

STR240

Description

STR Periscope

New Automated Incubator Generation

This unit shares the same footprint as the STX220, but with greater capacity.

The STR240 will hold up to 240 MTP with 23mm pitch. It's ideal for multiple cassette/sample configurations. The unit sits entirely under the workstation or liquid handler deck. Multiple transfer-station can be used to increase production and throughput.

The STR240 is ideal for protein crystallization work because the carousel can be stationary 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. For better access to cassettes located in the back of the incubation chamber the integrated carousel maybe positioned automatically or be rotated manually.

The STR240 Series supports a wide temperature and humidity range. Namely the STR240 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). Where low vibration is needed the climate part of the unit can be separated from the incubation chamber. Mechanical dimensions of all STR240s are identical and independent of any Climate Options.

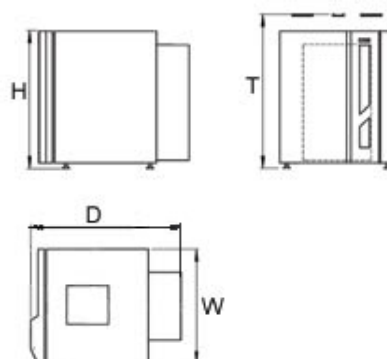
Like all members of the StoreX Star family the STR 240 can be equipped with a large number of further options and a wide selection of useful accessories. For details please refer to Options or Accessories



Capacity

Plate Type	Plate Height	Capacity
NTP (Nanotiter Plates)	5 mm	462
	11 mm	308
1536	12 mm	297
MTP (Microtiter Plates)	17 mm	240
	22 mm	187
	23 mm	187
	24 mm	187
	27 mm	165
DWP (Deep Well Plates)	44 mm	110
	53 mm	88
DiTi200	66 mm	77
DiTi1000	104 mm	44

Dimensions



Width (W)	744 mm
Depth (D)	975 mm
Height (H)	857* mm
Transfer Height (T)	1000 mm

* add 20 – 35 mm for feet

Climate

Type		Temperature	Relative Humidity		Order Nr.
STR240-IC		33..50°C (70°C)	max. 95 %	Incubator	9143 00 91
STR240-HC	1)	04..25°C	max. 90 %	Humid Cooler	9143 00 92
STR240-DC2	1) 3)	04..25°C	04..50 %	Dry Storage	9122 05 32
STR240-HR	1)	04..50°C (70°C)	90..95 %	Humid Wide Range	9143 00 93
STR240-DR	1) 3)	04..50°C	02..50 %	Dry Wide Range	9122 05 30
STR240-AR	2)	04..50°C	20..90 %	Humidity Controlled	9143 01 96
STR240-DF	1)	-20..0°C 4)	04..45 %	Deep Freezer	9122 05 29
STR240-NC		-	-	No Climate	9143 02 04

1) Humidity depends on temperature setting

2) Humidity adjustable

3) Adjustable dehumidification

4) up to +20°C on request

Specifications

Specifications		STR240-IC	STR240-HC	STR240-DC2	STR240-DR	STR240-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: 24.6 sec.

Mean Load Time: 23.8 sec.

Mean UnLoad Time: 25.4 sec.

Weights and Dimensions

Unit	Incl. Cassettes	Net Weight	Tare	Gross weight	Package	Dimensions cm (LxWxH)
STR240-IC	11	190 kg	103 kg	293 kg	Crate	85 x 111 x 150
STR240-DC2	11	240 kg	103 kg	343 kg	Crate	85 x 111 x 150
STR240-HC	11	240 kg	103 kg	343 kg	Crate	85 x 111 x 150
STR240-HR	11	240 kg	103 kg	343 kg	Crate	85 x 111 x 150
STR240-DF	11	225 kg	103 kg	328 kg	Crate	85 x 111 x 150

Options

	Order Nr.
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
UCI Universal Communications Interface	9118 11 17
Liconel self decontaminating incubation chamber	9143 01 97
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	9143 02 00

Accessories

	Order Nr.
Inverted cassette MTP, 22 levels, pitch=23mm, all stainless steel	9118 01 96
Inverted cassette deep-well, 10 levels, pitch=50mm, all stainless steel	9118 01 97
Inverted Custom Size cassette, nn levels, mm pitch (specify plate height) all stainless steel	9118 12 32
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
Transfer Station removable	9143 01 72
STX Driver	9118 12 48
STX Driver and Database	9600 00 01
STX GUI incl. Driver and Database	9600 00 02