

TT-200-1-SC / TT-200-2-SC Sample Concentrator

HIGHLIGHTS

- Uniform gas output ensures entire air chamber to be filled with inert gas for improved and accurate results
- Concentrate dozens of samples simultaneously
- Independent gas control valves and optional flow regulating valve minimize wastage of nitrogen gas
- Can be used in fume hood when concentrating toxic solvents
- Adjustable gas needle position to suit different types of sample tubes
- Simple installation, operation and maintenance
- Built-in over temperature protection device, automatic fault detection system and alarm function
- Digital display of temperature and time
- Compact foot print, fits all standard fume hood

TT-200-1-SC/TT-200-2-SC Sample Concentrator is the all new and upgraded version of its predecessors intended to provide rapid evaporation of solvents from samples in test tubes or containers. The newly designed air chamber can be filled entirely with inert gas (nitrogen). With this technology, a uniform gas output of each stainless steel needle is guaranteed. Furthermore, any unused needle can be lifted conveniently. It works under the principle of solvent evaporation to concentrate samples. By heating the samples/ solution in a dry block heater coupled with a stream of inert gas (nitrogen) direct to the surface of the sample, vapour is rapidly driven off and the sample is quickly concentrated.

The sample concentrator is built with gas manifold plate mounted onto a height adjustable stand which allows flexible positioning above the samples. There are independent gas control valves that are used to control the gas flow towards the surface of each sample via gas needles. It is a compact device commonly used to replace high cost rotary evaporators and safe to be used in fume hood.



TT-200-2-SC



TT-200-1-SC

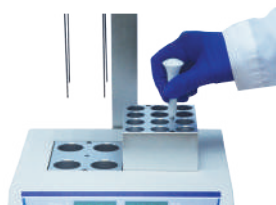
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Lab Systems

EACH STANDARD SET INCLUDES



- 1 Block lifter
- 2 Allen wrench



Easy exchange of block module with block lifter

OPTIONAL ACCESSORIES

Flow regulating valve can be connected to nitrogen gas tank and inlet of gas needle to control nitrogen gas flow rate



TT-SC-V

APPLICATIONS

- Molecular biology, drug screening and analytical procedures (HPLC, GCMS), hormone assays
- Remove solvent from DNA samples
- Chromatographic analysis



TT-200-1-SC



TT-200-2-SC



TT-DT-01A



TT-DT-02A



TT-DT-03A



TT-DT-04A



TT-DT-05A



TT-DT-06A



TT-DT-07A



TT-DT-08A



TT-DT-09A



TT-DT-10A



TT-DT-11A



TT-DT-12A



TT-DT-13A



TT-DT-14A



TT-DT-15A



TT-DT-16A

TECHNICAL DATA

Specifications	TT-200-1-SC Sample Concentrator	TT-200-2-SC Sample Concentrator
Temperature control range	R.T. +5 C – 150°C	R.T. +5 C – 150°C
Temperature stability at 40 -100°C	≤±0.5°C	≤±0.5°C
Temperature stability at 100 -150°C	≤±1.0°C	≤±1.0°C
Block temperature uniformity at 100°C	≤±0.5°C	≤±0.5°C
Temperature display accuracy	0.1°C	0.1°C
Heating speed	≤30 min (40°C to 150)	≤30 min (40°C to 150)
Digital time setting	1min – 99h 59min or continuous	1min – 99h 59min or continuous
Maximum vertical travel	285 mm	285 mm
Outer diameter of gas inlet	Ø7 mm	Ø7 mm
Nitrogen pressure	≤0.1MPa	≤0.1MPa
Nitrogen flow rate	0 – 10L/min	0 – 10L/min
Needle length	150 mm	150 mm
Sample capacity	1 standard block	2 standard blocks
Voltage	AC 110V / AC 220V, 50/60 Hz	AC 110V / AC 220V,50 / 60 Hz
Power	200W	400W
Dimension (W x D x H)	200 x 230 x 525 mm	200 x 260 x 525 mm
Net weight	5.1 kg	6.1 kg

ORDERING INFORMATION

Cat. No.	Sample Concentrator
TT-200-1-SC-110V	Sample Concentrator TT-200-1-SC, R.T.+5-150°C, Single Block, AC 110V
TT-200-1-SC-220V	Sample Concentrator TT-200-1-SC, R.T.+5-150°C, Single Block, AC 220V
TT-200-2-SC-110V	Sample Concentrator TT-200-2-SC, R.T.+5-150°C, Dual Block, AC 110V
TT-200-2-SC-220V	Sample Concentrator TT-200-2-SC, R.T.+5-150°C, Dual Block, AC 220V

OPTIONAL ACCESSORIES

Cat. No.	Block for Sample Concentrator	Diameter of block well	Bottom shape of block well	Dimension
TT-DT-01A	12 x 6 mm	6.5 mm	Round bottom	95.5 x 76.5 x 50 mm
TT-DT-02A	12 x 7 mm	7.5 mm	Round bottom	95.5 x 76.5 x 50 mm
TT-DT-03A	12 x 10 mm	10.5 mm	Round bottom	95.5 x 76.5 x 50 mm
TT-DT-04A	12 x 12 mm	12.5 mm	Round bottom	95.5 x 76.5 x 50 mm
TT-DT-05A	12 x 13 mm	13.5 mm	Round bottom	95.5 x 76.5 x 50 mm
TT-DT-06A	12 x 15 mm	15.5 mm	Round bottom	95.5 x 76.5 x 50 mm
TT-DT-07A	12 x 16 mm	16.5 mm	Round bottom	95.5 x 76.5 x 50 mm
TT-DT-08A	12 x 19 mm	19.5 mm	Round bottom	95.5 x 76.5 x 50 mm
TT-DT-09A	6 x 20 mm	20.5 mm	Round bottom	95.5 x 76.5 x 50 mm
TT-DT-10A	6 x 26 mm	26.5 mm	Round bottom	95.5 x 76.5 x 50 mm
TT-DT-11A	4 x 28 mm	28.5 mm	Flat bottom	95.5 x 76.5 x 50 mm
TT-DT-12A	2 x 40 mm	40.5 mm	Round bottom	95.5 x 76.5 x 50 mm
TT-DT-13A	12 x 0.5 ml	8.0 mm	Cone bottom	95.5 x 76.5 x 50 mm
TT-DT-14A	12 x 1.5 ml	10.8 mm	Cone bottom	95.5 x 76.5 x 50 mm
TT-DT-15A	12 x 2.0 ml	10.8 mm	Round bottom	95.5 x 76.5 x 50 mm
TT-DT-16A	12 x 0.2 ml	6.1 mm	Cone bottom	95.5 x 76.5 x 50 mm

Cat. No.	Flow Regulating Valve
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TT-SC-V	Flow regulating valve for Sample Concentrator
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