



Water circulation bath (For combi-chem liquid phase synthesis) Model UA-100CL Controls synthesis temperature from outside. It controls the temperature in the reaction tube by circulating the heating / cooling liquid to reaction tube rack of synthesis unit. Flow path is newly designed only for liquid phase synthesizer model CCL series.

Model	UA-100CL
Temp. range	-10~+90°C
Temp. control accuracy	±0.1°C
External circulation	4 / 4.8L/min (50/60Hz)
Bath capacity	5.8L
Safety feature	Empty heating prevention, Circuit protector, Refrigeration unit abnormality
Overall dimensions (mm) / weight	275Wx 306D x564H / Approx.19kg
Electricity	12A, 1.2kVA / AC100V, 50/60Hz

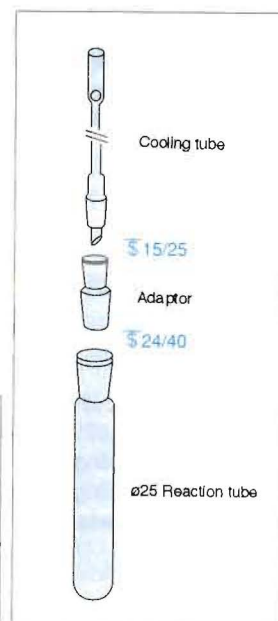
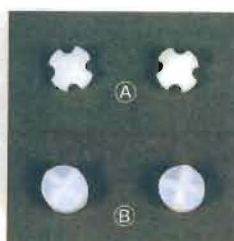
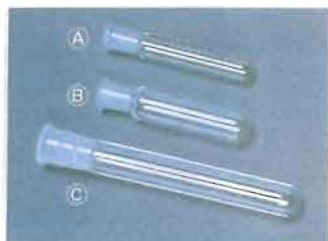


Inert gas controller Model IGR-030 · 035
Micro pressure controller assures safety of reaction tube.
Recommended when using a gas cylinder

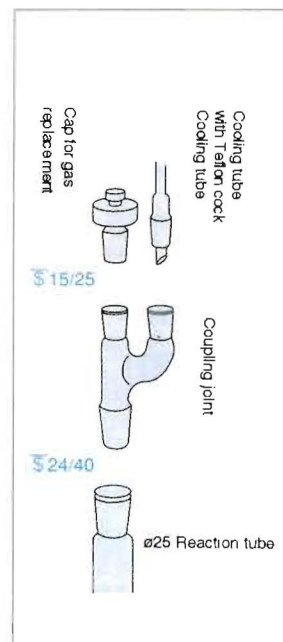
Model	IGR-030	IGR-035
Control method	Manual (0~2kg/cm ²)	-----
Control range	0~2kg/cm ²	0.3kg/cm ² (fixed)
Input pressure	Below 5.6kg/cm ²	
Pressure display	Analog gauge	
Safety features	Safety valve	Safety valve
Material of gas contact part	PEEK, Teflon, PP, SUS	PP, Aluminium, brass, Viton
Connecting part size	Inlet: "1/4" tubing, Outlet: 1/4-28 fitting	
Overall dimensions (mm)	120Wx230Dx150H	120Wx230Dx150H
Net weight (approx.)	2kg	2kg

Standard Parts · Consumable Parts

Reaction tube Cooling tube (L) Coupling joint Adaptor Stirring bar
 Cooling tube with cock (R)



Description	Model	Contents	Specification
Reaction tube A	RT-6L	6 pcs set	
Reaction tube B	RT-10L	6 pcs set	
Reaction tube C	RT-20L	2 pcs set	
Cooling tube	TC-6L	6 pcs set	
Cooling tube with Teflon cock	TC-2LC	2 pcs set	
Coupling joint	Y-4025	2 pcs set	
Adaptor	A-4025	2 pcs set	
Stirring bar A	ST-10L	10 pcs	For $\varnothing 18$
Stirring bar B	ST-20L	10 pcs	For $\varnothing 25$



Specifications and appearance are subject to change without notice.
IMPORTANT! For your safety, read instruction manual before operation.

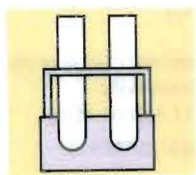
TOKYO RIKAKIKAI CO., LTD.

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• Block

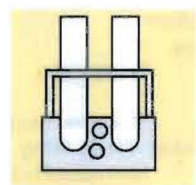
CCL-B-418

For \varnothing 18mm reaction tube
 Heating block (4 pcs tubes)
 Heater, Temp. sensor built-in.
 Accessories : \varnothing 18 Reaction tube 4 pcs
 Stirring bar 4pcs



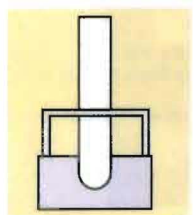
CCL-B-418L

For \varnothing 18mm reaction tube
 Cooling block (4 pcs tubes)
 Cooling pipe, Temp. sensor built-in.
 Accessories : \varnothing 18 Reaction tube 4 pcs
 Stirring bar 4pcs



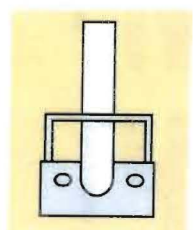
CCL-B-225

For \varnothing 25mm reaction tube
 Heating block (2 pcs tubes)
 Heater, Temp. sensor built-in.
 Accessories : \varnothing 25 Reaction tube 2 pcs
 Stirring bar 2pcs



CCL-B-225L

For \varnothing 25mm reaction tube
 Cooling block (2 pcs tubes)
 Cooling pipe, Temp. sensor built-in.
 Accessories : \varnothing 25 Reaction tube 4 pcs
 Stirring bar 2 pcs



Optional accessories

Gas replacement unit (For CCL-160M • 1200 • 2400)

Gas replacement unit Model RG-6 • 12 • 24

The unit enables the synthesis under inert atmosphere. Use this unit if synthesis experiment is required under the atmosphere of inert gas as Ar or N₂ (Anhydrous reaction) For the injection of reagent, you can select pipette or septum injection whichever meets the experiment condition.



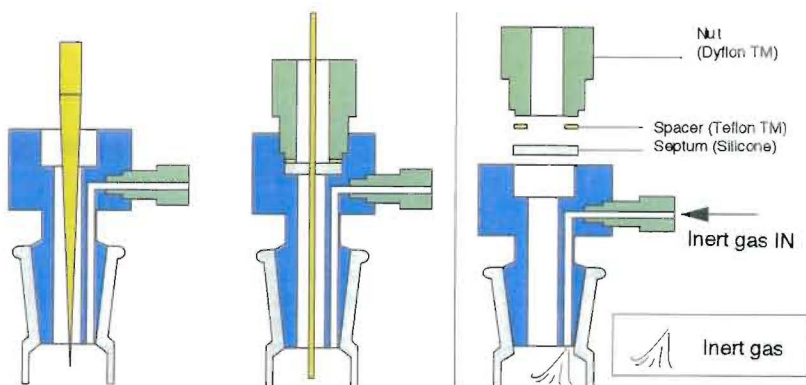
- Each gas line is independent flow path in order to avoid cross contamination.
- All the lines are controlled simultaneously and independently by Panel operation.
- Down flow method gas supply from cap replaces the atmosphere certainly.
- Liquid contact parts are inert made for occurred gas.
- Unique cap structure realizes 2 ways of reagent injection.
 1. Direct injection by pipette while flowing inert gas with open system.
 2. Syringe injection with closed system through septum.



Pipette type Septum type

Injection by pipette

Injection by Septum



Specifications

Description	Gas replacement unit		
Model	RG-6	RG-12	RG-24
Attachable to	CCL-160M	CCL-1200, CCL-4S	CCL-2400, CCL-4S
Gas replacement	Down flow method of inert gas (Independent flow path, Vacuum possible)		
Reagent injection	Pipette type / Septum type (By changing the bolt at the top of cap)		
Material of reagent part	Teflon, Dyflon, PEEK, PPS		
Set contents	Unit, Cap (septum / Pipette), Cable		

* Choose the above unit by the number of tube when using CCL-4S

* Use inert gas controller (IGR-030) for safety certain operation.