The low temperature circulator continuously offers chilled coolant to rotary evaporator and other instrument which working in a low temperature condition. It reduces the consumption of tap water and improve the cooling efficiency. With a compact structure and environment-friendly design, it is an ideal choice for academic, analytical and industrial laboratories.

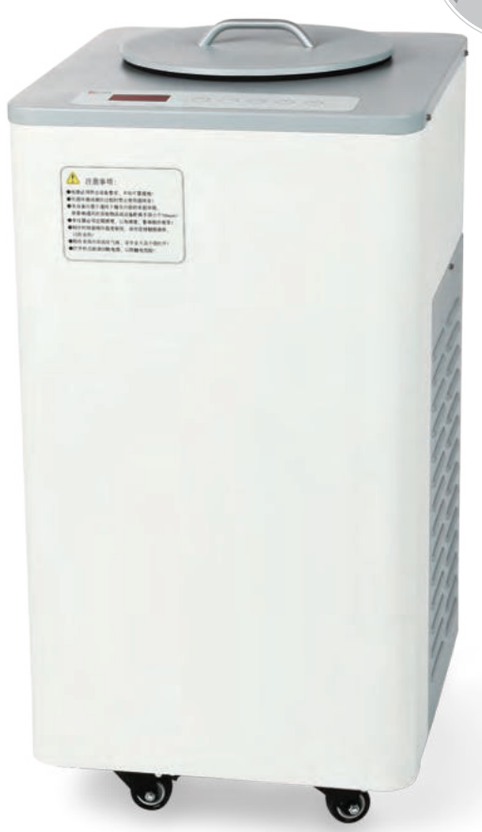
CCP5-15
CCP5-20

Low Temperature Circulator

Features & Advantages

- PID temperature control with built-in PT1000 sensor provides high accuracy of temperature control
- LED display shows the set or actual temperature clearly
- Short circuit protection, over-current/overload protection, and delayed start protection
- Integrated design of drain outlet and coolant circulation outlet for convenient operation
- German-made pump that is environment-friendly, quiet and durable
- The compressor employs state-of-the-art R290 environment-friendly refrigerant to protect environment and human health
- CCP5-20 support connecting 2 units evaporators with excellent cooling performance (need order another hose 18203125 for this application)

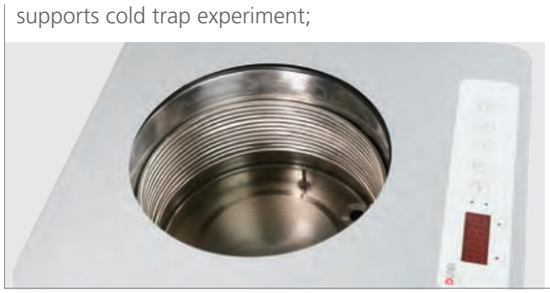
New



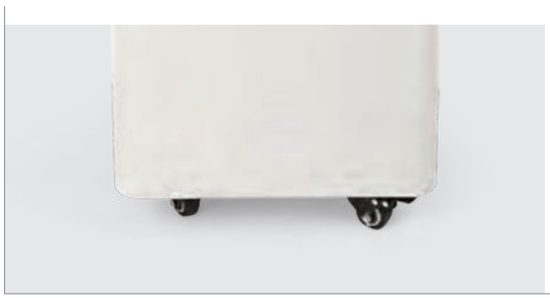
- The part in contact with liquid is made of stainless steel or high-quality corrosion-resistant material;

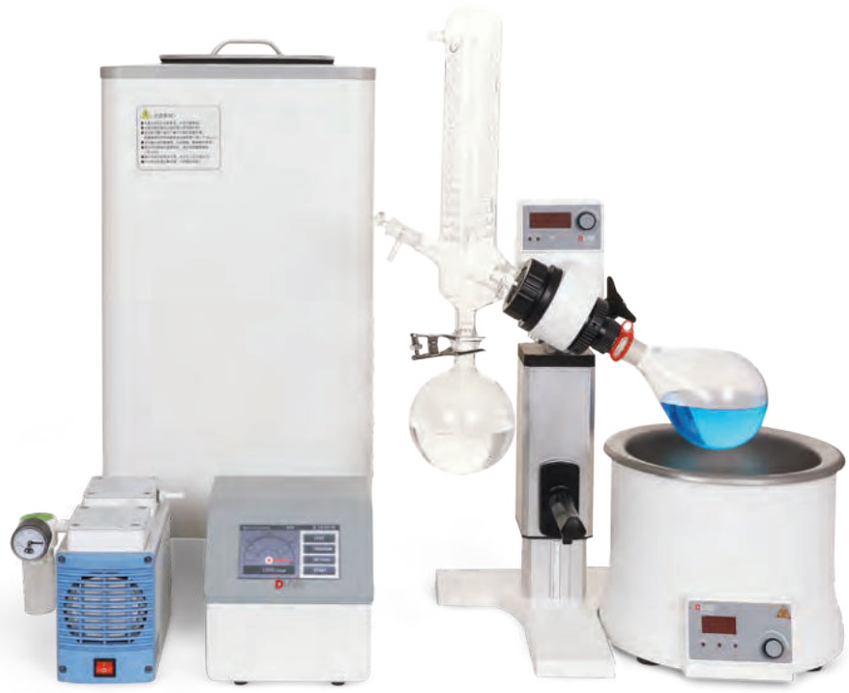
- User-friendly operating panel configuration;

- A large-volume open reservoir allows easy filling and supports cold trap experiment;



- The caster design for free movement and fixing.





Specifications	CCP5-15	CCP5-20
Range of temperature control	-15°C-Room temperature	-20°C-Room temperature
Temperature adjustment accuracy	0.1°C	0.1°C
Temperature control accuracy	±1.0°C（-20°C ~0°C typical value) ±0.5°C（0°C ~20°C typical value）	±1.0°C（-20°C ~0°C typical value） ±0.5°C（0°C ~20°C typical value）
Reservoir capacity	5L	5L
Range of temperature adjustment	-30°C~30°C	-30°C~30°C
Temperature display	LED	LED
Type of temperature sensor	PT1000	PT1000
Compressor refrigerant	R290	R290
Circulating pump throughput	12L/min	12L/min
Pump pressure	0.6 bar	0.6 bar
Circulating pump head	6m	6m
In-out cycle interface	12mm pagoda-type interface	12mm pagoda-type interface
RS232 interface	Yes	Yes
Machine power	350W	700W
Maximum overall dimensions	370 x 420 x 730(mm) with caster	440 x 460 x 730(mm) with caster
Weight	46kg	50kg
Power supply	220V 50Hz/60Hz	220V 50Hz/60Hz, 110V 50Hz/60Hz
Operating environment	10~40°C, RH≤80%	10~40°C, RH≤80%

Cooling capacity

CCP5-15	°C	-15	-10	-6.7	-5	0	5	7.2
	W	381	460	520	553	661	786	847
CCP5-20	°C	-20	-13	-10	0	10	14	20
	W	607	668	694	785	883	924	989

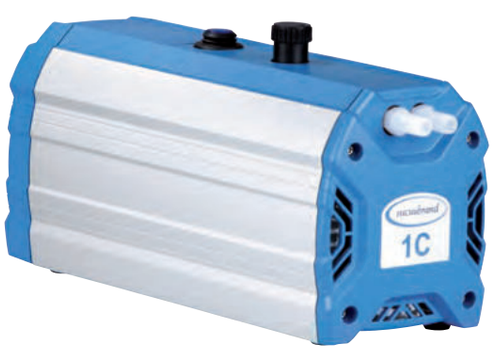
Additional

MZ 1C Chemistry-design diaphragm pump

Specification

Number of heads / stages:2 / 2
Max. pumping speed:0.75 m³/h
Ultimate vacuum (abs.):12mbar
Nozzle Size:DN 8-10 mm
Rated motor power:0.06kW
Rated motor speed:1500/1800 rpm
Noise level:45dB
ATEX:II 3G IIC T3 X Internal Atm. only

Cat. No.	Voltage
18900231	Cn plug, 100V-120V/200-230V 50Hz/60Hz
18900232	Euro plug,100V-120V/200-230V 50Hz/60Hz
18900233	USA plug,100V-120V/200-230V 50Hz/60Hz
18900234	UK plug,100V-120V/200-230V 50Hz/60Hz



Seals and other accessories

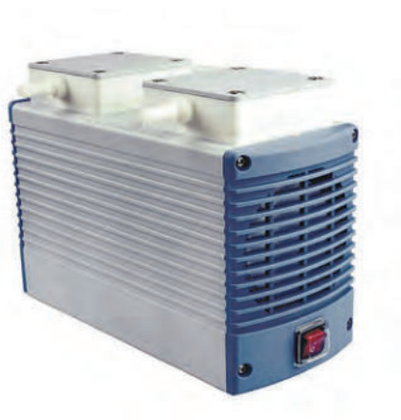
Cat. No.	Description	
18202027	PTFE vacuum seal	
18900362	Ultra resistant FFKM seal for applications with highly abrasive solutions	
18900190	Evaporation flask clip(red) CS002440	
18900188	Evaporation flask clip(green) CS002942	

C410 Chemistry-design diaphragm pump

Specification

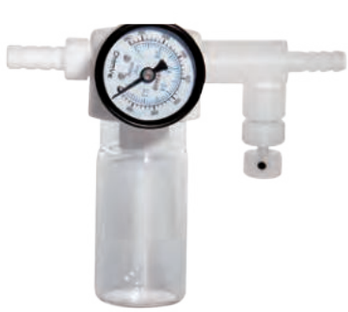
Maximum Vacuum:13mbar
Work Mode: Continuous Operation
Nozzle Size:8mm, Power: 95W
Motor speed:1450rpm
Flow Rate:

mbar	1000	880	750	600	480	280
L/min	25	22	20	12	7.5	5

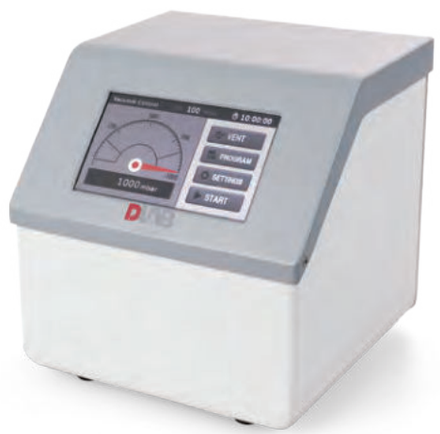


Vacuum regulator/moisture trap

Cat. No.	Description
18900186	In use of control small volume, installed in a vacuum between DVR480 and vacuum system. Material: PVDF, PTFE, ABS, Borosilicate Glass, Stainless Steel



The vacuum controller serves as a device for labs to display, adjust and control the degree of vacuum in vacuum systems. It generally constitutes the vacuum control system of rotary evaporator along with vacuum pump, which enables repeatable distillation experiment and recovery of many kinds of solvents in an efficient and automatic manner.



VC100

Vacuum Controller

Features

- A wide range of measurement and control, 1-1,000mbar
- Two control modes of single-point control and programmed control available for choice as needed
- Can store up to 5 programs, each containing up to 5 segments of programming control
- A large-size TFT touch screen display control allows easy operation
- All parts in contact with vapor or liquid are made of PTFE, ceramics or other high-performance materials and can effectively resist corrosion caused by organic solvents, water, acid and alkali
- A built-in vent valve can feed inert gas into system equipment
- One-stroke decompression allows easy installation and dismantling of vacuum system
- Can be connected with pump power control for temporary shutdown of pump power supply after reaching stable degree of vacuum for energy conservation and environmental protection. Can also be operated in the normally open statue of pump

Specifications	VC100
Vacuum setting range	1-1000mbar
Vacuum measurement range	1-1000mbar
Control operation mode	Single-point control mode, Programmed control mode
Control program	Can store up to 5 programs, each containing 5-step control (capable to set the degree of vacuum and time)
Setting method	Touch screen setting
Display	5'' TFT
Sensor overload pressure	1,500mbar
Connector diameter	8mm
Materials in contact with vapor	PTFE, PP, silicone and ceramics
Power	600W
Compatible conditions with vacuum pump	power of 50Hz vacuum pump ≤400W power of 60Hz vacuum pump ≤500W
Overall dimensionsW×D×H	189×207×193mm
Weight	4.0kg
Power supply	110—240V,50Hz/60Hz
Operating environment	10°C～40°C，≤80%RH