ions, particulates, bacteria and organic molecules from potable feed water.

Application

RO water is used in laboratories for applications such as general rinsing, feedwater to washing machines and autoclaves, basic reagent preparation, or as a feed to ultrapure water purification systems.

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



CDRCH12HG Reverse Osmosis Cartridge

High Flux RO Cartridge with housing, For use with AFS® systems

packagingpkg of 1 unit
impurities>99% Bacteria Rejection
.....>99% Organics (MW < 100)
.....>99% Particulates Rejection
.....98% Typical Ionic Rejection (Minimum 93%)
compatibility.....for use with AFS®

Description

General description

The reverse osmosis (RO) membrane removes 95%-99% of contaminants including ions, particulates, bacteria, and organic molecules larger than 200 Da.

Application

Thanks to its tight pore structure, reverse osmosis removes a large amount of contaminants from water, including ions.

Features and Benefits

High Flux RO Cartridge with housing.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany



CDRC050HG

Reverse Osmosis Cartridge

For Reverse Osmosis at a flowrate of 50 L/h, For use with Elix® and RiOs™ water purification systems

packagingpkg of 1 unit
compatibility.....for use with Elix®
.....for use with RiOs™

Description

General description

The reverse osmosis (RO) membrane removes 95%-99% of contaminants including ions, particulates, bacteria, and organic molecules. For use with Elix® 35/70/100 and RiOs™ 50/100/150/200 water purification systems.

Application

The RO water delivered from RiOs™ and Elix® systems is used in laboratories, mainly for applications such as general rinsing, feedwater to washing machines and autoclaves, or as a feed to pure and ultrapure water purification systems.

Legal Information

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany
RIOS is a trademark of Merck KGaA, Darmstadt, Germany



CDRC00201

Reverse Osmosis Cartridge

Produces RO purified water at a flow rate of 5 L/hr, For use with Milli-Q® Integral, RiOs™ Essential, and Elix® Advantage systems

packaging	pkg of 1 unit
parameter	5 L/hr flow rate
H × D	28 cm (11.7 in.) × 4.5 cm (1.8 in.)
compatibility.....	for use with Elix® Advantage
.....	for use with Milli-Q® Integral
.....	for use with RiOs™

Description

General description

The Reverse Osmosis membrane removes 95%-99% of contaminants including ions, particulates, bacteria, and organic molecules (MW >200kDa).

For use with Milli-Q® Integral and RiOs™ Essential, and Elix® Advantage water purification systems.

Application

RO water is used in laboratories, mainly for applications such as general rinsing, feedwater to washing machines and autoclaves, or as a feed to pure and ultrapure water purification systems.

Features and Benefits

Genuine consumable for replacing the Reverse Osmosis Membrane - 5 L/h - CDRC00201.

Legal Information

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



CDRC60201
Reverse Osmosis Cartridge

Produces RO purified water at a flow rate of 8 L/h, For use with AFS, Elix Advantage / Essential / Reference, Milli-Q Direct / Integral and RiOs Essential systems

packaging	pkg of 1 unit
parameter	8 L/hr flow rate
H × D	28 cm (11.7 in.) × 4.5 cm (1.8 in.)
compatibility	for use with AFS®
.....	for use with Elix® Advantage
.....	for use with Elix® Essential UV
.....	for use with Elix® Reference
.....	for use with Milli-Q® Direct
.....	for use with Milli-Q® Integral
.....	for use with RiOs™ Essential

Description

General description

For use with Elix® Advantage water purification systems.

Application

Reverse Osmosis (RO) water is used in laboratories, mainly for applications such as general rinsing, feedwater to washing machines and autoclaves, or as a feed to pure and ultrapure water purification systems.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany
ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany
Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany
RIOS is a trademark of Merck KGaA, Darmstadt, Germany



CDRCHKIT4
Reverse Osmosis Cartridge

For water purification by reverse osmosis (RO)

UNSPSC Code 41104214
eCl@ss 33050190
NACRES JA.14

featureremoves 95%-99% of contaminants including ions, particulates, bacteria, and organic molecules
packagingpkg of 1 unit
shipped inambient

Description

General description

The Reverse Osmosis membrane removes 95%-99% of contaminants including ions, particulates, bacteria, and organic molecules.

Application

Water Purification by Reverse Osmosis (RO)



CDRC60202 Reverse Osmosis Cartridge

Produces RO purified water at a flow rate of 16 L/hr, For use with AFS, Elix Advantage / Essential / Reference, Milli-Q Direct / Integral and RiOs Essential systems

packaging	pkg of 2 units
parameter	16 L/hr flow rate
H × D	28 cm (11.7 in.) × 4.5 cm (1.8 in.)
compatibility	for use with AFS®
.....	for use with Elix® Advantage
.....	for use with Elix® Essential UV
.....	for use with Elix® Reference
.....	for use with Milli-Q® Direct
.....	for use with Milli-Q® Integral
.....	for use with RiOs™ Essential

Description

General description

The Reverse Osmosis membrane removes 95%-99% of contaminants including ions, particulates, bacteria, and organic molecules (MW >200kDa)

Application

Reverse Osmosis water is used in laboratories, mainly for applications such as general rinsing, feedwater to washing machines and autoclaves, or as a feed to pure and ultrapure water purification systems.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany
 ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany
 Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany
 RIOS is a trademark of Merck KGaA, Darmstadt, Germany



CDRC75202
Reverse Osmosis Cartridge

Produces RO purified water at a flow rate of 24 L/hr

packaging	pkg of 2 units
parameter	24 L/hr flow rate
H × D	28 cm (11.7 in.) × 4.5 cm (1.8 in.)
compatibility.....	for use with AFS®
.....	for use with Elix® Advantage
.....	for use with Elix® Essential UV
.....	for use with Elix® Essential
.....	for use with Elix® Reference
.....	for use with Milli-Q® Integral
.....	for use with RiOs™ Essential

Description

General description

The Reverse Osmosis membrane removes 95%-99% of contaminants including ions, particulates, bacteria, and organic molecules (MW >200kDa).

Application

Reverse Osmosis water is used in laboratories, mainly for applications such as general rinsing, feedwater to washing machines and autoclaves, or as a feed to pure and ultrapure water purification systems.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany
ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany
Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany
RIOS is a trademark of Merck KGaA, Darmstadt, Germany



CDRCKT170

Reverse Osmosis Cartridge

Produces Reverse Osmosis water at a flow rate of 170 L/h, For use with Milli-Q® CLX / HR / HX systems

packagingpkg of 1 unit
parameter170 L/hr flow rate
compatibility.....for use with Milli-Q® CLX Water Purification System
.....for use with Milli-Q® HR Water Purification System
.....for use with Milli-Q® HX SD Water Purification System

Description

General description

The reverse osmosis (RO) cartridge removes 95%-99% of contaminants including ions, particulates, bacteria and organic molecules larger than 200 Da from potable feed water.

Application

RO water is used in laboratories for applications such as general rinsing, feedwater to washing machines and autoclaves, basic reagent preparation, or as a feed to ultrapure water purification systems.

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



SQPAKGARM1

SQPAK™ Gard Pack

Removes free chlorine, colloids, particulates from tap water feeding Milli-Q® SP 240 prefilter module

Quality Level.....300
packagingpkg of 1 unit
greener alternative product characteristics.....Design for Energy Efficiency
.....Learn more about the Principles of Green Chemistry.
sustainability.....Greener Alternative Product
compatibility.....for use with Milli-Q® SQ 2Series
greener alternative category....., DfS-Developed

Description

General description

To learn how Milli-Q® SQ 2Series water systems work and read a full overview, visit our dedicated page.

The SQPAK™ Gard pretreatment pack protects the reverse osmosis (RO) membrane of the Milli-Q® SQ 2Series production station by efficiently removing water contaminants such as free chlorine, colloids, and particulates from potable water.

Purification technologies include activated carbon to remove free chlorine and a depth filter to remove particulates and colloids.

For use on the Milli-Q® SP 240 Prefilter module to protect the RO membrane of Milli-Q® SR 240/240L/240XL and SQ 240C/240CV systems.

We are committed to bringing you Greener Alternative Products, which belongs to one of the four categories of greener alternatives . This product is a Design for Sustainability (DfS) developed product. [Click here to view its DfS scorecard.](#)

Features and Benefits

Improves Milli-Q® SQ 2Series system performance and extends system lifetime

Need for cartridge replacement is indicated by an orange blinking pictogram light on the system

Easy to replace thanks to Twist & Lock mechanism

Prefilter label and purple color is repeated on the interface of the Milli-Q® SP 240 Prefilter module to inform about its water purification purpose and guide replacement

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

SQPAK is a trademark of Merck KGaA, Darmstadt, Germany



CDUFHF05K

Pyrogard® 5000 Ultrafiltration Cartridge

For use with Milli-Q® Biocel and Synthesis systems; to produce pyrogen- and nuclease-free water

Quality Level.....	300
feature	hydrophobic
packaging	pkg of 1 unit
manufacturer/tradename	Pyrogard®
parameter	1.0 L/min flow rate
resistivity.....	18.2 MΩ-cm (at 25 degree celcius)
impurities.....	<0.001 EU/mL Pyrogen Level
fitting.....	6 mm tubing (UF cartridge reject tubing)
compatibility.....	for use with Milli-Q® Biocel
.....	for use with Milli-Q® Synthesis
shipped in	ambient

Description

General description

Pyrogard® 5000 Ultrafiltration Cartridge (UF) is a hollow-fiber in-line ultrafilter used with Milli-Q® Biocel and Synthesis, to produce pyrogen- and nuclease-free ultrapure water.

Application

Water filtered through this UF cartridge is recommended for experiments and analyses where nuclease-free and/or endotoxin-free water is needed.

Features and Benefits

Comprises polysulfone hollow fiber membranes in an acrylonitrile-butadiene-styrene housing with polyurethane potting compound. Initially contains 1.5 vol. % hydrogen peroxide storage solution. Purification technology involves the use of ion exchange, activated carbon membrane.

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany
PYROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany



IPAKGARDH2

IPAK Gard® 10/15 Pretreatment Cartridge for Hard Water

For Milli-Q® IQ/IX 7010/15 water systems to protect RO membranes. This product replaces IPAKGARH2.

Quality Level.....	300
packaging	units of 1
manufacturer/tradename	Milli-Q®
storage condition	room temperature
cartridge H.....	39.5 cm (15.5 in.)
input	feed water nature tap water (within specifications of the water purification system)
compatibility.....	for use with Milli-Q® IX 7010
.....	for use with Milli-Q® IX 7015
.....	for use with Milli-Q® IQ 7010
.....	for use with Milli-Q® IQ 7015
shipped in	ambient

Description

General description

The IPAK Gard® 10/15 pretreatment cartridge for hard water protects the reverse osmosis (RO) membrane by efficiently removing water contaminants such as free chlorine, colloids, particles and minerals from hard water.

Purification technologies include activated carbon for the removal of free chlorine, polyphosphate beads to protect against scaling and precipitates, and a pleated filter for the removal of particulates and colloids. This pretreatment cartridge improves your system's performance and extends its lifetime.

Application

For use with Milli-Q® IQ/IX 7010/15.

Optimally protects RO membranes from free chlorine, colloids, particles and minerals found in hard feed water.

Improves system performance and lifetime.

Features and Benefits

Pleated filter removes particulates and colloids, and activated carbon block removes free chlorine from hard feed water to ensure RO membrane performance over years

Polyphosphate beads protect against scaling and precipitates

e-Sure tag enables RFID connection with the system, for seamless consumable status monitoring, data management and full traceability.

Supplied with a Drain Cap, to remove excess water and reduce the weight of the exhausted cartridge at disposal.

63% of the parts suppliers are ISO 14001 environmental management system certified.

Legal Information

IPAK GARD is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



CPMQK05D2

Kit: QPAK® 2 Purification Cartridge

For use with Milli-Q® systems fed by RO or distilled water

material.....polypropylene cartridge
packagingpkg of 1 unit
manufacturer/tradenameQPAK®
total organic carbon (TOC) residue<20 ppb

Description

General description

Kit: QPAK® 2 Purification Cartridge is a replaceable water purification unit designed to reduce ionic and organic contaminants. It contains a combination of purification media (including electronics grade ion-exchange resins, activated carbon and the Organex Q scavenger mixture) carefully selected to remove contaminants from various feed water types.

Features and Benefits

Constructed from polypropylene material for its minimum release of extractables.
Product water achieves TOC (total organic carbon) levels < 20 ppb.

Other Notes

Directions for Use

Organism Retention: Microorganisms

Mode of Action: Filtering

Application: General laboratory analysis

Intended Use: Water purification

Instructions for Use: This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to the system equipment user guide section "Using the System" (provided with the system)

Storage Statement: Store in a dry location

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

QPAK is a registered trademark of Merck KGaA, Darmstadt, Germany



IPAKGARD2

IPAK Gard® 10/15 Pretreatment Cartridge

For Milli-Q® IQ/IX 7010/15 water systems to protect RO membranes. This product replaces IPAKGARA2.

Quality Level.....	300
packaging	units of 1
manufacturer/tradename	Milli-Q®
storage condition	room temperature
cartridge H.....	39.5 cm (15.5 in.)
input	feed water nature tap water (within specifications of the water purification system)
compatibility.....	for use with Milli-Q® IX 7010
.....	for use with Milli-Q® IX 7015
.....	for use with Milli-Q® IQ 7010
.....	for use with Milli-Q® IQ 7015
shipped in	ambient

Description

General description

IPAK Gard® pretreatment cartridge is composed of two IPAK Gard® 03/05 pretreatment cartridges. It protects the reverse osmosis (RO) membrane by efficiently removing water contaminants such as free chlorine, colloids, particles and minerals from potable water.

Purification technologies include activated carbon for the removal of free chlorine and a pleated filter for the removal of particulates and colloids. This pretreatment cartridge improves your system's performance and extends its lifetime.

Application

For Milli-Q® IQ/IX 7010/15 systems.

Optimally protects RO membranes from free chlorine, colloids, particles and minerals found in potable feed water.

Improves system performance and lifetime.

Features and Benefits

Pleated filter removes particulates and colloids, and activated carbon block removes free chlorine from potable water to ensure RO membrane performance over years.

e-Sure tag enables RFID connection with the system, for seamless consumable status monitoring, data management and full traceability.

Supplied with a Drain Cap, to remove excess water and reduce the weight of the exhausted cartridge at disposal.

63% of the parts suppliers are ISO 14001 environmental management system certified.

Legal Information

IPAK GARD is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



IPAKGARDH1

IPAK Gard® 3/5 Pretreatment Cartridge for Hard Water

For Milli-Q® IQ/IX 7003/05, Milli-Q® EQ 7008/16 water systems to protect RO membranes. This product replaces IPAKGARH1.

Quality Level.....	300
packaging	units of 1
manufacturer/tradename	Milli-Q®
storage condition	room temperature
cartridge H.....	39.5 cm (15.5 in.)
input	feed water nature tap water (within specifications of the water purification system, but with hardness (as CaCO ₃) 300 ppm)
compatibility.....	for use with Milli-Q® EQ 7008
.....	for use with Milli-Q® EQ 7016
.....	for use with Milli-Q® IX 7003
.....	for use with Milli-Q® IX 7005
.....	for use with Milli-Q® IQ 7003
.....	for use with Milli-Q® IQ 7005
shipped in	ambient

Description

General description

The IPAK Gard® 3/5 pretreatment cartridge for hard water protects the reverse osmosis (RO) membrane by efficiently removing water contaminants such as free chlorine, colloids, particles and minerals from hard water.

Purification technologies include activated carbon for the removal of free chlorine, polyphosphate beads to protect against scaling and precipitates, and a pleated filter for the removal of particulates and colloids. This pretreatment cartridge improves your system's performance and extends its lifetime.

Application

For use with Milli-Q® IQ/IX 7003/05 and EQ 7008/16 systems.

Optimally protects RO membranes from free chlorine, colloids, particles and minerals found in hard feed water.

Improves system performance and lifetime.

Features and Benefits

Pleated filter removes particulates and colloids, and activated carbon block removes free chlorine from hard feed water to ensure RO membrane performance over years.

Polyphosphate beads protect against scaling and precipitates.

e-Sure tag enables RFID connection with the system, for seamless consumable status monitoring, data management and full traceability.

Supplied with a Drain Cap, to remove excess water and reduce the weight of the exhausted cartridge at disposal.

63% of the parts suppliers are ISO 14001 environmental management system certified.

Legal Information

IPAK GARD is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



PRPK0L002

PrePak Pretreatment Pack

For use with Elix® and RiOs™ systems, Protects and maintains good performance of the reverse osmosis membrane

Quality Level.....	300
feature	removal of large particles from tap water
.....	recommended for SDI > 5
packaging	pkg of 1 unit
H × W × D.....	535 mm (21.1 in.) × 155 mm (6.1 in.) × 79 mm (3.1 in.)
pore size.....	1 µm nominal pore size (CR01 filter)
.....	5 µm nominal pore size (CR05 filter)
compatibility.....	for use with Elix®
.....	for use with RiOs™
shipped in	ambient

Description

General description

Proper pretreatment is an essential step in producing the desired final product water quality. The choice of the pretreatment is made according to the flow rate of the feed water.

The PrePak L2 pretreats tap water by removing large particles. It is intended for use with larger water purification systems as additional pretreatment for the system's Progard® TL pretreatment packs.

For use with Elix® 20/35/70/100 and RiOs™ 30/50/100/150/200 water purification systems.

Application

Provides optimal protection of the RO membrane.

Features and Benefits

Optimal protection of the water system.

Ensures system lifetime and performance are optimized.

5 µm and 1 µm depth-filtration media for particle removal.

Legal Information

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PRPK0L003

PrePak Pretreatment Pack

For use with Elix® and RiOs™ systems, Protects and maintains good performance of the reverse osmosis membrane

Quality Level.....	300
feature	
.....	removal of large particles from tap water
.....	recommended for SDI > 10
packaging	pkg of 1 unit
H × W × L	535 mm (21.1 in.) × 155 mm (6.1 in.) × 79 mm (3.1 in.)
pore size	10 µm nominal pore size (CR10 filter)
.....	5 µm nominal pore size (CR05 filter)
compatibility	for use with Elix®
.....	for use with RiOs™
shipped in	ambient

Description

General description

Proper pretreatment is an essential step in producing the desired final product water quality. The choice of the pretreatment is made according to the flow rate of the feed water.

The PrePak L3 includes two pre-filtration stages to pretreat tap water by removing large particles. It is intended for use with larger water purification systems as additional pretreatment to the system's Progard® TL pretreatment packs.

For use with Elix® 20/35/70/100 systems and RiOs™ 30/50/100/150/200 water purification systems.

Application

Provides optimal protection of the RO membrane.

Features and Benefits

Optimal protection of the water system.

Ensures system lifetime and performance are optimized.

10 µm and 5 µm depth-filtration media for particle removal.

Legal Information

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PRPK0L0S1

PrePak Pretreatment Pack

For use with Elix® Gulfstream / Large and RiOs™ Large systems, Protects and maintains good performance of the reverse osmosis (RO) membrane.

Quality Level.....	300
feature	recommended for SDI > 2 and high chlorine level
packaging	pkg of 1 unit
pore size.....	0.5 µm pore size (CRW5 type)
compatibility.....	for use with Elix®
.....	for use with Elix® Gulfstream
.....	for use with Elix® Large
.....	for use with RiOs™ Large
.....	for use with RiOs™
shipped in	ambient

Description

General description

Proper pretreatment is an essential step in producing the desired final product water quality. The choice of the pretreatment is made according to the flow rate of the feed water. The PrePak L1 pretreats tap water by removing large particles, organic compounds, and free chlorine. It is intended for use with larger water purification systems as additional pretreatment to the system's Progard® TL pretreatment packs.

For use with Elix® 20/35/70/100 systems and RiOs™ 30/50/100/150/200 water purification systems.

Application

Provides optimal protection of the RO membrane.

Features and Benefits

Ensures system lifetime and performance are optimized.

0.5 µm depth-filtration to remove particles.

Activated carbon to remove chlorine.

Silver-impregnated activated carbon provides free chlorine reduction and bacteriostatic protection.

Legal Information

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PRPK00001

PrePak Pretreatment Pack

For use with Elix®, AFS® and RiOs™ systems, Protects and maintains good performance of the reverse osmosis (RO) membrane

UNSPSC Code..... 41104212
eCl@ss..... 33050190
NACRES JA.13

Quality Level.....300
featureOptimal protection of water system and optimised performance; activated C; SDI > 5 & < 12
packagingpkg of 2 units
pore size.....0.5 µm pore size (CRW5 type)
compatibility.....for use with AFS®
.....for use with Elix®
.....for use with RiOs™
shipped inambient

Description

General description

Proper pretreatment is an essential step in producing the desired final product water quality. The choice of the pretreatment is made according to the flow rate of the feed water.

The PrePak 1 pretreats tap water by removing particles, organic compounds, and free chlorine. It is intended for use with larger water purification systems as additional pretreatment to the system's Progard® TL pretreatment packs.

For use with Elix®, AFS®, and RiOs™ water purification systems.

Application

Protects and maintains good performance of the reverse osmosis (RO) membrane.

Features and Benefits

Optimal protection of the water system.

Ensures system lifetime and performance are optimized.

0.5 µm depth-filtration to remove particles.

Activated carbon to remove chlorine.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany

RIOS is a trademark of Merck KGaA, Darmstadt, Germany



PRPK000A1

PrePak Pretreatment Pack

For use with Milli-Q IQ 7003/5/10/15, Milli-Q IX 7003/5/10/15 and Milli-Q EQ 7008/16. Additional pretreatment pack designed to protect and maintain good reverse osmosis (RO) membrane performance.

UNSPSC Code 41104212
eCl@ss 33050190
NACRES NB.24

material.....polyethylene housing
.....polypropylene housing
Quality Level.....300
packagingpkg of 1 unit
parameter≤6 bar pressure
.....2 °C temp. range (40 °C)
.....5.0 L/min flow rate
H × W × D.....21.1 in. × 6.1 in. × 3.1 in.
pore size.....0.5 µm pore size (High capacity filter CRW05 type)
compatibility.....for use with Milli-Q® EQ 7008
.....for use with Milli-Q® EQ 7016
.....for use with Milli-Q® IX 7003
.....for use with Milli-Q® IX 7005
.....for use with Milli-Q® IX 7010
.....for use with Milli-Q® IX 7015
.....for use with Milli-Q® IQ 7003
.....for use with Milli-Q® IQ 7005
.....for use with Milli-Q® IQ 7010
.....for use with Milli-Q® IQ 7015
shipped inambient

Description

General description

Proper pretreatment is an essential step in producing the desired final product water quality. The choice of the pretreatment is made according to the flow rate of the potable water.

The Prepak filter pretreatment pack is an additional pretreatment in case of feed water containing high levels of particulates, chlorine, or organics. It is intended for use with Milli-Q® IQ 7003/5/10/15, Milli-Q® IX 7003/5/10/15 and Milli-Q® EQ 7008/16 water purification systems.

Features and Benefits

Optimal protection of the water system.

Ensures system lifetime and performance are optimized.

Components

Activated carbon for free chlorine reduction and bacteriostatic protection.

Depth-filtration for particle removal.

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



IPAKGARD1

IPAK Gard® 3/5 Pretreatment Cartridge

For Milli-Q® IQ/IX 7003/05 and Milli-Q® EQ 7008/16 water systems to protect RO membranes.
This product replaces IPAKGARA1.

Quality Level.....	300
packaging	units of 1
manufacturer/tradename	Milli-Q®
storage condition	room temperature
cartridge H.....	39.5 cm (15.5 in.)
input	feed water nature tap water (within specifications of the water purification system)
compatibility.....	for use with Milli-Q® EQ 7008
.....	for use with Milli-Q® EQ 7016
.....	for use with Milli-Q® IX 7003
.....	for use with Milli-Q® IX 7005
.....	for use with Milli-Q® IQ 7003
.....	for use with Milli-Q® IQ 7005
shipped in	ambient

Description

General description

IPAK Gard® 3/5 pretreatment cartridge protects the reverse osmosis (RO) membrane by efficiently removing water contaminants such as free chlorine, colloids, particles and minerals from potable water.

Purification technologies include activated carbon for the removal of free chlorine and a pleated filter for the removal of particulates and colloids. This pretreatment cartridge improves your system's performance and extends its lifetime.

Application

For Milli-Q® IQ/IX 7003/05 and EQ 7008/16 systems

Optimally protects RO membranes from free chlorine, colloids, particles and minerals found in potable feed water.

Improves system performance and lifetime.

Features and Benefits

Pleated filter removes particulates and colloids, and activated carbon block removes free chlorine from potable water to ensure RO membrane performance over years.

e-Sure tag enables RFID connection with the system, for seamless consumable status monitoring, data management and full traceability.

Supplied with a Drain Cap, to remove excess water and reduce the weight of the exhausted cartridge at disposal.

63% of the parts suppliers are ISO 14001 environmental management system certified.

Legal Information

IPAK GARD is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



ZSR240PFT0 Milli-Q® SP 240 Prefilter Module

Pretreatment of potable tap water to feed the pure RO water production station

UNSPSC Code 41104200
eCl@ss 33050190
NACRES NC.75

AC/DC input 100 V / 240 V, 50-60 Hz
packaging pkg of 1 unit
greener alternative product characteristics Design for Energy Efficiency
..... Learn more about the Principles of Green Chemistry.
sustainability Greener Alternative Product
parameter 6 kg operating weight (13.2 lb)
system H × W × depth 50.3 cm (19.8 in.) × 14.1 cm (5.6 in.) × 22 cm (8.7 in.)
greener alternative category DfS-Developed,

Description

General description

To learn how Milli-Q® SQ 2Series water systems work and read a full overview, visit our dedicated page.

The Milli-Q® SP 240 Prefilter Module pretreats potable tap water to feed the pure RO water production station. This prefilter module is recommended to boost the performance of the RO water production station of the Milli-Q® SQ 2Series of water purification systems.

We are committed to bringing you Greener Alternative Products, which belongs to one of the four categories of greener alternatives. This product is a Design for Sustainability (DfS) developed product. Click here to view its DfS scorecard.

Features and Benefits

Pump regulates feed water pressure to ensure the RO membrane constant up to 42 L/h high flow rate

SQPAK™ Gard pretreatment pack protects the RO membrane by efficiently removing chlorine, colloids and particulate contaminants from feed tap water

Compact setup and self-guided installation manual and video let you plug the module next to the pure RO water production station, and move it later if needed

Individual Twist & Lock cartridge replacement, for each exhausted purification step, simplifies maintenance and limits running cost

Compact size supports lab sustainability efforts

Components

The indicated price currently corresponds to the above catalog number only; it is subject to change at any time without notice.

This catalog number does not include:

SQPAK™ cartridge

Power cord adapted to the local electrical network

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

SQPAK is a trademark of Merck KGaA, Darmstadt, Germany



CF0F01205

Kit: Milli-Q® Organic-Free (RO feedwater)

For use with Milli-Q® bowl water purification system fed by RO water

Quality Level.....	300
packaging	pkg of 1 kit
manufacturer/tradename	Milli-Q®
pore size.....	0.22 µm filter (absolute bacterial filter)
shipped in	ambient

Description

General description

This kit contains pretreatment and purification replacement cartridges such as one Super-C organics removal cartridge, two ion-exchange deionization cartridges, one Organex-Q trace organic removal cartridge, and one Millipak® filter unit. All cartridges are vacuum packed and have a two-year shelf life.

Features and Benefits

- Activated carbon cartridge to remove dissolved organics.
- Nuclear-grade ion-exchange cartridges to remove trace inorganic ions to 18 MΩ·cm resistivity.
- Organic scavenger cartridge to remove trace organics.
- A final 0.22 µm absolute bacterial filter.

Other Notes

- Directions For Use:
- Organism Retention: Microorganisms
- Mode of Action: Filtering
- Application: General laboratory analysis
- Intended Use: Water purification
- Instructions for Use: This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to the system equipment user guide section "Using the System" (available on USB key in the system box).
- Storage Statement: Store in a dry location
- Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

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