

Eclipse Accessories and Consumables



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Eclipse™ Accessories and Consumables

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Overview: Channels

Five channel types are available to accommodate the widest range of FFF applications. The different uses of Short, Long, Dispersion Inlet, Semi-Preparative and Mobility channels are outlined in this guide. Every channel includes a Dilution Control Module port for use with the Eclipse DCM option and built-in temperature regulation to ensure highly reproducible methods. Eclipse channels are constructed from 316 stainless steel which eliminates flex and creep while imparting compatibility with all types of solvents. Wyatt Technology is committed to continual improvement. Parts and specifications are subject to change without notice.



Left to right: Short, Long, Dispersion Inlet (variable-height), Semi-Prep and Mobility fixed-height channels

Overview: Channel Comparison

Wyatt Technology offers both fixed- and variable-height channel designs. The fixed-height channels incorporate the spacer in the channel top block while the variable-height channels use interchangeable spacers with different thicknesses.

Fixed-Height Channels



Variable-Height Channels



Key Features and Benefits

- Top plates with integrated channel heights eliminate the need for a spacer
- Ideal for routine and QC applications
- Robust channel sealing without the need for a torque wrench for faster assembly
- Spacer-free design reduces consumable waste—simply replace the membrane as needed
- Recommended for use with organic solvents

Key Features and Benefits

- Interchangeable spacers of variable heights
- Offer the greatest flexibility

Overview: Membranes and Spacers

Membranes are available in two materials, regenerated cellulose and polyethersulfone, and in a variety of molecular weight cut-offs (MWCO), which are based on linear polymer retention and will correspond to different pore sizes. Spacers for the variable-height channels are available in two materials: PTFE-coated polycarbonate for top-quality sealing in aqueous solvents, and Mylar for organic as well as aqueous solvents. Spacers may be selected from a range of thicknesses to optimize separation.



Membrane Compatibility		
Criterion	Material	
	Polyethersulfone	Regenerated Cellulose
Protein binding	Low	Very Low
DNA binding	Very Low	Low
Chemical resistance	Low	Very High
pH range*	0-14	2-10
Tendency of interacting with hydrophobic groups	Higher	Lower
Tendency of interacting with cationic groups	Higher	Lower
Tendency of interacting with anionic groups	Lower	Higher
Compatible with organic solvents	No	Full compatibility: THF, toluene Short-term compatibility: DMF

* The upper limit of pH for Wyatt Technology's MALS instruments is 11.

Should you need membranes made from other materials, please contact Wyatt Technology.



Spacer Compatibility (for variable-height channels only)		
Criterion	Material	
	Mylar	PTFE-laminated Polycarbonate
Compatible with organic solvents	Full compatibility: THF, toluene Short-term compatibility: DMF	No
Sealing quality	Standard sealing, somewhat reduced sample recovery may be experienced	Excellent sealing, with no leaks or sample loss expected
Re-usability	Reusable – spacers can typically be reused for multiple channel assemblies and may be replaced annually or when damage to the spacer is observed	Not re-usable - spacers must be replaced with each membrane change

Eclipse Short Channel — Fixed-Height

The fixed-height Short Channel is suitable for separating a wide range of samples and can be used as a general-purpose analytical channel for feasibility testing and method development. This channel has less sample dilution, shorter run times and less solvent consumption compared to the other channels. The Short Channel is especially suitable for protein characterization. The fixed-height channel design offers the best reproducibility and ease of use while maintaining flexibility with 250 μm , 350 μm and 500 μm channel height options.

Instrument Compatibility: Eclipse (NEON)



Dimensions

Length: 215 mm

Width: 64 mm

Fixed-Height Short Channel		
Item	Description	P/N
Short Channel	The complete fixed-height Short Channel kit includes one channel and 10 membranes (5 each polyethersulfone, 10 kDa MWCO and regenerated cellulose, 10 kDa MWCO). The fixed-height options are 250 μm , 350 μm and 500 μm .	WSC-250W (250 μm option) WSC-350W (350 μm option) WSC-500W (500 μm option)
Spare parts	Eclipse Short Channel top block, fixed-height options (250 μm , 350 μm and 500 μm)	WSCT-250W (250 μm option) WSCT-350W (350 μm option) WSCT-500W (500 μm option)
	Eclipse Short Channel bottom block, fixed-height	WSCB
	Eclipse Short Channel temperature regulator - ambient to 50 °C	WSTR
	O-Ring for Eclipse Short Channel bottom block	P6510-FFKM250
	O-Ring for Eclipse Short Channel top block, fixed-height	P6510-FFKM046
	Shim for Eclipse Short Channel, fixed-height	S5937-60062
	Screw for Eclipse Short Channel	S5002-6020

Eclipse Short Channel — Variable-Height

The variable-height Short Channel is suitable for separating a wide range of samples and can be used as a general-purpose analytical channel for feasibility testing and method development. This channel has less sample dilution, shorter run times and less solvent consumption compared to the other channels. The Short Channel is especially suitable for protein characterization.

Instrument Compatibility: Eclipse (NEON)



Dimensions

Length: 215 mm

Width: 64 mm

Variable-Height Short Channel		
Item	Description	P/N
Short Channel	The complete variable-height Short Channel kit includes one channel, 10 membranes (5 each polyethersulfone, 10 kDa MWCO and regenerated cellulose, 10 kDa MWCO) and 15 PTFE-laminated polycarbonate spacers (5 each 275 µm, 400 µm and 525 µm).	WSC
Spare parts	Eclipse Short Channel top block, variable-height	Please inquire
	Eclipse Short Channel bottom block, variable-height	Please inquire
	Eclipse Short Channel temperature regulator - ambient to 50 °C	WSCTR
	O-Ring for Eclipse Short Channel	P6510-FFKM250
	Eclipse Short Channel frit, variable-height	177144-7CL
	Screw for Eclipse Short Channel	S5002-6020
	Washer for Eclipse Short Channel, variable-height	S5901-60

Eclipse Short Channel

Short Channel – Membranes			
Material	Molecular Weight Cutoff	pH Range	P/N
Polyethersulfone	5 kDa	0-14	900326-SC05PES1
Polyethersulfone	10 kDa	0-14	900326-SC10PES1
Polyethersulfone	30 kDa	0-14	900326-SC30PES1
Regenerated cellulose	2 kDa	2-10	900326-SC02RC2
Regenerated cellulose	5 kDa	2-10	900326-SC05RC2
Regenerated cellulose	10 kDa	2-10	900326-SC10RC1
Regenerated cellulose	30 kDa	2-10	900326-SC30RC1

Short Channel membranes come in packs of 5.

Regenerated cellulose 2 kDa and 5 kDa membranes are not compatible with Mylar spacers.

For membranes with a different MWCO size or made from other materials, please contact Wyatt Technology.

Short Channel – Spacers (for variable-height channels only)			
Material	Description	Height	P/N
Mylar	1 spacer	250 µm	900327-SC250WM
Mylar	1 spacer	350 µm	900327-SC350WM
Mylar	1 spacer	490 µm	900327-SC490WM
Mylar	Set of 3 spacers	1 of each: 250 µm, 350 µm, 490 µm	900327-SCMVAR
PTFE-laminated polycarbonate	Set of 5 spacers	275 µm	900327-SC275WL
PTFE-laminated polycarbonate	Set of 5 spacers	400 µm	900327-SC400WL
PTFE-laminated polycarbonate	Set of 5 spacers	525 µm	900327-SC525WL

See page 5 for membrane and spacer solvent compatibility.

Eclipse Long Channel — Fixed-Height

The fixed-height Long Channel is suitable for a wide range of applications ranging from proteins to particles, and is especially suited for higher sample loads, e.g. quantification of antibody aggregates. Extremely low cross-flow densities are achievable due to the high membrane area, which is advantageous when performing low-level cross-flow gradients for particle analysis or to minimize shear of very large macromolecules. The fixed-height channel design offers the best reproducibility and ease of use while maintaining flexibility with 250 μm , 350 μm and 500 μm channel height options.

Instrument Compatibility: Eclipse (NEON)



Dimensions

Length: 309 mm

Width: 64 mm

Eclipse Long Channel — Fixed-Height

Fixed-Height Long Channel		
Item	Description	P/N
Channel	The complete fixed-height Long Channel kit includes one channel and 10 membranes (5 each polyethersulfone and 10 kDa MWCO and regenerated cellulose, 10 kDa MWCO). The fixed-height options are 250 µm, 350 µm and 500 µm.	WLC-250W (250 µm option) WLC-350W (350 µm option) WLC-500W (500 µm option)
Spare parts	Eclipse Long Channel top block, fixed-height options (250 µm, 350 µm and 500 µm)	WLCT-250W (250 µm option) WLCT-350W (350 µm option) WLCT-500W (500 µm option)
	Eclipse Long Channel bottom block, fixed-height	WLCB
	Eclipse Channel temperature regulator, Long or Dispersion Inlet Channel - ambient to 50 °C	WLCTR
	O-Ring for Eclipse Long, Dispersion Inlet or Mobility Channel bottom block	P6510-FFKM264
	O-Ring for Eclipse Long or Mobility Channel top block, fixed-height	P6510-FFKM055
	Shim for Eclipse Long Channel, fixed-height	S5937-60062
	Screw for Eclipse Long Channel	S5002-6020

Eclipse Long Channel — Variable-Height

The variable-height Long Channel is suitable for a wide range of applications ranging from proteins to particles, and is especially suited for higher sample loads, e.g. quantification of antibody aggregates. Extremely low cross-flow densities are achievable due to the high membrane area, which is advantageous when performing low-level cross-flow gradients for particle analysis or to minimize shear of very large macromolecules.

Instrument Compatibility: Eclipse (NEON)



Dimensions

Length: 309 mm

Width: 64 mm

Variable-Height Long Channel		
Item	Description	P/N
Channel	The complete variable-height Long Channel kit includes one channel, 10 membranes (5 each polyethersulfone, 10 kDa MWCO and regenerated cellulose, 10 kDa MWCO) and 15 PTFE-laminated polycarbonate spacers (5 each 275 µm, 400 µm and 525 µm).	WLC
Spare parts	Eclipse Long Channel top block, variable-height	Please inquire
	Eclipse Long Channel bottom block, variable-height	Please inquire
	Eclipse Channel temperature regulator, Long or Dispersion Inlet Channel - ambient to 50 °C	WLCTR
	O-Ring for Eclipse Long, Dispersion Inlet or Mobility Channel	P6510-FFKM264
	Eclipse Long Channel 10 µm frit	177170-7CL
	Screw for Eclipse Long Channel	S5002-6020
	Washer for Eclipse Long Channel, variable-height	S5901-60

Eclipse Long Channel

Long Channel – Membranes			
Material	Molecular Weight Cutoff	pH Range	P/N
Polyethersulfone	5 kDa	0-14	900326-LC05PES1
Polyethersulfone	10 kDa	0-14	900326-LC10PES1
Polyethersulfone	30 kDa	0-14	900326-LC30PES1
Regenerated cellulose	2 kDa	2-10	900326-LC02RC2
Regenerated cellulose	5 kDa	2-10	900326-LC05RC2
Regenerated cellulose	10 kDa	2-10	900326-LC10RC1
Regenerated cellulose	30 kDa	2-10	900326-LC30RC1

Long Channel membranes come in packs of 5 and are also compatible with the Dispersion Inlet Channel and Mobility Channel. For membranes with a different MWCO size or made from other materials, please contact Wyatt Technology.

Long Channel – Spacers (for variable-height channels only)			
Material	Description	Height	P/N
Mylar	1 spacer	250 μm	900327-LC250WM
Mylar	1 spacer	350 μm	900327-LC350WM
Mylar	1 spacer	490 μm	900327-LC490WM
Mylar	Set of 3 spacers	1 of each: 250 μm , 350 μm , 490 μm	900327-LCMVAR
PTFE-laminated polycarbonate	Set of 5 spacers	275 μm	900327-LC275WL
PTFE-laminated polycarbonate	Set of 5 spacers	400 μm	900327-LC400WL
PTFE-laminated polycarbonate	Set of 5 spacers	525 μm	900327-LC525WL

Long Channel spacers are only compatible with the Long Channel and the Mobility Channel. See page 5 for membrane and spacer solvent compatibility.

Eclipse Dispersion Inlet Channel — Variable-Height

The variable-height Dispersion Inlet Channel is able to separate samples without focusing. It is the channel of choice for samples that tend to stick to the membrane or aggregate at high concentrations; e.g., hyaluronic acid, liposomes and antibodies.

Instrument Compatibility: Eclipse (NEON)



Dimensions

Length: 309 mm

Width: 64 mm

Variable-Height Dispersion Inlet Channel		
Item	Description	P/N
Channel	The complete variable-height Dispersion Inlet Channel kit includes one channel, 10 membranes (5 each polyethersulfone, 10 kDa MWCO and regenerated cellulose, 10 kDa MWCO) and 15 PTFE-laminated polycarbonate spacers (5 each 275 μm , 400 μm and 525 μm).	WDC
Spare parts	Eclipse Dispersion Inlet Channel top block, variable-height	Please inquire
	Eclipse Dispersion Inlet Channel bottom block, variable-height	Please inquire
	Eclipse Channel temperature regulator, Long or Dispersion Inlet Channel - ambient to 50 $^{\circ}\text{C}$	WLCTR
	Dispersion frit inlay	Please inquire
	O-Ring for Eclipse Long, Dispersion Inlet or Mobility Channel	P6510-FFKM264
	Eclipse Dispersion Inlet Channel 10 μm frit	177170-7CL
	Screw for Eclipse Dispersion Inlet Channel	S5002-6020
	Washer for Eclipse Dispersion Inlet Channel, variable-height	S5901-60

Eclipse Dispersion Inlet Channel

Dispersion Inlet Channel – Membranes			
Material	Molecular Weight Cutoff	pH Range	P/N
Polyethersulfone	5 kDa	0-14	900326-LC05PES1
Polyethersulfone	10 kDa	0-14	900326-LC10PES1
Polyethersulfone	30 kDa	0-14	900326-LC30PES1
Regenerated cellulose	2 kDa	2-10	900326-LC02RC2
Regenerated cellulose	5 kDa	2-10	900326-LC05RC2
Regenerated cellulose	10 kDa	2-10	900326-LC10RC1
Regenerated cellulose	30 kDa	2-10	900326-LC30RC1

Dispersion Inlet Channel membranes come in packs of 5 and are also compatible with the Long Channel and Mobility Channel. For membranes with a different MWCO size or made from other materials, please contact Wyatt Technology.

Dispersion Inlet Channel – Spacers (for variable-height channels only)			
Material	Description	Height	P/N
PTFE-laminated polycarbonate	Set of 5 spacers	275 μm	900327-DC275WL
PTFE-laminated polycarbonate	Set of 5 spacers	400 μm	900327-DC400WL
PTFE-laminated polycarbonate	Set of 5 spacers	525 μm	900327-DC525WL

The Dispersion Inlet Channel spacers are NOT compatible with Long Channel or Mobility Channel. See page 5 for membrane and spacer solvent compatibility.

Eclipse Semi-Preparative Channel — Fixed-Height

The fixed-height Semi-Preparative Channel has the same length but twice the width of the standard long channel. Up to 10x more mass may be injected relative to the Long Channel and 100x more relative to the Short Channel. It is used to isolate usable fractions of purified material, e.g. proteins, exosomes or particles. A typical maximum loading is 15 mg. The fixed-height channel design offers the best reproducibility and ease of use while maintaining flexibility with 400 μm , 525 μm , 650 μm and 900 μm channel height options.

Instrument Compatibility: Eclipse (NEON)



Dimensions

Length: 306 mm

Width: 87 mm

Eclipse Semi-Preparative Channel — Fixed-Height

Fixed-Height Semi-Preparative Channel		
Item	Description	P/N
Channel	The complete fixed-height Semi-Preparative Channel kit includes one channel and 10 membranes (5 each polyethersulfone and 10 kDa MWCO and regenerated cellulose and 10 kDa MWCO). The fixed-height options are 400 µm, 525 µm, 650 µm and 900 µm.	WSP-400XW (400 µm option) WSP-525XW (525 µm option) WSP-650XW (650 µm option) WSP-900XW (900 µm option)
Spare parts	Eclipse Semi-Preparative Channel top block, fixed-height options (400 µm, 525 µm, 650 µm and 900 µm)	WSPT-400XW (400 µm option) WSPT-525XW (525 µm option) WSPT-650XW (650 µm option) WSPT-900XW (900 µm option)
	Eclipse Semi-Preparative Channel bottom block, fixed-height	Please inquire
	Eclipse Semi-Preparative Channel temperature regulator - ambient to 50 °C	WSPTR
	O-Ring for Eclipse Semi-Preparative Channel bottom block	P6510-FFKM265
	O-Ring for Eclipse Semi-Preparative Channel top block, fixed-height	P6510-FFKM2x176
	Shim for Eclipse Semi-Preparative Channel, fixed-height	S5937-60062
	Screw for Eclipse Semi-Preparative Channel	S5002-6020

Eclipse Semi-Preparative Channel — Variable-Height

The variable-height Semi-Preparative Channel has the same length but twice the width of the standard long channel. Up to 10x more mass may be injected relative to the Long Channel and 100x more relative to the Short Channel. It is used to isolate usable fractions of purified material, e.g. proteins, exosomes or particles. A typical maximum loading is 15 mg.

Instrument Compatibility: Eclipse (NEON)



Dimensions

Length: 306 mm

Width: 87 mm

Variable-Height Semi-Preparative Channel		
Item	Description	P/N
Channel	The complete variable-height Semi-Preparative Channel kit includes one channel, 10 membranes (5 each polyethersulfone, 10 kDa MWCO and regenerated cellulose, 10 kDa MWCO) and 15 PTFE-laminated polycarbonate spacers (5 each 525 μ m, 650 μ m and 900 μ m).	WSP
Spare parts	Eclipse Semi-Preparative Channel top block, variable-height	Please inquire
	Eclipse Semi-Preparative Channel bottom block, variable-height	Please inquire
	Eclipse Semi-Preparative Channel temperature regulator - ambient to 50 °C	WSPTR
	O-Ring for Eclipse Semi-Preparative Channel	P6510-FFKM265
	Eclipse Semi-Preparative Channel frit, variable-height	177191-7CL
	Screw for Eclipse Semi-Preparative Channel	S5002-6020
	Washer for Eclipse Semi-Preparative Channel, variable-height	S5901-60

Eclipse Semi-Preparative Channel

Semi-Preparative Channel – Membranes			
Material	Molecular Weight Cutoff	pH Range	P/N
Polyethersulfone	5 kDa	0-14	900326-SP05PES1
Polyethersulfone	10 kDa	0-14	900326-SP10PES1
Polyethersulfone	30 kDa	0-14	900326-SP30PES1
Regenerated cellulose	2 kDa	2-10	900326-SP02RC2
Regenerated cellulose	5 kDa	2-10	900326-SP05RC2
Regenerated cellulose	10 kDa	2-10	900326-SP10RC1
Regenerated cellulose	30 kDa	2-10	900326-SP30RC1

Semi-Preparative Channel membranes come in packs of 5.

For membranes with a different MWCO size or made from other materials, please contact Wyatt Technology.

Semi-Preparative Channel – Spacers (for variable-height channels only)			
Material	Description	Height	P/N
PTFE-laminated polycarbonate	Set of 5 spacers	525 μ m	900327-SP525XWL
PTFE-laminated polycarbonate	Set of 5 spacers	650 μ m	900327-SP650XWL
PTFE-laminated polycarbonate	Set of 5 spacers	900 μ m	900327-SP900XWL

See page 5 for membrane and spacer solvent compatibility.

Eclipse Mobility™ Module and Channel

Electrical/asymmetric-flow FFF (EAF4) combines two techniques to determine not just size but also electrophoretic mobility. Application of an electric field to the EAF4 channel shifts the retention time according to the sign and magnitude of the particle's charge to determine zeta potential distributions, even of multimodal and polydisperse populations. Mobility combines an innovative EAF4 channel design with outstanding software control and analysis. The Mobility Module and channel are only compatible with aqueous solvents. VISION 3 software is required to analyze EAF4 measurements and calculate electrophoretic mobility and zeta potential.

Instrument Compatibility*: Eclipse (NEON)

* Requires VISION 3.1 or newer



Mobility		
Item	Description	P/N
Mobility	The Mobility accessory includes the Mobility Channel and the Mobility Module. The Mobility Module includes a conductivity cell, pH cell and connection cable.	WMBL
Spare parts	Mobility Module includes conductivity cell, pH cell and Eclipse connection cable	WMBLM
	Eclipse Mobility calibration standard set (conductivity calibration standards 0.02 S/m, 0.05 S/m and 0.10 S/m, pH calibration standard set P8423 and 5 mL disposable syringe)	900328
	Eclipse Mobility pH calibration standard set (one 475 mL bottle each 4.01, 7 and 10.01 pH Buffer)	P8423
	Nominal 60 nm carboxylate-modified polystyrene latex bead can be used for electrophoretic mobility performance verification	P8424-60

Eclipse Mobility Channel — Fixed-Height



Dimensions

Length: 308 mm

Width: 71 mm

Fixed-Height Mobility Channel		
Item	Description	P/N
Channel	The complete fixed-height Mobility Channel kit includes one channel and 10 membranes (5 each polyethersulfone and 10 kDa MWCO and regenerated cellulose, 10 kDa MWCO). The fixed-height options are 250 μm , 350 μm and 500 μm .	WMBLCT-250W (250 μm option) WMBLCT-350W (350 μm option) WMBLCT-500W (500 μm option)
Spare parts	Mobility Channel top block, fixed-height options (250 μm , 350 μm and 500 μm)	WMBLCT-250W (250 μm option) WMBLCT-350W (350 μm option) WMBLCT-500W (500 μm option)
	Mobility Channel bottom block, fixed-height	Please inquire
	Mobility Channel temperature regulator - ambient to 50 °C	Please inquire
	Shim for Mobility Channel, fixed-height	S5926-6417
	Insulating fiberglass washer for Mobility Channel	S5929-687
	O-Ring for Eclipse Mobility, Dispersion Inlet or Long Channel bottom block	P6510-FFKM264
	O-Ring for Eclipse Mobility or Long Channel top block, fixed-height	P6510-FFKM055
	Screw for Mobility Channel	S5002-6020

Eclipse Mobility Channel — Variable-Height



Dimensions

Length: 308 mm

Width: 71 mm

Variable-Height Mobility Channel		
Item	Description	P/N
Channel	The complete variable-height Mobility Channel kit includes one channel, 10 membranes (5 each polyethersulfone, 10 kDa MWCO and 5 each regenerated cellulose, 10 kDa MWCO) and 15 PTFE-laminated polycarbonate spacers (5 each 275 μ m, 400 μ m and 525 μ m).	WMBLC
Spare parts	Mobility Channel top block, variable-height	Please inquire
	Mobility Channel bottom block, variable-height	Please inquire
	Mobility Channel temperature regulator - ambient to 50 °C	Please inquire
	O-Ring for Eclipse Long, Dispersion Inlet or Mobility Channel	P6510-FFKM264
	Eclipse Mobility Channel frit, variable-height	177170-7CL
	Screw for Eclipse Mobility Channel	S5002-6020
	Washer for Eclipse Mobility Channel, variable-height	S5901-60
	Insulating fiberglass washer for Mobility Channel	S5929-687

Eclipse Mobility Channel

Mobility Channel – Membranes			
Material	Molecular Weight Cutoff	pH Range	P/N
Polyethersulfone	5 kDa	0-14	900326-LC05PES1
Polyethersulfone	10 kDa	0-14	900326-LC10PES1
Polyethersulfone	30 kDa	0-14	900326-LC30PES1
Regenerated cellulose	2 kDa	2-10	900326-LC02RC2
Regenerated cellulose	5 kDa	2-10	900326-LC05RC2
Regenerated cellulose	10 kDa	2-10	900326-LC10RC1
Regenerated cellulose	30 kDa	2-10	900326-LC30RC1

Mobility Channel membranes come in packs of 5 and are also compatible with the Dispersion Inlet Channel and Mobility Channel. Regenerated cellulose 2 kDa and 5 kDa membranes are not compatible with Mylar spacers. For membranes with a different MWCO size or made from other materials, please contact Wyatt Technology.

Mobility – Spacers (for variable-height channels only)			
Material	Description	Height	P/N
Mylar	1 spacer	250 µm	900327-LC250WM
Mylar	1 spacer	350 µm	900327-LC350WM
Mylar	1 spacer	490 µm	900327-LC490WM
Mylar	Set of 3 spacers	1 of each: 250 µm, 350 µm, 490 µm	900327-LCMVAR
PTFE-laminated polycarbonate	Set of 5 spacers	275 µm	900327-LC275WL
PTFE-laminated polycarbonate	Set of 5 spacers	400 µm	900327-LC400WL
PTFE-laminated polycarbonate	Set of 5 spacers	525 µm	900327-LC525WL

Mobility Channel spacers are only compatible with the Long Channel and the Mobility Channel. See page 5 for membrane and spacer solvent compatibility.

Eclipse AF4 and DualTec Short Channels

Instrument Compatibility: Eclipse AF4, Eclipse DualTec – Channels are only compatible with either aqueous or organic solvents. Please inquire with Wyatt Technology if you are interested in repairing or replacing AF4 or DualTec channels.



Dimensions

Length: 202 mm

Width: 56 mm

Short Channel – Membranes				
Material	For Use With	Molecular Weight Cutoff	pH Range	P/N
Polyethersulfone	Aqueous channel	5 kDa	0-14	165669-05
Polyethersulfone	Aqueous channel	10 kDa	0-14	165669-10
Polyethersulfone	Aqueous channel	30 kDa	0-14	165669-30
Regenerated cellulose	Aqueous channel	10 kDa	2-10	165643-10
Regenerated cellulose	Aqueous channel	30 kDa	2-10	165643-30

Short Channel membranes for the Eclipse AF4 and DualTec are sold individually.

For membranes used with organic solvent applications, made from other materials or with a different MWCO size, please contact Wyatt Technology.

Short Channel – Spacers				
Material	Description	Width*	Height	P/N
Mylar	1 spacer	Wide	250 μm	165662-250W
Mylar	1 spacer	Wide	350 μm	165662-350W
Mylar	1 spacer	Wide	490 μm	165662-490W

* Please contact Wyatt for other channel spacer geometries and heights.

See page 5 for membrane and spacer solvent compatibility.

Eclipse AF4 and DualTec Long Channels

Instrument Compatibility: Eclipse AF4, Eclipse DualTec – Channels are only compatible with either aqueous or organic solvents. Please inquire with Wyatt Technology if you are interested in repairing or replacing AF4 or DualTec channels.



Dimensions

Length: 292 mm

Width: 70 mm

Long Channel – Membranes				
Material	For Use With	Molecular Weight Cutoff	pH Range	P/N
Polyethersulfone	Aqueous channel	5 kDa	0-14	165668-05
Polyethersulfone	Aqueous channel	10 kDa	0-14	165668-10
Polyethersulfone	Aqueous channel	30 kDa	0-14	165668-30
Regenerated cellulose	Aqueous channel	10 kDa	2-10	165642-10
Regenerated cellulose	Aqueous channel	30 kDa	2-10	165642-30

Long Channel membranes for the Eclipse AF4 and DualTec, also compatible with the Frit-Inlet Channel, are sold individually. For membranes used with organic solvent applications, made from other materials or with a different MWCO size, please contact Wyatt Technology.

Long Channel – Spacers					
Material	Description	Width*	Height	P/N	
Mylar	1 spacer	Wide	250 µm	165688-250W	
Mylar	1 spacer	Wide	350 µm	165688-350W	
Mylar	1 spacer	Wide	490 µm	165688-490W	

* Please contact Wyatt for other channel spacer geometries and heights.

See page 5 for membrane and spacer solvent compatibility.

Eclipse AF4 Frit-Inlet Channel

Instrument Compatibility: Eclipse AF4 – Frit-Inlet Channel is only compatible with aqueous solvents.



Dimensions

Length: 292 mm

Width: 70 mm

Frit-Inlet Channel – Membranes				
Material	For Use With	Molecular Weight Cutoff	pH Range	P/N
Polyethersulfone	Aqueous channel	5 kDa	0-14	165668-05
Polyethersulfone	Aqueous channel	10 kDa	0-14	165668-10
Polyethersulfone	Aqueous channel	30 kDa	0-14	165668-30
Regenerated cellulose	Aqueous channel	10 kDa	2-10	165642-10
Regenerated cellulose	Aqueous channel	30 kDa	2-10	165642-30

Frit-Inlet Channel membranes for the Eclipse AF4 and DualTec are sold individually. For membranes with a different MWCO size or made from other materials, please contact Wyatt Technology.

Frit-Inlet Channel – Spacers				
Material	Description	Width*	Height	P/N
Mylar	1 spacer	Wide	250 µm	165664-250W
Mylar	1 spacer	Wide	350 µm	165664-350W
Mylar	1 spacer	Wide	490 µm	165664-490W

* Please contact Wyatt for other channel spacer geometries and heights.

See page 5 for membrane and spacer solvent compatibility.

Eclipse AF4 Semi-Preparative Channel

Instrument Compatibility: Eclipse AF4 – Semi-Preparative Channel is only compatible with aqueous solvents.



Dimensions

Length: 298 mm

Width: 98 mm

Semi-Preparative Channel – Membranes				
Material	For Use With	Molecular Weight Cutoff	pH Range	P/N
Polyethersulfone	Aqueous channel	10 kDa	0-14	165670-10
Regenerated cellulose	Aqueous channel	10 kDa	2-10	165671-10
Regenerated cellulose	Aqueous channel	30 kDa	2-10	165671-30

Semi-Preparative Channel membranes for the Eclipse AF4 are sold individually. See page 5 for solvent compatibility. For membranes with a different MWCO size or made from other materials, please contact Wyatt Technology.

Semi-Preparative Channel – Spacers				
Material	Description	Width	Height	P/N
PTFE-laminated polycarbonate	1 spacer	Extra Wide	350 µm	165974-350XW
PTFE-laminated polycarbonate	1 spacer	Extra Wide	490 µm	165974-490XW
PTFE-laminated polycarbonate	1 spacer	Extra Wide	700 µm	165974-700XW
PTFE-laminated polycarbonate	1 spacer	Extra Wide	950 µm	165974-950XW

See page 5 for membrane and spacer solvent compatibility.

Eclipse AF4 and DualTec Channel O-Rings

Eclipse AF4 and DualTec O-Rings		
For Use with Channel	Description	P/N
Short Aqueous	Viton for Eclipse Aqueous Short Channel	P6510-VTNSHT
Short Organic	Kalrez for Eclipse Organic Short Channel	P6510-KRZSHT
Long Aqueous	Viton for Eclipse Aqueous Long Channel and Frit-Inlet Channel	P6510-VTNLNG
Long Organic	Kalrez for Eclipse Organic Long Channel	P6510-KRZLNG
Frit-Inlet	Viton for Eclipse Aqueous Long Channel and Frit-Inlet Channel	P6510-VTNLNG
Semi-Preparative	Viton for Eclipse Semi-Preparative Channel	P6510-VTNSP