

Concentrators



Ven-LITE 2124



Ven-MAX 2200

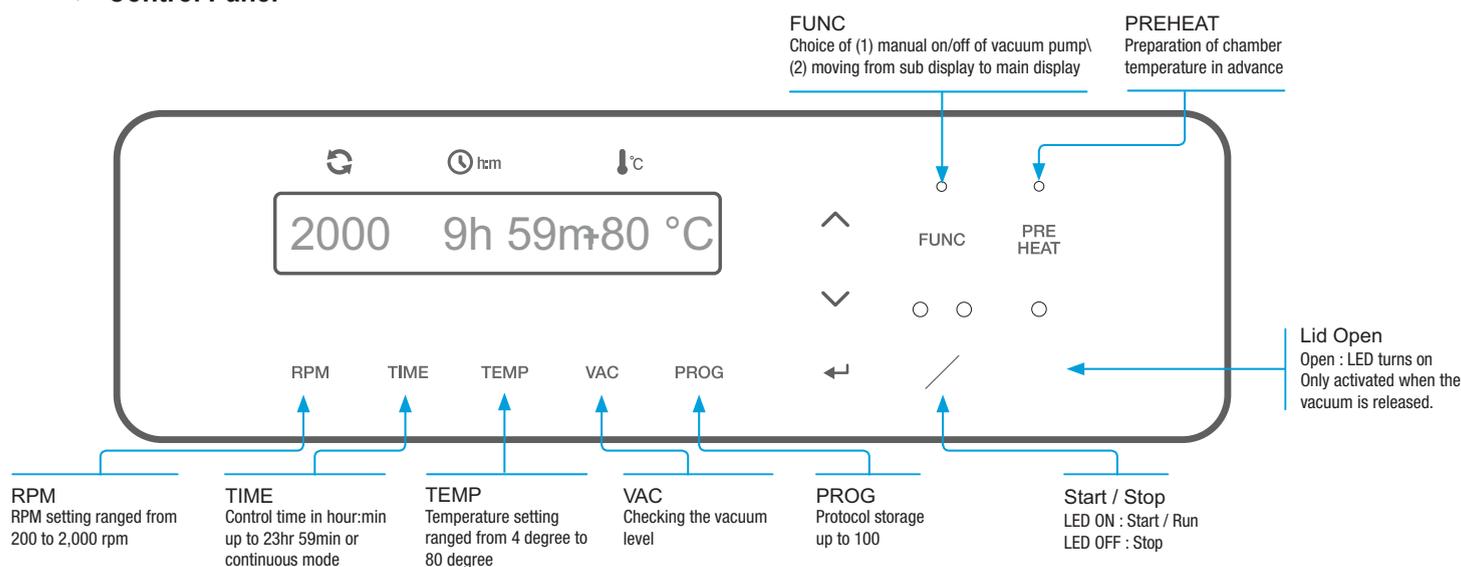
Ven-VAC is a centrifugal vacuum concentrator as general-purpose laboratory benchtop equipment.

It 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. It is ideal for routine work with your samples.

Ven-VAC consists of two kinds of models depending on max. capacity - Ven-LITE and Ven-MAX. Ven-LITE can accommodate from 48 x 2.0 ml & 76 x 0.5 ml microtubes to 6 x 50 ml tubes and microplates. Ven-MAX can be used with 200 x 2.0 ml microtubes to 12 x 50 ml, microplates and deepwell plates. Ven-VAC 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.

Ven-VAC 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. Ven-VAC system also requires a diaphragm vacuum pump to generate 7 mbar (36 liter/minute), which is perfect for chemical solvent evaporation. Also, Ven-VAC can be connected with VenFreeze as a cold trap for more evaporation capacity.

► Control Panel



Concentrators

► 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 No.		Ven-LITE 2124	Ven-MAX 2200
Max. RPM		2,000	
Max. Capacity	Fixed angle	120 x 1.5 / 2.0 ml microtubes or 48 x 1.5 / 2.0 ml + 76 x 0.5 ml microtubes	200 x 1.5 / 2.0 ml microtubes
Max. Capacity	Swing - out	2 loadings of MTP	4 loadings of MTP or DWP
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)	
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)		375 x 445 x 252 mm	475 x 560 x 350 mm
Weight (kg)		22.5 (without Rotor)	37 (without Rotor)

► Rotors & Sleeves for Ven-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

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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

► Rotors & Sleeves for Ven-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-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-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-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	

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► Drip Catcher, Pump, Table and Cooling Trap

Model 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 m3/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
2415 055P	VenFreeze -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)
2415 110P	VenFreeze -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)
HC-PPP	VenFreeze 2415 055P, 2415 110P Trap Plate for Connection Vacuum Hose to Vacuum Concentrator
HC-PPP-A	VenFreeze 2415 055P, 2415 110P 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



2415 055P / 2415 110P

► Rotors & Sleeves for Ven-LITE



Cat. No.	Details
GZ-HVL-AWP	Ven-LITE System Incl. a Drip Cather Kit a and a Water Pump (Ven-LITE 2124 + GRV-m0.5/2.0-124 + GV-DC20a + GVP-VE11 Water Pump) Vacuum range: 998 mbar



Cat. No.	Details
GZ-HVL-BDP	Ven-LITE System Incl. a Drip Cather Kit b (Ven-LITE 2124 + GRV-m0.5/2.0-124 + GV-DC20b)

* Please use a diaphragm pump after purchasing locally.

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Cat. No.	Details
GZ-HVM-BDP	Ven-MAX System Incl. a Drip Cather Kit b (Ven-MAX 2200 + GRV-m2.0-200 + GV-DC20b)

* Please use a diaphragm pump after purchasing locally.



Cat. No.	Details
GZ-HVM-HCA	Ven-MAX System Incl. a VenFreeze -55°C/3 kg, a HC Trap Plate, a Vacuum Hose, Rotary Vane Pump, Oil Mist Trap, All Connections & a Table A (Ven-MAX 2200 + GRV-m2.0-200 + 2415 055P + HC-CPP-A + HC-VH + GV-W2V20 + GVP-WOF150 + GVCT-MA) Vacuum range: 0.0013 mbar



Cat. No.	Details
GZ-HVM-HCB	Ven-MAX System Incl. a VenFreeze -110°C/3 kg, a HC Trap Plate, a Vacuum Hose, Rotary Vane Pump, Oil Mist Trap, All Connections & a Table B (Ven-MAX 2200 + GRV-m2.0-200 + 2415 110P + HC-CPP + HC-VH + GV-W2V20 + GVP-WOF150 + GVCT-MB) Vacuum range: 0.0013 mbar

Anticorrosive Diaphragm Vacuum Pump,

Model : 301306



- Speed of Evacuation 30L/min
- Ultimate Pressure Vacuum 15 mbar

301306 anticorrosive-type diaphragm vacuum pumps have been treated with Teflon. The parts of the pump which contact with the gas are either PTFE made or PTFE coated. It's suitable for the corrosive chemical, pharmaceutical, petrochemical gases etc. It's used for vacuum filtration, reduced pressure distillation, rotary evaporation, vacuum concentration, centrifugal concentration, solid phase extraction etc. It's high-performance product with quality reliability, unique structural design to meet the various needs of the laboratory. Other than Teflon treatment, the specifications are same as the normal-type pump.

Features:

1. The strong corrosion resistance of anti-corrosive type pump. It is able to tolerate almost all strong acid (including aqua regia), strong alkali, strong oxidizer, reductant, and variety of organic solvents.
2. It withstands high and low temperatures, can be used in temperature of -190°C to 260°C.
3. It is of non-sticky surface, most solid material and impurity particles cannot conglutinate on the surface.

Technical Specifications :

Model No.	301306
Speed of evacuation	30 L/Min
Ultimate Pressure Vacuum	≥0.095MPa, 15mbar
Voltage rating	220V, 50Hz
Motor Power	160W
Pressure	-
Inlet & Outlet (mm)	φ6mm
Diaphragm & Valves	NBR
Temperature of working environment	7°C - 40°C
Function	Vacuum & Pressure
Pump Head	2
Temperature of the body	<55°C
Dimensions (LxBxH)	370x144x275 mm
Noise Level	<60dB
Weight	13.5 Kg