

HyperVAC™

Centrifugal Vacuum Concentrator



HyperVAC is a centrifugal vacuum concentrator as general-purpose laboratory benchtop equipment. HyperVAC offers rapid, environmental friendly and efficient vacuum concentration or drying of samples like DNA/RNA, nucleotides, proteins and other liquid or wet samples with ease and reproducibility that maintain sample integrity. HyperVAC is ideal for routine work with your samples.

HyperVAC consists of two kinds of models depending on max. capacity - HyperVAC-LITE and HyperVAC-MAX. HyperVAC-LITE can accommodate from 48 x 2.0 ml & 76 x 0.5 ml microtubes to 6 x 50 ml tubes and microplates. HyperVAC-MAX can be used with 200 x 2.0 ml microtubes to 12 x 50 ml, microplates and deepwell plates. HyperVAC evaporates solvents at RT~80°C and low pressure without freezing. Easy to use automatic system includes timer, start/stop function, vacuum control, adjustable chamber temperature to 80°C, digital readout of vacuum and programming facility. Also, it has a modular design for easy upgrade. HyperVAC is used with a drip catcher and an ice cube container unit, connectors including hoses and clips. The evaporation rate can be increased by employing ice cubes around the drip catcher. HyperVAC system also requires a diaphragm vacuum pump to generate 7 mbar (36 liter/minute), which is perfect for chemical solvent evaporation. Also, HyperVAC can be connected with HyperCOOL as a cold trap for more evaporation capacity.

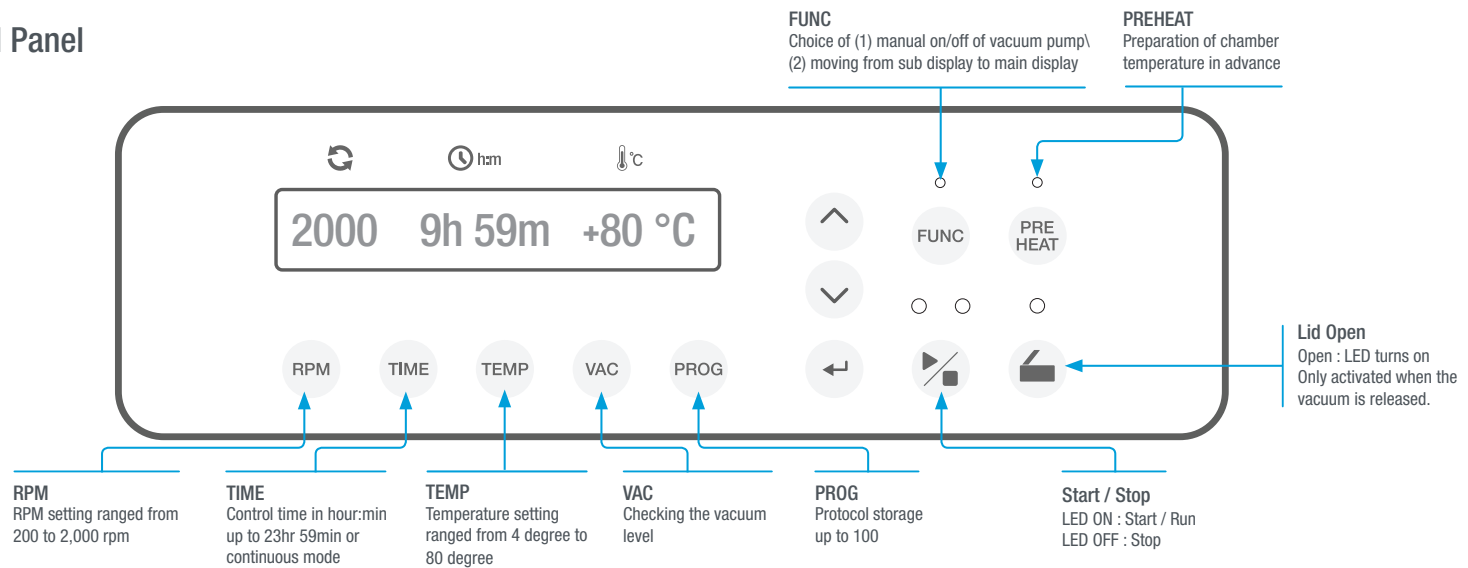
► Features

- Tabletop centrifugal concentrators with high space efficiency
- Compatible with a diaphragm pump (7 mbar) optimal for volatile chemical solvents
- Accommodates a wide range of sample containers: 0.5, 2.0, 15, 50-ml tubes and microplates
- Automatic control and digital readout of TIME, TEMP and VAC
- Efficient cold trapping by employing drip catcher kit with ice cold trap
- Effective concentration of nucleic acids or small volume of organic solvents

► Technical Specifications

Model Name	HyperVAC-LITE	HyperVAC-MAX
Max. RPM	2,000	
Max. capacity	Fixed angle	200 x 1.5 / 2.0 ml microtubes
	Swing - out	48 x 1.5 / 2.0 ml + 76 x 0.5 ml microtubes 2 loadings of MTP
Auto Start / Stop of Vacuum	Yes	
Chamber Heating Temperature Range	R.T ~ 80 °C	
Vacuum Pressure (mbar)	1 ~ 1,013	
Operating Time	< 23 hr 59 min or continuous	
	Default value: 0 h 0 m (continuous)	
Weight (kg)	22.5 (without Rotor)	37 (without Rotor)
Power Requirement (Centrifuge, VA)	350	700
Power supply(V/Hz)	230 V, 50 Hz (AC 220-230 V, 50/60 Hz; 110 V optional)	
Centrifuge Dimension (W x D x H, mm)	375 x 445 x 252	475 x 560 x 350
Cat. No.	Hyper-VC2124 (Hyper-VC2124-110)	Hyper-VC2200 (Hyper-VC2200-110)

► Control Panel



► Applications

- Concentration for nucleic acids (DNA/RNA)
- Concentration for small and large volume of solvents



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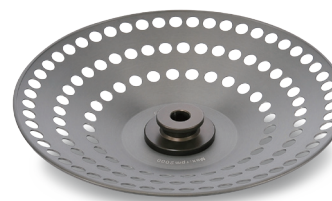
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Rotors & Sleeves for HyperVAC-LITE







Cat. No.	GRV-m0.5/2.0-124	
Tube/Plate Type		
	1.5/2.0 ml	0.5 ml
Max. tube capacity in mL	48 x 1.5/2.0 ml + 76 x 0.5 ml	
Hole diameter (mm)	11.1 (1.5/2.0 ml), 8 (0.5 ml)	






Cat. No.	GRV-m2.0-120	
Tube/Plate Type		
	1.5/2.0 ml	
Max. tube capacity in mL	120 x 1.5/2.0 ml	
Hole diameter (mm)	11.1	




Cat. No.	GRV-50-6	
Tube/Plate Type		
	50 ml	50 ml conical
Sleeve		
	GLV-50	GLV-c50
Max. tube capacity in mL	6 x 50 ml	6 x 50 ml conical
Hole diameter (mm)	30.4 x 101	30.4 x 101



Cat. No.	GRV-15-12	
Tube/Plate Type	 	15 ml 15 ml conical
Sleeve		GLV-15
Max. tube capacity in mL	12 x 15 ml/15 ml conical	
Hole diameter (mm)	18 x 93	




Cat. No.	GRV-mw-2	
Tube/Plate Type		microplate
Max. tube capacity in mL	2 loadings of microplate	
Hole diameter (mm)	130.3 x 88.5	

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Rotors & Sleeves for HyperVAC-MAX







Cat. No.	GRV-m2.0-200	
Tube/Plate Type		
	1.5/2.0 ml	
Max. tube capacity in mL	200 x 1.5/2.0 ml	
Hole diameter (mm)	11.1	





Cat. No.	GRV-15-48	
Tube/Plate Type		
	15 ml	15 ml conical
Sleeve		
	GLV-15	
Max. tube capacity in mL	48 x 15 ml/15 ml conical	
Hole diameter (mm)	18 x 93	



Cat. No.	GRV-50-12	
Tube/Plate Type		
	50 ml	50 ml conical
Sleeve		
	GLV-50	GLV-c50
Max. tube capacity in mL	12 x 50 ml	12 x 50 ml conical
Hole diameter (mm)	30.4 x 101	30.4 x 101



Cat. No.	GRV-mw-4	
Tube/Plate Type		
	MTP	DWP
Max. tube capacity in mL	4 loadings of MTP or DWP	
Hole diameter (mm)	86.3 x 128.3	

Drip Catcher, Pump, Table and Cooling Trap

Cat. No.	Description
GV-DC20a	Drip Catcher Kit a, Acrylic, ø20 cm, Height 16 cm incl. 500 ml Glass Bottle and Connections to Water Pump (a 50 cm Soft Hose/10 cm Vac Hose (ø12/25 mm) with 2 clamps to connect to HyperVAC centrifuge and a Y-Shape Soft Hose to Water Pump)
GV-DC20b	Drip Catcher Kit b, Acrylic, ø20 cm, Height 16 cm incl. 500 ml Glass Bottle and Connections to Diaphragm Pump (two 50 cm Soft Hose/10 cm Vac Hose (ø12/25 mm) with 2 clamps each to connect to HyperVAC centrifuge and Diaphragm Pump)
GVP-VE11	Water Pump, 18 L/min X 2, 0.0998 Mpa (998 mbar)
GVP-W2V20	High Vacuum Rotary Vane Pump, 0.4 kW (0.5 HP), 200 L/min, 1X10 ⁻³ torr (12 m ³ /h, 0.0013 mbar)
GVP-WOF150	Oil Mist Trap
GVCT-MA	Table A Type for HyperVAC-MAX with HyperCOOL Underneath and a Pump Back-sided
GVCT-MB	Table B Type for HyperVAC-MAX with a Pump Underneath
Hyper-HC3055	HyperCOOL -55 °C Cooling Trap 3 kg, Teflon Coated, w/ Digital Display and Time Control incl. a Vacuum Hose and Clamps (220 V, 50/60 Hz)
Hyper-HC3055-110	HyperCOOL -55 °C Cooling Trap 3 kg, Teflon Coated, w/ Digital Display and Time Control incl. a Vacuum Hose and Clamps (110 V, 50/60 Hz)
Hyper-HC3110	HyperCOOL -110 °C Cooling Trap 3 kg, Teflon Coated, w/ Digital Display and Time Control incl. a Vacuum Hose and Clamps (220 V, 50/60 Hz)
Hyper-HC3110-110	HyperCOOL -110 °C Cooling Trap 3 kg, Teflon Coated, w/ Digital Display and Time Control incl. a Vacuum Hose and Clamps (110 V, 50/60 Hz)
HC-CPP	HyperCOOL HC3055, HC3110 Trap Plate for Connection Vacuum Hose to Vacuum Concentrator
HC-CPP-A	HyperCOOL HC3055, HC3110 Trap Plate for Connection Vacuum Hose to Vacuum Concentrator with Table A (GVCT-MA)



GV-DC20a



GV-DC20b



GVP-VE11



GVP-W2V20



GVP-WOF150



GVCT-MA



GVCT-MB



Hyper-HC3055 / Hyper-HC3110

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HyperVAC Package Information



Cat. No.	Details
GZ-HVL-AWP	HyperVAC-LITE System Incl. a Drip Cather Kit a and a Water Pump (Hyper-VC2124 + GRV-m0.5/2.0-124 + GV-DC20a + GVP-VE11 Water Pump) Vacuum range: 998 mbar

Cat. No.	Details
GZ-HVL-BDP	HyperVAC-LITE System Incl. a Drip Cather Kit b (Hyper-VC2124 + GRV-m0.5/2.0-124 + GV-DC20b)

* Please use a diaphragm pump after purchasing locally.

Cat. No.	Details
GZ-HVM-BDP	HyperVAC-MAX System Incl. a Drip Cather Kit b (Hyper-VC2200 + GRV-m2.0-200 + GV-DC20b)

* Please use a diaphragm pump after purchasing locally.



Cat. No.	Details
GZ-HVM-HCA	HyperVAC-MAX System Incl. a HyperCOOL -55 °C/3 kg, a HC Trap Plate, a Vacuum Hose, Rotary Vane Pump, Oil Mist Trap, All Connections & a Table A (Hyper-VC2200 + GRV-m2.0-200 + Hyper-HC3055 + HC-CPP-A + HC-VH + GV-W2V20 + GVP-WOF150 + GVCT-MA) Vacuum range: 0.0013 mbar

Cat. No.	Details
GZ-HVM-HCB	HyperVAC-MAX System Incl. a HyperCOOL -110 °C/3 kg, a HC Trap Plate, a Vacuum Hose, Rotary Vane Pump, Oil Mist Trap, All Connections & a Table B (Hyper-VC2200 + GRV-m2.0-200 + Hyper-HC3110 + HC-CPP + HC-VH + GV-W2V20 + GVP-WOF150 + GVCT-MB) Vacuum range: 0.0013 mbar