

Reimagine scalability in bioprocessing— DynaDrive S.U.B.

Bioprocessing



Transform process development with the 5 L DynaDrive S.U.B.

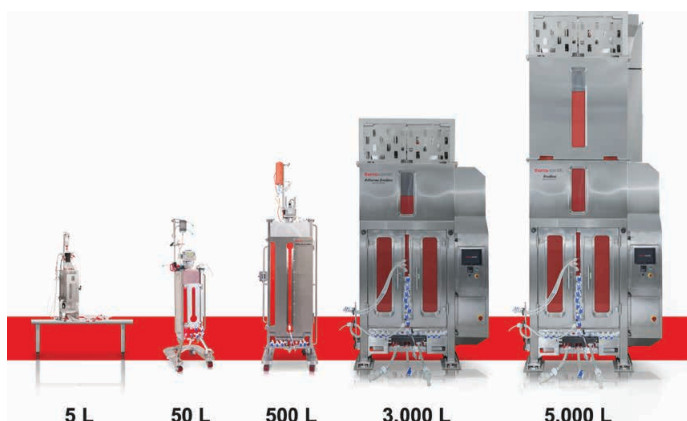
Scalability and performance starting as low as 1 L

With a 1 L minimum working volume, the 5 L benchtop Thermo Scientific™ DynaDrive™ Single-Use Bioreactor (S.U.B.) offers scalability and performance with a 5:1 turndown ratio. It features a similar reactor design and the same film as the other DynaDrive S.U.B.s in the portfolio. The DynaDrive S.U.B. family offers consistency in mass transfer and mixing, which allows for the use of the same technology across a broad range of facility networks, simplifying process transfers and helping to maximize cell density to support fed-batch and perfusion processes.

More efficient than glass bioreactors

Compared to traditional glass bioreactors, the 5 L DynaDrive S.U.B. is more efficient and offers lower capital and operational costs. The design eliminates the need for glassware washers and autoclaves, significantly reducing initial setup costs and recurring maintenance and cleaning needs.* This bioreactor saves up to 20% in workflow duration by eliminating the need for cleaning or autoclaving, which in turn reduces setup and turnaround times to allow more experiments to be completed in the same timeframe.

Additionally, the DynaDrive S.U.B. allows for a 27% increase in experiments per year than traditional glass bioreactor systems.* Preparing a DynaDrive S.U.B. for a cell culture run is quick and easy with the presterilized bioprocess containers that are ready to use out of the box, enabling you to do more with the same number of lab personnel and reactors than traditional glass bioreactors.



* Internal data on file.

High-quality bioreactor bags and consumables

The DynaDrive S.U.B. offers high-quality bioreactor bags and consumables, made with Thermo Scientific™ Aegis™ 5-14 film, which have demonstrated biocompatibility and low cytotoxicity to support healthy cell growth.

Thermo Scientific™ DynaDrive™ BioProcess Containers (BPCs) also offer low leachable and extractable profiles to support end-product purity and quality. Designed to scale up from bench to pilot, the DynaDrive S.U.B. includes 14 total line sets, a bottom-mounted drain line that enables complete drainage of the BPC without manipulation, and a bottom-mounted sample line. The drive shaft has a modified elephant ear-like design and includes three impellers along its length.



Common automation platform simplifies tech transfer

Benefit from one standard control and automation platform that scales from R&D through production and simplifies tech transfer. Thermo Scientific™ TruBio™ BioProcess Control Software uses the advanced DeltaV™ Live user interface package for fully scalable control from R&D to production. Thermo Scientific™ HyPerforma™ G3 Lab Controllers are fully self-contained moveable units that can be operated alone for one vessel or networked for multiple vessels.



Ordering information

Product	Product type	Cat. No.
Bioprocess Container for 5 L DynaDrive Bioreactor for Traditional Single-Use Sensors	BPC	SUT00181
Bioprocess Container for 5 L DynaDrive Bioreactor for BPC Sensor Puck	BPC	SUT00180
DynaDrive 5 L Bioreactor Vessel, standard, 120VAC, BPC sensor puck option	Vessel	DDB0005.1010
DynaDrive 5 L Bioreactor Vessel, standard, 120VAC, traditional probe option	Vessel	DDB0005.1011
DynaDrive 5 L Bioreactor Vessel, standard, 240VAC, BPC sensor puck option	Vessel	DDB0005.1020
DynaDrive 5 L Bioreactor Vessel, standard, 240VAC, traditional probe option	Vessel	DDB0005.1021
BPC Sensor Puck Kit, 5 L DynaDrive Bioreactor for Standardized HyPerforma G3 Lab Controllers	Sensor kit	F110-2751-001
Traditional Probe Kit, 5 L DynaDrive Bioreactor for Standardized HyPerforma G3 Lab Controllers	Sensor kit	F110-2759-001
HyPerforma G3 Lab Controller Upgrade Kit	Controller upgrade kit	F110-2752-001

See more information or request a demo at
thermofisher.com/5Ldynadrivere

thermo scientific

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