

# VCC-3000 Series

## Vacuum Centrifugal Concentrator



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**Analytical Technologies Limited**

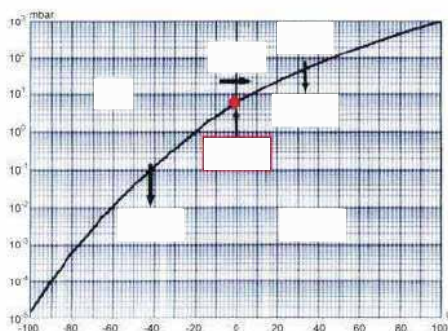
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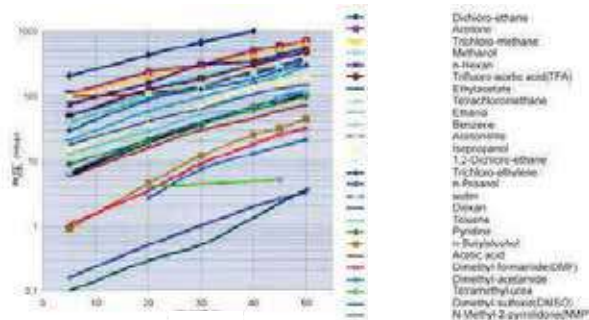
## ►► Application range

- DNA/RNA (solvent, ethanol, methanol)
- PCR product
- Liquid chromatography (HPLC) product
- Synthesis and separation of organic substrates
- Substrate preservation and processing
- High throughput screening (HTS)
- Toxicological identification, forensic identification
- Chemical composition
- General analysis of food and environmental samples
- Laboratory evaporation

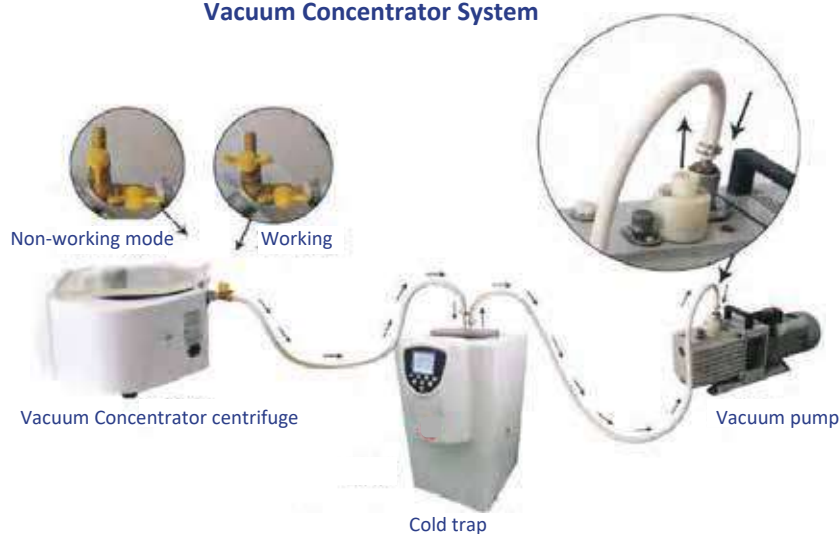
Water vapor pressure curve



General organic solvent vapor pressure curve



Vacuum Concentrator System



## ►► VCC-3011, VCC-3022, VCC-3033 Vacuum Centrifugal Concentrator

The VCC series of vacuum centrifugal concentrator can quickly evaporate or remove the water and organic solvents from the sample. The processed sample can be conveniently used for the purpose testing and research, widely used for various qualitative and quantitative analyses. Chemical analysis, biological analysis, immuno-screening, food safety, residue analysis, etc.

Suitable for concentration of immunoglobulins, concentration of drug metabolites, SPE solid phase extraction, Liquid phase chromatographic spectrum before and after processing, ADMET/toxicology, polymer chemistry, DNA/RNA purification and concentration, forensic/drug abuse testing.



## ►► Specification

Model	VCC-3011	VCC-3022	VCC-3033
Rotor Capacity	62×1.5mL	12×10mL or 6×50mL	6×250mL (6×2×50mL or 6×5×20mL adapter)
Speed	1500r/min	1500r/min	2000r/min
RCF	220xg	220xg	500xg
Total Power	1kW	1kW	1.5kW
Max Current	5A	5A	7A
Ambient Temp	0°C~+40°C	0°C~+40°C	0°C~+40°C
Noise	≤50dB (A)	≤50dB (A)	≤50dB (A)
Temp. control Range	Room temp ~+ 60°C or without Heater		
Vacuum degree	0.1mbar		
Vacuum interface	φ10mm		
Vacuum pump (recommended)	VP-4C		
Cold trap (recommended)	CT-3006		
Power	AC220V/50Hz		
Weight	21kg	21kg	38kg
Dimension (L×W×H)	500×490×280mm	500×490×280mm	600×540×360mm
Package dimensions			

## ►► Main Features

- Micro-controller and high-torque brushless motor provide stable operation and low noise
- Vacuum sample heating (optional)
- LCD touch screen monitor with TFT true color
- With over temperature warning function.
- The diving room can be heated to 60 °C.
- Aluminum alloy diving room with corrosion resistant coating
- Free-maintenance, non-contact drive rotation system.
- Transparent cover for observing operation status
- Microprocessor based technology, easy and direct operation interface
- Concentration time: 1min-99h59min, can be combined with cold trap.
- Split design, free assembly and matching, flexible and convenient.
- Different types of optional rotors available

## ►► Rotors Parameter

### Fixed-Angle Rotor

#### Figure



#### Parameter

Max Speed : 1500r/min  
 Serial No : H022-003-106-301  
 For VCC-3011 model

Max Speed : 1500r/min  
 Serial No : H022-003-107-301  
 For VCC-3022 model

Max Speed : 1500r/min  
 Serial No : H022-003-020-301  
 For VCC-3022 model

Max Speed : 2000r/min  
 Serial No : H026-003-012-301  
 For VCC-3033 model

### Swing plate rotor



Max Speed : 2000r/min  
 Serial No : H026-002-052-221  
 For VCC-3033 model

## ►► Vacuum Pump

**Model** : VP-4C  
**Speed** : 14.4m<sup>3</sup>/h  
**Ultimate vacuum** : 2Pa  
**Total power** : 550W  
**Power** : AC220V/50Hz



## ►► Cold trap

The Evaporation rate is influenced by the energy that has been absorbed and the speed of the vacuum pump. A relatively large evaporation surface area of a sample, rather than sample capacity and quantity is the blockage that affect the efficiency of the vacuum pump. Therefore instead of using bigger vacuum pump, employ the cold trap. The application of the cold trap helps to condense vapors on the one hand and enhance then evaporation density of organic solutions for better condensation.



## ►► Main Features

- TFT true color touch wide screen indicating temperature of cold trap
- Volume: 4 L
- Temperature range: normal temperature -40°C
- Compressor coolant: R404 a
- Temperature adjustment:  $\pm 1^{\circ}\text{C}$
- Circulation: Hermetic circulation

## ►► Specification

<b>Model</b>	CT-3006
<b>Min temp</b>	- 40°C
<b>Cooling power</b>	300W
<b>Cooling System</b>	R404a
<b>Collection capacity</b>	200mL
<b>Vacuum interface</b>	$\phi 10\text{mm}$
<b>Circulation</b>	Hermetic circulation
<b>Time range</b>	1min-99h59min
<b>Temperature adjustment</b>	$\pm 1^{\circ}\text{C}$
<b>Weight</b>	44kg
<b>Dimensions(L×W×H)</b>	440×340×630mm
<b>Package dimensions</b>	

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**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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