

Nitrogen Evaporator



ANTITECK LIFE SCIENCES LIMITED

Add: A1-519, XingGang GuoJi, Yingbin Road, Huadu, Guangzhou, China

Tel: +86 133 1286 3972

Web: <https://antiteck.com>

E-mail: info@antiteck.com

Dry Bath nitrogen evaporator

The nitrogen evaporator is mainly used for the concentrated preparation of large quantities of samples, such as sample preparation in drug screening, hormone analysis, liquid phase, gas phase and mass spectrometry analysis. Working principle: By blowing nitrogen gas into the surface of the heated sample, the solvent in the sample is quickly evaporated and separated, so as to achieve the purpose of oxygen-free concentration of the sample and keep the sample more pure. Using a nitrogen evaporator instead of a rotary evaporator for concentration, can concentrate dozens of samples at the same time, greatly shortening the sample preparation time, and has the characteristics of time-saving, easy operation, and fast.

Product Features

- Automatic fault detection and alarm function;
- Standard equipped with air cavity and special adjustable bracket;
- Built-in over temperature protection device;
- Instant temperature display, time decrease display;
- Each purge needle can be independently controlled, with multi-channel control switch, no waste of gas;
- The heater enables the sample to be quickly and effectively heated to the evaporation temperature, while the gas is blown from the gas chamber to the surface of the solution through the gas needle to promote rapid evaporation of the solution and concentration of the sample;
- The entire working system consists of an adjustable gas chamber and heater;
- The position of the gas needle in the air cavity can be changed to make it suitable for different test tube standards. The length of the gas needle is 150mm;
- The height of the air chamber can be adjusted according to the height of the solvent liquid level. When the toxic solvent is concentrated, the whole system can be placed in the fume hood.



MD200-1

MD200-2

Technical Parameters (Note: Please see page 72 for details of optional modules)

Model	MD200-1 (12-position dry nitrogen blower)	MD200-2 (24-position dry nitrogen blower)
Item No	1007007001	1007008001
Temperature range (°C)	RT+5~150	RT+5~150
Time setting	0-99h59min	0-99h59min
Temperature stability@40°C (°C)	±0.3	±0.3
Display accuracy (°C)	0.1	0.1
Heating time (20°C to 100°C) (min)	≤15	≤15
Nitrogen pressure (MPa)	≤0.1	≤0.1
Nitrogen flow (L/min)	0~10	0~10
Air needle length (mm)	150	150
Sample handling capacity	1 standard module	2 standard modules
Size (mm)	330×200×540	330×220×540
Net weight (kg)	6.5	8
Gross Weight	8	9.5
Power supply	AC220V,50Hz	AC220V,50Hz
Power (w)	200	400
Standard module	12Hole*16.5mm	2*12Hole*16.5mm
Optional module	HX06,HX07,HX08,HX09,HX18,HX19,HX20(见P67)	HX06*2,HX07*2,HX08*2,HX09*2,HX18*2,HX19*2,HX20*2

Water Bath nitrogen evaporator

The Water bath nitrogen evaporator avoid the disadvantages of using rotary evaporators for concentration : slow concentration and troublesome operation, especially not suitable for small samples, especially the small amount of samples. For samples that cannot be heated or even need to be cooled and concentrated, the nitrogen blowing apparatus can only be used for concentration. The nitrogen evaporator independently developed, designed and produced by our company use purge and trap technology, and at the same time, it can control and heat the sample, and use inert gas such as nitrogen to quickly, and continuously blow to the sample surface to achieve rapid oxygen-free sample solution concentrate. This method is time-saving, convenient and accurate. It is widely used in food safety, medicine, pesticide residue testing, clinical pharmacology and other fields.

Product Features

- The air needle channels on the distribution chamber can be used in combination or alone, and each air needle can be switched on and off individually.
- The height of the distribution room can be adjusted as needed;
- The gas flow of each channel can be adjusted individually to meet the different needs of users. At the same time, it overcomes the weakness of the non-adjustable nitrogen blowing instrument with different gas flow rates.
- The unique self-balancing suspension lifting system, ingeniously designed, makes the height adjustment of the distribution room more flexible; Digital thermostat, dual digital display, PID technology for adjustment and over-temperature alarm;
- The parts that may be in contact with the solvent are made of 316 stainless steel, which has a long service life and is easy to clean; the whole machine can be used in a fume hood;
- Each model can be equipped with gas flow meter and pressure regulating valve;
- Generally, the standard size of the test tube rack is aperture ϕ 15mm, and users of special specifications can pre-book their special aperture and arrangement.



Technical Parameters

Model	ST-12	ST-24	ST-36	ST-48
Item No	1007003001	1007004001	1007005001	1007006001
Process several samples	12	24	36	48
Weight (kg)	7	7.5	7.5	8
Heating mode	Water bath			
Number of standard heating blocks	One test tube rack			
Tube diameter (mm)	16.5			
Temperature control accuracy(°C)	±1			
Temperature control range (°C)	Room temperature-100			
Nitrogen consumption (ml/min)	330/ sample (adjustable)			
Gas flowmeter (L/min)	0-15			
External dimension (mm)	500*280*410	500*280*410	500*280*410	500*280*410
Power (w)	600			