

# STX44

## Stand-Alone

### Description

The STX44-xxSA (StandAlone) is designed for integration where the instrument is located on the floor. The STX44-xxSA incubators have their handling and climate controls on the lower part of the instrument. The robotic access Gate is located in 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.

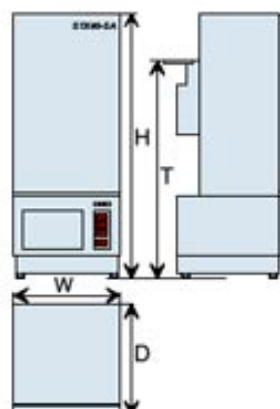
The STX44-xxSA can be used as basis for an STX44-xxBT allowing an extremely space effective integration of two incubation chambers. Like all members of the StoreX family the STX44-SA can be equipped with a large number of further options and a wide selection of useful accessories. For details please refer to Options or Accessories.



### Capacity

| Plate Type              | Plate Height | Capacity |
|-------------------------|--------------|----------|
| NTP (Nanotiter Plates)  | 5 mm         | 84       |
|                         | 11 mm        | 56       |
| 1536                    | 12 mm        | 54       |
| MTP (Microtiter Plates) | 17 mm        | 44       |
|                         | 22 mm        | 34       |
|                         | 23 mm        | 34       |
|                         | 24 mm        | 34       |
|                         | 27 mm        | 30       |
| DWP (Deep Well Plates)  | 44 mm        | 20       |
|                         | 53 mm        | 16       |
| DiTi200                 | 66 mm        | 14       |
| DiTi1000                | 104 mm       | 8        |

### Dimensions



|                     |           |
|---------------------|-----------|
| Width (W)           | 485 mm    |
| Depth (D)           | 514 mm    |
| Height (H)          | 1203 * mm |
| Transfer Height (T) | 1000 mm   |

\* add 20-35mm for feet

## Climate

| Type                         | Temperature            | Relative Humidity |                     | Order Nr.  |
|------------------------------|------------------------|-------------------|---------------------|------------|
| STX44-ICSA                   | 33..50°C (70°C)        | max. 95 %         | Incubator           | 9118 12 00 |
| STX44-HCSA <sup>1)</sup>     | 04..25°C               | max. 90 %         | Humid Cooler        | 9118 04 00 |
| STX44-DC2SA <sup>1) 3)</sup> | 04..25°C               | 04..50 %          | Dry Storage         | 9118 12 55 |
| STX44-HRSA <sup>1)</sup>     | 04..50°C (70°C)        | 90..95 %          | Humid Wide Range    | 9118 05 00 |
| STX44-DRSA <sup>1) 3)</sup>  | 04..50°C               | 02..50 %          | Dry Wide Range      | 9118 05 02 |
| STX44-ARSA <sup>2)</sup>     | 04..50°C               | 20..90 %          | Humidity Controlled | 9118 12 45 |
| STX44-DFSA <sup>1)</sup>     | -20..0°C <sup>4)</sup> | 04..45 %          | Deep Freezer        | 9118 12 38 |
| STX44-NCSA                   | -                      | -                 | No Climate          | 9118 12 40 |

1) Humidity depends on temperature setting

2) Humidity adjustable

3) Adjustable dehumidification

4) up to +20°C on request

## Specifications

| Specifications         |            | STX44-IC   | STX44-HC      | STX44-DC2   | STX44-DR       | STX44-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: 15.3 sec.

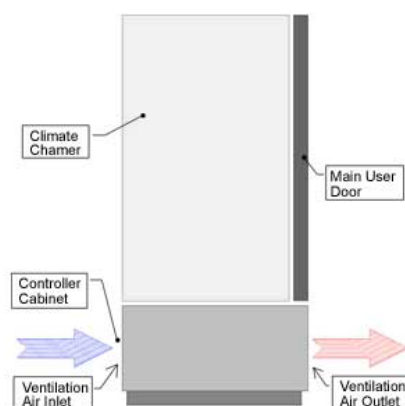
Mean Load Time: 14.1 sec.

Mean UnLoad Time: 16.4 sec.

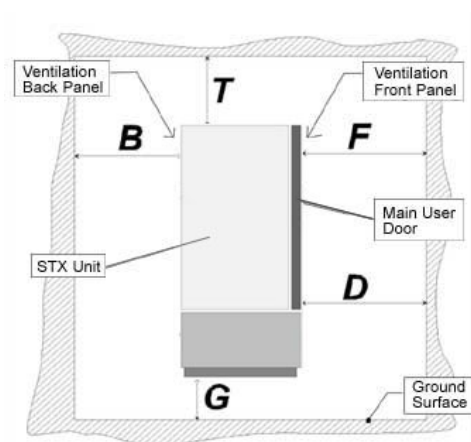
## Package Specifications

| Unit        | Incl. Cassettes | Net Weight | Tare  | Gross weight | Package | Dimensions cm (LxWxH) |
|-------------|-----------------|------------|-------|--------------|---------|-----------------------|
| STX44-ICSA  | 2               | 88 kg      | 57 kg | 145 kg       | Crate   | 85 x 74 x 147         |
| STX44-DC2SA | 2               | 125 kg     | 57 kg | 182 kg       | Crate   | 85 x 74 x 147         |
| STX44-HCSA  | 2               | 122 kg     | 52 kg | 174 kg       | Crate   | 83 x 79 x 149         |
| STX44-HRSA  | 2               | 125 kg     | 57 kg | 182 kg       | Crate   | 85 x 74 x 147         |
| STX44 DFSA  | 2               | 125 kg     | 57 kg | 182 kg       | Crate   | 85 x 74 x 147         |
| STX44-NCSA  | 2               | 89 kg      | 57 kg | 146 kg       | Crate   | 85 x 74 x 147         |

## Installation Specifications



|  | STX44-HCSA     | STX44-DCSA     | STX44-HRSA     | STX44-DFSA      |
|--|----------------|----------------|----------------|-----------------|
| <b>Mass flow for 50 Hz / 60 Hz AC main power</b> |                |                |                |                 |
| In cubic meters per hour                         | 450 / 525 m3/h | 450 / 525 m3/h | 450 / 525 m3/h | 925 / 1030 m3/h |
| In cubic feet per minute                         | 265 / 309 cfm  | 265 / 309 cfm  | 265 / 309 cfm  | 544 / 606 cfm   |



|               | B > mm | D > mm | F > mm | G > mm          | T > mm          |
|---------------|--------|--------|--------|-----------------|-----------------|
| STX44 BT / SA | 300    | ~ 500  | 300    | 0 <sup>2)</sup> | 0 <sup>1)</sup> |

1) encounter clearance for service accessibility on BT models

2) Do not remove Subframe

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



|       |         | L > mm           | R > mm |
|-------|---------|------------------|--------|
| STX44 | BT / 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.  |
|---|------------|
| IT Option for Crystallization   | 9118 12 53 |
| High temperature 70 degrees Celsius capability  | 9118 11 02 |
| Bar Code Reader Option  | 9118 11 03 |
| Plate Presence Sensor   | 9121 00 62 |
| Fast access for time critical applications  | 9111 10 00 |
| Easy Clean option   | 9118 12 21 |
| Deep well upgrade kit   | 9118 12 22 |
| Disposal Tips upgrade kit up to 100 mm height   | 9118 12 23 |
| UCI Universal Communication Interface   | 9118 11 17 |
| Liconel self decontaminating incubation chamber   | 9118 12 43 |
| 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 |
| Shaking option, orbital, 1mm Amplitude, 600 rpm max.                                    | 9118 12 24 |
| Shaking option, orbital, 1mm Amplitude, 1200 rpm max.                                   | 9118 12 25 |
| Shaking option, orbital, 3mm Amplitude, 600 rpm max.                                    | 9118 12 41 |
| Shaking option, orbital, 6mm Amplitude, 400 rpm max.                                    | 9118 12 42 |
| Side Gate on left side wall, seen from front user door, incl. Special Side Access slide | 9118 12 73 |

## 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 |
| MTP cassette, 22 levels, pitch=23mm, all stainless steel for shaker                             | 9121 00 83 |
| Deep-well cassette, 10 levels, pitch=50mm, all stainless steel for shaker                       | 9121 00 84 |
| Custom Size cassette, nn levels, mm pitch (specify plate height) all stainless steel for shaker | 9121 00 85 |
| 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 95 |
| STX Driver  | 9118 12 48 |
| STX Driver and Database   | 9600 00 01 |
| STX GUI incl. Driver and Database   | 9600 00 02 |