

SINGLE USE SUPPORT.

PIONEERING BIOPHARMA

SCALE

LAB
10 L

MID
100 L

LARGE
400 L

Compatible with single-use bags
of all manufacturers and sizes



RoSS.pFTU

Mid Scale

*Start into the future with
a scalable platform!*

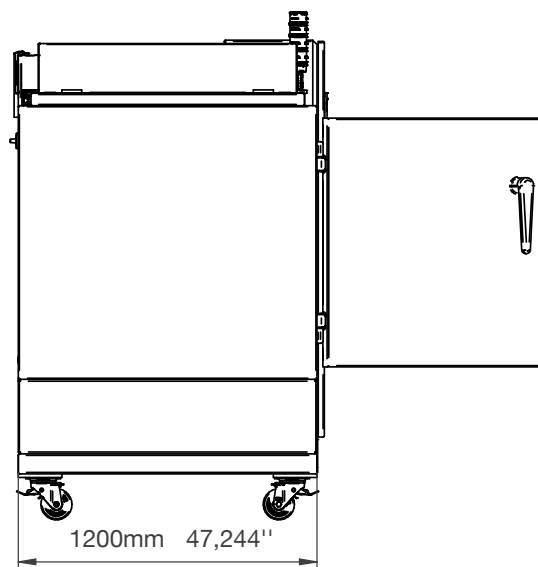
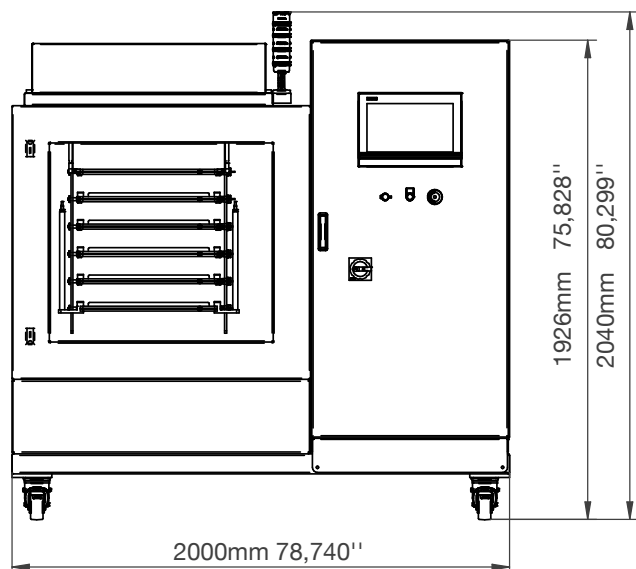
Technical Specifications

RoSS.pFTU Mid Scale is a plate-based freeze-thaw unit for studies and small scale batches. Thawing different individual volumes of drug substance up to 70 L with ease. **Based on plates, the freezing and thawing time is controlled and rapid.**

FREEZE-THAW YOUR DRUG SUBSTANCE

- In any single-use bag*
- Fully automated & controlled
- At highest possible speed & accuracy
- For best product stability results

*protected by RoSS and designed to your preferred bag



Designed for	any single-use bag up to 20L protected by RoSS*
Full load	Max. 5 x 20L single-use bags
Partial fill	any volume up to 100L in different setup possible
Dimensions**	2000 x 1200 x 2040 mm / 78.7 x 47.2 x 80.3"
Software	Siemens S7 standardized - DeltaV upon request
Temperature range	on request
Cooling medium	with Thermooil
Consumption at water 59 °F (15 °C), flow 68 °F (20 °C)	580 L/h or external chiller
Net weight **	approx. 1,300 kg
Sound pressure level +/- 4 dB (A)	61 dB (A)
Convertible power supply	USA: -60HZ - 480 v is 20A; EU/CN 50Hz - 400v - 24 a**
Min. temperature	-80°C / -112°F
Max. temperature	+40°C / 104°F

*Available for any 2D single-use bag. Find more details in our RoSS product brochure.

**Subject to change, depending on application and selected temperature control unit.

Max. loading capacity with RoSS® shells

Bag volume	Number of RoSS® shells
10L	up to 5 or more
20L	up to 5

UPS

Uninterrupted power supply for your freeze-thaw platform.

Included in a purchase of a new **RoSS.pFTU Mid Scale**, additional UPSs can be purchased as standalone to guarantee uninterrupted power supply.

The UPS can be attached as external trolleys for Mid Scale platforms. UPST, the trolley for your external UPS, can be installed in different locations with extended cable length, but it can also serve as storage tray for printer, laptop or other.

Control Cabinet Dimensions (w x l x h)	600 x 800 x 800mm / 23.6 x 31.5 x 31.5"
Height including wheels	920mm / 36.2"
Material Outer Surface	Stainless Steel IP54
Ventilator	included
Temperature measurement	included
Alarm System	Alarm via POKO on our HMI
Net weight	approx. 250kg
Power input	EU: 230V 50Hz. USA: 120V 60Hz.
Power output	EU: 230V 50Hz. USA: 120V 60Hz.
Battery	3000 VA sealed lead-acid battery
Hold time	min. 15min. TCU is not being supported.



Trolley for uninterrupted power supply (r.) for RoSS.pFTU Mid Scale