Allegro™ workstations

FOR BIOPROCESSING

Allegro™ bioprocessing workstations have been designed to assist in applications where fluid containment, ease-of-use, and flexibility are paramount. Workstations are based around a mobile steel frame, where trays and other accessories can be fitted. The base frame can be expanded depending on operation and volume requirements. The trays re very easy to install and remain fully accessible, therefore operator intervention is kept to a minimum.

Our bioprocessing workstations enable easy implementation of a wide range of single-use system designs around each unit in operation. The workstation has been specifically engineered to provide maximum flexibility in most single-use operations used in the processing environment.

The system's support trays are made of a high-density polyethylene (HDPE). Due to their outstanding processing capabilities and superior wear resistance, these trays are suited to a wide range of applications—from onsite transport, materials handling, storage, and production within the facility.

We have designed hardware to ensure safe and reliable handling of our Allegro systems, as well as provide maximum flexibility to the end-user.

The features and benefits of Allegro bioprocessing workstations include:

- **Modular design:** Allows for various combinations of tray configurations depending on volumes to be processed. Can be used in different applications, such as depth filtration, sterile filtration with *in situ* integrity testing, fraction collection, media, and buffer preparation.
- **HDPE construction:** Trays are very robust, with excellent chemical resistance, meaning they can be cleaned with a variety of solutions.
- **Operating temperatures* range from -40°C to 60°C:** Can be used for storage at low and high temperatures.
- **Stackable:** Minimizes storage footprints.
- **Size range:** Designed to handle 10 L, 20 L, 50 L, and 100 L systems.
- **Excellent drainage capability:** Allegro 2D system trays can be put at a slight angle to maximize product recovery.

* Operating temperature is dependent on the biocontainer operating range. Biocontainers up to 10 L are validated between -80°C to 60°C. Biocontainers 20 L and above are validated between 4°C to 60°C.



Fig 1. Allegro bioprocessing workstations.

Applications

The modular bioprocessing workstations can be used in multiple workstations in conjunction with our range of separation and single-use technology, including:

- Clarification and product storage
- Buffer filtration and storage
- Chromatography fraction collection
- Sterile filtration with *in situ* testing and product storage

Quality standards

Allegro bioprocessing workstations are manufactured to high standards, ensuring excellent build quality. The workstations are manufactured under a quality management system certified to ISO 9001, and are designed to be handled in a Class C GMP cleanroom environment.



Fig 2. Single column bioprocessing workstation with 20 L Allegro trays and systems.



Fig 4. Allegro bioprocessing workstation configured with Stax™ depth filtration unit, 100 L Allegro tote, 20 L Allegro trays, and Allegro tabletop.



Fig 3. Allegro workstation and workstation extension containing 20 L Allegro trays.



Fig 5. Allegro workstation configured for inline integrity testing of a sterile filter prior to buffer filtration.



Fig 6. Allegro trays can be stacked to minimize floor space and reduce manufacturing footprint.

Technical specifications

20 and 50 L trays, lids, tabletop, 100 L tote, and outlet closure

Materials of construction	HDPE – PE500
Operating temperature range	-80°C to 60°C
Stacking ability (empty):	
20 L trays	×10
50 L trays	×5
Stacking ability (full):	
20 L trays	×5
50 L trays	×2

Workstation base, stack, extension, tray feet, and documentation holder

Materials of construction	304 stainless steel (SS304)
Operating temperature range	-40°C to 60°C

Castors

Materials of construction	Nylon and stainless steel
Operating temperature range	-40°C to 60°C

Ordering information

Allegro workstation bases, extensions, and stack

	Description	Weight	Maximum load	Nominal dimensions (L × W × H)	Product code
	Allegro workstation base (double column)	27.0 kg	600 kg	1420 × 920 × 1017 mm	LGRTBDC
	Allegro extension (double column)	17.0 kg	265 kg	1230 × 880 × 666 mm	LGRTEDC
	Allegro stack (double column)	8.0 kg	125 kg	846 × 620 × 700 mm	LGRTSDC
	Allegro workstation base (single column)	22.0 kg	285 kg	1050 × 677 × 963 mm	LGRTBSC
	Allegro extension (single column)	14.0 kg	130 kg	870 × 650 × 730 mm	LGRTESC
	Allegro bioprocessing workstation	23.5 kg	450 kg	1078 × 677 × 1253 mm	LGRTTBSC

Ordering information

Allegro trays, lids, and totes

	Description	Weight	Maximum load	Nominal dimensions (L × W × H)	Product code
	Allegro 20 L tray	8.0 kg	20 kg	820 × 540 × 130 mm	LGRTPE20L
	Allegro 20 L tray lid	2.0 kg	–	820 × 540 × 40 mm	LGRTLPE20L
	Allegro 50 L tray	14.0 kg	50 kg	1120 × 820 × 130 mm	LGRTPE50L
	Allegro 50 L tray lid	13.2 kg	–	1120 × 820 × 130 mm	LGRTLPE50L
	Allegro 100 L tote	19.3 kg	100 kg	785 × 575 × 330 mm	LGRTTPE100L
	50 L plastic tote	11.86 kg	55 kg	440 × 560 × 325 mm	LGRPTTE50L
	50 L adapter tray[†]	3.8 kg	110 kg	830 × 540 × 15 mm	LGR50LAWST

[†]The 50 L adapter tray allows the 50 L tote to be used in conjunction with existing bioprocessing workstations, accommodating additional existing workstation designs.

Allegro filter capsule supports

	Description	Weight	Nominal dimensions (L × W × H)	Product code
	Allegro filter capsule bracket support	1.6 kg	100 × 68 × 800 mm	LGRKPCBKHD
	Allegro universal large filter capsule bracket[‡]	0.78 kg	–	LGRUFBK
	Allegro universal small filter capsule bracket	0.45 kg	–	LGRUSFBK

[‡]Two brackets required for 20 in. and 30 in. Kleenpak™ Nova style capsules.

Allegro bioprocessing workstation accessories

	Description	Weight	Working load	Nominal dimensions (L × W × H)	Product code
	Allegro 20 L tray support/retainer	1.1 kg	–	546 × 100 × 36 mm	LGRTRDC
	Allegro tray outlet closure	0.15 kg	–	160 × 16 × 60 mm	LGRTOPPE
	Allegro tabletop	7.0 kg	115 kg	560 × 830 × 35 mm	LGRTDCPE
	Allegro document holder	1.4 kg	–	240 × 80 × 330 mm	LGRTDH

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