

# STX220

## Stand-Alone

### Description

The STX220-xxSA (StandAlone) is designed for integration where the instrument is located on the floor. The STX220-xxSA incubators have their handling and climate controls on the lower part of the instrument. The robotic access Gate is located on the upper part of the housing. The SA configuration does not require table space and an SA configured StoreX can easily be put in position without the need of placing the unit on a table.

The STX220-xxSA can be used as basis for an STX220-xxBT allowing an extremely space effective integration of two incubation chambers.

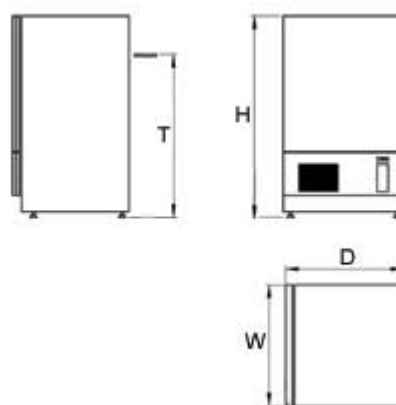
Like all members of the StoreX family the STX220-SA can be equipped with various types of further options and a wide selection of useful accessories. For details please refer to Options or Accessories.



### Capacity

Plate Type	Plate Height	Capacity
NTP (Nanotiter Plates)	5 mm	420
	11 mm	280
1536	12 mm	270
MTP (Microtiter Plates)	17 mm	220
	22 mm	170
	23 mm	170
	24 mm	170
	27 mm	150
DWP (Deep Well Plates)	44 mm	100
	53 mm	80
DiTi200	66 mm	70
DiTi1000	104 mm	40

### Dimensions



Width (W)	744 mm
Depth (D)	716 mm
Height (H)	1203 * mm
Transfer Height (T)	1000 mm

\* add 20-35mm for feet

## Climate

Type	Temperature	Relative Humidity		Order Nr.
STX220-ICSA	33..50°C (70°C)	max. 95 %	Incubator	9122 05 10
STX220-HCSA <sup>1)</sup>	04..25°C	max. 90 %	Humid Cooler	9122 05 11
STX220-DC2SA <sup>1) 3)</sup>	04..25°C	04..50 %	Dry Storage	9123 05 07
STX220-HRSA <sup>1)</sup>	04..50°C (70°C)	90..95 %	Humid Wide Range	9122 05 12
STX220-DRSA <sup>1) 3)</sup>	04..50°C	02..50 %	Dry Wide Range	9122 05 05
STX220-ARSA <sup>2)</sup>	04..50°C	20..90 %	Humidity Controlled	9122 05 21
STX220-DFSA <sup>1)</sup>	-20..0°C <sup>4)</sup>	04..45 %	Deep Freezer	9122 05 27
STX220-NCSA	-	-	No Climate	9123 05 14

1) Humidity depends on temperature setting

2) Humidity adjustable

3) Adjustable dehumidification

4) up to +20°C on request

## Specifications

Specifications		STX220-IC	STX220-HC	STX220-DC2	STX220-DR	STX220-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	04..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

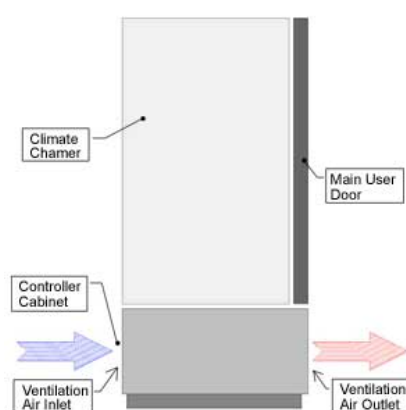
## Handling Specifications

Mean Access Time:	19.3 sec.
Mean Load Time:	9 sec.
Mean UnLoad Time:	12.4 sec.

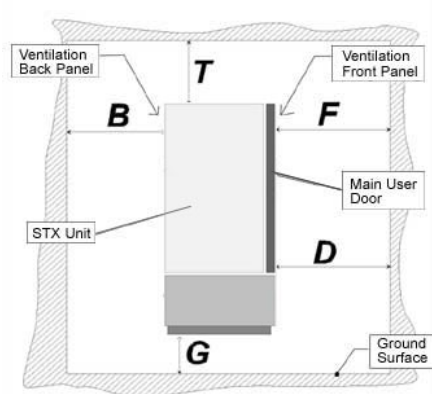
## Package Specifications

Unit	Incl. Cassettes	Net Weight	Tare	Gross weight	Package	Dimensions cm (LxWxH)
STX220-ICSA	10	158 kg	89 kg	247 kg	Crate	99 x 92 x 152
STX220-DC2SA	10	183 kg	89 kg	272 kg	Crate	99 x 92 x 152
STX220-HCSA	10	183 kg	89 kg	272 kg	Crate	99 x 92 x 152
STX220-HRSA	10	183 kg	89 kg	272 kg	Crate	99 x 92 x 152

## Installation Specifications



	STX220-HCSA	STX220-DCSA	STX220-HRSA	STX220-DRSA	STX220-DFSA
<b>Mass flow for 50 Hz / 60 Hz AC main power</b>					
In cubic meters per hour	450 / 525 m <sup>3</sup> /h	450 / 525 m <sup>3</sup> /h	450 / 525 m <sup>3</sup> /h	450 / 525 m <sup>3</sup> /h	925 / 1030 m <sup>3</sup> /h
In cubic feet per minute	265 / 309 cfm	265 / 309 cfm	265 / 309 cfm	265 / 309 cfm	544 / 606 cfm



	B > mm	D > mm	F > mm	G > mm	T > mm
STX220 SA / BT	100	~ 700	300	0	0 <sup>1)</sup>

1) encounter clearance for service accessibility on BT models

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



		L > mm	R > mm
STX220	SA / BT	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.
IT Option for Crystallization applications	9123 05 18
High temperature 70 degrees Celsius capability	9122 06 02
Bar Code Reader Option	9118 11 03
Plate Presence Sensor	9121 00 62
Fast access for time critical applications	9111 10 00
Disposal Tips upgrade kit up to 100 mm height	9118 12 23
Easy Clean option	9122 05 14
UCI Universal Communication Interface	9118 11 17
Liconel self decontaminating incubation chamber	9122 05 25
n-Way Decontamination Option	9122 05 28
Steam Injection Option	9118 11 16
Fast CO <sub>2</sub> Gassing Option	9118 11 12
Fast N <sub>2</sub> Gassing Option	9118 12 13
Fast O <sub>2</sub> Gassing Option	9118 11 14
Additional CO <sub>2</sub> Gassing Option	9118 11 07
Additional N <sub>2</sub> Gassing Option	9118 11 11
Additional O <sub>2</sub> 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 left side wall, side transfer location seen from front user door, reduced capacity 198 MTP, 9 cassette positions	9122 05 16
Mirrored Gate Location, on back wall	9122 05 17

## Accessories

	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, 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 Transfer Station with integrated plate detection sensor	9118 02 75
Standard Transfer Station with integrated plate 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 transfer 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