

The vacuum centrifugal concentrator combines centrifugal force, controlled heating, and vacuum generated by an external pump for rapid solvent evaporation.

Typical Applications

Aqueous Solvents: Removal of low concentrations of non-aggressive organic solvents from aqueous mixtures such as methanol–water and acetonitrile–water.

DNA Extraction: Complete drying of DNA precipitates with up to 100% recovery, typically from methanol and water.

Non-Aggressive Organic Solvents: Methanol, Ethanol, Acetonitrile.

Aggressive Organic Solvents (Low Boiling Point): Chloroform, Ethyl Acetate, Acetone, Methylene Chloride, Hexane.

Aggressive Organic Solvents (High Boiling Point): DMSO, DMF, Toluene, Nitrobenzene.

Strong Acids and Bases: TFA, HCl, Acetic Acid, Formic Acid, Ammonium Hydroxide, Sodium Hydroxide.



Ambient Temperature type / Refrigerated type

Technical Parameter

Model	ST-30	ST-30R
Temperature Range	+30°C ~ +100°C (1°C Increment)	-10°C~+100°C (1°C Increment)
Temperature Accuracy	±1°C	
Max.Speed	2500rpm	
Max.Capacity	6x100ml	
Timer for Run & Heat	0~99h59min	
Vacuum Control Range	0.1~1000mbar	
Main Unit With Vacuum Levels	0.01mbar	
Noise	≤49dBA	≤55dBA
Compressor		1/3 hp
Voltage	0.7kw	1.3kw
Power Supply	220v-250V, 50Hz	
Dimension(L×W×Hmm)	350x440x300mm	430x650x400mm



- 01 Microprocessor LCD touch screen, displaying operational parameters: like speed, temperature, vacuum, and running time along with quick stop, pre-heat, auto/manual run, lid lock indicator etc. with USB port for data transfer.
- 02 Vacuum Delayed start: after reaching a fixed speed, Start the vacuum pump to effectively prevent sample mixing.
- 03 Fully automatic vacuum control system, vacuum setting range 0.1 ~ 1000 mbar, Control accuracy 0.1 mbar with inbuilt vacuum release valve.
- 04 Audio and visual alarm relating to all the running parameters and any deviation in the system.
- 05 Programmable with temperature and pressure settings, capable of storing 36 programs.
- 06 Chemical resistant stainless steel interior with optional PTFE coated & transparent glass lid for easy observation.
- 07 Maintenance-free, non-contact drive, fully sealed and imbalance detection.
- 08 Safety in use: inductive electric self-suction door lock ensures the centrifugal concentrator can only start when the door cover is fully closed and locked.
- 09 Can be used in conjunction with freeze-drying systems along with centrifugation and desiccator.
- 10 Optional -60°C Cold trap, Chemical trap, Post trap for oligo preps, Ammonia neutralization trap for oligo preps.

Key features

Adapter Rotor

Different chemical resistant autoclavable at 121°C rotors can be configured according to customer requirement



Rotor Type		Rotor Volume		Rotor Type		Rotor Volume	
Angle Rotor		24×1.5/2ml		Angle Rotor		8/10×50ml	
Angle Rotor		50/108/216×1.5/2ml		Angle Rotor		6×100ml	
Angle Rotor		50×5ml		Angle Rotor		16*20ml Sample vial	
Angle Rotor		30×10ml		Angle Rotor		16*5ml+8*4ml+8*3ml	
Angle Rotor		10/24×15ml		Microplate Rotor		2×96well	

Vacuum Pump

Different rotors can be configured according to customer requirements.



Oil pump (standard configuration)

Chemical corrosion-resistant diaphragm pump (optional)

Chemical corrosion-resistant hybrid pump (optional)

SELECT REFRIGERATION