

# Forced Convection Oven Vacuum Oven Muffle Furnace

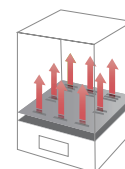


## Forced Convection Oven

Ideal for high temperature storage with user-friendly design.  
WF-G Models are used for all sterilization and drying tasks that do not require high drying rates or special time requirements and ideal for drying applications requiring gentle airflow.

### Features

- > Microprocess PID control / Calibration.
- > Over temperature limit protection / Door opening alarm.
- > Conveniently preset 3 most commonly used temperature settings.
- > Gravity-flow convection with vertical airflow for uniform sample heating.
- > Featuring a pull out door handle.
- > Rounded inner chamber corners for easy cleaning and better air-flowing.
- > Stainless steel interior.
- > Two circular adjustable top slide vents help to control inner air vapor circulation (inside diameter 35mm)



**Simplifies operation**  
LED display, easy to operate



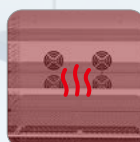
**Venting valve**  
Regulate the air exchange between chamber and outside



**High temperature protection**  
Alarm when the temperature exceeds the set point



**Wide temperature range**  
Up to 250 °C, even 300 °C version is possible



**Uniform distribution**  
Accurate temperature control and forced convection



**RS232 interface**  
Remote control by PC software



## Specifications

250°C

Model	WF-02G	WF-12G	WF-22G
Chamber Volume (L)	50	100	150
Temperature	Range (°C)	RT.+10~250	RT.+10~250
	Stability at 100°C (°C)	0.5	0.6
Dimension (W×D×H)	Interior (mm)	400×420×420	480×460×500
	Exterior (mm)	540×620×780	600×690×810
Number of shelves	2/8	2/12	2/14
Weight (kg)	55	62	72.5
Power supply	230V, 50/60 Hz, 4.4A	230V, 50/60 Hz, 6.1A	230V, 50/60 Hz, 7.4A
Order No.	Without glass window	W6061050	W6061100
	With glass window	W6061051	W6061101

300°C

Model	WF-05G	WF-10G	WF-15G	WF-25G	WF-40G	WF-72G
Chamber Volume (L)	50	100	150	250	400	720
Temperature	Range (°C)	RT.+10~300	RT.+10~300	RT.+10~300	RT.+10~300	RT.+10~300
	Stability at 100°C (°C)	0.5	0.5	0.5	0.5	0.5
Dimension (W×D×H)	Interior (mm)	387×334×407	475×396×502	475×396×605	568×445×743	998×495×802
	Exterior (mm)	573×570×732	660×649×830	660×649×930	810×788×1031	1240×838×1110
Number of shelves	2/8	2/12	2/14	2/14	2/10	2/10
Weight (kg)	55	62	72.5	78.5	100.5	110.5
Heating power (kW)	1.2	1.3	1.5	1.85	3.4	5.1
Power supply	230V, 50/60 Hz, 4.4A	230V, 50/60 Hz, 4.4A	230V, 50/60 Hz, 6.1A	230V, 50/60 Hz, 7.4A	380V	380V
Order No.	Without glass window	W6062050	W6062100	W6062150	W6062250	W6062400
	With glass window	W6062051	W6062101	W6062151	W6062251	-

## Accessories & Options

### Perforated Shelves

Stainless steel shelves are easily removable without using tools for easy cleaning.

Order No.	Description W x L (mm)	Model
W6060501	365×315	WF-02G / 05G
W6061001	450×380	WF-10G / 12G
W6061501	465×400	WF-15G / 22G
W6062501	558×440	WF-25G
W6064001	988×490	WF-40G
W6067201	1068×565	WF-72G



### Glass viewing window

Threefold tempered glass viewing window allows for easy monitoring of samples.



# Vacuum Oven

Optimally constructed for separating solvents from solutions or other sample with high boiling points. With vacuum, the boiling point of the solvent can be reduced, protecting the sample and make the separation process easier. The vacuum oven is widely used in the fields of biochemistry, chemical industry, pharmacy, medical and health, agricultural research, environmental protection, etc. , for powder drying, baking and various types of glass containers for disinfection and sterilization. It is especially suitable for fast and efficient drying of heat-sensitive, easily decomposed, easily oxidized materials and articles with complex components.

## Features

### Display

- > Large LED temperature display for actual value and setpoint(resolution on 0.1°C )
- > The vacuum gauge displays the vacuum in the oven in real time

### Operation

- > Wiggins traditional operation panel, clear and simple
- > Three common temperature points can be used to start the test quickly
- > Ball valve used for open and close the vacuum in oven
- > Need valve used for venting
- > All connections as well vacuum and venting are located at the rear

### Temperature control

- > Wide temperature range that can be controlled up to 250°C
- > Improved temperature distribution. ( $\pm 3.7^{\circ}\text{C}$  at  $100^{\circ}\text{C}$  )
- > Integrated programmer for the execution of time and temperature dependant profiles,  
1 temperature profile with 9 steps max. The selected steps can set up up to 200 loops

### Structural and Safety

- > Toughened glass doors allow easy access to the interior of the oven.
- > Safety door cover to protect users and laboratories when toughened glass breaks
- > Overcurrent and over temperature protection
- > Different materials of O-ring are optional
- > RS232 interface

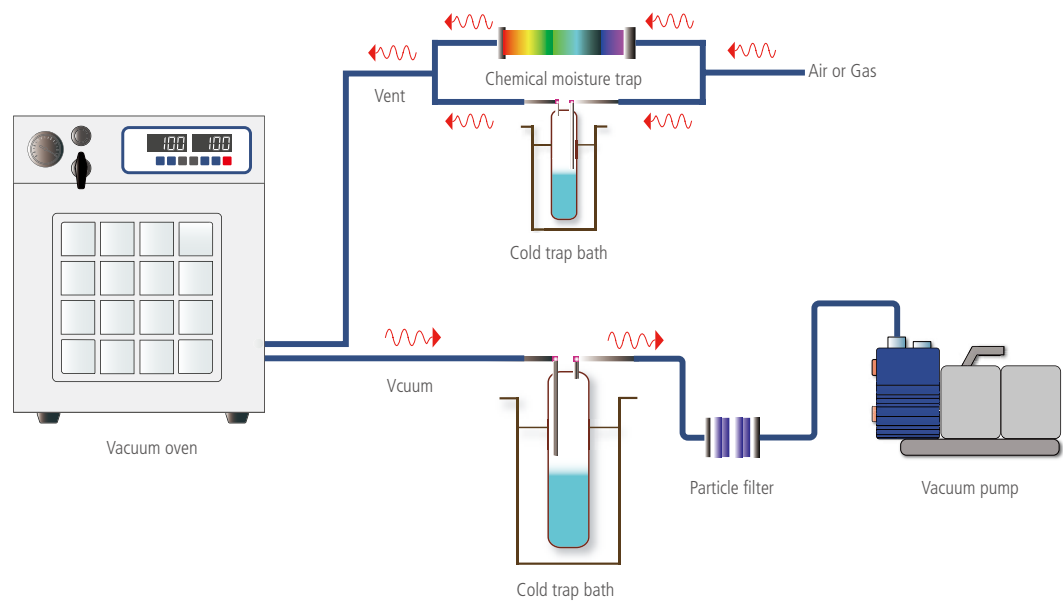


## Specifications

Model	WOV-30	WOV-65	WOV-120
Order No.	W6071030	W6071065	W6071120
Volume (L)	30	65	120
Temperature range (°C)	RT+5~250	RT+5~250	RT+5~250
Temperature resolution (°C)	0.1 (at100°C )	0.1 (at100°C )	0.1 (at100°C )
Temperature variation (°C)	$\pm 3.7$ (at100°C )	$\pm 3.7$ (at100°C )	$\pm 3.7$ (at100°C )
Heating power (W)	2100	2100	2550
Vacuum range	0~1 atm	0~1 atm	0~1 atm
Timer	1min~99hr59min	1min~99hr59min	1min~99hr59min
Vacuum connector (mm)	Ø10	Ø10	Ø10
Venting connector (mm)	Ø10	Ø10	Ø10
Inner size (mm)	320×320×320	400×400×400	500×500×500
Dimension (mm)	545×505×630	625×585×710	725×685×810
Weight (kg)	63	103	147

Related Products for Vacuum Ovens

Organization chart for use of Vacuum oven with Pump and Cold trap bath



Accessories

Safety cover

Protection of users and laboratories when toughened glass breaks

Order No.	Part	Suitable for
W6071031	Safety cover	WOV-30
W6071061	Safety cover	WOV-65
W6071121	Safety cover	WOV-120



Gasket

Installed between chamber and door, silicone gasket and fluorine rubber gasket are available.

Order No.	Part	Suitable for
W6071032	Gasket, silicone	WOV-30
W6071062	Gasket, silicone	WOV-65
W6071122	Gasket, silicone	WOV-120
W6071033	Gasket, fluorine rubber	WOV-30
W6071063	Gasket, fluorine rubber	WOV-65
W6071123	Gasket, fluorine rubber	WOV-120



Vacuum pump and cold trap

Order No.	Part	Suitable for
169520	Vacuum pump C520	WOV series
900104	Vacuum pump R-16SN	WOV series
62012K	Cold trap	WOV series



# Muffle Furnace

Standard version RT+15°C ~1100°C

Hight temperature version RT+15°C ~1600°C



## Operation and Display

- > Intelligent navigation operation, can be directly access into the settings
- > The main interface shows setting temperature, actual temperature, output power, historical data, alarm records and other information, convenient to enter the destination menu directly.

## Program

- > Integrated temperature program, 10×30 steps
- > Display the temperature curve in real-time

## Data storage and connection

- > Data storage, transfer, and invocation
- > Experiment data and alarm information can be transfer by USB stick
- > Communication interface included RS232, RS485, RJ45, can be remote controlled by PC and SCADA

## Safety

- > Overheat protection (Electronic and mechanical protection), Overload and leakage protection, Self-diagnosis
- > With password protection to prevent the process of setting parameters are changed
- > Standard with passive exhaust port, ensure gas pressure safety
- > With high quality thermocouple, ensure accurate temperature control and long service time



## Specification

Model	WMF-02	WMF-05	WMF-12	WMF-02H	WMF-05H	WMF-12H
Chamber volume (L)	2	4.5	12	3	4.5	12
Temperature range (°C)	RT+15~1100	RT+15~1100	RT+15~1100	RT+15~1600	RT+15~1600	RT+15~1600
Temperature stability (°C)	±1	±1	±1	±1.5	±1.5	±1.5
Heating	Heat on three sides					
Temperature control	PID					
Heating capacity (KW)	1.5	2.5	4	3	4.5	7
Program	Integrated temperature program, 10×30 steps					
Safety device	Overheat, Overload and leakage protection, Self-diagnosis, with password protection					
Temperature curve	Display the temperature curve in real-time					
Communication interface	RS232, RS485, RJ45, USB-A for data export					
Power supply	Aviation connector of the power supply, AC220, 50/60Hz					
Dimensions(W×D×H mm)	445×460×570	475×460×640	525×560×690	640×530×980	650×580×990	700×680×1040
Chamber dimensions(W×D×H mm)	120×200×80	150×200×150	200×300×200	140×150×140	150×200×150	200×300×200
Weight (KG)	62	74	102	62	74	102
Order No.	W6121002	W6121005	W6121012	W6122002	W6122005	W6122012

\*Recommended material tray for high-temperature heating

## Accessories

Order No.	Name	Description
W6121P0030	Tray	Used to place materials Suitable for WMF-02
W6121P0031	Tray	Used to place materials Suitable for WMF-02H
W6121P0032	Tray	Used to place materials Suitable for WMF-05/05H
W6121P0033	Tray	Used to place materials Suitable for WMF-12/12H

