HyperCOOL[™]

Freeze Dryer & Cooling Trap

HyperCOOL is a lab scale freeze dryer using the lyophilization phenomena. HyperCOOL is designed for safety, robustness and convenience for the successful freeze drying and cold trap. It is suitable for drying of aqueous products, various solvents and products with a low freezing point. HyperCOOL with stylish, modern and unique design will help you enjoy your daily laboratory work to the fullest!

Two models of 3 kg HyperCOOL, HC3055 and HC3110 can be selected depending on the ice condensing temperature, -55 °C and -110 °C. HyperCOOL empowers HyperVAC-LITE and HyperVAC-MAX to guarantee high-performance and capacity as a cooling trap as well as the freeze dryer. The digital screen indicated with actual temperature and operating time is simple and intuitive for user-friendly control. Also, AWB (Alarm-Wait-OK), keylock, vacuum, defrost, power indicators of the display provide useful information. HC3055, HC3110 basically has the condenser chamber with Teflon coating. It provides the chemical resistance against aggressive solvents and acids such as HCI, TFA, DMSO, etc. and ensures longevity, easy cleaning and decontamination. HyperCOOL with 8 kg ice capacity, HC8080 has a very large size cold trap that it can be used for prefreezer and it does not need the exclusive prefreezer system. In addition, HC8080 includes a high vacuum rotary vane pump in the body case without necessarily purchasing separate pump. It has the intuitive and easy control as a dial type to turn on cooling and vacuum and adjust the time. LCD display shows the vacuum pressure, trap temperatures and the other processing parameters.



Features

- HyperVAC-MAX empowered by HyperCOOL guarantees capacity and performance at higher level.
- Extended applications for concentrating wider range or larger volume of solvents
- HyperCOOL by itself, when equipped with manifolds or chambers, becomes a versatile freeze dryer.
- The compatible vacuum rotary vane pump generates vacuum down inside the chamber.
- Effective for evaporating organic solvents as well as concentrating dissolved nucleic acids
- Up to 12 external bottles can be accommodated by the manifolds of HyperCOOL.
- Automatic De-Vac and De-Ice functions installed

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Technical Specifications

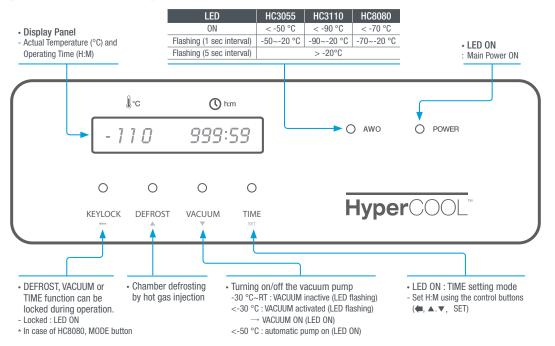
Model Name	HC3055	HC3110	HC8080
Ultimate Chamber Temp (at RT) (° C)	-55	-110	-80
Chamber Volume (L)	4		25
Trap (Chamber) Size (Ø x L)	165 x 202		305 x 355
ICE Condensing Capacity (kg)	3		8
ICE Condensing Performance (kg/day)	2.5		
Compressor	1/2 HP	1/2 HP x 2	1 HP x 2
Refrigerant	R507	R507/R1150	R507/R1150
Power supply	230 V, 50 Hz (AC 220-230 V, 50/60 Hz; 110 V optional)		nal)
Power Requirement (Resting, VA)	642	819	1500
Dimension (W x D x H, mm)	400 x 660 x 570		710 x 610 x 960
Weight (kg)	58	72	186
Digital Readout	Temperature, Time		Temperature, Time, Vacuum Pressure
Function	KEYLOCK, DEFROST , VACUUM, TIME		MODE, DEFROST, VACUUM, TIME
Cat. No.	Hyper-HC3055 (Hyper-HC3055-110)	Hyper-HC3110 (Hyper-HC3110-110)	Hyper-HC8080 (Hyper-HC8080-110)

Applications

- Study and QC of dried foods like dried fruits, meats, etc.
- Stock of bacteria, virus, fungi, etc.
- · Seed preservation of plants or mushrooms
- · Improved preservation of flowers and dry display study
- Pharmaceutical study and production
- · Research and production of vaccine and antidote
- Tissue or cell preparation for EM analysis
- Medical research
- Archaeological finds like books, textiles, leather
- · Restoration of wet documents

Control Panel

[HC3055, HC3110, HC8080]



HyperCOOL[™] Freeze Dryer & Cooling Trap



HyperCOOL Cover Plate



Cat. No. HC-CPP

HyperCOOL HC3055, HC3110 Trap Details Plate for Connection Vacuum Hose to Vacuum Concentrator



Cat. No. HC-CPP-A

Details HyperCOOL HC3055, HC3110 Trap Plate for Connection Vacuum Hose to Vacuum Concentrator with Table A (GVCT-MA)



Cat. No. HC-CPB

Details HyperCOOL HC3055, HC3110 Acrylic Base for Manifold or Chamber



Cat. No. **HC-CPB(8)**

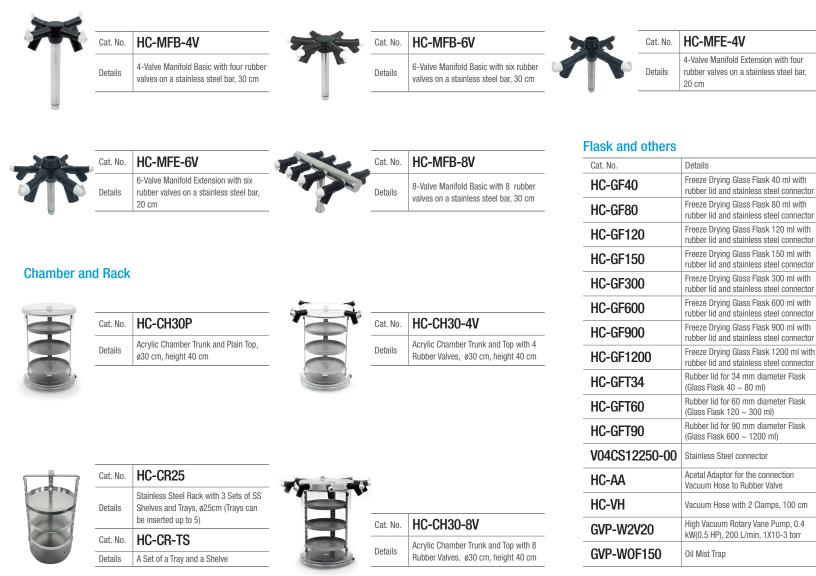
Details HyperCOOL HC8080 Acrylic Base for Manifold or Chamber



Cat. No. HC-CPP(8) HyperCOOL HC8080 Trap Plate

Details for Connection Vacuum Hose to Vacuum Concentrator

Manifold



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HyperCOOL Package Information





Cat. No.	Details
GZ-HC3110- CH8VR	Multi-Type Freeze Drying System -110 °C with 3 Shelves Rack & 8 Valves Chamber incl. a Rotary Vane Pump, Oil Mist Trap & Connections (Hyper-HC3110 + HC-CPB + HC-CH30-8V + HC-CR25 + HC-VH + GVP-W2V20 + GVP- W0F150)



Cat. No.	Details
GZ-MHC3110- M4EC	Multi-Purpose, Vacuum Concentration and Freeze Drying System -110 °C with 8 Valves Manifold incl. a Rotary Vane Pump, Oil Mist Trap, Connections & a Table B (Hyper-VC2200 + GVCT-MB + Hyper- HC3110 + HC-CPB + HC-MFB-4V + HC- MFE-4V + HC-VH + GVP-W2V20 + GVP- W0F150)



Cat. No.	Details
GZ-MHC3110- CH8VRC	Multi-Purpose, Vacuum Concentration and Freeze Drying System -110 °C with 3 Shelves Rack & 8 Valves Chamber incl. a Rotary Vane Pump, Oil Mist Trap, Connections & a Table B (Hyper-VC2200 + GVCT-MB + Hyper- HC3110 + HC-CPB + HC-CH30-8V + HC- CR25 + HC-VH + GVP-W2V20 + GVP- WOF150)

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HyperCOOL Package Information

