

ST034 STABILITY REFRIGERATOR

ST Series Overview

Our ST series stability refrigerators provide the highest level of performance and construction with tight uniformity and control of temperature. They are a common product among laboratory researchers looking for exceptional precision and virtually unlimited customization options available.

ST09

The ST09 is a bench top stability refrigerator designed to fit on 24" benchtops or stacked with optional racking.

ST030

The ST030 is a single-door stability refrigerator.

ST034

The ST034 is a single-door stability refrigerator designed for maximum capacity while still allowing passage through most commercial doorways.

ST055

The ST055 is a 2-door stability refrigerator.

ST084

The ST084 is a 3-door stability refrigerator.



Featured photo is the ST034 stability refrigerator designed for maximum capacity while still allowing passage through most commercial doorways with adjustable shelves.



Featured photo is the ST034 stability refrigerator closed door view, with optional West Controller.

ST SERIES: STABILITY REFRIGERATOR

Our ST series come standard with the following: temperature range of 2° C to 15° C. Control of temperature at sensor of $\pm 0.2^{\circ}$ C. Uniformity inside chamber of $\pm 1.0^{\circ}$ C. Standard Microprocessor Controller with PID, autotuning, programmable alarms, ability to ramp/soak, process variable and setpoint variable offset, dual display of actual temperature and setpoint temperature (process variable and setpoint variable). Controls are able to be quickly exchanged for future upgrades or repair. As always, if you have different specifications, probes, microprocessors etc., we can probably do it.

Superior Control and Uniformity

The ST series chambers control well within the specifications required by the FDA and ICH for GMP studies. Standard control at the sensor in these chambers is $\pm 0.2^{\circ}$ C.

Options Available

- Data Logging
- Chart Recording
- Full swinging interior glass door
- Touch Screen Controls

Widely Proven, Non-Proprietary Controllers

Standard controllers for the ST Series are manufactured by Fuji Electric and are ideal for stability testing chambers. Unlike many proprietary controllers, this controller is commercially available and proven in tens of thousands of installations. Standard functions include: autotuning, fuzzy logic, PID control, programmable alarms, calibration capability, ramp/soak, offset capability, etc. A touchscreen control interface is optional. Other controller manufacturers are also supported (Watlow, Allen-Bradley etc.)

Services and Warranties

We offer 24 hour technical support throughout the lifetime of your chamber. In addition to standard warranties, we also offer extended warranties for cooling components, parts and labor. We also provide qualifications, validations and preventive maintenance services at an additional cost. Please ask for a quote.

ST034 Stability Refrigerator Specifications (ambient 21° C)

Performance	Standard	Customized Option
Temperature Range	2° C to 15° C	-5° C Will Require Defrost
Ambient Temperature	21° C ± 3° C	Available
Temperature Control	± 0.2° C	Available
Temperature Uniformity	± 0.7° C	Available
Control Resolution	0.1° C	Available
Temperature Sensor	NIST Traceable PT100 RTD Class A	Available

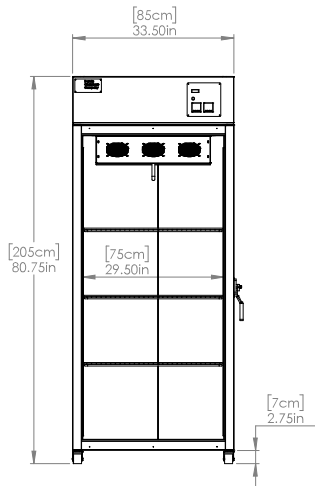
Control System	Standard	Customized Option
Controller	Fuji PXF4 (PID - Fuzzy Logic)	West EC-44, Future Design Touchpad + More
Control Readout	Actual and Set-Point Values	Trending, Duty Cycle
Calibration Correction Capability	Actual and Set-Point Values	Available
Uniformity Off Set	N/A	N/A
Alarm	Audible and Visual	Text, Email, Web Server, Remote Access
Alarm Type	Deviation in 0.1° C or 0.1% RH with Delay	Absolute 0.1 Resolution with Delay
Remote Monitoring	Available	Dry Alarm Contact, RS 485 & Analog Output
Password Protection	Numeric	Numeric, Alpha Numeric
Audit Trail	N/A	Available
Uninterrupted Power Supply (Monitoring)	N/A	Available

Construction	Standard	Customized Option
Exterior	18 gauge Powder-Coated Galvanized Steel door, front, and sides	304 Grade Stainless Steel
Interior	20 gauge 304 Grade Stainless Steel door liner, top, bottom, back and sides	Available
Shelving	3 Stainless Steel Shelves, Supports Up to 150 lbs of Evenly Distributed Weight	Available
Casters	2.75". Total Weight Capacity is 300 lbs per Caster (not including the weight of the chamber)	Available

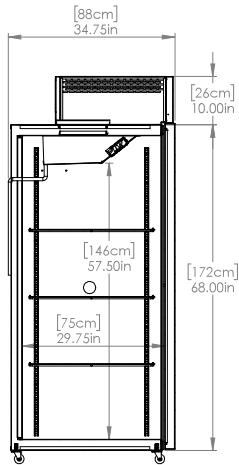
Capacity & Dimensions	US Standard	Metric
Interior Capacity	30.85 ft ³	873.57 liters
External Dimensions	Refer to Drawing Below	Refer to Drawing Below
Internal Dimensions	Refer to Drawing Below	Refer to Drawing Below
Shelf Dimensions	Refer to Drawing Below	Refer to Drawing Below
Crated Weight	765 lbs	347kg

Electrical	US Standard	International
Voltage	115 / 60 / 1	230 / 50 / 1
RLA	8	4 With Step Down Transformer
Cord Length	9 ft	2.74m

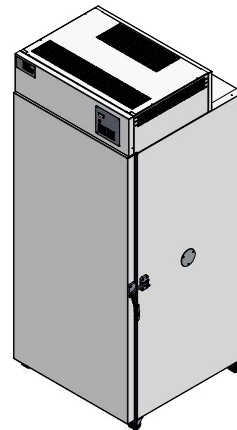




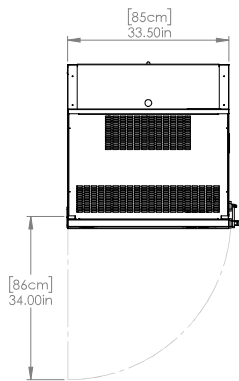
FRONT VIEW
(DOOR REMOVED)



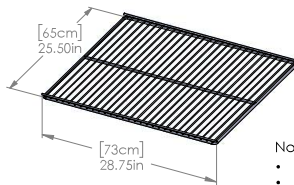
SIDE VIEW
(SECTION)



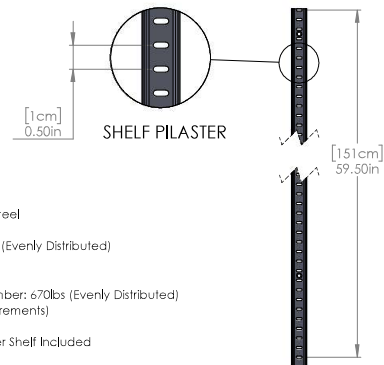
3D VIEW



TOP VIEW



WIRE SHELF



SHELF PILASTER

Notes:

- Shelf Material: 304 Stainless Steel
- Shelf Finish: Polished Steel
- Max Weight per Shelf: 150lbs (Evenly Distributed)
- Chamber Volume: 30.85ft³
- Crated Weight: 765lbs
- Max Load Capacity of Chamber: 670lbs (Evenly Distributed)
- Pilaster Height: 59.5" (1/2" Increments)
- Minimum Spacing: 2"
- 4 Stainless Steel Shelf Clips per Shelf Included
- 2" I.D. Access Port Included

Note: Tolerances are 0.25" unless otherwise stated
*Dimensions and components are subject to change without notice.