Simply Quality

Greyhound Q-Fil Membrane Filters

Greyhound CHROMATOGRAPHY AND ALLIED CHEMICALS

YOUR GLOBAL SCIENCE PARTNER

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Greyhound CHROMATOGRAPHY AND ALLIED CHEMICALS

YOUR **GLOBAL SCIENCE** PARTNER

Greyhound Chromatography
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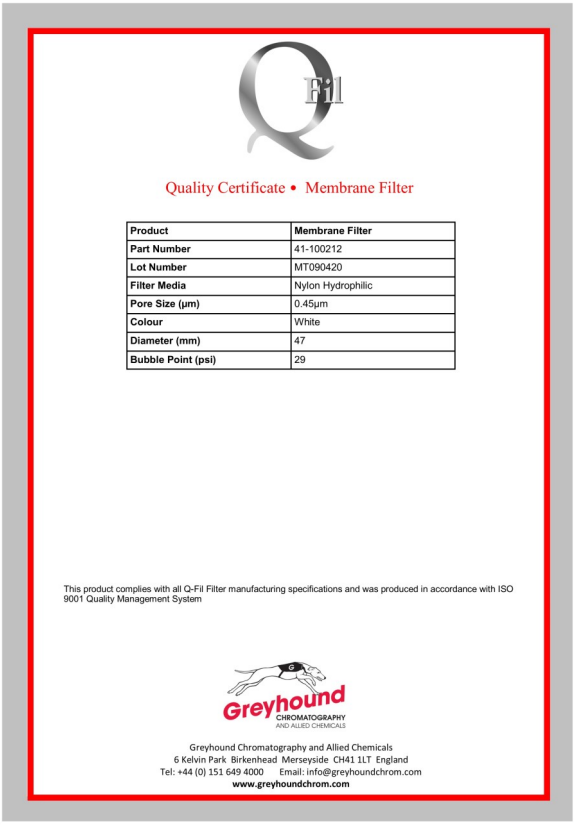
Q Range

- **Q-FIL Syringe Filters**
- **Q-Fil Membrane Filters**
- **Q-Cap Capillary Columns**
- **Q-Col HPLC Columns**

Greyhound
Your Global Science Partner

As a trusted name in the supply of chromatography consumables and certified reference standards, Greyhound also offers a comprehensive selection of top quality own brand products including Capillary columns HPLC columns, Syringe Filters, Consumables etc. This catalogue contains details of our range of Q-Fil Membrane Filters. Other product catalogues are available on request.
These quality products are backed by the guaranteed reliability and technical support which has become synonymous with the name Greyhound.

Visit our website at:
www.greyhoundchrom.com
for details of our full range of products.



Quality Certificate • Membrane Filter

Product	Membrane Filter
Part Number	41-100212
Lot Number	MT090420
Filter Media	Nylon Hydrophilic
Pore Size (µm)	0.45µm
Colour	White
Diameter (mm)	47
Bubble Point (psi)	29

This product complies with all Q-Fil Filter manufacturing specifications and was produced in accordance with ISO 9001 Quality Management System

Greyhound Chromatography and Allied Chemicals
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Q-Fil Certificate of Conformance

Greyhound Q-Fil Membrane Filters

Q-Fil Membrane Filters set the new Quality standard for today's analytical laboratories. Manufactured from the highest quality materials, Q-Fil Membrane Filters provide excellent chemical compatibility with acids, alcohols, bases, ethers, glycols, ketones and oils.

Greyhound CHROMATOGRAPHY AND ALLIED CHEMICALS

Membrane Filter Compatibility Chart

Use this information to determine the ability of a specific membrane filter to withstand exposure to solvent.
All concentrations are 100% unless noted.

Chemical	Nylon	PTFE	PVDF	PES	CA	RC	PP	GMF
ACIDS								
Acetic, Glacial	LC	C	C	C	IC	C	C	C
Acetic, 25%	C	C	C	C	CA	C	C	C
Hydrochloric, Concentrated	IC	C	C	C	IC	IC	C	C
Hydrochloric, 25%	IC	C	C	C	IC	IC	C	C
Sulphuric, Concentrated	IC	C	IC	IC	IC	IC	C	C
Sulphuric, 25%	IC	C	C	C	IC	LC	C	C
Nitric, Concentrated	IC	C	C	IC	IC	IC	C	LC
Nitric, 25%	IC	C	C	C	IC	IC	C	LC
Phosphoric, 25%	IC	C	ND	ND	CA	LC	C	ND
Formic, 25%	IC	C	ND	ND	LC	C	C	C
Trichloroacetic, 10%	IC	C	ND	ND	CA	C	C	ND
ALCOHOLS								
Methanol, 98%	C	C	C	C	C	C	C	C
Ethanol, 98%	C	C	C	C	C	C	C	C
Ethanol, 70%	IC	C	C	C	C	C	C	C
Isopropanol	C	C	C	C	C	C	C	C
n-Propanol	C	C	C	C	C	C	C	C
Amyl Alcohol (Butanol)	C	C	C	C	C	C	C	C
Benzyl Alcohol	C	C	C	ND	LC	C	C	IC
Ethylene Glycol	C	C	C	C	C	C	C	C
Propylene Glycol	C	C	C	C	LC	C	C	C
Clycerol	C	C	C	C	C	C	C	C
ALKALIS								
Ammonium Hydroxide, 25%	C	C	LC	C	C	LC	C	C
Sodium Hydroxide, 3N	C	C	C	C	IC	LC	C	IC
AMINES AND AMIDES								
Dimethyl Formamide	LC	C	IC	IC	IC	LC	C	C
Diethylacetamide	C	C	ND	ND	IC	C	ND	C
Triethanolamine	C	C	ND	ND	C	C	ND	ND
Aniline	ND	C	ND	ND	IC	C	ND	ND
Pyridine	C	C	IC	IC	IC	C	IC	C
Acetonitrile	C	C	C	LC	IC	C	C	C
ESTERS								
Ethyl Acetate/Methyl Acetate	C	C	C	IC	IC	C	LC	C
Amyl Acetate/Butyl Acetate	C	C	IC	IC	LC	C	LC	C
Propyl Acetate	C	C	IC	IC	LC	C	LC	ND
Propylene Glycol Acetate	ND	C	ND	IC	IC	C	C	ND
2-Ethoxyethyl Acetate	ND	C	ND	IC	LC	C	ND	ND
Methyl Cellusolve	ND	C	ND	IC	IC	C	C	C

Membrane filter Compatibility Chart

Use this information to determine the ability of a specific membrane filter to withstand exposure to solvent.
All concentrations are 100% unless noted.

Chemical	Nylon	PTFE	PVDF	PES	CA	RC	PP	GMF
Benzyl Benzoate	C	C	ND	IC	C	C	ND	ND
Isopropyl Myristate	C	C	ND	IC	C	C	ND	ND
Tricresyl Phosphate	ND	C	ND	IC	C	C	ND	ND
HALOGENATED HYDROCARBONS								
Methylene Chloride	LC	C	C	IC	IC	C	LC	C
Chloroform	C	C	C	IC	IC	C	LC	C
Trichloroethylene	C	C	C	IC	C	C	C	C
Chlorobenzene	C	C	C	IC	C	C	C	C
Freon*	C	C	C	IC	C	C	C	C
Carbon Tetrachloride	C	C	C	IC	LC	C	LC	C
HYDROCARBONS								
Hexane/Xylene	C	C	C	IC	C	C	IC	C
Toluene/Benzene	C	C	C	IC	C	C	IC	C
Kerosene/Gasoline	C	C	C	LC	C	C	LC	ND
Tetralin/Decalin	ND	C	C	ND	C	C	ND	ND
KETONES								
Acetone	C	C	IC	IC	IC	C	C	C
Cyclohexanone	C	C	IC	IC	IC	C	C	C
Methyl Ethyl Ketone	C	C	IC	IC	LC	C	LC	C
Isopropylacetone	C	C	IC	IC	C	C	ND	C
Methyl Isobutyl Ketone	ND	C	IC	IC	ND	C	LC	C
ORGANIC OXIDES								
Ethyl Ether	C	C	C	C	C	C	LC	ND
Dioxane	C	C	LC	IC	I	C	C	C
Tetrahydrofuran	C	C	LC	IC	I	C	C	C
Triethanolamine	C	C	ND	ND	C	C	ND	ND
Dimethylsulfoxide (DMSO)	C	C	IC	IC	I	C	C	C
Isopropyl Ether	ND	C	C	C	C	C	C	ND
MISCELLANEOUS								
Phenol, Aqueous Solution 10%	ND	C	LC	IC	IC	IC	C	C
Formaldehyde Aqueous Solution 30%	C	C	C	C	C	LC	C	C
Hydrogen Peroxide 30%	C	C	ND	ND	C	C	ND	ND
Silicone Oil/Mineral Oil	ND	C	C	C	C	C	C	C

LEGEND

C	Compatible
LC	Limited Compatibility (membrane may swell and shrink)
IC	Incompatible (not recommended)
ND	No compatibility data currently available
PTFE	Polytetrafluoroethylene (Teflon ®)
PVDF	Polyvinylidene
PES	Polyethersulfone
CA	Cellulose Acetate
RC	Regenerated Cellulose
PP	Polypropylene
GMF	Glass Microfibre

NYLON

Features:

- Hydrophilic membrane
- Excellent for HPLC samples and general filtration
- Compatible with organic and aqueous liquids
- Good solvent resistance and high protein retention
- Strong mechanical stability

Not suitable for use with strong acids or bases, halogenated hydrocarbons or protein

Cat. No.	Diameter	Pore Size
41-100200	13mm	0.22µm
41-100210	13mm	0.45µm
41-100220	13mm	0.8µm
41-100230	13mm	1.2µm
41-100240	13mm	3.0µm
41-100250	13mm	5.0µm
41-100201	25mm	0.22µm
41-100211	25mm	0.45µm
41-100221	25mm	0.8µm
41-100231	25mm	1.2µm
41-100241	25mm	3.0µm
41-100251	25mm	5.0µm
41-100202	47mm	0.22µm
41-100212	47mm	0.45µm
41-100222	47mm	0.8µm
41-100232	47mm	1.2µm
41-100242	47mm	3.0µm
41-100252	47mm	5.0µm

Cat. No.	Diameter	Pore Size
41-100203	90mm	0.22µm
41-100213	90mm	0.45µm
41-100223	90mm	0.8µm
41-100233	90mm	1.2µm
41-100243	90mm	3.0µm
41-100253	90mm	5.0µm
41-100204	142mm	0.22µm
41-100214	142mm	0.45µm
41-100224	142mm	0.8µm
41-100234	142mm	1.2µm
41-100244	142mm	3.0µm
41-100254	142mm	5.0µm
41-100205	293mm	0.22µm
41-100215	293mm	0.45µm
41-100225	293mm	0.8µm
41-100235	293mm	1.2µm
41-100245	293mm	3.0µm
41-100255	293mm	5.0µm

PTFE Hydrophobic

Features:

- Hydrophobic membrane resistant to strong acids, aggressive solvents, alcohols, bases and aromatics
- Ideal for the filtration and degassing of chromatography solvents and for extremely basic mobile phase solutions
- Very low extractables
- Mechanically strong
- Excellent thermal stability

Cat. No.	Diameter	Pore Size
41-100260	13mm	0.22µm
41-100270	13mm	0.45µm
41-100280	25mm	0.1µm
41-100261	25mm	0.22µm
41-100271	25mm	0.45µm
41-100290	25mm	1.2µm
41-100300	25mm	3.0µm
41-100304	25mm	3.0µm
41-100262	47mm	0.22µm
41-100272	47mm	0.45µm
41-100291	47mm	1.2µm
41-100301	47mm	3.0µm
41-100310	47mm	5.0µm

Cat. No.	Diameter	Pore Size
41-100282	90mm	0.1µm
41-100263	90mm	0.22µm
41-100273	90mm	0.45µm
41-100292	90mm	1.2µm
41-100302	90mm	3.0µm
41-100311	90mm	5.0µm
41-100283	142mm	0.1µm
41-100264	142mm	0.22µm
41-100274	142mm	0.45µm
41-100293	142mm	1.2µm
41-100303	142mm	3.0µm
41-100312	142mm	5.0µm
41-100284	293mm	0.1µm
41-100265	293mm	0.22µm
41-100275	293mm	0.45µm

PTFE Hydrophilic

Features:

- Hydrophilic membrane resistant to strong acids, aggressive solvents, alcohols, bases and aromatics
- Ideal for the filtration and degassing of chromatography solvents and for extremely basic mobile phase solutions
- Very low extractables
- Mechanically strong
- Excellent thermal stability

Cat. No.	Diameter	Pore Size
41-100320	13mm	0.22µm
41-100330	13mm	0.45µm
41-100321	25mm	0.22µm
41-100331	25mm	0.45µm
41-100322	47mm	0.22µm
41-100332	47mm	0.45µm
41-100323	90mm	0.22µm
41-100333	90mm	0.45µm
41-100324	142mm	0.22µm
41-100334	142mm	0.45µm

CELLULOSE NITRATE

Features:

- Naturally hydrophilic
- High physical strength
- Ideal for clarification and filtration of aqueous samples
- For immunoblotting, the high protein retention of Nitrocellulose is ideal to bind DNA

Cat. No.	Diameter	Pore Size
41-100370	47mm	0.22µm
41-100371-S Sterile	47mm	0.22µm
41-100371	47mm	0.45µm
41-100372	47mm	0.8µm
41-100372-S Sterile	47mm	0.8µm

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CELLULOSE ACETATE

Features:

- Hydrophilic membrane
- Ideal for aqueous based samples, tissue culture media filtration and sensitive biological samples
- Very low protein binding capacity, lower than PVDF and PES membranes
- High physical strength
- Strength and dimension stability
- Lower chemical resistance than Regenerated Cellulose

Cat. No.	Diameter	Pore Size
41-100340	13mm	0.22µm
41-100351	13mm	0.45µm
41-100360	13mm	0.8µm
41-100341	25mm	0.22µm
41-100352	25mm	0.45µm
41-100361	25mm	0.8µm
41-100342	47mm	0.22µm
41-100353	47mm	0.45µm
41-100362	47mm	0.8µm
41-100343	90mm	0.22µm
41-100354	90mm	0.45µm
41-100363	90mm	0.8µm
41-100344	142mm	0.22µm
41-100355	142mm	0.45µm
41-100364	142mm	0.8µm
41-100350	293mm	0.22µm
41-100356	293mm	0.45µm
41-100365	293mm	0.8µm

PVDF (Hydrophobic)

Features:

- Polyvinylidene difluoride membrane
- Hydrophobic
- Wide chemical compatibility
- Excellent mechanical properties
- Resistant to solvents, exhibits low levels of extractables
- Low protein binding, can be used with proteins and peptides
- Suitable for filtration of aqueous and organic solvents

Cat. No.	Diameter	Pore Size
41-100470	13mm	0.22µm
41-100480	13mm	0.45µm
41-100471	25mm	0.22µm
41-100481	25mm	0.45µm
41-100472	47mm	0.22µm
41-100482	47mm	0.45µm
41-100473	90mm	0.22µm
41-100483	90mm	0.45µm
41-100474	142mm	0.22µm
41-100484	142mm	0.45µm
41-100475	293mm	0.22µm
41-100485	293mm	0.45µm

MIXED CELLULOSE ESTERS

Features:

- A mixture of nitrocellulose and cellulose acetate
- Naturally hydrophilic membrane
- High porosity provides superior flow rates
- Suitable for cleaning or sterilising many aqueous solutions
- Ideal for use in lateral flow assays and dot/slot blotting.

Cat. No.	Diameter	Pore Size
41-100380	13mm	0.22µm
41-100390	13mm	0.45µm
41-100400	13mm	0.8µm
41-100410	13mm	1.2µm
41-100420	13mm	3.0µm
41-100381	25mm	0.22µm
41-100391	25mm	0.45µm
41-100401	25mm	0.8µm
41-100411	25mm	1.2µm
41-100421	25mm	3.0µm
41-100382	37mm	0.22µm
41-100392	37mm	0.45µm
41-100402	37mm	0.8µm
41-100412	37mm	1.2µm
41-100422	37mm	3.0µm
41-100383	47mm	0.22µm
41-100393	47mm	0.45µm
41-100403	47mm	0.8µm

Cat. No.	Diameter	Pore Size
41-100413	47mm	1.2µm
41-100423	47mm	3.0µm
41-100384	90mm	0.22µm
41-100394	90mm	0.45µm
41-100404	90mm	0.8µm
41-100414	90mm	1.2µm
41-100424	90mm	3.0µm
41-100385	142mm	0.22µm
41-100395	142mm	0.45µm
41-100405	142mm	0.8µm
41-100415	142mm	1.2µm
41-100425	142mm	3.0µm
41-100386	293mm	0.22µm
41-100396	293mm	0.45µm
41-100406	293mm	0.8µm
41-100416	293mm	1.2µm
41-100426	293mm	3.0µm

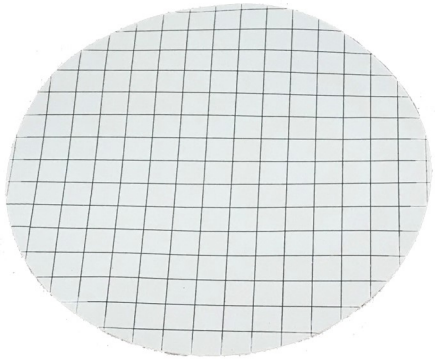
MIXED CELLULOSE ESTERS - Gridded

Features:

Gridded MCE membranes are unsupported natural hydrophilic filters which have clearly defined grid lines. The special ink used is non-toxic and completely free from bacterial growth inhibitors. Composed of cellulose acetate and cellulose nitrate, they are one of the most widely used membranes in analytic and research applications.

The white gridded disks are specially designed for the recovery and retention of E.Coli bacteria in water/waste water analysis as well as other microbiological tests.

The black gridded disks assist with manual counting procedures and provide enhanced contrast between residue or cell colours and the filter without having to counter stain the membrane.



Features

- Hydrophobic
- Gridded membrane is perfect for microbiology analysis
- 0.22µm, 0.45µm and 0.8µm pore sizes available
- Sterilised by gamma irradiation
- Individually packaged with easy to open separator paper

Applications

- Clarification of aqueous solvents, removal and analysis of microbiological contaminants
- Sterilizing filtration, air monitoring, particle monitoring, particle removal, bioassay
- Dairy microbiology, retention of yeast, moulds and algae
- QC analysis of fluid holding, particle collection and analysis

Cat. No.	Membrane Type	Diameter	Pore Size
41-100430	Mixed Cellulose Esters, Gridded, White	47mm	0.22µm
41-100431	Mixed Cellulose Esters, Gridded, White	47mm	0.45µm
41-100431-S	Mixed Cellulose Esters, Gridded, White, Sterile	47mm	0.45µm
41-100432	Mixed Cellulose Esters, Gridded, White	47mm	0.8µm
41-100436	Mixed Cellulose Esters, Gridded, Black	47mm	0.22µm
41-100437	Mixed Cellulose Esters, Gridded, Black	47mm	0.45µm
41-100437-S	Mixed Cellulose Esters, Gridded, Black, Sterile	47mm	0.45µm
41-100438	Mixed Cellulose Esters, Gridded, Black	47mm	0.8µm

POLYETHERSULFONE

Features:

- Inherently hydrophilic membrane
- Low protein binding
- Provides high flow rates and good throughput volume
- Best choice for tissue culture work
- Very low extractables
- Mechanically strong membrane, suitable for use with strong bases, alcohols and resistive proteins

Cat. No.	Diameter	Pore Size
41-100460	13mm	0.1µm
41-100440	13mm	0.22µm
41-100450	13mm	0.45µm
41-100461	25mm	0.1µm
41-100441	25mm	0.22µm
41-100451	25mm	0.45µm
41-100462	47mm	0.1µm
41-100442	47mm	0.22µm
41-100452	47mm	0.45µm
41-100463	90mm	0.1µm
41-100443	90mm	0.22µm
41-100453	90mm	0.45µm
41-100464	142mm	0.1µm
41-100444	142mm	0.22µm
41-100454	142mm	0.45µm
41-100465	293mm	0.1µm
41-100445	293mm	0.22µm
41-100455	293mm	0.45µm

POLYPROPYLENE

Features:

- Hydrophobic, high resistance to solvents
- High density with high capacity
- Wide range of chemical compatibility to organic solvents
- Ideal for biological sample filtration
- Low protein binding
- Ideal for chromatography protein analysis and biological sample filtration
- Suitable for acids and bases and general HPLC analysis

Cat. No.	Diameter	Pore Size
41-100490	25mm	0.22µm
41-100500	25mm	0.45µm
41-100491	47mm	0.22µm
41-100501	47mm	0.45µm
41-100492	90mm	0.22µm
41-100502	90mm	0.45µm
41-100493	142mm	0.22µm
41-100503	142mm	0.45µm
41-100494	293mm	0.22µm
41-100504	293mm	0.45µm

GLASS FIBER

Features:

- Binder Free
- Commonly used as pre-filters for membranes to remove large particulates and prevent the membrane from silting up
- Extends the loading capacity of filter membranes
- High flow rate and high permeability to air
- Reduce filtration costs and premature clogging of membranes when filtering difficult or highly contaminated solutions
- Excellent wet strength for easy handling and filter integrity

Cat. No.	Diameter	Pore Size
41-100530	21mm	0.7µm
41-100550	21mm	1.0µm
41-100510	21mm	1.2µm
41-100531	24mm	0.7µm
41-100551	24mm	1.0µm
41-100511	24mm	1.2µm
41-100532	25mm	0.7µm
41-100552	25mm	1.0µm
41-100512	25mm	1.2µm
41-100533	37mm	0.7µm
41-100553	37mm	1.0µm
41-100513	37mm	1.2µm
41-100534	47mm	0.7µm
41-100554	47mm	1.0µm
41-100514	47mm	1.2µm
41-100535	50mm	0.7µm
41-100555	50mm	1.0µm
41-100515	50mm	1.2µm

Cat. No.	Diameter	Pore Size
41-100536	55mm	0.7µm
41-100556	55mm	1.0µm
41-100516	55mm	1.2µm
41-100537	70mm	0.7µm
41-100557	70mm	1.0µm
41-100517	70mm	1.2µm
41-100538	90mm	0.7µm
41-100558	90mm	1.0µm
41-100518	90mm	1.2µm
41-100539	110mm	0.7µm
41-100559	110mm	1.0µm
41-100519	110mm	1.2µm
41-100540	125mm	0.7µm
41-100560	125mm	1.0µm
41-100520	125mm	1.2µm
41-100541	142mm	0.7µm
41-100561	142mm	1.0µm
41-100521	142mm	1.2µm
41-100542	293mm	0.7µm
41-100522	293mm	1.2µm

S/S Single and Multiple Station Vacuum Filtration Systems

All Greyhound Vacuum Filtration Devices are made of stainless steel which is suitable for filtration, especially in the microbiological field.

- Each station uses a separate control valve for independent operation, is easy to use and to disinfect.
- The multiple unit systems can filtrate three or six samples at the same time at a low flow rate, with high sensitivity.
- Sturdy won't tip when fully loaded due to the units having a low centre of gravity.
- Anodized aluminum handles on both ends are designed for positioning on a benchtop.

Cat. No.	Description
41-100600	Stainless steel manifold One 300mL stainless steel filtration unit One glass collection bottle One length of hosepipe
41-100601	Stainless steel manifold One 300mL glass filtration unit One glass collection bottle, One length of hosepipe
41-100602	Stainless steel manifold Three 300mL stainless steel filtration units One glass collection bottle, One length of hosepipe
41-100603	Stainless steel manifold Three 300mL glass filtration units One glass collection bottle, One length of hosepipe
41-100604	Stainless steel manifold Six 300mL stainless steel filtration units One glass collection bottle, One length of hosepipe
41-100605	Stainless steel manifold Six 300mL glass filtration units One glass collection bottle, One length of hosepipe
41-100610	Stainless Steel Manifold, single unit
41-100611	Stainless Steel Manifold, three unit
41-100612	Stainless Steel Manifold, six unit
41-100613	Glass Funnel, 300mL
41-100614	Stainless Steel Funnel, 300mL

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Glass Vacuum Filtration System

Greyhound Solvent Filtration Apparatus are used for the filtration of HPLC mobile phases, to remove particulate and microbiological contaminants. Manufactured of durable borosilicate glass for use with aqueous, organic or corrosive liquids.

Can be sterilised in an autoclave at 121°C.

The base design has an integral vacuum connection located above the filtrate drip to prevent contamination of the vacuum line with droplets.

Unit consists of a funnel, coarse porosity fritted glass filter support base with integral vacuum connection and a flask with inner joint. An aluminium clamp connects the funnel and support base.

41-100620

Cat. No.	Description
41-100620	Glass Solvent Filtration Apparatus - 300mL for 47mm dia. filters Graduated glass funnel, fritted glass base with side arm, joint flask, anodized aluminium clamp, vacuum hose
41-100621	Glass Solvent Filtration Apparatus - 500mL for 47mm dia. filters Graduated glass funnel, fritted glass base with side arm, joint flask, anodized aluminium clamp, vacuum hose
41-100622	Glass Funnel - 300mL
41-100623	Glass Funnel - 500mL
41-100624	Glass Solvent Collection Flask - 1000mL
41-100625	Glass Solvent Collection Flask - 2000mL
41-100626	Glass Filter Head Kit (includes 300mL Glass Funnel, Fritted Glass Base, Clamp, Silicone stopper)
41-100627	Glass Filter Head Kit (includes 500mL Glass Funnel, Fritted Glass Base, Clamp, Silicone stopper)
41-100628	Aluminium Clamp

41-100626

41-100624

41-100622

41-100628

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Simply Quality

Greyhound Q-Fil Membrane Filters

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