

Discover our Freezing Capabilities: Celsius® Product Lines



Overview of the Freezing and Thawing Operations



Celsius® Controlled Freeze Thaw (CFT)



Celsius® FFT (Volumes: 2 L, 4 L, 6 L and 12 L)

Controlled Thawing Operation



Storage & Logistics



Celsius® SSM Shipper

Celsius® Shippable Storage Module (SSM)

Celsius® FT33 | 66 | 100

Celsius® Flexible Freeze Thaw (FFT)

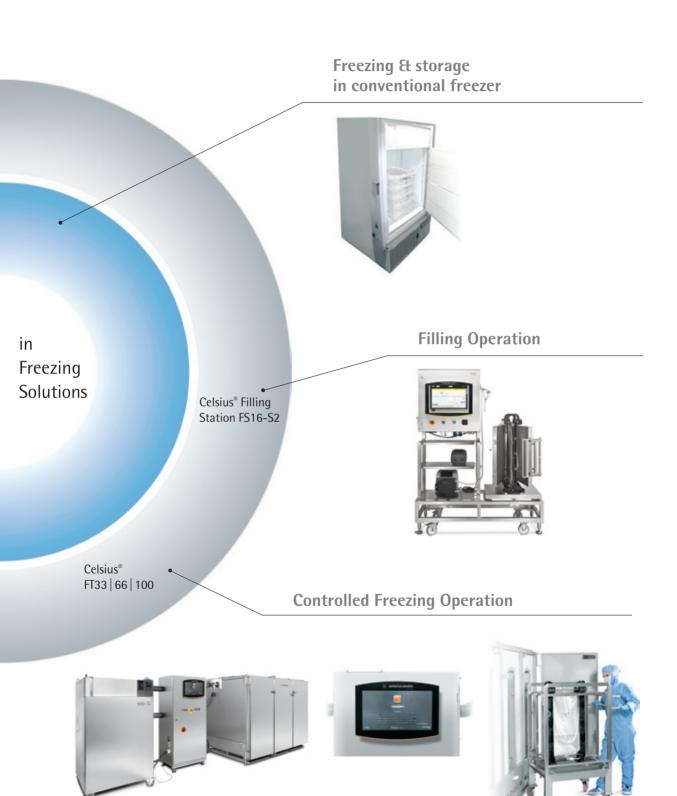
Total Solution Provider

Celsius® FFT Shippers

Celsius® CFT Logistics Sartorius Stedim Biotech offers comprehensive solutions, using either patented freeze-thaw technologies or conventional freezers, for the handling, storage, transfer and shipping of biopharmaceuticals.

The Celsius® CFT systems use a proprietary heat transfer technology to freeze and thaw biopharmaceutical solutions, scalable from process development to commercial scale production products.

The Celsius® FFT single-use assemblies are designed to provide the freezing container used in conventional freezer. The associated logistics for frozen storage and shipping of biopharmaceuticals is also available.



The Celsius® S3 Benchtop system is the only laboratory instrument available on the market to evaluate the Freeze and Thaw processes of new drug candidates in single-use containers with full scalability to production scale.

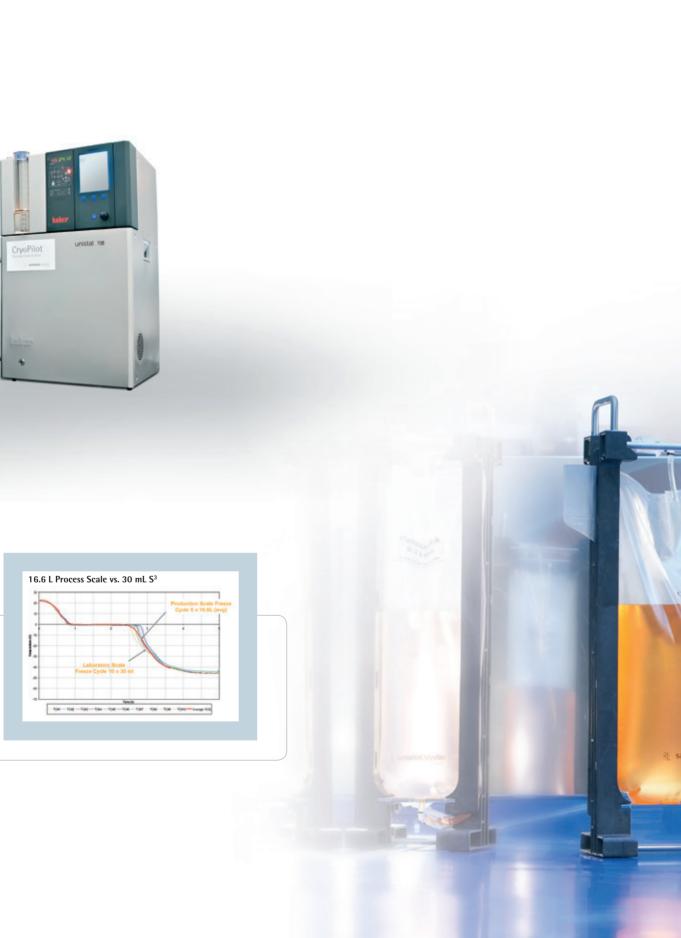
Samples frozen in the Celsius® S³ Benchtop system may be stored at different temperatures to investigate the drug substance stability, using final scale-like conditions.

This tool allows generation of consistent samples library useful for evaluating stability, storage conditions and formulations.



Celsius® CFT





Celsius® S³ Overview





We Provide Our Support in Your Freezing Operations

Security of Supply

Sartorius Stedim Biotech has established multiple manufacturing sites with consistent industrial processes. The expertise of designing Single-Use solutions based on collaborative supplier management and customer demand planning assures a state of the art and robust supply chain that can cope with strong market growth.

Quality Assurance

Single-Use Products follow applicable ISO and FDA regulations for Medical Devices. Design, Manufacture and Sterilization processes are conducted under conditions that mirror biopharmaceutical operations and meet cGMP requirements.

Validation

Celsius® Bags have been qualified applying the most complex and innovative test regimes. Biological, chemical and physical tests combined with extensive extractable testing provide users of Celsius® with data representing the widest range of process fluids in a variety of processing conditions.

Full compliance with ISO11137 allows sterility assurance level validation of 10⁻⁶ for each Single-Use System over its entire shelf life.

Application Support Development Studies

Feasibility studies are enabled using Sartorius Stedim Biotech Laboratory Scale Freeze and Thaw Technologies to assess the characteristics (quality, activity, robustness) of a drug substance.

The studies are designed to replicate the freeze | hold | thaw profiles of the Production Scale Controlled Freeze-Thaw Systems.

Biological entities have their own intrinsic characteristics that call for the development of product specific studies. Our applications group will work with clients to develop studies that will address the unique requirements of their biological entity.

Sales and Service Contacts

For further contacts, visit www.sartorius-stedim.com

Europe

Germany

Sartorius Stedim Biotech GmbH August-Spindler-Strasse 11 37079 Goettingen

Phone +49.551.308.0

Sartorius Stedim Systems GmbH Robert-Bosch-Strasse 5-7 34302 Guxhagen

Phone +49.5665.407.0

France

Sartorius Stedim FMT S.A.S. ZI des Paluds Avenue de Jouques – CS 91051 13781 Aubagne Cedex

Phone +33.442.845600

Sartorius Stedim France SAS 71 des Paluds Avenue de Jouques - CS 71058 13781 Aubagne Cedex

Phone +33 442 845600

Austria

Sartorius Stedim Austria GmbH Modecenterstrasse 22 1030 Vienna

Phone +43.1.7965763.18

Belaium

Sartorius Stedim Belgium N.V. Rue Colonel Bourg 105 1030 Bruxelles

Phone +32.2.756.06.80

Hungary Sartorius Stedim Hungária Kft. Kagyló u. 5 2092 Budakeszi

Phone +36 23 457 227

Italy

Sartorius Stedim Italy S.r.l Via A. Meucci, 4 50012 Grassina – Bagno a Ripoli (FI)

Phone +39.055.63.40.41

Netherlands

Sartorius Stedim Netherlands B.V.

Phone +31.30.60.25.080

filtratie.nederland@sartorius-stedim.com

Poland

Sartorius Stedim Poland Sp. z o.o. ul. Wrzesinska 70 62-025 Kostrzyn

Phone +48.61.647.38.40

Russian Federation

LLC "Sartorius Stedim RUS" Vasilyevsky Island 5th line 70. Lit. A 199178 St. Petersburg

Phone +7.812.327.53.27

Snain

Sartorius Stedim Spain, S.A.U. Avda. de la Industria, 32 Edificio PAYMA 28108 Alcobendas (Madrid)

Phone +34.913.586.098

Switzerland

Sartorius Stedim Switzerland AG Ringstrasse 24 a 8317 Tagelswangen

Phone +41.52.354.36.36

U.K.

Sartorius Stedim UK Ltd. Longmead Business Centre Blenheim Road, Epsom Surrey KT19 9 QQ

Phone +44.1372.737159

Ukraine

LLC "Sartorius Stedim RUS" Post Box 440 "B" 01001 Kiev, Ukraine

Phone +380 44 411 4918

Africa

Republic of South Africa

Sartorius South Africa (Pty) Ltd Unit 4, Alphen Square South 853 16th Road Midrand 1685, RSA

Phone +27 11 315 5444

Americas

Sartorius Stedim North America Inc. 565 Johnson Avenue Bohemia, NY 11716

Toll-Free +1.800.368.7178

Argentina

Sartorius Argentina S.A. Int. A. Ávalos 4251 B1605FCS Munro Ruenos Aires

Phone +54.11.4721.0505

Sartorius do Brasil Ltda Avenida Senador Vergueiro 2962 São Bernardo do Campo CEP 09600-000 - SP- Brasil

Phone +55.11.4362.8900

Mexico

Sartorius de México, S.A. de C.V. Libramiento Norte de Tepotzotlan s/n, Colonia Barrio Tlacateco. Municipio de Tepotzotlan, Estado de México, CP 54605

Phone +52.55.5562.1102 leadsmex@sartorius.com

Asia | Pacific

Australia

Sartorius Stedim Australia Pty. Ltd. Unit 5. 7-11 Rodeo Drive Dandenong South Vic 3175

Phone +61.3.8762.1800

China

Sartorius Stedim (Shanghai) Trading Co., Ltd. 3rd Floor, North Wing, Tower 1 No. 4560 Jinke Road Zhangjiang Hi-Tech Park Pudona District Shanghai 201210, P.R. China

Phone +86.21.6878.2300

Sartorius Stedim (Shanghai) Trading Co., Ltd. Beijing Branch Office No. 33 Yu'an Road Airport Industrial Park Zone B Shunyi District, Beijing 101300

Phone +86.10.8042.6501

Sartorius Stedim (Shanghai) Trading Co., Ltd. Guangzhou Branch Office Room 1105 Xing Guang Ying Jing Building No. 119, Shui Yin Road Yue Xiu District, Guangzhou 510075

Phone +86.20.3836.4193

Sartorius Stedim India Pvt. Ltd. #69/2-69/3, NH 48, Jakkasandra Nelamangala Tq 562 123 Bangalore, India

Phone +91.80.4350.5250

Japan

Sartorius Stedim Japan K.K. 4th Fl., Daiwa Shinagawa North Bldg. 8-11, Kita-Shinagawa 1-chome Shinagawa-ku, Tokyo, 140-0001 Japan

Phone +81.3.4331.4300

Malaysia

Sartorius Stedim Malaysia Sdn. Bhd. Lot L3-E-3B, Enterprise 4 Technology Park Malaysia Bukit Jalil 57000 Kuala Lumpur, Malaysia

Phone +60.3.8996.0622

Singapore

Sartorius Stedim Singapore Pte. Ltd. 10 Science Park Rd The Alpha #02-13/14 Singapore Science Park II Singapore 117684

Phone +65.6872.3966

South Korea

8th Floor, Solid Space B/D, PanGyoYeok-Ro 220, BunDang-Gu SeongNam-Si, GyeongGi-Do, 463-400

Phone +82.31.622.5700

