

## Square Drying Chamber DRC-1000 • 1000REC • 1100 • 1100REC



DRC-1000 DRC-1100

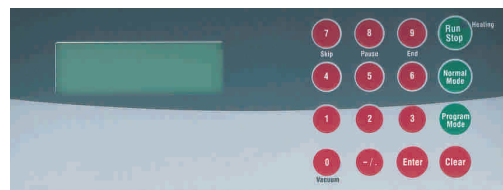
### Features

- A square drying chamber with shelves used in combination with freeze dryers FDU-1000 • 1100 • 2000 • 2100.
- With auto-operation control, a program is run from prefreezing to primary and secondary drying.
- The chamber capacity is 30L and accommodates 3 shelves of 24cm\*24cm. 270 vials of 10mL, 168 vials of 20mL or 147 vials of 30mL can be dried simultaneously.
- In model 1100 • 1100REC the shelves can be sealed.
- By using connection pipe B (option), to be connected to the FDU, nitrogen purge in the square drying chamber only becomes possible, which is useful for preserving samples that are vulnerable to oxidation.
- The shelf cooling and heating method is liquid circulation. From -40°C to +30°C range, uniform temperature control is realized.
- Model 1000REC & 1100REC has shelf and sample temperature signal outlet to recorder. this is effective for temperature management and confirmation of the eutectic point.

### Specifications

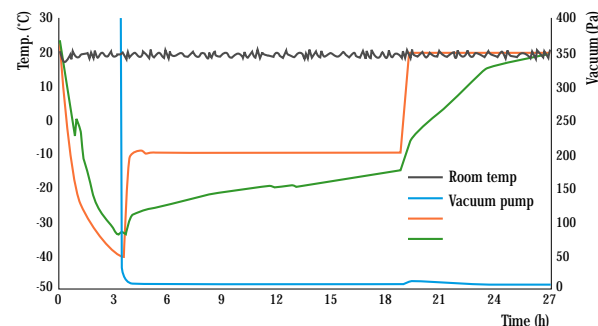
Product Name	Square Drying Chamber			
Model	DRC-1000	DRC-1000REC	DRC-1100	DRC-1100REC
Cat.No	197450	204820	197460	204830
Pre-freezing temp.	-40°C (Sample temp. -35°C to -30°C)			
Shelf temp. control range	-40°C to 30°C (Shelf circulation temp.)			
Shelf temp. control method	Second refrigerant circulating method			
Temp. control	Micro-processor PID control			
Temp. setting & input	Input with temperature key · Digital setting			
Display	Digital display (shelf temp. Sample temp)			
Sealing of vial	-		Manually	
Safety functions	ELCB, Overcurrent breaker, High pressure limit switch, Refrigerator overload relay, Heater independent overheat protector (in the shelf circulating liquid tank). Self-diagnosis function (low water level, sensor malfunction, SSR fault, broken heater, overheat, power failure alarm)			
Additional functions	Display temp. compensation, Auto-stop			
External output (option)	-	Temp. sensor output terminal (shelf & sample temp)	-	Temp. sensor output terminal (shelf & sample temp)
Heater	500W			
Refrigerator Output Refrigerant	Air cooling method 425W · HFC (R404A)			
Temperature sensor	Pt100Ω (For temp. of circulating liquid and sample temp)			
Chamber dimensions (mm)	300W*300D*350H, 30L			
Shelf dimensions (mm)	340W*240D*3 shelves			
Space between shelves	Effective space: H80mm		Effective space: H75mm	
Shelf material	SUS304			
Chamber lid	Re-inforced glass + Shielding door			
Ambient temperature	5-35°C			
Overall dimensions (mm)	420W*550D*1300H		420W*550D*1500H	
Weight	120kg		130kg	
Power source	AC100V · 50/60Kz			
Input power	12A, 1.2kVA			

### Operation panel

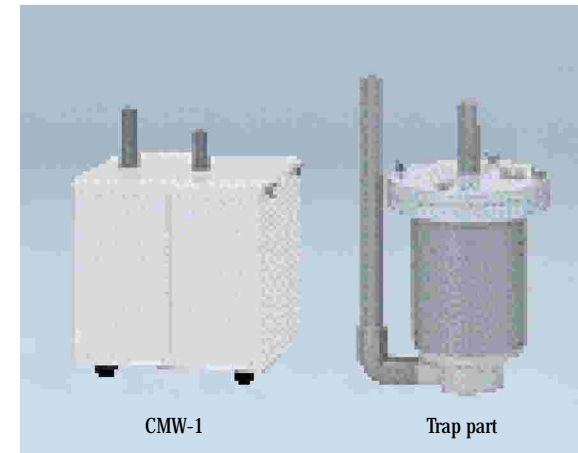


### Program Example

Sample: 10mL vial (water 3.5mL)\*270  
 Unit: DRC-1000+FDU-1000  
 Program condition  
 Pre-freezing: shelf temp. -40°C, sample temp. -35°C (20min)  
 Primary drying: shelf temp. -10°C, sample temp. hold 1 hour  
 Secondary drying: shelf temp. 20°C, sample temp. hold 5 hour



## Freeze Dryer Optional Accessories



### Moisture Trap CMW-1

- This unit recovers a minute amount of moisture which cannot be recovered by Refrigerated Cold Trap resulting in stable vacuum rate and longer life of vacuum pump oil.

Product name	Moisture trap
Model	CMW-1
Cat.No.	119900
Packing	Molecular Sieve, 500g
Dia.of connection part	OD22mm. Vacuum hose ID18*OD42



FDU-1000 • 2000 • 2100  
 With DRC-1000 • 1000REC  
 Connecting tube A  
 Cat.No.203920



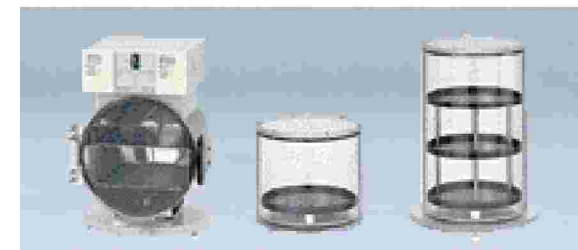
FDU-1000 • 2000 • 2100  
 With DRC-1100 • 1100REC  
 Connecting tube B with Stop valve  
 Cat.No.203930



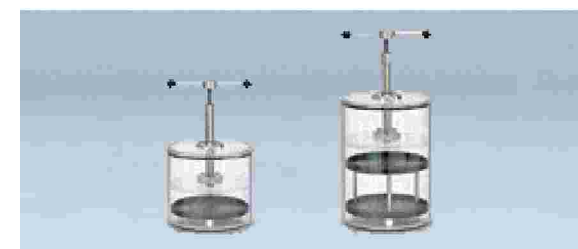
Product name	Recorder
Model	μR-10000
Cat.No.	219270

DRC-1000REC with recorder  
 Cat.No.21720  
 DRC-1100REC with recorder  
 Cat.No.218730  
 FDU-1100 with recorder  
 Cat.No.218760  
 FDU-2100 with recorder  
 Cat.No.218780

### Round-shape tray dryer



Product name	Round-shape tray dryer		
Model	DRC-1N	DRC-2L	DRC-3L
Cat.No.	119730	119750	119770
Max.dia. for attachment	270	270	270
No. of shelf, Shelf dimension	2*200W*230D	1*Dia 220mm	3*Dia 220mm
No. of 10mL vial*shelf	72*2	58*1	58*3
No. of Petri dish*shelf	8 (OD 66)*2	7(OD 66)*1	7(OD 66)*3
Temp. range & control	5-35°C Fixed at 30°C		



Product name	Round-shape tray dryer	
Model	BSC-2L	BSC-3L
Cat.No.	119790	119810
Max.dia. for attachment	270	270
No. of shelf, Shelf dimension	1*Dia 220mm	2*Dia 220mm
No. of 10mL vial*shelf	58*1	58*2 (58 for stoppering)
No. of Petri dish*shelf	7 (OD 66)*1	7 (OD 66)*2
Temp. range & control	Fixed at 30°C	