

Streamlined Low Temperature Circulator CA-1113



CA-1113

Refrigerating unit	Air cooling, 675W, R407C
Operation temp. range	-20°C-20°C (without heater)
Cooling capacity	900W (77kcal) at liquid temp. 10°C
Pump max. flow	14/16L/min (50/60Hz)
Pump head pressure	9.5/13m (50/60Hz)

Operation panel



System to operate two evaporators



System code SYS09213

Product name	Type	Cat.No
Rotary evaporator	N-1001V-W	188750
Rotary evaporator	N-1001V-W	188750
Plate for fixing vacuum control	N-NVC3	189310
Low temp. circulator	CA-1113	219960
Solvent recovery Unit	DPE-2120	216690
Pump base		201460
Diaphragm Vacuum pump	DTC-41	188880
Cold insulation hose set	1.09mm 2m*5 pcs	112700
Cold insulation hose set	1.09mm 5m*2 pcs	174420
Vacuum hose	1.06mm*0.015mm 5m	119170

Features

- CA-1113 is designed to minimize installation space and enhance efficient floor use in the laboratory.
- Various safety functions are included such as self-diagnostic function and refrigerator overload relay.
- An alarm output terminal is available (option)
- The capacity of CA-1113 is powerful enough to cool two aspirators and two 1L rotary evaporators simultaneously, or two 1L rotary evaporators and two solvent recovery units.

Specifications

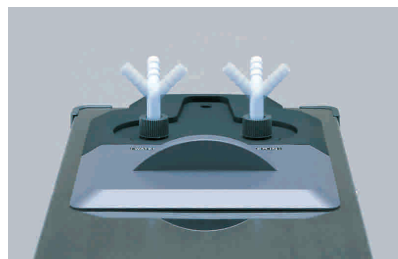
Product Name	Streamlined Low Temperature Circulator(Cool Ace)	
Model	CA-1113	
Cat. No	219969	219960
Circulation method	Closed loop	
Temperature range	-20-20°C (without heater)	
Temperature accuracy	±2°C	
Cooling capacity	900W(774Kcal/hr)(at liquid temp. 10°C) 550W(473Kcal/hr)(at liquid temp. -10°C)	
Cooling coil materials	Copper with nickel coating	
Temp. setting & display	Sheet key input, digital display, minimum display scale 0.1°C	
Safety functions	ELCB, Overcurrent breaker, self-diagnostic temp. control, Refrigerator overload relay, highpressure switch, Refrigerator Protection timer, Circulation pump thermal protector	
External circulation nozzle	Inlet and outlet connection, OD 10.5mm hose end	
Bath inner material & volume	SUS304, 154W*223D*230H, 7.9L	
Ambient temperature	5-35°C	
Overall dimensions(mm)	232W*497D*800 (835)H	
Net weight	40Kg	
Power source	AC220V, 50/60Hz	AC100V, 50/60Hz
Input power	1.1kVA	

Slim design, requiring very little space.



This model can be installed by the side of laboratory table.
By using CA-1113, two 1L rotary evaporators and one solvent recovery unit can be operated.

Freely adjustable nozzle direction



The direction of circulating nozzle can be changed 360 degree.

Drain outlets can be set at either side of the unit.



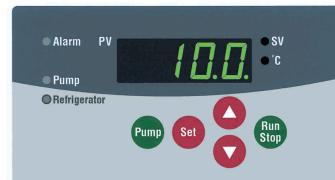
Built-in, compact type Low Temperature Circulator CA-1310



CA-1310

Refrigerating unit	Air cooling
Operation temp. range	-20°C-20°C (without heater)
Cooling capacity	675W (387kcal) at liquid temp. 10°C
Pump max. flow	16/18L/min (50/60Hz)
Pump head pressure	9.5/13m (50/60Hz)

Operation panel



Visual check of the water level



LCD realizes clear viewing and operation panel angle is adjustable



Product name	Type	Cat. No
Output lead cord	ROL-100	114230



Product name	Type	Cat. No
Pressure Gauge	CA-P2	210610



Product name	Type	Cat. No
Flow meter	CA-F2	210600



Cold insulation hose set (For temp. -35-85°C)

Hose diamete	Standard	Cat.No
1D.9mm	1m	112690
	2m	112700
	5m	174420

Features

- CA-1310 is designed as a compact Cool Ace. The unit can be placed below laboratory table top thanks to low height and is helpful in using the limited laboratory space efficiently.
- Various safety functions are included such as self-diagnosis function and refrigerator over load relay.
- An alarm output terminal is available (option).
- The capacity of CA-1310 is powerful enough to cool two aspirators and two 1L rotary evaporators simultaneously or two 1L rotary evaporators and two solvent recover units.

Specifications

Product Name	Built-in compact type Low Temp Circulator (Cool Ace)		
Model	CA-1310		
Cat. No	208329	208328	208320
Circulation method	Closed loop		
Temperature range	-20-20°C		
Temperature accuracy	±2°C		
Cooling capacity	1200W(1030kcal/hr) (at liquid temp. 10°C) 800W(690kcal/hr) (at liquid temp. 0°C) 500W(430kcal/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		
Safety functions	ELCB, Overcurrent breaker, Self-diagnostic temp. control, Refrigerator overload relay, Highpressure switch, Refrigerator protection timer, Circulation pump thermal protector		
Additional functions	Display temperature compensation function, flow stop valve		
External circulations nozzle	Inlet and outlet connection, OD 10.5mm hose end		
Bath inner material & volume	SUS304, 254W x 270D x 194H, 13L, Working volume 10.5L		
Ambient temperature	5-35°C		
Overall dimensions (mm)	460W x 430D x 570H		
Net weight	44Kg		
Power source	AC115V, 50/60Hz	AC220V, 50/60Hz	AC100V, 50/60Hz
Input power	1.1kVA		

Can be placed under the laboratory table

