

Vacuum Pump & Pre-freezer for Freeze Dryer



Vacuum Pump GLD series

- Reverse flow prevention mechanism, gas ballast valve, forced oil-feeding system are equipped.
- Large window makes it easy to confirm oil condition
- Dismounting or exchange of oil filter is easy and it also prevents trouble from filter contamination.
- Low noise level and small vibration is achieved.

Model	GLD-051		GLD-101N		GLD-136CN		GLD-201A/BN	
Cat. No.	190840	190848	189080	189088	200540	200548	200560	200500
Applicable model	FD-1000 FD-1200 FDU-2200		FDU-1000 FDU-1100 FDU-2000 FDU-2100		FDU-1000 FDU-1100 FDU-2000 FDU-2100		FDU-1000 FDU-1100 FDU-2000 FDU-2100	
Displacement	50/60L/min		100/120L/min		135/162L/min		200/240L/min	



Pre-Freezer PFR-1000+PFM-1000

These units can be used as Pre-Freezer of FD-1000, 1200 and FDU model.

Product name	Pre-freezer
Model	PFR-1000
Cat. No.	197410
Temp. of Pre-freeze	-45°C
Power source	AC-100V•8/9A

Product name	Sample Flask Rotating System
Model	PFM-1000
Cat. No.	197420
Applicable container	Sample flask Max. 2L (S29/38) Freeze drying bottle Max. 1.2L

*T-shape manifold for sample flask



Model	PMH-4	PMH-8
Cat. No.	119820	119830
Applicable model	FDU-810, 1000, 1100, 2000, 2100 FDU-1000, 1100, 2000, 2100	
Max. dia of connecting part	Ø240/Ø230	
Connecting cock, pitch	φ29/38, Taper joint 150	
No. of port	4	8
Overall dimension (mm)	250*300*317	550*300*317

*When using the containers other than 29/38 flask, it is necessary to prepare adapter for the container.

*Cylindrical manifold for sample flask



Model	PMH-1000
Cat. No.	197440
Applicable model	FDU-1000, 1100, 2000, 2100, 2200
Dia. of connecting part	Dia Ø240mm
No. of port	912

*When using the containers other than 29/38 flask, it is necessary to prepare adapter for the container.

*T-shape manifold for test tube or ampoule



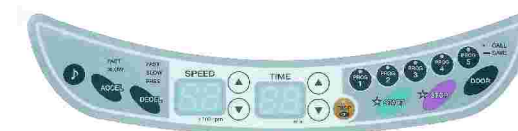
Model	PMH-12	PMH-24
Cat. No.	119840	119860
Applicable model	FDU-1200, 1000, 1100, 2000, 2100, 2200	
Max. dia of connecting part	275/270	
Connecting cock, pitch	ID 15 (for Vial), 50	
No. of port	12	24
Overall dimension (mm)	300*214*234	600*214*234

*When using the test tubes or ampoule, it is necessary to prepare the proper adapter.

Centrifuge CT-6E • 6EL



Operation panel



Features

USER-FRIENDLY

- Easy to use operator panel.
- 5 sets of running parameters are programmable.
- Rotor stop signal is selectable from 5 melodies.
- Acceleration and deceleration settings are optimally selectable according to samples.
- Selection from 3 colors: Strawberry pink, mint blue and sherbet silver.

COMPACT

- Low-height body allows rotor to be loaded/unloaded smoothly and speedily. The height from the bottom to the opening is 270mm.

GLOBAL STANDARD

- Compliance with CE marking requirements.
- Mechanical safety (Compliance with IEC 61010-2-020 requirements)
- Electrical safety (Compliance with IEC 61010-2-020 requirements)
- CT6E/CT6EL tabletop centrifuges have passed the MCA (maximum credible accident) test. This test confirms that no fragments are expelled from the centrifuge in the event of an accident.
- Electromagnetic compatibility (EMC Directive: Compliance with EN61326 and other requirements.

Specification

Product	Tabletop Centrifuge	
	CT6E	CT6EL
Model		
Maximum speed	6000rpm	
	(T6AP angle rotor)	(T6AP2 angle rotor)
Maximum RCF	4,770*g	
	(T6AP angle rotor)	(T6AP2 angle rotor)
Maximum capacity	1,000mL (250mL*4 tubes) (T5SS swing rotor) 2,000mL (500mL*4 tubes) (T3S6 swing rotor)	
Speed control range	300 to 6,000rpm (in increments of 100rpm)	
Timer	1 minute to 99 minutes (in increments of 1 minute) with a HOLD function (continuous operation)	
Acceleration/ deceleration time	2-stage variable acceleration 2-stage braked deceleration and coasting deceleration	
Memory-based operation	5 programmed operation possible (speed, run time, acceleration/deceleration settings and rotor stop signal)	
Rotor stop signal	Selectable from 5 melodies, a beep tone and mute setting	
Drive motor	Brushless DC motor (inverter control)	
Safety device	Door interlock, dual overspeed detection, imbalance detection, motor temperature abnormality detection, etc.	
Compliance with standards	Complies with CE marking requirement.	
Heat radiation	600W	
Input power	1.5kVA	
Power source	AC100-120V 15A, AC220-240V 7.5A, 50/60Hz	
Net Weight	45kg	55kg
Colors	Strawberry pink, mint blue and sherbet silver	

Product Number

Model	Voltage	Strawberry pink	Mint Blue	Sherbet Silver
CT-6E	220-240V	905600P1	905600B1	90560001
	100-120V	905600P2	905600B2	90560002
CT-6EL	220-240V	905601P1	905601B1	90560101
	100-120V	905601P2	905601B2	90560102