

STX1000

Stand-Alone

Description

The **STX1000 is the largest carousel based incubator of the StoreX series**. Like the STX500 the STX1000 can be configured as double Decker carousel allowing 880 MTP using 2x2 levels of standard 540 stackers or 10000 MTP using 680 stackers on the upper deck or configured as single deck using 1200 stackers maximizing its capacity to 1060 MTP. Despite its large capacity, the STX1000 with its 770mm depth and 1970mm height will still fit through any laboratory door or in any maintenance elevator. The wheels lock into place to ensure stability at the workstation.

The STX1000 Series supports a **wide temperature and humidity range**. Namely the STX1000 is available as IC (Incubation), HC (high humidity cold storage), DC (dry, low humidity cold storage), DF (Deep Freezer), HR (high humidity wide temperature range incubator), DR (dry, low humidity wide temperature range storage) and AR (adjustable humidity). The mechanical dimensions of all STX1000 are identical and independent of any Climate Options.

The **STX1000 houses two independently operating carousels**. The transport lift is located on the back side of the incubation chamber between the two carousels having three rotation positions – left carousel, right carousel and transfer station position. The Gate and therefore the transfer station are located in the center of the back side of the instrument. Two large user doors on the front side of the incubator allow simple and easy manual access to the plates inside the incubation chamber. For manual access the carousels may be positioned automatically or rotated manually.

Like all members of the StoreX family the STX 1000 can be equipped with a large number of further options and a wide selection of useful accessories. For details please refer to Options or Accessories.

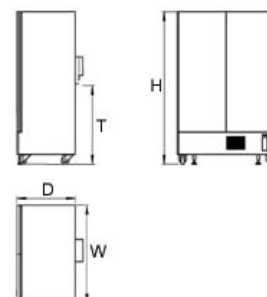


Capacity

Plate Type	Plate Height	Capacity		
		Conf. 1	Conf. 2	Conf. 3
NTP	5 mm	1680	1940	2220
	11 mm	1120	1300	1440
1536	12 mm	1080	1240	1360
	17 mm	880	1000	1060
	22 mm	680	800	860
	23 mm	680	800	860
	24 mm	680	800	860
DWP	27 mm	600	680	740
	44 mm	400	440	500
	53 mm	320	360	420
DiTi200	66 mm	280	300	340
DiTi1000	104 mm	160	180	220

Dimensions

Width (W)	1280 mm
Depth (D)	766 mm
Height (H)	1988 mm
Transfer Height (T)	1000 mm



Climate

Type	Temperature	Relative Humidity		Order Nr.
STX1000-ICSA	33..50°C (70°C)	max. 95 %	Incubator	9136 00 00
STX1000-HCSA ¹⁾	04..25°C	max. 90 %	Humid Cooler	9136 05 00
STX1000-DC2SA ^{1) 3)}	04..25°C	02..50 %	Dry Storage	9136 05 10
STX1000-HRSA ¹⁾	04..50°C (70°C)	90..95 %	Humid Wide Range	9136 05 01
STX1000-DRSA ^{1) 3)}	04..50°C	02..50 %	Dry Wide Range	9136 05 12
STX1000-ARSA ²⁾	04..50°C	20..90 %	Humidity Controlled	9136 05 08
STX1000-DFSA ¹⁾	-20..0°C ⁴⁾	04..45 %	Deep Freezer	9136 05 03
STX1000-NCSA	-	-	No Climate	9136 05 16

1) Humidity depends on temperature setting

2) Humidity adjustable

3) Adjustable dehumidification

4) up to +20°C on request

Specifications

Specifications		STX1000-IC	STX1000-HC	STX1000-DC2	STX1000-DR	STX1000-HR
Application		Incubation	Humid Cooling	Dry Storage	Dry MultiRange	Humid MultiRange
Plate Capacity	Microtiter			44		
	Deep Well			18		
	Nanotiter			84		
Temperature Range (HT)	°C	33..50 (70)	4..25	4..25	4..50	4..50 (70)
Temperature Deviation	°C	+/- 0.2	+/- 0.5	+/- 1	+/- 1.5	+/- 0.3
Relative Humidity	%	max. 95	max. 90	02..50	02..50	90..95
Communication		RS232 V24, 9600Baud, ASCII				
User Software		Win32 / Windows NT / Windows2000				
Facility Requirements		100V / 50Hz; 115V / 60Hz; 230V / 50 Hz; Switchable				
Power Consumption	W	450	400	400	700	500

Handling Specifications

Mean Access Time: 20.5 sec.

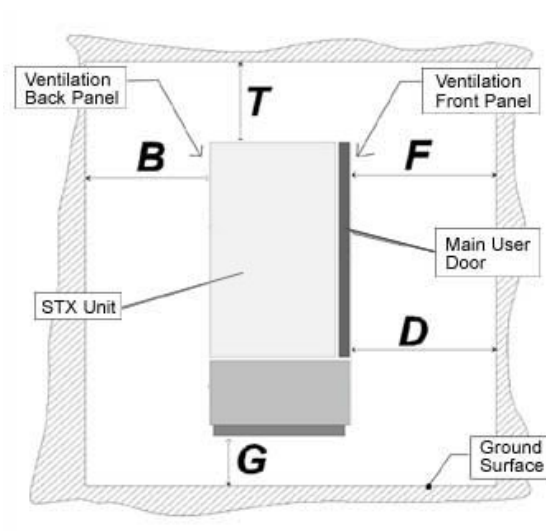
Mean Load Time: 18.9 sec.

Mean UnLoad Time: 22.1 sec.

Package Specifications

Unit	Incl. Cassettes	Net Weight	Tare	Gross weight	Package	Dimensions cm (LxWxH)
STX1000-ICSA	None	435 kg	160 kg	595 kg	Crate	158 x 141 x 223
STX1000-DC2SA	None	565 kg	160 kg	725 kg	Crate	158 x 141 x 223
STX1000-HCSA	None	565 kg	160 kg	725 kg	Crate	158 x 141 x 223
STX1000-HRSA	None	565 kg	160 kg	725 kg	Crate	158 x 141 x 223

Installation Specifications



	B > mm	D > mm	F > mm	G > mm	T > mm
STX1000 SA	100	~ 700	300	0	0
STX1000-DFSA	200	~ 600	500	0	0

IC models do not require distances "F" and "B"



		L > mm	R > mm
STX1000	SA	15	15

Minimum distances to the sidewalls of the units must be maintained in order to allow accessibility to main user door and in order to avoid the main user door to interfere.

Options

	Order Nr.
Bi-Level, 2 carousel platform	9136 05 04
High temperature 70 degrees Celsius capability	9122 06 06
Bar Code Reader Option	9122 06 03
Plate Presence Sensor	9121 00 62
Fast access for time critical applications	9122 06 04
Disposal Tips upgrade kit up to 100 mm height	9118 12 23
UCI Universal Communication Interface	9118 11 17
Liconel self decontaminating incubation chamber	9136 05 11
n-Way Decontamination Option	9122 05 28
Steam Injection Option	9118 11 16
Cascading Option	9136 05 07
Fast CO ₂ Gassing Option	9118 11 12
Fast N ₂ Gassing Option	9118 12 13
Fast O ₂ Gassing Option	9118 11 14
Additional CO ₂ Gassing Option	9118 11 07
Additional N ₂ Gassing Option	9118 11 11
Additional O ₂ Gassing Option	9118 11 08

Accessories

1 Carousel Platform	Order Nr.
Standard MTP cassette, 53 levels, pitch=23mm	9111 05 59
Deep-well cassette, 25 levels, pitch=50mm	9111 05 90
Custom Size cassette, nn levels, mm pitch (specify plate height)	9132 06 08
MTP cassette, 52 levels, pitch=23mm all stainless steel	9132 06 09
Deep-well cassette, 25 levels, pitch=50mm all stainless steel	9132 06 10
Custom Size cassette, nn levels, mm pitch (specify plate height) all stainless steel	9132 06 11

Accessories

Bi-Level, 2 Carousel Platform

Standard MTP Cassette, 22 levels, pitch=23mm	9111 05 00
Deep-well cassette, 10 levels, pitch=50mm	9111 05 42
Custom Size cassette, nn levels, mm pitch (specify plate height)	9118 12 31
MTP cassette, 22 levels, pitch=23mm, all stainless steel	9118 12 26
Deep-well cassette, 10 levels, pitch=50mm all stainless steel	9118 12 27
Custom Size cassette, nn levels, mm pitch (specify plate height) all stainless steel	9118 12 33
Standard MTP cassette, 28 levels, pitch=23mm (only for upper level)	9132 06 16
Deep-well cassette, 13 levels, pitch=50mm (only for upper level)	9132 06 17
Custom Size cassette, nn levels, mm pitch (specify plate height) only for upper level	9132 06 12
Standard MTP cassette, 28 levels, pitch=23mm all stainless steel (only for upper level)	9132 06 13
Deep-well cassette, 13 levels, pitch=50mm, all stainless steel (only for upper level)	9132 06 14
Custom Size cassette, nn levels, mm pitch (specify plate height) all stainless steel (only for upper level)	9132 06 15
Standard Transfer Station with integrated plate detection sensor	9118 02 75
Standard Transfer Station with integrated pate detection sensor and active alignment	9118 00 58
Turn Transfer Station	9118 00 59
Swap Transfer Station	9118 11 00
Slide Transfer Station for extended tranfer reach Motor up (170mm)	9118 12 28
Slide Transfer Station for double extended transfer reach (300mm)	9111 07 81
Custom Size Slide Transfer Station mm transfer reach (specify transfer reach 300-1000mm)	9118 12 30
Parallel Transfer Station	9111 09 92
Lift Station	9111 10 32
Step Turn Station	9111 11 21
Step Slide Station	9111 11 30
Shuttle Transfer Station Turn 90°, Custom Size (specify transfer reach up to 1000 mm)	9111 10 94
Slide Transfer Station 90°, Custom Size (Specify transfer reach up to 1000 mm)	9111 10 95
STX Driver	9118 12 48
STX Driver and Database	9600 00 01
STX GUI incl. STX Driver and Database	9600 00 02
STX System Server	9600 00 03