

NEW

Spin Dryer Lite VC-36R/Spin Dryer Standard VC-96R

*Microtubes, Vials, Test tubes, and Disposable centrifuge tubes can be used.
Two models with the different capacities.*

•Cold Traps and Vacuum pumps for VC-36R / 96R --> P.164-165



VC-36R

VC-96R

(Rotors are sold separately.)

Versatile and Easy operation

Memorizes Temp., Rotational speed, and Time. Invokes those and enables the start of operation just by pressing the start button. Also, it can turn off of the Heater or cancel the Timer during operation.

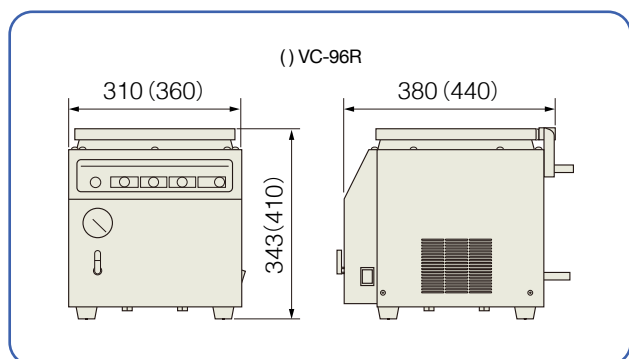


Model	VC-36R	VC-96R
Temperature range	+5°C above RT to +70°C	
Rotational speed	300 to 2000 r/min (*1)	
Vacuum release	Timer automatic release (also Manual)	
Rotor rotation system	Magnet drive	
Timer	1 min to 99 h 59 min (Digital)	
Lid/Chamber material	Lid: PVC, Chamber: Stainless steel SUS304 (Teflon coated)	
Vacuum gauge	0 to -0.1 MPa (Bourdon tube)	
Suction nozzle outer dia.	Rc 1/2 (φ13.8 mm)	
Sterilization filter	0.2 μm	
Other function	Pump switch interlocking outlet × 1 (to 7 A) (The Pump starts after reaching 85% of the preset rotational speed.)	
Safe devices/ protections	Overcurrent protection, Heater/Rotation/Pump is stopped when the Lid is open, High temp., Various indication (Non-volatile memory, Temp. sensor, Heater output, High/Low temp., Motor, Rotational speed limit).	
Dimensions (W×D×H)/ Weight	310 × 380 × 343 mm Approx. 24 kg	360 × 440 × 410 mm Approx. 36 kg
Power supply (*2)	AC100V/2.7A /Max.10A (Need a step-down transformer)	AC100V/3.3A /Max.10A (Need a step-down transformer)

(*1)VC-36R: Max. 440 x g, VC-96R: Max. 590 x g *Reference value in the Outer perimeter of the 36R/96R Rotor. (*2)The current will increase according to the use of the Pump interlocking outlet.

•The Diaphragm-type Vacuum pump (DTU-20/DTC-60, etc.) or Dry scroll type with chemical resistant (VU-100HC, etc.) is recommended for use. Besides, the Oil-sealed rotary vacuum pump is required for Lyophilization.

Dimensions (Common in all models)



We contribute to the development of research and industry.
TATEC [General Catalog]

Features

- Teflon coated Chamber having excellent chemical resistance
- Digital settings, numerical values to check concentration settings
- Various rotors sold separately for Test tubes and tube vessels

Applications

- Concentrating water-soluble samples and solvents
- Concentrating in HPLC and other analytical pretreatments samples before and after analysis such as HPLC
- Concentration and drying by centrifugal

"Freeze Dryer" mode

This mode uses the main unit as a vessel drying chamber for Lyophilization. In this mode, after the set time has passed, the Vacuum pump remains running while the centrifugation stops and the Heater is turned off.

By setting the timer to turn off at the stage before drying, the drying of samples can be completed without giving unnecessary heat load.

This mode can be used for samples that would melt during normal Lyophilization or for samples that are difficult to freeze. (The Oil-sealed rotary vacuum pump is required for Lyophilization.)

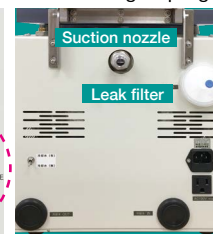
Automatic/Manual Vacuum release

In centrifugal concentration, vacuum release by the auto-leak function is standard. For samples that are sensitive to oxidation, a Nitrogen gas Generator (or a sampling bag filled with nitrogen gas, etc.) can be connected to a leak filter that also serves as a nitrogen purge port, and manual operation of the Leak Control valve can be used to prevent sample dispersal while minimizing the effects of oxidation.

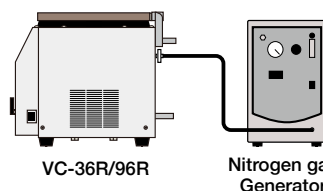
Leak Control valve ►
Reduce dispersal of completely dried out samples with manual leakage.



Leak Control valve on Main unit Front



Main unit Rear



N₂ gas

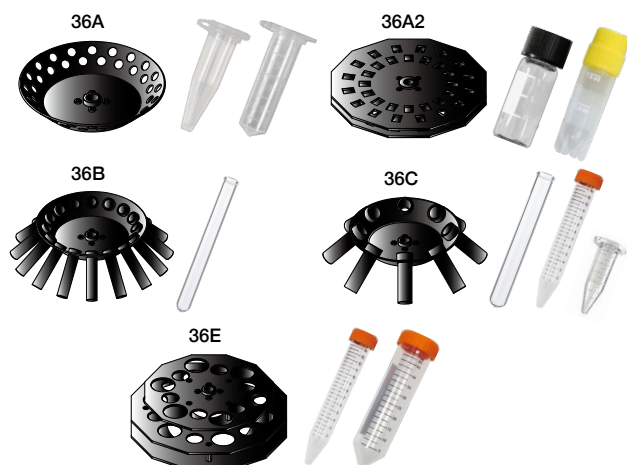
(Or connect a commercially available sampling bag, etc.)
Reference: Capacity of VC-36R: approx. 8.5 L
Capacity of VC-96R: approx. 13 L

Introduction on Options/Optional parts and Systems

•Suitable Cold Traps/Vacuum pumps for VC-36R/96R --> P.164-165

Angle rotors for VC-36R

(36A/36B/36C are the same type for the former models VC-36S/36N)

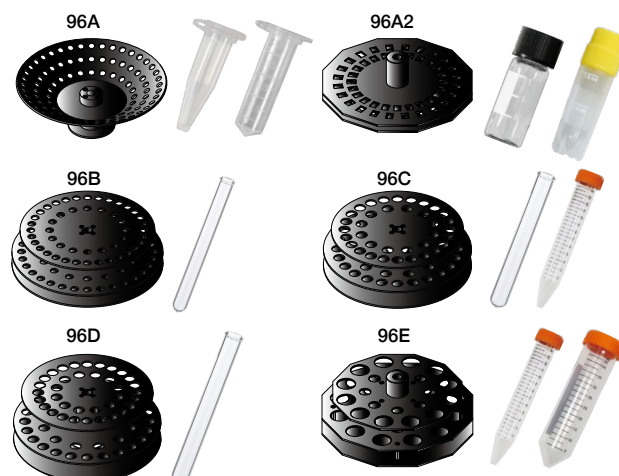


Model	Vessels/Capacity	Approximate processing capacity (*)
36A	Microtubes: 1.5/2.0 mL × 40 pcs	40 mL
36A2	Micro Vials: 1.5/2.0 mL × 32 pcs/Cryo tubes: 2.0 mL × 32 pcs	32 mL
36B	Test tubes (Below φ13 mm, Length 80 to 125 mm) × 16 pcs	64 mL
36C	Test tubes (Below φ17.5 mm, Length 80 to 125 mm)/15 mL Disposable centrifuge tubes × 8 pcs/5 mL tubes (*) × 8 pcs	64 mL
36E	Disposable centrifuge tubes: 15 mL × 6 pcs + 50 mL × 6 pcs	150 mL

(*) Liquid volume: 1 mL/1.5 mL tube, 4 mL/φ13 mm Test tube, 8 mL/15 mL Centrifuge tube, 25 mL/50 mL Centrifuge tube (*) Eppendorf Safe-lock tubes are recommended for 5 mL tubes.
•The applicable vessels in length are different from when 36A/36B/36C/96A/96B/96C/96D used in the former models.

Angle rotors for VC-96R



(96A/96B/96C/96D are the same type for the former model VC-96N)



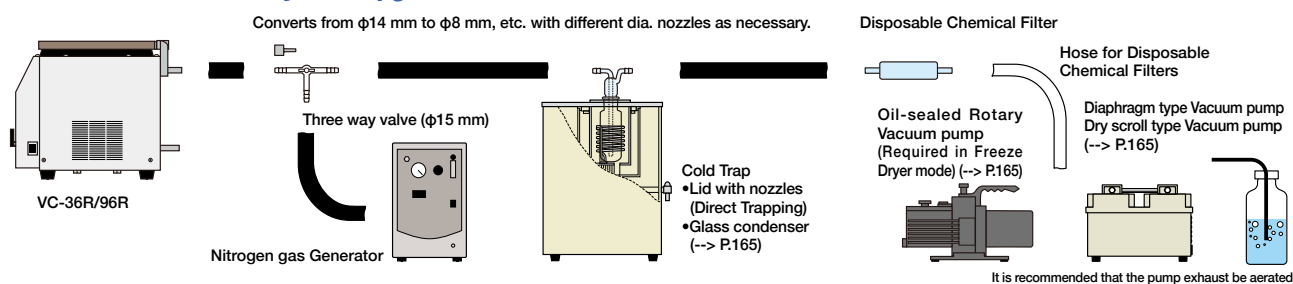
Model	Vessels/Capacity	Approximate processing capacity (*)
96A	Microtubes: 1.5/2.0 mL × 96 pcs	96 mL
96A2	Micro Vials: 1.5/2.0 mL × 48 pcs/Cryo tubes: 2.0 mL × 48 pcs	48 mL
96B	Test tubes (φ10 to 12 mm, Length 80 to 125 mm) × 48 pcs	192 mL
96C	Test tubes (φ16.5 to 18 mm, Length 80 to 125 mm)/15 mL Disposable centrifuge tubes × 36 pcs	288 mL
96D	Test tubes (φ17.5 to 18 mm, Length 130 to 165 mm) × 36 pcs	360 mL
96E	Disposable centrifuge tubes: 15 mL × 8 pcs + 50 mL × 12 pcs	300 mL

(*) Liquid volume: 1 mL/1.5 mL tube, 4 mL/φ13 mm Test tube, 8 mL/15 mL Centrifuge tube, 10 mL/φ18 mm Test tube, 25 mL/50 mL Centrifuge tube

Optional accessories: Nitrogen gas Generator, Three way valve

Model	N ₂ GENESIS 200	Three way valve for VC φ15 (Polypropylene made)
Remarks	 <p>Collects Nitrogen from the atmosphere and concentrates it Max. 99.0% (See page 51 for details).</p> <ul style="list-style-type: none"> •Supply pressure: Max. 0.5 MPa •Flow Rate and Concentration: 99.9% at 1.0 L/min, 99.5% at 3.0 L/min •Size (W×D×H): 300 × 526 × 481 mm 	 <p>Connects to the suction nozzle. Nitrogen is fed instead of air to the centrifugal concentrator during the process of changing the samples in the concentrator one after another without stopping the pump (see figure below for details). Outer dia. φ15 mm, Polypropylene made</p>

The connection when System upgrade



Example of VC-36R System

- Microtube 1.5/2.0 mL × 40 pcs
- Ultimate pressure: 200 Pa
- Displacement: 20 L/min
- Trapping temp.: -45°C
- Trapping volume: 200 mL
- Power consumption: 869 W

VC-36R (Centrifugal Concentrator)
36A (Rotor)
VA-250F (Cold Trap)
GC-035 (Glass condenser)
DTU-20 (Vacuum pump)
System Stand G-type



Example of VC-96R System

- Disposable centrifuge tubes (15 mL × 8 pcs + 50 mL × 10 pcs)
- Ultimate pressure: 1000 Pa
- Displacement: 60 L/min
- Trapping temp.: -45°C
- Trapping volume: 200 mL
- Power consumption: 1157 W

VC-96R (Centrifugal Concentrator)
96E (Rotor)
VA-250F (Cold Trap)
GC-035 (Glass condenser)
DTC-60 (Vacuum pump)
System Stand G-type



NEW

Constant temperature incubator shaker
 OD Monitor

For cell culture related products

Shaker

Mixer Rotator
 Stirrer

Bead beater
 homogenizer
 Ultrasonic homogenizer

Aluminum block Bath
 Mini-size Bath

Water bath
 Shaking Water bath
 Immersion cooler

Hybridization Incubator
 Constant temperature Chambers

Centrifugal Concentrators
 Cold Trap

Freeze dryers

Substrate Electrophoresis apparatus
 Blotting device for hybridization

Constant-temperature water circulating system [Chilled]

Appendix