

The Helapet logo features the brand name in a bold, blue, sans-serif font. A thin blue arc is positioned above the 'e' in 'pet'. Below the brand name is a horizontal blue line.

# Helapet

A CliniMed® Group Company

The image shows several Helapet inline disc filters. They are white, circular, and have two ports for tubing. One filter is prominently displayed in the foreground, showing its internal disc structure. Another filter is partially visible behind it, and a third is in the background. The filters are set against a blue background with a white circular graphic element on the right side.

## Inline Disc Filters

- + Customised inline disc filtration for a wide range of applications
- + Free bespoke sample production
- + Wide variety of media and connector options
- + Low production volumes at competitive prices
- + Personalised with your company logo or brand using Tampro print technology
- + Etched lot numbers to enable full traceability as part of the quality control process

# Vari-Disk® Service

## Inline disc filters to meet your needs

When you require something special, Helapet offer unrivalled flexibility in developing and manufacturing inline disc filters both as off-the-shelf products or custom made specials. We provide filters for a wide range of markets including pharmaceutical, environmental monitoring, print, food and drink and electronics. Helapet strive to introduce added value to our filtration products, using consultancy based manufacturing to meet customer expectations. Our expert team can offer you low volumes at competitive prices by designing your filters to your specification.

Enhance your filter by choosing from a wide range of media, inlet and outlet connector options. Available in either 24mm, 25mm or 50mm disc filters as standard.

### Inlet and outlet connectors

#### Stepped hose barb



3/16" – 1/4"  
(50mm filter only)



1/4" – 3/8"  
(50mm filter only)



3/8" – 1/2"  
(50mm filter, outlet only)



3/16"  
(25mm filter only)

#### Luer type



Male Luer Lock  
(25mm and 50mm filter)



Female Luer Lock  
(25mm and 50mm filter)



Male Luer Slip  
(24mm and 25mm filter)

#### Other types



1/8" National pipe thread  
(NPT)  
(50mm filter only)



1/8" British standard pipe  
thread (BSPT)  
(50mm filter only)



Cut flush  
(50mm filter only)

### Filter housing

All of our housings are manufactured using FDA approved virgin Borealis polypropylene (USP Class 6), the first choice for chemical compatibility and durability.

## Filter media

We have access to a wide range of media in a variety of pore sizes, ensuring we can offer you the correct filter for your requirements. Whether you need to remove particulates from liquids or gases, sterilise solutions or protect instrumentation Helapet are equipped to supply the correct solution.

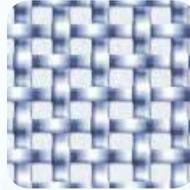
### Depth media

Depth media can provide an optimal capacity whilst providing high flow rates, making this ideal for gas applications.



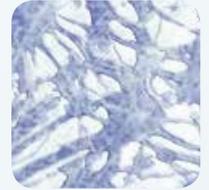
### Woven screen

Multiple options available, each designed for an absolute level of filtration from 1µm to 100µm.



### Micro-porous membrane

Membranes are chosen for their strength, broad range of chemical and thermal stability, supporting critical applications where flow rates matter.



Our media are provided for a wide variety of different applications, including:

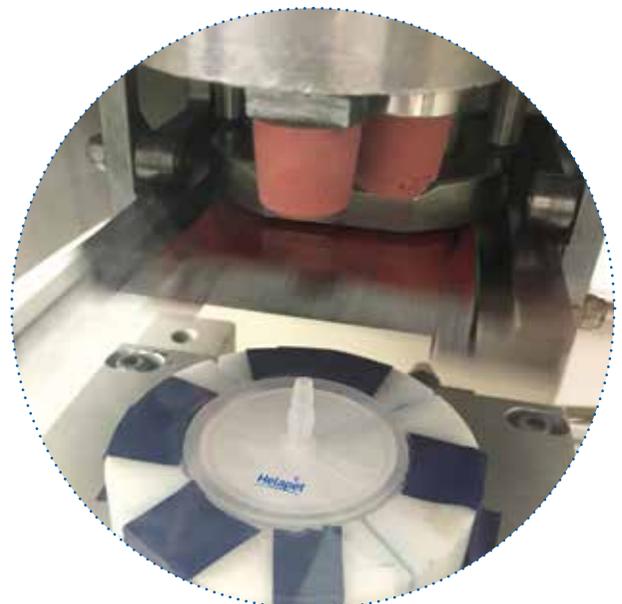
Media Name	Media Type	Description	Typical Applications*
<b>Polytetrafluoroethylene (PTFE)</b>	Micro-porous membrane	Hydrophobic micro-porous media to resist moisture in air, protecting instruments against contamination	Gas analysis Vacuum pumps Micro-breweries
<b>Polyethersulphone (PES)</b>	Micro-porous membrane	Low-protein binding hydrophilic media, recommended for filtering cell culture media whilst allowing faster flow rates	Biopharmaceutical engineering Sterile vents Liquid filling and packaging
<b>Activated carbon</b>	Depth media	An activated media providing high performance properties to control odour	Smoke removal Exhaust fumes
<b>High efficiency particulate air/ arrestance (HEPA)</b>	Depth media	Ideal for gas filtration where high flow rates are required. Laminated to prevent shedding. Providing 99.97% retention of >0.3µm particles	Gas control equipment Incubators Autoclaves Fire testing
<b>Nylon</b>	Woven screen	Hydrophilic media with high tensile strength, the chemical compatibility/resistance makes it ideal for filtration of high purity chemicals	Life science applications Filtration of proteins and macromolecules
<b>Woven Polyester (WPE)</b>	Woven screen	Ideal for large particle removal, providing filtration for ink in large printers	Industrial ink jet printers Coding and marking
<b>Stainless Steel</b>	Woven screen		

\*If your application is not mentioned in the list above then please contact your dedicated account manager who will be able to assist you further.

## Customised printing

As part of our OEM service we can print your branding, company logo, instructions or part numbers directly onto your filter design. Our specialist Tampro printing technology can raise brand awareness and customer loyalty by promoting your brand on each part.

Filter printing can be carried out on both the inlet and outlet sides, providing a modern design and contemporary look to any application.



**For information on our custom manufacturing service contact**

☎ +44 (0)1582 501980

✉ [sales@helapet.co.uk](mailto:sales@helapet.co.uk)

🌐 [helapet.co.uk](http://helapet.co.uk)

# Common Applications

## Gas Analyser Filters

Helapet inline gas analyser filters use high performance microporous PTFE or HEPA media to protect sensitive components within hand-held and static analysers from the ingress of particulates and moisture, whilst maintaining optimum flow rates. Ideal for volatile organic compounds (VOCs), each replaceable filter can be securely applied inline using hose barb inlet/outlet connections.

### Features & Benefits

- PTFE rated at 99.9999% particle retention
- Ensuring safety of sensitive electronics whilst maximising flow rates
- Ideal for gas analysers, pneumatics and moisture sensitive equipment
- Customisable to specific filtration requirements

### Technical Information

Standard media used	PTFE (Polytetrafluoroethylene) HEPA (High-Efficiency Particulate Air/Arrestor)	
Standard micron size	0.3µm / 1.0µm	
Standard connector options	Inlet	1/4" hose barb / 3/16" hose barb
	Outlet	1/4" hose barb / 3/16" hose barb
Filter sizes	25mm	50mm
Filtration area	4.23cm <sup>2</sup>	17.35cm <sup>2</sup>
Maximum pressure	Up to 60psi (4.14 bar)	Up to 50psi (3.44 bar)
Application	Instrumentation protection from moisture and particulates	
Standard pack size	25 or 50 pieces per pack	20 or 25 pieces per pack



## Autoclave Disc Filters

Helapet autoclave disc filters use high performance 0.3µm HEPA media for particulate removal of up to 99.97%, whilst allowing air to transfer in and out of an autoclave during the drying process. Each replaceable filter provides assured transfer of air, allowing for a bi-directional flow.

### Features & Benefits

- Ideal for autoclaves or gas filtration
- Hydrophobic filters
- Bi-directional flow

### Technical Information

Standard media used	HEPA (High-Efficiency Particulate Air/Arrestor)	
Standard micron size	0.3µm	
Standard connector options	Inlet	1/4" stepped barb / 3/16" straight barb / 1/8" British Standard Pipe Thread
	Outlet	1/4" stepped barb / 3/16" straight barb / Cut Flush
Filter size	50mm	
Filtration area	17.35cm <sup>2</sup>	
Maximum pressure	Up to 50psi (3.44 bar)	
Application	Allowing sterile air to transfer in and out of an autoclave during the drying process	
Standard pack size	20 or 25 pieces per pack	



## Pipette Controller Disc Filters

Available as standard using either a 0.2µm or 0.45µm microporous PTFE media, the hydrophobic properties protect the instrumentation from moisture. Designed to universally fit inside standard pipette controllers with male luer slip inlet and outlet connections, allowing a secure fit onto the majority of manual pipette controllers.

### Features & Benefits

- High particle retention
- Hydrophobic PTFE media
- Avoid contamination in critical applications

### Technical Information

Standard media used	PTFE (Polytetrafluoroethylene)	
Standard micron size	0.2µm / 0.45µm	
Standard connector options	Inlet	Male luer slip
	Outlet	Male luer slip
Filter size	24mm	
Filtration area	4.23cm <sup>2</sup>	
Maximum pressure	Up to 60psi (4.14 bar)	
Application	Instrumentation protection from moisture and particulates	
Standard pack sizes	25 or 50 pieces per pack	



# Vacuum Pump Disc Filters

Vacuum pump inline filters are designed for vacuum suction devices to prevent contamination by particulates ensuring protection to the instrument.

Our standard vacuum pump disc filters use a 0.45µm hydrophobic PTFE membrane to protect the vacuum pump from moisture within gas. A 1/4" hose barb inlet and outlet connection allows the filter to secure with standard tubing.

## Features & Benefits

- Avoids contamination in critical applications
- Helps protect the instrument from particulate contamination and moisture damage
- Easy to apply and remove from tubing
- Customisable to specific filtration requirements

## Technical Information

Standard media used	PTFE (Polytetrafluoroethylene)	
Standard micron size	0.45µm	
Standard connector options	Inlet	1/4" hose barb
	Outlet	1/4" hose barb
Filter size	50mm	
Filtration area	17.35cm <sup>2</sup>	
Maximum pressure	Up to 50psi (3.44 bar)	
Application	Instrument protection from moisture damage	
Standard pack size	20 or 25 pieces per pack	



# CO<sub>2</sub> Incubator Disc Filters

CO<sub>2</sub> incubator disc filters fit directly on to any standard desktop CO<sub>2</sub> incubator to resist contaminants from entering the chamber. Each CO<sub>2</sub> incubator disc filter is available using a high-performance PTFE membrane which filters particulates to prevent contamination, whilst resisting moisture and ensuring excellent flow rates.

## Features & Benefits

- Hydrophobic rated filters, ideal for retention of moisture in air
- Protects CO<sub>2</sub> incubators from contamination and moisture damage
- Customisable to specific filtration requirements

## Technical Information

Standard media used	PTFE (Polytetrafluoroethylene)	
Standard micron size	0.2µm	
Standard connector options	Inlet	1/4" stepped barb / 1/8" national pipe thread
	Outlet	1/4" stepped barb / 1/8" national pipe thread
Filter size	50mm	
Filtration area	17.35cm <sup>2</sup>	
Maximum pressure	Up to 50psi (3.44 bar)	
Application	Air venting – allows gases to pass through whilst repelling moisture	
Standard pack size	20 or 25 pieces per pack	



# Ink Jet Disc Filters

Supporting print quality and efficiency, our replaceable ink jet filters are specifically designed as a pre-pump filter that can prevent the risk of blockage in industrial printers. Operating at medium to high pressures, each standard ink-jet filter is manufactured with a 40µm woven polyester (WPE) or stainless steel screen media for large particulate.

## Features & Benefits

- Tested to withstand up to 50psi, allowing positioning on high pressure lines
- Available 1µm to 100µm sizes
- Customisable to specific filtration requirements

## Technical Information

Standard media used	Woven Polyester (WPE)	
Standard micron size	40µm	
Standard connector options	Inlet	1/8" National Pipe Thread + 6mm JACO Connector
	Outlet	1/8" National Pipe Thread + 6mm JACO Connector
Filter size	50mm	
Filtration area	17.35cm <sup>2</sup>	
Maximum pressure	Up to 50psi (3.44 bar)	
Application	Ink jet printers	
Standard pack sizes	20 or 25 pieces per pack	



# Standard Disc Filters

Our standard parts contain our most requested combinations to suit a wide range of applications.

Product Code	Size	Media	Inlet	Outlet	Sales Unit
FH4235	24mm	0.2µm PTFE	Male Luer Slip	Male Luer Slip	50 pcs/pck
FH4335	24mm	0.45µm PTFE	Male Luer Slip	Male Luer Slip	50 pcs/pck
FH0315	25mm	0.2µm PTFE	Female Luer Lock	Male Luer Slip	50 pcs/pck
FH0371	25mm	0.3µm HEPA	3/16" Stepped Hose Barb	3/16" Stepped Hose Barb	50 pcs/pck
FH3375	25mm	1.0µm PTFE	3/16" Stepped Hose Barb	3/16" Stepped Hose Barb	50 pcs/pck
FH0595	50mm	0.2µm PTFE	1/8" NPT	1/8" NPT	20 pcs/pck
FH0555	50mm	0.2µm PTFE	1/4" Stepped Hose Barb	1/4" Stepped Hose Barb	20 pcs/pck
FH1551	50mm	0.3µm HEPA	1/4" Stepped Hose Barb	1/4" Stepped Hose Barb	20 pcs/pck
FH5581	50mm	0.3µm HEPA	3/16" Stepped Hose Barb	3/16" Stepped Hose Barb	20 pcs/pck
FH25101	50mm	0.3µm HEPA	1/8" BSPT	Cut Flush	20 pcs/pck
FH8555	50mm	0.45µm PTFE	1/4" Stepped Hose Barb	1/4" Stepped Hose Barb	20 pcs/pck
FH3575	50mm	1.0µm PTFE	3/16" Stepped Hose Barb	3/16" Stepped Hose Barb	20 pcs/pck
FH3555	50mm	1.0µm PTFE	1/4" Stepped Hose Barb	1/4" Stepped Hose Barb	20 pcs/pck
FH3597	50mm	40µm WPE	1/8" NPT	1/8" NPT + Jaco connector	20 pcs/pck

## Giving you more than just a filter

Helapet's range of standard and bespoke inline disposable disc filters are manufactured in-house by our cleanroom team in an ISO Class 8 rated cleanroom facility, equipped with the latest machinery and tooling to provide a quick yet highly accurate output.

Supported by the ongoing implementation of Lean methods, lead times between initial designs to completed product continue to shorten for the benefit of our valued customers.



### Testing and validation

- ✓ Bubble point tested
- ✓ Clean pressure drop
- ✓ Water-entry-pressure
- ✓ Media integrity
- ✓ Flow rate
- ✓ Pressure testing

### Printing

Customise the way your filter looks using our tampo print technology to add your very own company logo, brand or information.

### Sterilisation

Each filter device can be supplied non sterile or Ethylene Oxide (ETO) sterilised.



### In-process consultancy

Our dedicated Filter Specialist works closely with you, using CAD software packages to produce design visuals for approval.

### Sampling

Try before you buy with free samples.

### Traceability

Lot number etched directly onto our filters provide full traceability.



# Order Information

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