

# STX500

## Stand-Alone

### Description

This model offers high capacity while maintaining the same compact footprint of the STX220. The STX500 is ideal for high throughput labs with space constraints. **The STX500 is available in three configurations.** Double Decker carousel with standard 540mm cassettes allowing 440 MTP capacity for maximum comfort for manual handling of cassettes. An optimized configuration using 540 cassettes on the lower deck and 680 cassettes on the upper deck will increase capacity to 500 MTP while maintaining comfort and safety of manual operation. For maximum capacity 1200 stacker will top capacity at 530 MTP making it the leader in its class.

The STX500 Series supports a **wide temperature and humidity range**. Namely the STX500 is available as IC (Incubation), HC (high humidity cold storage), DC (dry, low humidity cold storage), HR (high humidity wide temperature range incubator), DR (dry, low humidity wide temperature range storage), and AR (adjustable humidity). The mechanical dimensions of all STX500 are identical and independent of any Climate Options.

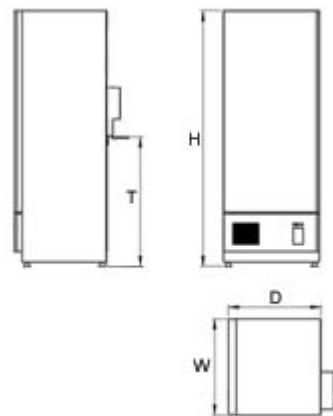
Like all members of the StoreX family the STX500 can be equipped with various types of further options and a wide selection of useful accessories. For details please refer to Options or Accessories.

### Capacity

Plate Type	Plate Height	Capacity		
		Conf.1	Conf.2	Conf.3
NTP	5 mm	840	970	1110
	11 mm	560	650	720
	12 mm	540	620	680
MTP	17 mm	440	500	530
	22 mm	340	400	430
	23 mm	340	400	430
	24 mm	340	400	430
	27 mm	300	340	370
	DWP	44 mm	200	220
	53 mm	160	180	210
	DiTi200	66 mm	140	150
DiTi1000	104 mm	80	90	110



### Dimensions



Width (W)	744 mm
Depth (D)	716 mm
Height (H)	1940 * mm
Transfer Height (T)	1000 mm

\* add 30-45mm for feet

## Climate

Type	Temperature	Relative Humidity		Order Nr.
STX500-ICSA	33..50°C (70°C)	max. 95 %	Incubator	9132 00 00
STX500-HCSA <sup>1)</sup>	04..25°C	max. 90 %	Humid Cooler	9132 05 00
STX500-DC2SA <sup>1) 3)</sup>	04..25°C	04..50 %	Dry Storage	9132 05 10
STX500-HRSA <sup>1)</sup>	04..50°C (70°C)	90..95 %	Humid Wide Range	9132 05 01
STX500-DRSA <sup>1) 3)</sup>	04..50°C	02..50 %	Dry Wide Range	9132 05 03
STX500-ARSA <sup>1) 2)</sup>	04..50°C	10..95 %	Humidity Controlled	9132 05 05
STX500-DFSA <sup>1)</sup>	-20..0°C <sup>4)</sup>	04..45 %	Deep Freezer	9132 05 07
STX500-NCSA	-	-	No Climate	9132 06 19

1) Humidity depends on temperature setting

2) Humidity adjustable

3) Adjustable dehumidification

4) up to +20°C on request

## Specifications

Specifications		STX500-IC	STX500-HC	STX500-DC2	STX500-DR	STX500-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.

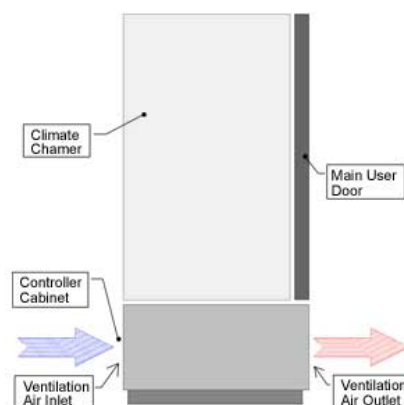
Mean Load Time: 17.8 sec.

Mean UnLoad Time: 23.1 sec.

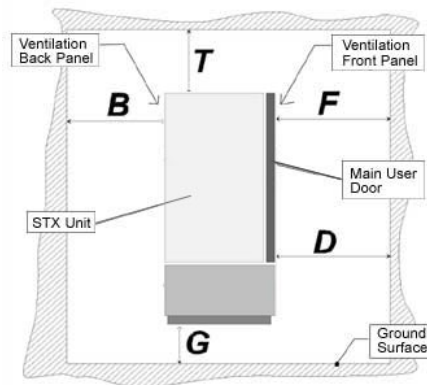
## Package Specifications

Unit	Incl. Cassettes	Net Weight	Tare	Gross weight	Package	Dimensions cm (LxWxH)
STX500-ICSA (Single-Level)	None	246 kg	115 kg	361 kg	Crate	115 x 100 x 220
STX500-DC2SA	None	282 kg	147 kg	429 kg	Crate	115 x 100 x 220
STX500-HCSA	None	282 kg	147 kg	429 kg	Crate	115 x 100 x 220
STX500-HRSA	None	282 kg	147 kg	429 kg	Crate	115 x 100 x 220

## Installation Specifications



	STX500-HCSA	STX500-DCSA	STX500-HRSA	STX500-DRSA	STX500-DFSA
<b>Mass flow for 50 Hz / 60 Hz AC main power</b>					
In cubic meters per hour	925 / 1030 m3/h	925 / 1030 m3/h	925 / 1030 m3/h	925 / 1030 m3/h	1865 / 1970 m3/h
In cubic feet per minute	544 / 606 cfm	544 / 606 cfm	544 / 606 cfm	544 / 606 cfm	1098 / 1160 cfm



	B > mm	D > mm	F > mm	G > mm	T > mm
STX500 SA	100	~ 700	300	0	0

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



		L > mm	R > mm
STX500	SA	10 <sup>1)</sup>	10

1) Recommended for better accessibility

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	9122 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	9132 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	9132 06 20
n-Way Decontamination Option	9122 05 28
Steam Injection Option	9118 11 16
Fast CO2 Gassing Option	9118 11 12
Fast N2 Gassing Option	9118 12 13
Fast O2 Gassing Option	9118 11 14
Additional CO2 Gassing Option	9118 11 07
Additional N2 Gassing Option	9118 11 11
Additional O2 Gassing Option	9118 11 08
Linear Shaker / Probe agitation for cell and compounds solution Amplitude 1-100mm, 12-300 rpm	9122 05 15
Side Gate on right side wall, side transfer location seen from front user door, reduced capacity, 9 cassette positions/platform	9132 06 00
Mirrored Gate Location, on back wall	9132 06 18

## 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 Platforms	Order Nr.
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, all stainless steel, 22 levels, pitch=23mm	9118 12 26
Deep-well cassette, all stainless steel, 10 levels, pitch=50mm	9118 12 27
Custom Size cassette, all stainless steel, nn levels, mm pitch (specify plate height)	9118 12 33
Standard MTP cassette, only for upper level, 28 levels, pitch=23 mm	9132 06 16
Deep-well cassette, only for upper level, 13 levels, pitch=50mm	9132 06 17
Custom Size cassette, only for upper level, nn levels, mm pitch (specify plate height)	9132 06 12
Standard MTP cassette, all stainless steel, only for upper level, 28 levels, pitch=23mm	9132 06 13
Deep-well cassette, all stainless steel, only for upper level, 13 levels, pitch=50 mm	9132 06 14
Custom Size cassette, all stainless steel, only for upper level, nn levels, mm pitch (specify plate height)	9132 06 15
Standard Transfer station with integrated plate detection sensor	9118 02 75
Transfer station with active alignment and integrated plate detection sensor	9118 00 58
90 degree turn transfer station	9118 00 59
Swap transfer station	9118 11 00
Slide transfer station, 170 mm transfer reach	9118 12 28
Slide transfer station, 300 mm transfer reach	9111 07 81
Custom Size Slide Transfer Station mm transfer reach (specify transfer reach 300-1000 mm)	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 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