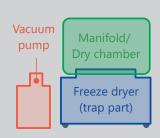


Environmentally Friendly Freeze Dryer with Natural Refrigerant



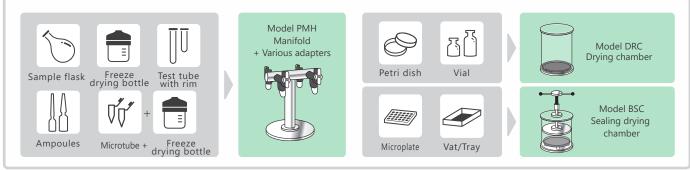


This is a unit-type freeze dryer that can be combined with optional manifolds and drying chambers to configure a variety of freeze-drying systems according to your requirement.

Model FDM-2010 is a unit-type freeze dryer.

- Step 1: Select the main unit of freeze dryer based on the dehumidifying volume and cold trap temperature.
- Step 2: Select the optional manifold and chamber according to the vessels to be used. Step 3: Finally, select a vacuum pump, hoses and other piping.

Freeze drying can be performed in a variety of vessels, including freeze drying bottles, flasks, test tubes, ampoules, vials, petri dishes, microtubes, and microplates.



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Non-fluorocarbon freeze dryer Model FDM-2010

This is for small sample sizes with a maximum dehydration capacity of 1 liter per batch. It achieves drying with low humidity levels due to freezing at -80°C, resulting in well-dried samples. With the cold trap chamber cooling, it allows for easy removal of ice during defrosting with hot gas, making cleaning simple. It complies with the RoHS directive.



Optional parts



%Please use the fixture to prevent the manifold from tipping over. Model FDU-CRAMP2 Product code No.213810











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Model FDM-2010 284710 Cat. No. Cooling method Cold trap chamber cooling Cold trap temperature -80°C Dehumidifying volume 1L / batch Setting / Display Flat keypad / Digital display Leakage/earth leakage breker, Refrigerator overload relay, Automatic vacuum Safety functions Control board self-diagnostic function Safety functions Vacuum release function Automatic vacuum release valve Trap defrost Defrosting by hot gas Vacuum pump automatic control, Vacuum abnormality monitoring function, Stopwatch function, power failure recovery time selection function Additional functions Refrigerator / Refrigerant Air-cooled power output 500W×2, R290/R170 Vacuum pump Option: 50L/min or more iguration Trap thermometer Digital display, Type T thermocouple sensor, Display accuracy: ±4°C Pirani vacuum gauge (digital display) 0.0 to 533Pa Vacuum gauge Recorder output Temperature: 1°C/1mV, Vacuum: 1Pa/mV Con Service outlet For vacuum pump max. 6A, for dry chamber max. 2A Trap size / Material 153 ID x 225Hmm / Stainless steel Suction port diameter 17.3mm OD Ambient temperature range 5 to 35°C Outer dimensions (mm) / Weight 450(487)W x 550D x 945H / Approx. 83kg Power supply input / Voltage 10A, 1kVA 100VAC 50/60Hz

**Performance values are at room temperature of 20°C, rated power supply voltage, 50 Hz. **Power input does not include the capacity of the service outlet. **Dimensions in parentheses () include protrusions. **Please prepare a primary power supply of 100VAC, 20A capacity. Power plug is not included.

Manifolds

Model	Number of ports	Adapter	Valve type	Autoclave	Cat. No.	
PMH-4A	4	\$29/38	Valve D	×	209560	
PMH-4AB	4	\$29/38	Valve DB	0	276060	
PMH-4	4	\$29/38	Valve D	Х	119820	
PMH-4B	4	\$29/38	Valve DB	0	276050	
PMH-8	8	\$ 29/38	Valve D	Х	119830	
PMH-8B	8	 \$29/38	Valve DB	0	276070	
PMH-12	12	Adapter	Valve B	Х	119840	
PMH-12B	12	is not	Valve CB	0	276080	
PMH-24	24		Valve B	Х	119860	
PMH-24B	24	included	Valve CB	0	276090	

Drying chambers

Model	Number of shelves	Shelf size(mm)	Control temp. range	Cat. No.
DRC-1N	2	200W x 230D	RT + 5 to 40°C	119730
DRC-2L	1	φ220	Fixed at 30°C	119750
DRC-3L	3	φ220	Fixed at 50 C	119770

Sealing drying chambers

Model	Number of shelves	Shelf size(mm)	Control temp. range	Cat. No.
BSC-2L	1	<i>φ</i> 220	Fixed at 30°C	119790
BSC-3L	2	φ 220	Fixed at 50 C	119810

Pre-freezer (Sample vessel rotation device) Model PFM-1000

Applicable vessels: Sample flasks (\$29/38), freeze drying bottles Cat. No. 197420

Pre-freezing bath Model PFR-1000

Pre-freezing temperature: -45°C, Power supply/input: 220VAC 50Hz 4.6A Cat. No. 197418

XSpecial attachments are required when using the freeze drying bottles.

Attachment for freeze-drying bottles	Cat. No.
3 For 600, 900, 1200mL	282170
For 150, 300mL	282160
4 For 40, 80mL	282150

Click here to see the digital

catalog (left) and the video

using the stainless steel var

(right)

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The appearance and specifications of the products are subject to change without notice.