

Sample Concentrator



Introduction:

The sample concentrator employs a sweeping needle capture technique, which allows for simultaneous temperature-controlled heating of the samples. Utilizing inert gases such as nitrogen, it rapidly, controllably, and continuously blows onto the sample surface, achieving rapid anaerobic concentration of the sample volume. This method is characterized by its time-saving, convenient, and precise nature and is extensively applied in fields such as pesticide residue analysis, pharmaceutical testing, environmental analysis, bio-analysis, commodity inspection, and food and beverage testing.

Features:

- * The distribution chamber's gas channels can be combined or used individually, with independent control for each. The height of the distribution chamber can be adjusted as needed.
- * Individual gas flow adjustment for each channel, addressing the issue of inconsistent flow rates in traditional nitrogen blowers, and featuring a flexible self-balancing lifting system.
- * Digital temperature controller with dual digital display, using PID technology for regulation and capable of high-temperature alarm.
- * All solvent-contact parts are made of 316 stainless steel for durability and ease of cleaning.
- * The entire unit can be used inside a fume hood.
- * Optional gas flow meters and pressure regulators are available for each model.
- * Standard test tube rack is $\phi 16.5\text{mm}$; the hole diameter and arrangement pattern are customizable.

Technical Parameters:

Model	BK-SC12	BK-SC24	BK-SC36	BK-SC48
Heating Method	Water bath			
Max Number of Samples	12	24	36	48
Temp. Control Range	RT~100°C			
Temp. Accuracy	$\pm 1^\circ\text{C}$			
Heating Time	20~25min (From 25°C to 100°C)			
Max Gas Usage	15L/min			
Consumption	600W			
Timing Range	1~999min			
Needle Length	150mm			
Needle Diameter	1mm			
Power Supply	220V, 50/60Hz			
External Size (W*D*H)	340*200*460mm			
Packing Size (W*D*H)	500*280*410mm			
Net Weight	7kg	7.5kg	7.5kg	8kg
Gross Weight	9kg	9.5kg	9.5kg	10kg