

2D Labtainer BioProcess Container (BPC) systems

Small-volume liquid handling systems for cell culture and bioprocessing

Thermo Scientific™ Labtainer™ BioProcess Containers (BPCs) effectively address small-volume liquid handling needs. They range in size from 50 mL to 50 L, with a variety of standard configurations to meet most application needs. These Labtainer BPCs are space saving, ergonomic, and constructed of Thermo Scientific™ Aegis™ 5-14 and CX5-14 films. Product configurations cover a range of industry-standard connection systems; handling systems are available for transport and storage.

Standard products

Standard Labtainer BPCs are stocked for immediate delivery and are fully supported by our process and product validation program. For more information on our validation program, please refer to our validation guides on Aegis5-14 and CX5-14 films. Additionally, standard Labtainer BPCs have validated liquid shipping configurations.

Standard configurations can be customized for optimal fit, form, and function to address process-specific applications, using one of the industry's largest libraries of qualified components.

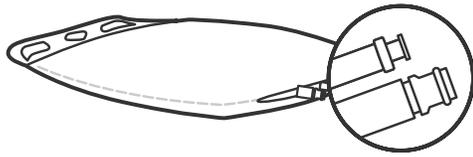


Whether in standard or customized configurations, Labtainer BPCs are ideal for:

- Dispensing, packaging, and storing cell culture media, buffers, and process liquids
- Delivery of cell culture media or process liquids to small-scale bioprocess systems
- Bioreactor and fermentation feed, sampling, and harvest
- Chromatography feed and fraction collection
- Storage and transport of bulk intermediate products, process intermediates, vaccine conjugates, and other biological products

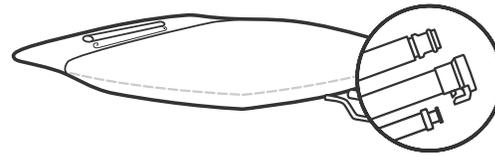
Aegis5-14 and CX5-14 chamber details

50 mL–2 L: Polyethylene ports are welded into the BPC seam: two 1/4 in. ID ports on standard chamber.



50 mL–2 L, 2-port Labtainer BPC

2 L–50 L: Polyethylene ports are welded into the BPC seam: one 1/4 in. ID and two 3/8 in. ID ports on standard chamber.



2 L–50 L, 3-port Labtainer BPC

Chamber information

Volume	Empty BPC dimensions (L x W)	Nominally filled BPC dimensions (L x W x H)	Liquid-filled shipping box dimensions (No. of units, L x W x H)
50 mL	11.7 x 13.7 cm (4.6 x 5.4 in.)	11.6 x 13.9 x 1.2 cm (4.6 x 5.5 x 0.5 in.)	NA
100 mL	14.7 x 14.2 cm (5.8 x 5.6 in.)	14.4 x 13.9 x 1.2 cm (5.7 x 5.5 x 0.5 in.)	NA
250 mL	19.1 x 15.0 cm (7.5 x 5.9 in.)	19.0 x 14.7 x 1.9 cm (7.5 x 5.8 x 0.75 in.)	NA
500 mL	26.4 x 17.3 cm (10.4 x 6.8 in.)	26.4 x 16.5 x 2.5 cm (10.4 x 6.5 x 1.0 in.)	(4–10) 60.3 x 44.4 x 14.2 cm (23.75 x 17.5 x 5.6 in.)
1 L	29.7 x 20.1 cm (11.7 x 7.9 in.)	29.2 x 18.2 x 5.0 cm (11.5 x 7.2 x 2 in.)	(1) 38.7 x 27.9 x 7.3 cm (15.25 x 11 x 2.9 in.)
2 L, 2-port	34.8 x 24.4 cm (13.7 x 9.6 in.)	34.2 x 21.5 x 5.5 cm (13.5 x 8.5 x 2.2 in.)	(1) 41.2 x 26.6 x 9.1 cm (16.25 x 10.5 x 3.6 in.)
2 L, 3-port	29.5 x 31.0 cm (11.6 x 12.2 in.)	27.9 x 30.4 x 5.0 cm (11.0 x 12.0 x 2.0 in.)	(1) 41.2 x 26.6 x 9.1 cm (16.25 x 10.5 x 3.6 in.)
3 L	39.7 x 31.2 cm (15.5 x 12.3 in.)	38.1 x 29.2 x 5.7 cm (15.0 x 11.5 x 2.2 in.)	(1) 71.1 x 29.8 x 12.7 cm (28.0 x 11.75 x 5.0 in.)
5 L	37.6 x 33.3 cm (14.8 x 13.1 in.)	33.0 x 33.0 x 10.1 cm (13.0 x 13.0 x 4.0 in.)	(1) 41.2 x 32.3 x 15.8 cm (16.25 x 12.75 x 6.25 in.)
10 L	62.2 x 30.0 cm (24.5 x 11.8 in.)	58.4 x 27.9 x 11.4 cm (23.0 x 11.0 x 4.5 in.)	(1) 62.8 x 27.3 x 15.8 cm (24.75 x 10.75 x 6.25 in.)
20 L	65.5 x 43.2 cm (25.8 x 17.0 in.)	58.4 x 36.8 x 14.6 cm (23.0 x 14.5 x 5.7 in.)	(1) 64.1 x 38.7 x 19.6 cm (25.25 x 15.25 x 7.75 in.)
30 L	82.0 x 53.3 cm (32.3 x 21.0 in.)	77.4 x 49.5 x 13.3 cm (30.5 x 19.5 x 5.2 in.)	NA
50 L	82.6 x 58.4 cm (32.5 x 23.0 in.)	72.3 x 53.3 x 21.5 cm (28.5 x 21.0 x 8.5 in.)	NA

Custom BPC options

Description	Details
Tubing type	C-Flex™ (ADCF in clear or white), silicone, PharMed™, or AdvantaFlex™
Tubing size	Specific lengths of 3.18–25.4 mm (1/8–1 in.) ID, depending on type of tubing chosen
Connectors	<ul style="list-style-type: none">• Luer: 3.18–6.35 mm (1/8–1/4 in.) ID• CPC quick-connect: 6.35–19 mm (1/4–3/4 in.) ID• Steam-in-place connector: 6.35–19 mm (1/4–3/4 in.) ID• Tri-clamp: 3.18–25.4 mm (1/8–1 in.) ID• Mini tri-clamp: 3.18–12.7 mm (1/8–1/2 in.) ID• Aseptic connection and aseptic disconnection devices: all available sizes of Colder AseptiQuik™, Pall™ Kleenpak™, GE ReadyMate™ DAC
Others	<ul style="list-style-type: none">• Needle-free sample port (Smartsite™ or Clave™ products)• Filter capsule (Millipore™, Pall™, Sartorius™, Domnick Hunter™, Meissner™ products)

Presentation (as dry BPC systems)

Description	Details
Outer packaging	Supplied “flat-packed”—two polyethylene outer layers
Label	<ul style="list-style-type: none">• Description• Product code• Lot number• Expiration date on outer packaging and shipping container
Sterilization	Irradiation (25–40 kGy) inner side of outer packaging
Shipping container	Durable cardboard carton
Documentation	<ul style="list-style-type: none">• Certificate of Analysis provided with each batch for each delivery• Certificate of Irradiation

Outer support containers

Industry-standard Rubbermaid™ totes with corresponding lids are available. They can be used to protect Labtainer BPCs up to 20 L in size during use, transport, and storage. Use standard 50 L drums for 50 L Labtainer BPCs.

Description	Dimensions (L x W x H)	Capacity	Rubbermaid Cat. No.	Cat. No.
Tray	66 x 46 x 15 cm (26 x 18 x 6 in.)	32.2 L	3508-white	SV50163.01
Lid	66 x 46 cm (26 x 18 in.)	NA	3502-white	SV50163.02
Flat-bottom LLDPE drum with lid	44 x 51 cm (17 x 20 in.)	50 L	NA	SV50076.02



Tray with lid



Flat-bottom, linear low-density polyethylene (LLDPE) drum with lid

versaCART mobile accessory cart

Quickly configure and organize your fluid processing systems on the Thermo Scientific™ versaCART™ unit and maximize valuable cleanroom space and resources. The modular design of the versaCART unit allows users to quickly custom-configure single-use solutions for multiple biomanufacturing steps.

The slim design and ergonomic structure maximize floor space without compromising usefulness. Since the versaCART unit enables users to have required components and equipment on board, assignments are completed quickly and efficiently.

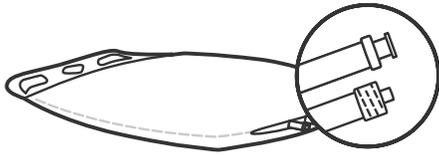


Description	Dimensions (H x D x W)	Weight (cart only)	Material
Cart only		57 kg (125 lb)	304L stainless steel
Cart and 200 L storage drum	89 x 69 x 142 cm (35 x 27 x 56 in.)	64 kg (140 lb)	304L stainless steel; polyethylene drum
Cart with 3 pivoting shelves		111 kg (245 lb)	304L stainless steel

Ordering information

2 ports

Pack of 10



Line 1

Luer lock body connection, polypropylene
Tubing: C-Flex; 8 cm (3 in.) length
ID x OD: 6.35 x 10.92 mm (0.25 x 0.43 in.)

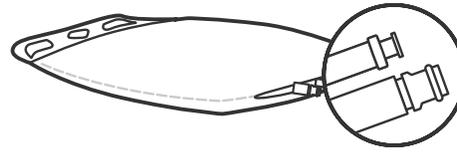
Line 2

Luer lock insert connection, polypropylene
Tubing: C-Flex; 8 cm (3 in.) length
ID x OD: 6.35 x 10.92 mm (0.25 x 0.43 in.)

Size	Dimensions (L x W)	Cat. No.
50 mL	11.7 x 13.7 cm (4.6 x 5.4 in.)	Aegis5-14 film SH31050.11
		CX5-14 film SH30657.11
100 mL	14.7 x 14.2 cm (5.8 x 5.6 in.)	Aegis5-14 film SH31050.12
		CX5-14 film SH30657.12
250 mL	19.1 x 15.0 cm (7.5 x 5.9 in.)	Aegis5-14 film SH31050.13
		CX5-14 film SH30657.13
500 mL	26.4 x 17.3 cm (10.4 x 6.8 in.)	Aegis5-14 film SH31050.14
		CX5-14 film SH30657.14
1 L	29.7 x 20.1 cm (11.7 x 7.9 in.)	Aegis5-14 film SH31050.15
		CX5-14 film SH30657.15
2 L	34.8 x 24.4 cm (13.7 x 9.6 in.)	Aegis5-14 film SH31050.16
		CX5-14 film SH30657.16

2 ports

Pack of 10



Line 1

Luer lock body connection, polypropylene
Tubing: C-Flex; 30 cm (12 in.) length
ID x OD: 3.18 x 6.35 mm (0.125 x 0.25 in.)

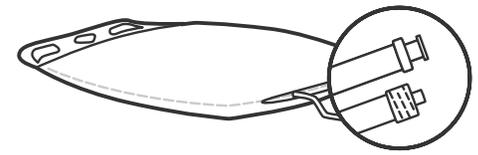
Line 2

MPC insert, polycarbonate
Tubing: C-Flex; 8 cm (3 in.) length
ID x OD: 3.18 x 6.35 mm (0.125 x 0.25 in.)

Size	Dimensions (L x W)	Cat. No.
50 mL	11.7 x 13.7 cm (4.6 x 5.4 in.)	Aegis5-14 film SH31048.11
		CX5-14 film SH30662.11
100 mL	14.7 x 14.2 cm (5.8 x 5.6 in.)	Aegis5-14 film SH31048.12
		CX5-14 film SH30662.12
250 mL	19.1 x 15.0 cm (7.5 x 5.9 in.)	Aegis5-14 film SH31048.13
		CX5-14 film SH30662.13
500 mL	26.4 x 17.3 cm (10.4 x 6.8 in.)	Aegis5-14 film SH31048.14
		CX5-14 film SH30662.14
1 L	29.7 x 20.1 cm (11.7 x 7.9 in.)	Aegis5-14 film SH31048.15
		CX5-14 film SH30662.15
2 L	34.8 x 24.4 cm (13.7 x 9.6 in.)	Aegis5-14 film SH31048.16
		CX5-14 film SH30662.16

2 ports

Pack of 10



Line 1

Luer lock body connection, polypropylene
Tubing: C-Flex; 30 cm (12 in.) length
ID x OD: 3.18 x 6.35 mm (0.125 x 0.25 in.)

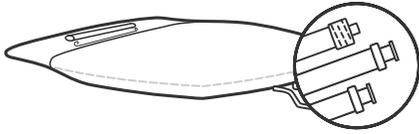
Line 2

Luer lock insert connection, polypropylene
Tubing: C-Flex; 30 cm (12 in.) length
ID x OD: 3.18 x 6.35 mm (0.125 x 0.25 in.)

Size	Dimensions (L x W)	Cat. No.
50 mL	11.7 x 13.7 cm (4.6 x 5.4 in.)	Aegis5-14 film SH30961.11
		CX5-14 film SH30658.11
100 mL	14.7 x 14.2 cm (5.8 x 5.6 in.)	Aegis5-14 film SH30961.12
		CX5-14 film SH30658.12
250 mL	19.1 x 15.0 cm (7.5 x 5.9 in.)	Aegis5-14 film SH30961.13
		CX5-14 film SH30658.13
500 mL	26.4 x 17.3 cm (10.4 x 6.8 in.)	Aegis5-14 film SH30961.14
		CX5-14 film SH30658.14
1 L	29.7 x 20.1 cm (11.7 x 7.9 in.)	Aegis5-14 film SH30961.15
		CX5-14 film SH30658.15
2 L	34.8 x 24.4 cm (13.7 x 9.6 in.)	Aegis5-14 film SH30961.16
		CX5-14 film SH30658.16

3 ports

Single pack



Line 1

Luer lock insert connection, polypropylene
Tubing: C-Flex; 30 cm (12 in.) length
ID x OD: 6.35 x 9.7 mm (0.25 x 0.38 in.)

Line 2

Luer lock body connection, polypropylene
Tubing: C-Flex; 30 cm (12 in.) length
ID x OD: 6.35 x 9.7 mm (0.25 x 0.38 in.)

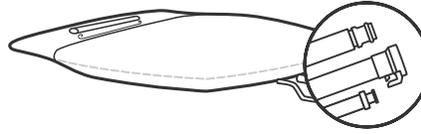
Line 3

Luer lock body connection, polypropylene
Tubing: C-Flex; 30 cm (12 in.) length
ID x OD: 3.18 x 6.35 mm (0.125 x 0.25 in.)

Size	Dimensions (L x W)	Cat. No.
2 L	29.5 x 31.0 cm (11.6 x 12.2 in.)	Aegis5-14 film SH31049.05
		CX5-14 film SH30713.05
5 L	37.6 x 33.3 cm (14.8 x 13.1 in.)	Aegis5-14 film SH31049.01
		CX5-14 film SH30713.01
10 L	62.2 x 30.0 cm (24.5 x 11.8 in.)	Aegis5-14 film SH31049.02
		CX5-14 film SH30713.02
20 L	65.5 x 43.2 cm (25.8 x 17.0 in.)	Aegis5-14 film SH31049.03
		CX5-14 film SH30713.03
50 L	82.6 x 58.4 cm (32.5 x 23.0 in.)	Aegis5-14 film SH31049.04
		CX5-14 film SH30713.04

3 ports

Single pack



Line 1

MPC insert, polycarbonate
Tubing: C-Flex; 61 cm (24 in.) length
ID x OD: 9.7 x 15.9 mm (0.38 x 0.63 in.)

Line 2

MPC body, polycarbonate
Tubing: C-Flex; 61 cm (24 in.) length
ID x OD: 9.7 x 15.9 mm (0.38 x 0.63 in.)

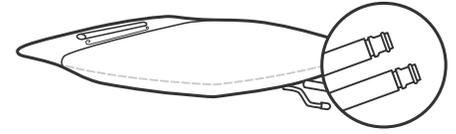
Line 3

Luer lock body connection, polypropylene
Tubing: C-Flex; 61 cm (24 in.) length
ID x OD: 3.18 x 6.35 mm (0.125 x 0.25 in.)

Size	Dimensions (L x W)	Cat. No.
2 L	29.5 x 31.0 cm (11.6 x 12.2 in.)	Aegis5-14 film SH30963.05
		CX5-14 film SH30712.05
5 L	37.6 x 33.3 cm (14.8 x 13.1 in.)	Aegis5-14 film SH30963.01
		CX5-14 film SH30712.01
10 L	62.2 x 30.0 cm (24.5 x 11.8 in.)	Aegis5-14 film SH30963.02
		CX5-14 film SH30712.02
20 L	65.5 x 43.2 cm (25.8 x 17.0 in.)	Aegis5-14 film SH30963.03
		CX5-14 film SH30712.03
50 L	82.6 x 58.4 cm (32.5 x 23.0 in.)	Aegis5-14 film SH30963.04
		CX5-14 film SH30712.04

3 ports

Single pack



Line 1

MPC insert, polycarbonate
Tubing: C-Flex; 30 cm (12 in.) length
ID x OD: 9.7 x 12.7 mm (0.38 x 0.5 in.)

Line 2

MPC insert, polycarbonate
Tubing: C-Flex; 30 cm (12 in.) length
ID x OD: 9.7 x 12.7 mm (0.38 x 0.5 in.)

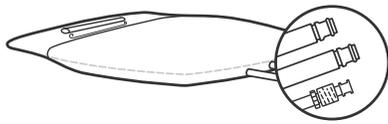
Line 3

End plug, polypropylene
Tubing: C-Flex; 8 cm (3 in.) length
ID x OD: 6.35 x 10.92 mm (0.25 x 0.43 in.)

Size	Dimensions (L x W)	Cat. No.
2 L	29.5 x 31.0 cm (11.6 x 12.2 in.)	Aegis5-14 film SH30965.05
		CX5-14 film SH30714.05
5 L	37.6 x 33.3 cm (14.8 x 13.1 in.)	Aegis5-14 film SH30965.01
		CX5-14 film SH30714.01
10 L	62.2 x 30.0 cm (24.5 x 11.8 in.)	Aegis5-14 film SH30965.02
		CX5-14 film SH30714.02
20 L	65.5 x 43.2 cm (25.8 x 17.0 in.)	Aegis5-14 film SH30965.03
		CX5-14 film SH30714.03
50 L	82.6 x 58.4 cm (32.5 x 23.0 in.)	Aegis5-14 film SH30965.04
		CX5-14 film SH30714.04

3 ports

Single pack—edge ports



Line 1

MPC insert, polycarbonate
Tubing: C-Flex; 8 cm (3 in.) length
ID x OD: 9.6 x 12.7 mm (0.378 x 0.50 in.)

Line 2

MPC insert, polycarbonate
Tubing: C-Flex; 8 cm (3 in.) length
ID x OD: 9.6 x 12.7 mm (0.378 x 0.50 in.)

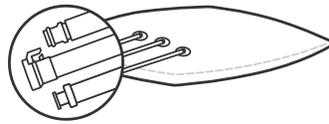
Line 3

Injection port
Tubing: C-Flex; 8 cm (3 in.) length
ID x OD: 6.35 x 9.53 mm (0.25 x 0.375 in.)

Size	Dimensions (L x W)	Cat. No.
2 L	29.5 x 31.0 cm (11.6 x 12.2 in.)	Aegis5-14 film SH31005.05
		CX5-14 film SH30709.05
5 L	37.6 x 33.3 cm (14.8 x 13.1 in.)	Aegis5-14 film SH31005.01
		CX5-14 film SH30709.01
10 L	62.2 x 30.0 cm (24.5 x 11.8 in.)	Aegis5-14 film SH31005.02
		CX5-14 film SH30709.02
20 L	65.5 x 43.2 cm (25.8 x 17.0 in.)	Aegis5-14 film SH31005.03
		CX5-14 film SH30709.03
50 L	82.6 x 58.4 cm (32.5 x 23.0 in.)	Aegis5-14 film SH31005.04
		CX5-14 film SH30709.04

3 ports

Single pack—pillow design with panel ports



Line 1

MPC insert, polycarbonate
Tubing: C-Flex; 46 cm (18 in.) length
ID x OD: 3.18 x 6.35 mm (0.125 x 0.25 in.)

Line 2

MPC body, polypropylene
Tubing: C-Flex; 61 cm (24 in.) length
ID x OD: 9.53 x 15.875 mm (0.375 x 0.625 in.)

Line 3

Luer lock body connection, polypropylene
Tubing: C-Flex; 61 cm (24 in.) length
ID x OD: 9.53 x 15.875 mm (0.375 x 0.625 in.)

Size	Outer container	Cat. No.	Cat. No.
50 L	SV50076.02	CX5-14 film SH30667.01	
100 L	SV50076.03	CX5-14 film SH30667.02	
200 L	SV50076.04	CX5-14 film SH30667.03	

Note: Aegis5-14 film equivalents for this product are available as custom configurations.

Ordering information

Description	Cat. No.
versaCART mobile accessory cart	
versaCART standard cart only	VC-1000
versaCART standard cart with load cells	VC-1001
versaCART standard cart with load cells and 3 pivoting shelves	VC-1002
versaCART standard cart with filter racks (no load cells)	VC-1003
versaCART standard cart with 3 pivoting shelves (no load cells)	VC-1004
200 L storage drum	TK-0200-05
Outer support containers	
32.2 L Rubbermaid tray	SV50163.01
Rubbermaid lid	SV50163.02
50 L flat-bottom LLDPE drum with lid	SV50076.02

Find out more at thermofisher.com/bpc

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