

# STR44

## Description

The **STR44** is the smallest member of the STR family. The STR44 has the same width as the STX40 and the same depth as the STX220. Its 44 MTP capacity make it perfectly suitable for small-scale integration, highly miniaturized applications or short time incubation assays. You can use the cassettes for standard plates or the other plate sizes or - if needed - mixing up to two configurations. Throughout can be increased by using two transfer-station positions on the deck. The STR44's compact size makes it ideal for applications with room constraints.

**The STR44 is ideal for protein crystallization work** because the stationary cassettes with the Star concept allowing the periscope the only moving part, reducing vibration and movement of the samples. While allowing full remote access on handling and climate functions, you still are able to manually access the cassettes and samples through the large front door for loading and unloading your product.

The STR44 supports a wide temperature and humidity range. Namely the STR44 is available as IC (Incubation), HC (high humidity cold storage), DC (dry, low humidity cold storage, HR (high humidity wide temperature range incubator) and DR (dry, low humidity wide temperature range storage).

## Capacity

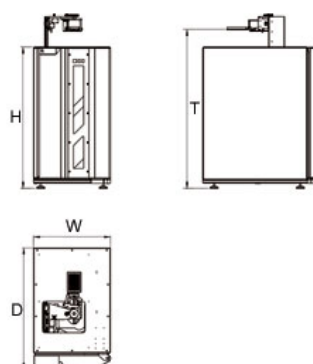
Plate Type	Plate Height	Capacity
NTP (Nanotiter Plates)	5 mm	84
	11 mm	56
	12 mm	54
MTP (Microtiter Plates)	17 mm	44
	22 mm	34
	23 mm	34
	24 mm	34
DWP (Deep Well Plates)	27 mm	30
	44 mm	20
	53 mm	16
DiTi200	66 mm	14
DiTi1000	104 mm	8

Where low vibration is needed the climate part of the unit can be separated from the incubation chamber. Mechanical dimensions of all STR44s are identical and independent of any Climate Options.

Like all members of the StoreX Star family the STR 44 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.



## Dimensions



Width (W)	486 mm
Depth (D)	763 mm
Height (H)	857* mm
Transfer Height (T)	1000 mm

\* add 20 – 35 mm for feet

## Climate

Type	Temperature	Relative Humidity		Order Nr.
STR44-IC	33..50°C (70°C)	max. 95 %	Incubator	9147 00 20
STR44-HC	<sup>1)</sup> 04..25°C	max. 90 %	Humid Cooler	9147 00 21
STR44-DC2	<sup>1) 3)</sup> 04..25°C	04..50 %	Dry Storage	9118 12 59
STR44-HR	<sup>1)</sup> 04..50°C (70°C)	90..95 %	Humid Wide Range	9147 00 22
STR44-DR	<sup>1) 3)</sup> 04..50°C	02..50 %	Dry Wide Range	9147 00 37
STR44-AR	<sup>1) 2)</sup> 04..50°C	10..95 %	Humidity Controlled	9147 00 38
STR44-DF	<sup>1)</sup> -20..0°C <sup>4)</sup>	04..45 %	Deep Freezer	9118 12 49
STR44-NC	-	-	No Climate	9147 00 43

1) Humidity depends on temperature setting

2) Humidity adjustable

3) Adjustable dehumidification

4) up to +20°C on request

## Specifications

Specifications		STR44-IC	STR44-HC	STR44-DC2	STR44-DR	STR44-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:	21.2 sec.
Mean Load Time:	20.2 sec.
Mean UnLoad Time:	22.2 sec.

## Weights and Dimensions

Unit	Incl. Cassettes	Net Weight	Tare	Gross weight	Package	Dimensions cm (LxWxH)
STR44-ICIT	2	117 kg	64 kg	181 kg	Crate	115 x 74 x 147
STR44-HRIT	2	154 kg	64 kg	218 kg	Crate	115 x 74 x 147
STR44-HCIT	2	154 kg	64 kg	218 kg	Crate	115 x 74 x 147
STR44-DC2IT	2	154 kg	64 kg	218 kg	Crate	115 x 74 x 147

## Options

	Order Nr.
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
Disposal Tips upgrade kit up to 100 mm height	9118 12 23
UCI Universal Communications Interface	9118 11 17
Liconel self decontaminating incubation chamber	9118 12 44
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
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

## Accessories

	Order Nr.
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 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	9147 00 24
Left Side Transfer Station, transfer reach 300 mm	9143 01 56
Left Slide Transfer Station, custom size mm	9118 12 35
Right Side Transfer Station, transfer reach 300 mm	9143 01 57
Dual Slide Transfer Station, transfer reach 300 mm	9143 01 58
STX Driver	9118 12 48
STX Driver and Database	9600 00 01
STX GUI incl. STX Driver and Database	9600 00 02