

# FREEZE DRYER SOLUTIONS



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FREEZE DRYER

# HyperCOOL

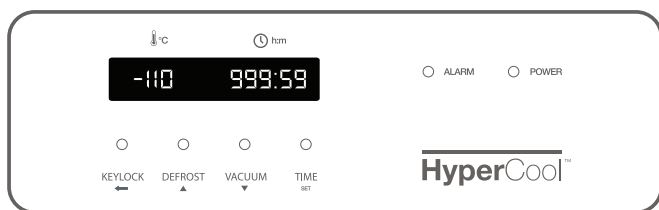


**Technical Specifications**

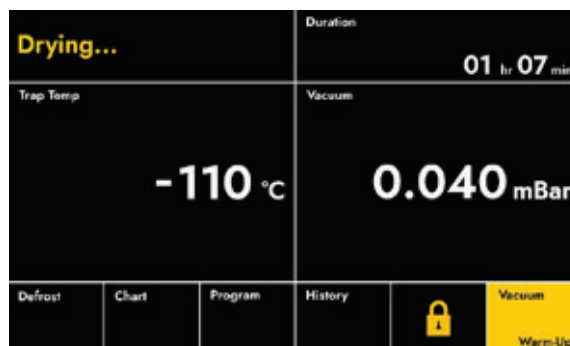
	HC3055 / HC3110	HC3055+ / HC3110+	HC9090+
Ultimate Chamber Temp.	-55 / -110 (°C)		-90 °C
Cold Trap Volume	4 L		9 L
Cold Trap Size	Ø 165 x H 202 mm		Ø 305 x H 355 mm
Ice Condensing Capacity	3 kg		9.8 kg
Display Type	4" LCD	7" touch LCD with graphic display	
Display Parameters	Vacuum, Time, Temperature	Vacuum, Time, Temperature, Real Time Graph	
Control	ON / OFF (Vacuum, Defrost)		
Ice Condensing Performance	2.5 kg / 24h		9 kg / 24h
Power Requirement (Resting)	642 / 819 (VA)		1,500 VA
Power Supply	AC 230 V, 50 Hz (AC 220-230 V, 50/60 Hz; 110 V optional)		AC 220-230 V, 60 Hz (50 Hz, 110 V optional)
Dimension	W 400 x D 660 x H 570 mm	W 400 x D 670 x H 585 mm	W 550 x D 708 x H 885 mm
Weight	58 / 72 (kg)	58 / 72 (kg)	130 kg
Cat. No.	Hyper-HC3055P Hyper-HC3110P	Hyper-HC3055PL Hyper-HC3110PL	Hyper-HC9090PL

\*The ultimate chamber temperature should be 15~20°C lower than the sample's freezing temperature.

**HyperCOOL Basic Display**



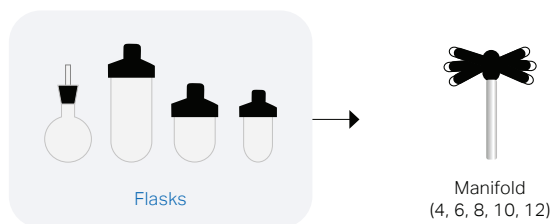
**HyperCOOL Plus Display**



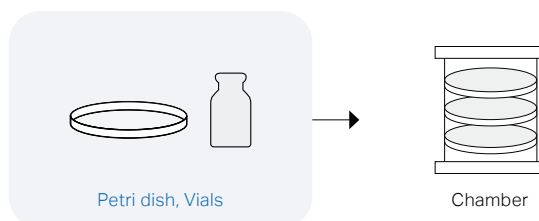
# FREEZE DRYER CONFIGURATIONS

## Drying Accessories

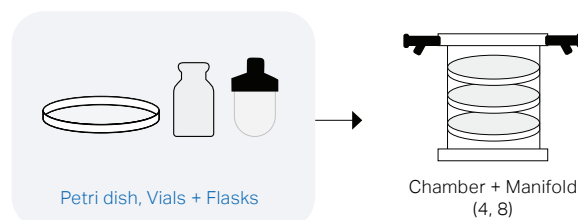
Manifold Type	No. of Valve	Cat. No.
Basic	8	HC-MFB-8V
Basic (Extendable)	6	HC-MFB-6V
	4	HC-MFB-4V
Extension	6	HC-MFE-6V
	4	HC-MFE-4V



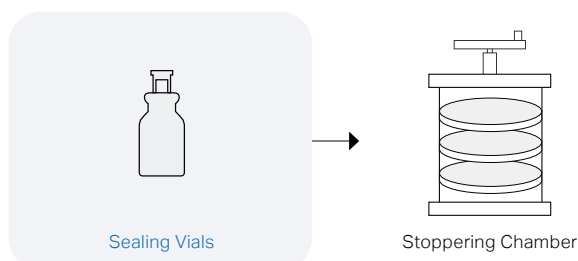
Chamber Type	Cat. No.
Acrylic chamber with top	HC-CH30P
SUS chamber incl. glass base and top	HCCH300-TF
SUS rack with 3 trays	HC-CR25
Additional tray (1EA)	HC-CR-TS










Chamber + Manifold Type	Cat. No.
Acrylic chamber with 4 valve top	HC-CH30-4V
Acrylic chamber with 8 valve top	HC-CH30-8V
SUS rack with 3 trays	HC-CR25
Additional tray (1EA)	HC-CR-TS



Stoppering Chamber Type	Cat. No.
Acrylic chamber with 3 trays incl. stoppering top and base plate	HC-SP30M



Accessories	Cat. No.
 Acrylic base plate for HyperCOOL to connect accessories to the main body. Exception (HCCH300-TF, Stoppering chambers)	HC-CPB
 Rotary vane pump Pumping speed: 50Hz – 200 L/min Ultimate pressure: 0.0067 mbar	GVP-202BB
 Oil mist trap for rotary vane pump	GVP-WOF150

Manifold Accessories	Cat. No.
 Freeze drying flask for manifold drying. ø60 (150 / 300 mL) ø90 (300W ~ 1,200 mL)	HC-AGF150 HC-AGF300 HC-AGF300W HC-AGF600 HC-AGF900 HC-AGF1200
 2 mL tube holder for (900 / 1,200) mL flasks, 3 x 20 x 2 mL	900mL HC-TR9-2 1,200mL HC-TR12-2
 15 mL tube holder for (900 / 1,200) mL flasks, 12 x 15 mL conical	900mL HC-TR9-15 1,200mL HC-TR12-15
 50 mL tube holder for (900 / 1,200) mL flasks, 4 x 50 mL conical	900mL HC-TR9-50 1,200mL HC-TR12-50

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