

Low Temperature circulator

Evaporator, Vacuum Unit

Organic Synthesizer

Oven, Incubator

Bath, Cold Trap

Low Temperature circulator

Stirrer, Shaker

Freeze Dryer

EYELA

## Desktop Low Temperature Circulator CCA-1111



CCA-1111

Refrigerating unit	Air cooling
Operation temp. range	-20°C-20°C (without heater)
Cooling capacity	450W (387kcal) at liquid temp. 10°C
Pump max. flow	9/10L/min (50/60Hz)
Pump head pressure	4.2/5.6m (50/60Hz)

### Features

- Compact size circulator suitable for cooling the rotary evaporator and the laboratory size reactor.
- As the nozzle can be rotated freely 360°, the system assembly with related products is easy.
- The capacity of CCA-1111 is powerful enough to operate both one aspirator and one rotary evaporator (N-1001, sample flask 500mL).

### Specifications

Product Name	Desktop Low Temp. Circulator (Cool Ace)	
Model	CCA-1111	
Cat.No	219959	219950
Circulation method	Closed loop	
Temperature range	-20-20°C	
Temperature accuracy	±2°C	
Cooling Capacity	450W (387kcal/hr) (at liquid temp. 10°C) 310W (266kcal/hr) (at liquid temp. -10°C)	
Cooling coil materials	Copper with nickel coating	
Temp. setting & display	Sheet key input. digital display. minimum display scale 0.1°C	
External input & output signal	Temp. recorder output. Alarm output	
External circulation nozzle	Inlet and outlet connection. OD 11mm	
Bath inner material & volume	SUS304. 156W*225D*1150H . 4L. working volume 3L	
Ambient temperature	5-35°C	
Overall dimensions (mm)	232W*479D*490 (548)H	
Net weight	29Kg	
Power source	AC220V, 50/60Hz, 800VA	AC100V, 50/60Hz, 800VA

### Compact size design



### Cold water circulating system



### Optional accessories:



Valve for flow control  
Catalog No.182460



R3/8"1\*female  
catalog No.216450



One touch coupling  
catalog No.216450

### Easy to change filter



### Freely adjustable nozzle direction



Product name	Type	Cat.No
Desktop type Low temp circulat	CCA-1111	219959
Rotary evaporator	N-1001V-W	188750
Vacuum control unit	NVC-2100	216639
Solenoid valve for vacuum cont	CV-1	196910
Fixed plate of vacuum contrlolle	N-NVC3	189310
Diaphragm vacuum pump	D1VAC-1.2L	170660
Cold insulation hose set	I. D 9mm 2m x 2	112700
Vacuum hose	I. D 6 x O.D 15mm 5m	119170

# Low Temperature Circulator CA-1111 • 1112



CA-1112

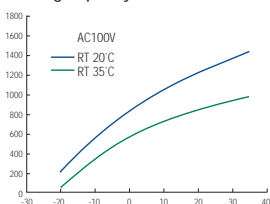
Refrigerating unit	Air cooling, 675W,R407c
Operation temp. range	-20°C-30°C(without heater)
Cooling capacity	1200W(1030kcal) at liquid temp. 10°C
Pump max. external flow	16/18L/min(50/60Hz)
Pump head pressure	9.5/13m(50/60Hz)

## Operation panel

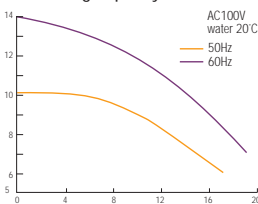


## Data

### Cooling capacity



### Circulating capacity



## Optional accessories



**High pressure pump HPP**  
 The same discharge pressure as tap water is obtained: 10L/min, 196kPa(2Kg/cm)  
 When standard pump is not strong enough due to high pressure loss in flow process, the unit is recommended.  
 HPP-1100: Cat. No.158750



**Aspirator CA-1AS**  
 By attaching an Aspirator, it can be used as vacuum pump and cooling device for cooling device for concentration instruments like and evaporator.  
 Cat.No. 210570



**Sealing lid**  
 Bath lid used with an open circulation system  
 Cat. No. 112780

## Features

- CA-1111•1112 covers a temperature range from -20°C to 30°C (without heater).
- Big cooling capacity of 1200W at liquid temp. 10°C.
- The unit implements wide application. In addition to its main application, cooling laboratory equipment, the unit can be used in various fields where heat generating components are used; industrial, analytical and measuring equipment.
- A wide variety of safety functions mark the CA-1111•1112 fit for various applications.
- Thermal protector is built-in at circulating pump.
- Refrigerator protection timer is equipped. 80 seconds delay timer is built-in in the temperature controller.

## Specifications

Product Name	Low Temperature Circulator (cool Ace)			
Model	CA-1111		CA-1112	
Cat. No	188319	188318	203970	203978
Circulation method	Closed loop			
Temperature range	-20-30°C (without heater)			
Temperature accuracy	±2°C			
Cooling Capacity	1200W(1030kcal/hr) (at liquid temp. 10°C) 950W(820kcal/hr) (at liquid temp. 0°C) 650W(560kcal/hr) (at liquid temp. -10°C)			
Temperature control	Refrigerator ON-OFF control			
Cooling coil materials	Copper with nickel coating			
Temp. setting & display	Sheet key input, digital display, minimum display scale 0.1°C			
Safety functions	ELCB, Overcurrent breaker, Self-diagnostic temp. control, Refrigerator overload relay, Highpressure switch, Refrigerator protection timer, Circulation pump thermal protector, Fuse for service terminal			
Additional functions	Temp. display compensation, Flow stop valve			
External circulation nozzle	Inlet and outlet connection, OD 10.5mm hose end			
Bath inner material & volume	SUS304, ø280*270H, 16.5L (Water volume 14L)			
Ambient temperature	5-35°C			
Overall dimensions (mm)	340(354)W*384D*851(910)H			
Net weigh	41Kg			
Power source	115V 50/60Hz	220V 50/60Hz	100V 50/60Hz	