

# Ovens

## SELECTION GUIDE

Forced Convection Ovens

Natural Convection Ovens

Vacuum Ovens

### Forced Convection Ovens (Mechanical)

Description		Operating Temp. Range (°C/°F)	Chamber Volume (L / cu ft)	Temperature Fluctuation at 100°C [±°C/°F]	Temperature Variation at 100°C [±°C/°F]	Page
Programmable Models	OF-02P	Amb. +10 to 250 / Amb. +18 to 482	60 / 2.1	0.5 / 0.9	1.0 / 1.8	82
	OF-12P		102 / 3.6	0.6 / 1.08	1.3 / 2.3	
	OF-22P		151 / 5.3	0.8 / 1.44	1.7 / 3.1	
General Models	OF-02G	Amb. +10 to 250 / Amb. +18 to 482	60 / 2.1	0.5 / 0.9	1.0 / 1.8	83
	OF-12G		102 / 3.6	0.6 / 1.08	1.3 / 2.3	
	OF-22G		151 / 5.3	0.8 / 1.44	1.7 / 3.1	
	OF-300G	Amb. +10 to 200 / Amb. +18 to 392	314 / 11	0.2 / 0.36	0.9 / 1.6	84
	OF-450G		450 / 15.9	0.1 / 0.18	0.7 / 1.3	
	OF-750G		760 / 26.8	0.2 / 0.36	1.5 / 2.7	
	OF-300H	Amb. +10 to 300 / Amb. +18 to 572	314 / 11	0.2 / 0.36	0.9 / 1.6	
	OF-450H		450 / 15.9		0.8 / 1.4	
	OF-750H		760 / 26.8		1.9 / 3.4	
2&4-chamber Models	OF-02G-2C	Amb. +10 to 200 / Amb. +18 to 392	60 / 2.1 x 2 cham-	0.5 / 0.9	1.0 / 1.8	86
	OF-02G-4C		60 / 2.1 x 4 cham-			
Economy Models	OF-01E	Amb. +10 to 220 / Amb. +18 to 428	52 / 1.8	0.4 / 0.72	3.3 / 5.94	88
	OF-11E		100 / 3.5		3.3 / 5.94	
	OF-21E		150 / 5.3		2.3 / 4.14	

### Natural Convection Ovens (Gravity)

Description		Operating Temp. Range (°C/°F)	Chamber Volume (L / cu ft)	Temperature Fluctuation at 100°C [±°C/°F]	Temperature Variation at 100°C [±°C/°F]	Page
General Models	ON-02G	Amb. +15 to 250 / Amb. +27 to 482	52 / 1.8	0.3 / 0.54	5.9 / 10.62	89
	ON-12G		91 / 3.2		7.5 / 13.5	
	ON-22G		135 / 4.8		6.9 / 12.42	
Economy Models	ON-01E	Amb. +15 to 220 / Amb. +27 to 428	52 / 1.8	0.3 / 0.54	6.5 / 11.7	90
	ON-11E		100 / 3.5	0.4 / 0.72	4.1 / 7.38	
	ON-21E		150 / 5.3	0.5 / 0.9	7.3 / 13.14	

### Vacuum Ovens

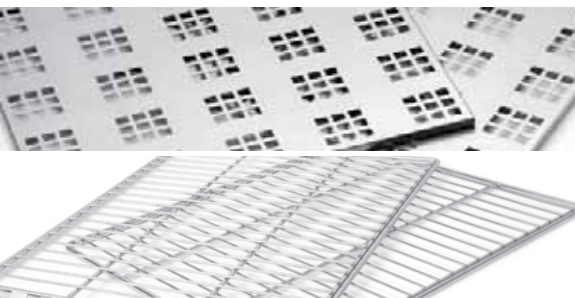
Description		Operating Temp. Range (°C/°F)	Chamber Volume (L / cu ft)	Temperature Fluctuation at 100°C [±°C/°F]	Temperature Variation at 100°C [±°C/°F]	Page
Vacuum	OV-11	Amb. +5 to 250 / Amb. +9 to 482	28 / 1	0.1 / 0.18	3.7 / 6.66	91
	OV-12		65 / 2.3	0.3 / 0.54		

### Accessories & Options

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# GENERAL APPLICATIONS



General Applications	Forced, Nature Convection Ovens & Vacuum		
	OF Models	ON Models	OV Models
General Aging and Curing	•		
Agricultural Genetic	•		•
Annealing	•	•	•
Asphalt Testing	•	•	
Conditioning	•	•	
Contamination-Free storage of semiconductors and other sensitive electronic components			•
Desiccating			•
Digestion of Proteins and Starches	•		
Drying of Plant Tissue		•	
Drug Metabolism	•	•	
Electronic Burn-in	•	•	
Epoxy and Plastic Curing	•	•	
Fine Chemical Precipitation		•	
General Baking	•	•	
General Heating	•	•	
Glassware Drying	•	•	
Ideal for General Drying			•
Life and Exposure Studies	•	•	
Ordinance Material Testing	•	•	
Out-gassing Solids and Liquids			•
Paper Drying	•	•	
Plating			•
Precise Moisture Determination	•		•
Preheating	•	•	
Rubber Drying	•	•	
Serum Protein Analysis	•	•	
Silicon Wafer Drying			•
Stability and QC/ Batch Testing	•	•	
Sterilization	•	•	
Suspended Solids Evaluation	•	•	
Textile Drying	•	•	
Vacuum Embedding			•
Volatile Resins and Polymers Testing			•
Vulcanization Studies	•	•	

## TECHNICAL BENEFITS

### Safety Features

- 1) Open door alert (except for OV Models):
  - Activation of audible and visible alarms.
  - Automatic power cutoff from the heater and the fan (only OF Models) if the door is open for the minimize heat loss and also to protect the operator.
- 2) Protection against overheating by automatic power cutoff from the heater and controller in sequence.
- 3) Two separate fuses for protecting against overcurrent.  
(without OF-300, 450, 750 G/H Models)

### Optimum Control Features

- 1) Microprocessor PID control.
- 2) Intuitive and easy-to-operate control panel design using HMI (Human Machine Interface) network system.
- 3) Simple calibration and auto-tuning function.
- 4) Convenient presetting function for 3 most commonly used temperature settings.
- 5) Max. 10 programmable patterns of 10 segments each are settable for easy program control. (only for OF-P Models)
- 6) Delayed ON/OFF digital timer range: 1 min ~ 99 hr 59 min
- 7) Operation mode selection after power interruption: either Automatic or Manual Run.

### Constructional Features

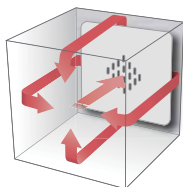
- 1) Grade 304 Stainless Steel chamber interior and dirt-repellent external surface with power coating.  
(without OV Models)
- 2) Air-tight door gasket minimizing heat loss.
- 3) Fully insulated oven chamber maintaining the exterior at a safe temperature.
- 4) Adjustable and electro polished stainless steel wire shelves allowing efficient airflow and easy cleaning.  
(without OV Models)



# Ovens

## Forced Convection Ovens (Programmable Models)

Best suitable for the applications which require precise and programmable temperature control.



### OF-12P with optional Viewing Window

#### Included Accessories

#### Optional Accessories

• see page 92

- 2 Wire Shelves
- Tempered Viewing Window
- Perforated Shelves

### Operating Features

- Microprocessor PID control.
- Maximum 3 temperature range-specific calibration and auto-tuning function.
- Temperature control: 10°C above ambient to 250°C
- Heating time can be adjusted depending on your's needs.
- Delayed ON/OFF digital timer range: 1 min ~ 99 hr 59 min
- Colorful LCD display with interactive input system.
- High temperature limit setting and open door alert.
- Automatic run and button lock function.
- RS-232 interface.
- Precise programming operation.

#### Programming Parameters

Programmable Pattern Capacity	10
Max. Segments per a Pattern	10
Programmable process time per a segment	1 to 99 hr 59 min.

\* Preheating chamber is available before program cycle starts.

### Constructional Features

- Forced air convection ensuring optimal air circulation, temperature uniformity, and short heat-up time.
- Corrosion-resistant incoloy sheath heating element and stainless steel interior.
- Adjustable dual slide vents for controlling inner vapor circulation. (diameter: 38mm/1.5")

### Specifications & Ordering Information



Model		OF-02P	OF-12P	OF-22P
Chamber Volume (L / cu ft)		60 / 2.1	102 / 3.6	151 / 5.3
Temperature	Range (°C / °F)	Amb. +10 to 250 / Amb. +18 to 482		
	Fluctuation <sup>1)</sup> at 100°C (±°C / °F)	0.5 / 0.9	0.6 / 1.08	0.8 / 1.44
	Variation <sup>1)</sup> at 100°C (±°C / °F)	1 / 1.8	1.3 / 2.3	1.7 / 3.1
Dimension (WxDxH)	Interior (mm / inch)	400×360×420 / 15.7×14.2×16.5	480×410×520 / 18.9×16.1×20.5	550×460×600 / 22×18×23.6
	Exterior (mm / inch)	577×642×760 / 22.7×25.3×30	657×692×870 / 25.9×27.2×34.3	727×742×974 / 28.7×29.2×38.3
	Net Weight (Kg / lbs)	53 / 117	63 / 139	72.5 / 160
Electrical Requirements (230V, 50 / 60Hz)		4.4A	6.1A	7.4A
Cat. No.		AAH12555K	AAH12565K	AAH12575K
Electrical Requirements (120V, 60Hz)		6.8A	8.4A	10.1A
Cat. No.		AAH12553U	AAH12563U	AAH12573U

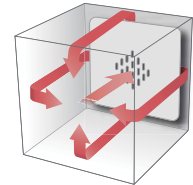
1) Technical data according to DIN 12880.

# Ovens

## Forced Convection Ovens (General Models)

### Superb air dispersion and uniform temperature distribution

Equipped with a powerful yet noiseless sirocco fan, OF-G Models ovens provide superb drying performance especially suitable for samples with high moisture content.



#### Operating Features

- Microprocessor PID control.
- Simple calibration and auto-tuning function.
- Temperature control: 10°C above ambient to 250°C
- Delayed ON/OFF digital timer range: 1 min ~ 99 hr 59 min
- Intuitive control panel with bright LED display (0.1°C resolution) and touch-sensitive keypad.
- High temperature limit setting and open door alert.
- Convenient presetting function for 3 most commonly used temperature settings.
- RS-232 interface.

#### Constructional Features

- Forced air convection ensuring optimal air circulation, temperature uniformity, and short heat-up time.
- Rounded inner chamber corners for easy cleaning and optimal airflow.
- Corrosion-resistant incoloy sheath heating element and stainless steel interior.
- Adjustable dual slide vents for controlling inner vapor circulation. (diameter: 38mm/1.5")
- Threefold tempered-glass window providing clear inside view of the chambers. (optional)
- Fan speed control by an analog dial for preventing powdered samples from blowing away. (optional)



#### OF-22G with optional Viewing Window

**Included Accessories**  
**Optional Accessories**  
 see page 92

- 2 Wire Shelves
- Tempered Viewing Window
- Fan Speed Adjuster
- Perforated Shelves

#### Specifications & Ordering Information



Model		OF-02G	OF-12G	OF-22G
Chamber Volume (L / cu ft)		60 / 2.1	102 / 3.6	151 / 5.3
Temperature	Range (°C / °F)	Amb. +10 to 250 / Amb. +18 to 482		
	Fluctuation <sup>1)</sup> at 100°C (±°C / °F)	0.5 / 0.9	0.6 / 1.08	0.8 / 1.44
	Variation <sup>1)</sup> at 100°C (±°C / °F)	1 / 1.8	1.3 / 2.3	1.7 / 3.1
Dimension (WxDxH)	Interior (mm / inch)	400×360×420 / 15.7×14.2×16.5	480×410×520 / 18.9×16.1×20.5	550×460×600 / 22×18×23.6
	Exterior (mm / inch)	577×642×760 / 22.7×25.3×30	657×692×870 / 25.9×27.2×34.3	727×742×974 / 28.7×29.2×38.3
	Net Weight (Kg / lbs)	53 / 117	63 / 139	72.5 / 160
Electrical Requirements (230V, 50 / 60Hz)		4.4A	6.1A	7.4A
Cat. No.		AAH12155K	AAH12165K	AAH12175K
Electrical Requirements (120V, 50 / 60Hz)		6.8A	8.4A	10.1A
Cat. No.		AAH12156U	AAH12166U	AAH12176U

1) Technical data according to DIN 12880.



# Ovens

## Forced Convection Ovens (General Models)



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OF-G / H Models with an optional Viewing Window



OF-G/H(large) Display

# Ovens

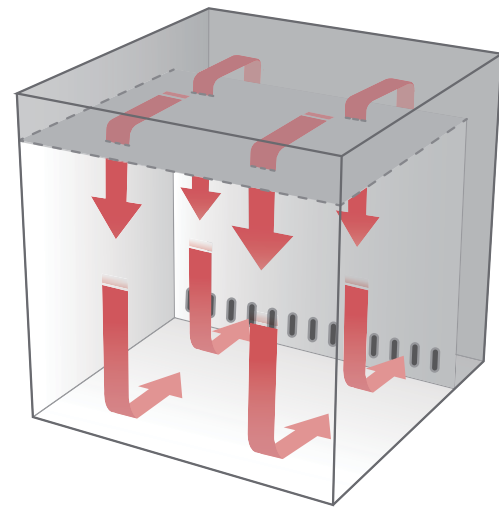
## Forced Convection Ovens (General Models)

Specially designed for large volume (maximum 760 L) and fast drying (maximum 300°C) applications

Offering rapid heating performance as well as uniform temperature distribution, these heavy-duty ovens are ideal for obtaining quick test results.

### Operating Features

- Microprocessor PID control.
- Simple calibration and auto-tuning function.
- Temperature control
  - OF-G models: 10°C above ambient to 200°C
  - OF-H models: 10°C above ambient to 300°C
- Delayed ON/OFF digital timer range: 1 min ~ 99 hr 59 min.
- Intuitive control panel with bright LED display. (0.1°C resolution)
- High temperature limit setting and open door alert.
- Convenient presetting function for 3 most commonly used temperature settings.
- Operation mode selection after power recovery: either Automatic or Manual Run.
- RS-232 interface.



### Constructional Features

- Forced air convection generated by two noiseless and powerful sirocco fans ensuring optimal air circulation, temperature uniformity, and short heat-up time.
- Threefold tempered-glass window providing clear inside view of the chamber. (optional)
- Rounded inner chamber corners for easy cleaning and optimal airflow.
- Corrosion-resistant incoloy sheath heating element and stainless steel interior.
- Adjustable dual slide vents for controlling inner vapor circulation. (diameter: 38mm/1.5")
- Adjustable 5-speed fan for controlling inner circulation rate.

### Convection Pattern of OF-G / H Models

#### Included Accessories

- 2 Wire Shelves (OF-300G / H)
- 3 Wire Shelves (OF-450G / H, 750G / H)

#### Optional Accessories

☞ see page 92

- Tempered Viewing Window
- Perforated Shelves
- Digital Recorders
  - 6-point dot type recorder.
  - Thermal line recorder.

### Specifications & Ordering Information



Model		OF-300G	OF-450G	OF-750G	OF-300H	OF-450H	OF-750H
Chamber Volume (L / cu ft)		314 / 11	450 / 15.9	760 / 26.8	314 / 11	450 / 15.9	760 / 26.8
Temperature	Range (°C / °F)	Amb. +10 to 200 / Amb.+18 to 392			Amb. +10 to 300	Amb.+18 to 572	
	Fluctuation <sup>1)</sup> at 100°C (±°C / °F)	0.2 / 0.36	0.1 / 0.18	0.2 / 0.36	0.2 / 0.36	0.2 / 0.36	0.2 / 0.36
	Variation <sup>1)</sup> at 100°C (±°C / °F)	0.9 / 1.6	0.7 / 1.3	1.5 / 2.7	0.9 / 1.6	0.8 / 1.4	1.9 / 3.4
Dimension (WxDxH)	Interior (mm / inch)	645×750×650 /	645×750×930 /	745×850×1200 /	645×750×650 /	645×750×930 /	745×850×1200 / 29.3×33.5×47.2
	Exterior (mm / inch)	835×1020×1225 / 32.9×40.2×48.2	835×1020×1505 / 32.9×40.2×59.3	955×1140×1775 / 37.6×44.9×69.9	835×1020×1225 / 32.9×40.2×48.2	835×1020×1505 / 32.9×40.2×59.3	955×1140×1775 / 37.6×44.9×69.9
	Net Weight (Kg / lbs)	175 / 385.8	210 / 462.9	280 / 617.3	210 / 462.9	250 / 551.2	335 / 738.5
	Electrical Requirements (230V, 1 ph, 50 / 60 Hz)						
Cat. No.	Solid Door Type	AAH18015K	-	-	-	-	-
	Viewing Window Door Type	AAH18115K	-	-	-	-	-
Electrical Requirements (230V, 3 ph, 50 / 60 Hz)			10A	13.8A	10A	13.8A	16.8A
Cat. No.	Solid Door Type	-	AAH180213K	AAH180313K	AAH190113K	AAH190213K	AAH190313K
	Viewing Window Door Type	-	AAH181213K	AAH181313K	AAH191113K	AAH191213K	AAH191313K
Electrical Requirements (380V, 3 ph, 50 / 60 Hz)			6.5A	8.8A	6.5A	8.8A	10.6A
Cat. No.	Solid Door Type	-	AAH180214K	AAH180314K	AAH190114K	AAH190214K	AAH190314K
	Viewing Window Door Type	-	AAH181214K	AAH181314K	AAH191114K	AAH191214K	AAH191314K

1) Technical data according to DIN 12880.



# Ovens

## Forced Convection Oven (2 & 4-Chamber Models)



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Information is readily available on our website.



OF-02G-2C / 4C

※ In the year of 2012, this products design can be changed without prior notice.



## Forced Convection Oven (2 & 4-Chamber Models)

Featuring two or four 60L forced convection chambers in a single unit, this oven is designed to offer an ideal and cost-effective solution for laboratories with limited space and budget.

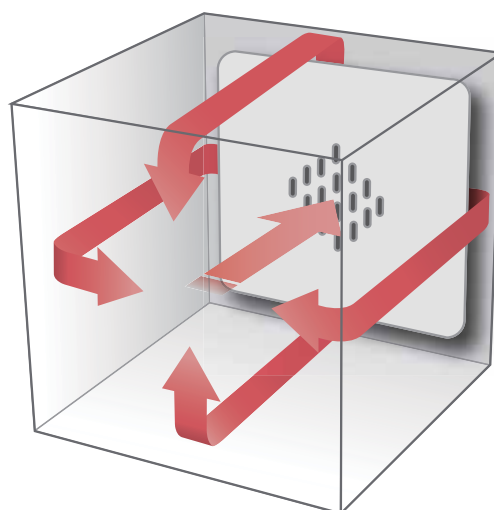
Incorporating specially designed ovens (Model OF-02G) with a powerful yet noiseless sirocco fan, this oven guarantees intensive drying performance, especially for material with high moisture content.

### Operating Features

- Microprocessor PID control.
- Simple calibration and auto-tuning function.
- Temperature control: 10°C above ambient to 200°C
- Delayed ON/OFF digital timer range: 1 min ~ 99 hr 59 min.
- Intuitive control panel with bright LED display (0.1°C resolution) and touch-sensitive keypad.
- High temperature limit setting and open door alert.
- Convenient presetting function for 3 most commonly used temperature settings.

### Constructional Features

- Two or Four independently controlled 60L ovens (Model OF-02G) merged into a single unit for space saving.
- Forced air convection generated by a noiseless and powerful sirocco fan ensuring optimal air circulation, temperature uniformity, and short heat-up time.
- Rounded inner chamber corners for easy cleaning and optimal airflow.
- Corrosion-resistant incoloy sheath heating element and stainless steel interior.
- Adjustable two and four slide vents for controlling inner vapor circulation. (diameter: 38mm/1.5")
- Built-in casters for easy transport and installation.



### Convection Pattern of OF-02G-2C/4C

- Included Accessories** • 2 Wire Shelves per chamber  
**Optional Accessories** • Perforated Shelves  
 ● see page 92

### Specifications & Ordering Information



Model		OF-02G-2C	OF-02G-4C
Chamber Volume (L / cu ft)		60 / 2.1 x 2 Chambers	60 / 2.1 x 4 Chambers
Temperature	Range (°C / °F)	Amb. +10 to 200 / Amb. +18 to 392	
	Fluctuation <sup>1)</sup> at 100°C (±°C / °F)	0.5 / 0.9	
	Variation <sup>1)</sup> at 100°C (±°C / °F)	1 / 1.8	
Dimension (WxDxH)	Interior (mm / inch)	400×360×420 / 15.7×14.2×16.5x 2 Chambers	400×360×420 / 15.7×14.2×16.5x 4 Chambers
	Exterior (mm / inch)	570×640×1340 / 22.4×25.2×52.8	1170×640×1340 / 46.1×25.2×52.8
	Net Weight (Kg / lbs)	110 / 242.5	170 / 374.8
Electrical Requirements (230V, 50 / 60Hz)		8.4A	8.4A x 2EA
Cat. No.		AAH1A115K	AAH1A015K
Electrical Requirements (120V, 50 / 60Hz)		16.7A	16.7A x 2EA
Cat. No.		AAH1A116U	AAH1A016U

1) Technical data according to DIN 12880.

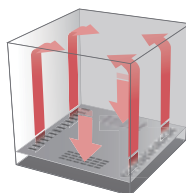




# Ovens

## Forced Convection Ovens (Economy Models)

Affordable multi-function fast drying ovens with vertical airflow.



### Operating Features

- Microprocessor PID control.
- Simple calibration and auto-tuning function.
- Temperature control: 10°C above ambient to 220°C
- Delayed ON/OFF digital timer range: 1 min ~ 99 hr 59 min.
- Intuitive control panel with bright LED display. (0.1°C resolution) and touch-sensitive keypad.
- High temperature limit setting and open door alert.
- Convenient presetting function for 3 most commonly used temperature settings.

### Constructional Features

- Forced air convection generated by a circular fan providing high and uniform drying performance.
- Corrosion-resistant incoloy sheath heating element and stainless steel interior.
- Adjustable dual slide vents for controlling inner vapor circulation. (diameter: 38mm/1.5")
- Easy-to-grip circular door handle.

### OF-11E

Included Accessories  
Optional Accessories  
☛ see page 92

- 2 Wire Shelves
- Perforated Shelves

### Specifications & Ordering Information



Model		OF-01E	OF-11E	OF-21E
Chamber Volume (L / cu ft)		52 / 1.8	100 / 3.5	150 / 5.3
Temperature	Range (°C / °F)	Amb. +10 to 220 / Amb. +18 to 428		
	Fluctuation <sup>1)</sup> at 100°C (±°C / °F)	0.4 / 0.72		
	Variation <sup>1)</sup> at 100°C (±°C / °F)	3.3 / 5.94	3.3 / 5.94	2.3 / 4.14
Dimension (WxDxH)	Interior (mm / inch)	375×370×370 14.8×14.6×14.6	455×430×510 18×17×20	585×460×555 23×18.1×21.9
	Exterior (mm / inch)	530×535×737 20.9×21.1×29	610×595×877 24×23.4×34.5	740×625×922 29.1×24.6×36.3
	Net Weight (Kg / lbs)	36 / 79.4	47 / 103.6	59 / 130
Electrical Requirements (230V, 50 / 60 Hz)		4.3A	6 A	7.4A
Cat. No.		AAH14012K	AAH14022K	AAH14032K
Electrical Requirements (120V, 50 / 60 Hz)		6.8A	8.4A	10.1A
Cat. No.		AAH14016U	AAH14026U	AAH14036U

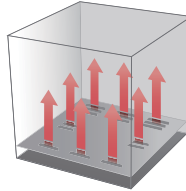
1) Technical data according to DIN 12880.

# Ovens

## Natural Convection Ovens (General Models)

Specially designed for applications requiring gentle airflow.

Ideal for all sterilization, drying, and high-temperature storage tasks that do not require high drying performance or special time requirements but can't be affected by strong airflow.



### Operating Features

- Microprocessor PID control.
- Simple calibration and auto-tuning function.
- Temperature control: 15°C above ambient to 250°C
- Delayed ON/OFF digital timer range: 1 min ~ 99 hr 59 min.
- Intuitive and easy-to-operate control panel with bright LED display (1°C resolution) and touch-sensitive keypad.
- High temperature limit setting and open door alert.
- Convenient presetting function for 3 most commonly used temperature settings.
- RS-232 interface.

### Constructional Features

- Gravity flow convection for uniform sample heating.
- Fully insulated dual-wall door with 180 degree hinges and a pull-down handle.
- Rounded inner chamber corners for easy cleaning and optimal airflow.
- Corrosion-resistant incoloy sheath heating element and stainless steel interior.
- Adjustable dual slide vents for controlling inner vapor circulation. (diameter: 38mm/1.5")
- Threefold tempered-glass window providing clear inside view of the chambers. (optional)



### ON-22G with optional Viewing Window

**Included Accessories**  
**Optional Accessories**  
 • see page 92

- 2 Wire Shelves
- Tempered Viewing Windows
- Perforated Shelves

### Specifications & Ordering Information



Model	ON-02G	ON-12G	ON-22G
Chamber Volume (L / cu ft)	52 / 1.8	91 / 3.2	135 / 4.8
Temperature	Range (°C / °F)		
	Amb. +15 to 250 / Amb. +27 to 482		
	Fluctuation <sup>1)</sup> at 100°C (±°C / °F)		
	0.3 / 0.54		
	Variation <sup>1)</sup> at 100°C (±°C / °F)	5.9 / 10.62	7.5 / 13.5
Dimension (WxDxH)	Interior (mm / inch)	400×360×365 / 15.7×14.2×14.4	480×410×465 / 18.9×16.1×18.3
	Exterior (mm / inch)	577×542×760 / 22.7×21.3×30	657×592×870 / 25.9×23.3×34.3
	Net Weight (Kg / lbs)	49 / 108	59 / 130
			68 / 150
Electrical Requirements (230V, 50 / 60 Hz)	4.3A	6 A	7.4 A
Cat. No.	AAH11135K	AAH11145K	AAH11155K
Electrical Requirements (120V, 50 / 60 Hz)	6.7A	8.3A	10 A
Cat. No.	AAH11136U	AAH11146U	AAH11156U

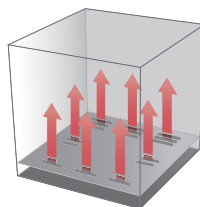
1) Technical data according to DIN 12880.



# Ovens

## Natural Convection Ovens (Economy Models)

Economical multi-function ovens with gentle airflow.



### Operating Features

- Microprocessor PID control.
- Simple calibration and auto-tuning function.
- Temperature control: 15°C above ambient to 220°C
- Delayed ON/OFF digital timer range: 1 min ~ 99 hr 59 min.
- Intuitive and easy-to-operate control panel with bright LED display (1°C resolution) and touch-sensitive keypad.
- High temperature limit setting and open door alert.
- Convenient presetting function for 3 most commonly used temperature settings.
- Corrosion-resistant incoloy sheath heating element and stainless steel interior.
- Adjustable dual slide vents for controlling inner vapor circulation. (diameter: 38mm/1.5")

### Constructional Features

- Gravity-flow convection generates a vertical airflow of heat for a uniformed heating of samples.
- Moderately sized, an easy to clean spacious chamber, and an easy to grip circular door handle.
- Corrosion-resistant incoloy sheath heater and stainless steel chamber.
- Two circular adjustable top slide vents helps to control inner air vapor circulation. (38mm / 1.5" in dia.)

### ON-11E

**Included Accessories**  
**Optional Accessories**  
 ➤ see page 92

- 2 Wire Shelves
- Perforated Shelves

### Specifications & Ordering Information



Model		ON-01E	ON-11E	ON-21E
Chamber Volume (L / cu ft)		52 / 1.8	100 / 3.5	150 / 5.3
Temperature	Range (°C / °F)	Amb. +15 to 220 / Amb. +27 to 428		
	Fluctuation <sup>1)</sup> at 100°C (±°C / °F)	0.3 / 0.54	0.4 / 0.72	0.5 / 0.9
	Variation <sup>1)</sup> at 100°C (±°C / °F)	6.5 / 11.7	4.1 / 7.38	7.3 / 13.14
Dimension (WxDxH)	Interior (mm / inch)	375×370×370 / 14.8×14.6×14.6	455×430×510 / 18×17×20	585×460×555 / 23×18.1×21.9
	Exterior (mm / inch)	530×535×737 / 20.9×21.1×29	610×595×877 / 24×23.4×34.5	740×625×922 / 29.1×24.6×36.3
	Net Weight (Kg / lbs)	34 / 75	46 / 101.4	59 / 130
Electrical Requirements (230V, 50 / 60 Hz)		4.3A	6A	7.4A
Cat. No.		AAH15015K	AAH15025K	AAH15035K
Electrical Requirements (120V, 50 / 60 Hz)		6.7A	8.3A	10A
Cat. No.		AAH15016U	AAH15026U	AAH15036U

1) Technical data according to DIN 12880.

# Ovens

## Vacuum Ovens

Optimally constructed for separating solvents from solutions or drying solvents with high boiling points. Vacuum oven model with a wide temperature range optimal for separating solvents from solutions.

Drying a solvent in vacuum lowers its boiling point, thereby making the separation process easier and eliminating the need to use high temperatures.



### OV-11

#### Included Accessories

- Plate Shelf, 3.0mm (0.12"): 2 for OV-11 / 3 for OV-12

#### Optional Accessories

➤ see page 93

- Safety Cover
- Viton Gasket
- Vacuum Pumps and Oil Mist Trap
- Cold Trap Baths and U-type Glass Trap

### Operating Features

- Microprocessor PID control.
- Simple calibration and auto-tuning function.
- Temperature control: 5°C above ambient to 250°C
- Vacuum range: 0 to 0.1 MPa. (analog vacuum gauge)
- Delayed ON/OFF digital timer range: 1 min ~ 99 hr 59 min.
- Intuitive and easy-to-operate control panel with bright LED display (1°C resolution) and touch-sensitive keypad.
- High temperature limit setting and open door alert.
- Convenient presetting function for 3 most commonly used temperature settings.
- RS-232 interface.

### Constructional Features

- Separate vacuum and vent ports.
- Heat tempered glass window providing clear inside view of the chambers.
- Tight vacuum seal thanks to spring-loaded glass door, silicone gasket, and a push-button latch handle.
- Uniform heat distribution from Block type heater attached to the chamber exterior to the anodized aluminum shelves.
- Viton (fluorine rubber) door gasket also available for acidic applications. (optional)

### Specifications & Ordering Information



Model		OV-11	OV-12
Chamber Volume (L / cu ft)		28 / 1	65 / 2.3
Vacuum Range		0~0.1MPa, Analog	
Nozzle Size (mm / inch)		Vacuum Ø10 / 0.4, Vent Ø10 / 0.4	
Temperature	Range (°C / °F)	Amb. +5 to 250 / Amb. +9 to 482	
	Fluctuation <sup>1)</sup> (±°C / °F at 100°C)	0.1 / 0.18	0.3 / 0.54
	Variation <sup>1)</sup> (±°C / °F at 100°C)	3.7 / 6.66	
Dimension (WxDxH)	Interior (mm / inch)	302×305×302 / 11.9×12×11.9	402×405×402 / 15.8×15.9×15.8
	Exterior (mm / inch)	680×453×495 / 26.8×17.8×19.5	780×557×595 / 30.7×21.9×23.4
	Net Weight (Kg / lbs)	63 / 139	103 / 227
Electrical Requirements (230V, 50 / 60 Hz)		5.3A	6.1A
Cat. No.		AAH13115K	AAH13125K
Electrical Requirements (120V, 50 / 60 Hz)		10A	11.7A
Cat. No.		AAH13116U	AAH13126U

1) Technical data according to DIN 12880.



# Ovens

## Accessories & Options

### for Forced & Natural Convection Ovens



Wire Shelves



Perforated Shelves



Tempered Viewing Windows



Fan Speed Adjuster

#### Wire Shelves

Stainless steel and electropolished shelf system is removed easily without using tools for easy cleaning.

Cat. No.	Description			Suitable for
	Included	Maximum	W×L (mm / inch)	
EDA8136	2	8	366×316 / 14.4×12.4	OF-02G/P
	4	16		OF-02G-2C
	8	32		OF-02G-4C
EDA8135	2	12	446×366 / 17.6×14.4	OF-12G/P
EDA8134	2	14	516×416 / 20.3×16.4	OF-22G/P
EDA8136	2	10	366×316 / 14.4×12.4	OF-01E, ON-01E
EDA8135	2	14	446×366 / 17.6×14.4	OF-11E, ON-11E
EDA8137	2	15	576×419 / 22.7×16.5	OF-21E, ON-21E
RTD1196	2	17	708×608 / 27.9×23.9	OF-300G/H
	3	26		OF-450G/H
RTD1197	3	35		OF-750G/H
EDA8136	2	8	366×316 / 14.4×12.4	ON-02G
EDA8135	2	12	446×366 / 17.6×14.4	ON-12G
EDA8137	2	12	576×419 / 22.7×16.5	ON-22G

#### Perforated Shelves

Stainless steel shelf system is removed easily without using tools for easy cleaning.

Cat. No.	Description		Suitable for
	Maximum	W×L (mm / inch)	
AAA12531	8	366×316 / 14.4×12.4	OF-02G/P
	16		OF-02G-2C
	32		OF-02G-4C
AAA12532	12	446×366 / 17.6×14.4	OF-12G/P
AAA12533	14	516×416 / 20.3×16.4	OF-22G/P
AAA12531	10	366×316 / 14.4×12.4	OF-01E, ON-01E
AAA12532	14	446×366 / 17.6×14.4	OF-11E, ON-11E
AAA12535	15	576×419 / 22.7×16.5	OF-21E, ON-21E
AAA80604-2	17	708×608 / 27.9×23.9	OF-300G/H
	26		OF-450G/H
AAA80604-3	35		OF-750G/H
AAA12531	8	366×316 / 14.4×12.4	ON-02G
AAA12532	12	446×366 / 17.6×14.4	ON-12G
AAA12535	12	576×419 / 22.7×16.5	ON-22G

#### Tempered Viewing Windows

Optimized sample monitoring with threefold, tempered safety glass window. (only for OF-G/P, ON-G Models)

Cat. No.	Description		Suitable for
	Thickness, WxL (mm / inch)		
AAA12611	5, 150x280 / 0.2, 5.9x11		OF-02G/P, ON-02G
AAA12612	5, 150x380 / 0.2, 5.9x15		OF-12G/P, 22G/P, ON-12G, 22G

#### Fan-Speed Adjuster

Adjustable inner air circulation speed, which protects spreading out powder sample. (only for OF-G Models)

Cat. No.	Description	Suitable for
AAA12701	Analog Dial Control	OF-02G, 12G, 22G

#### Recorders

Easy recognizable digital recorders for efficient temperature indicating.

Cat. No.	Description	Suitable for
AAA8T500	Recorder (6 Point)	OF-300G/H, 450G/H, 750G/H
AAAE1503	Recorder (Thermal Line type)	

# Ovens

## Accessories & Options

### for Vacuum Ovens



➤ Safety Covers



➤ Viton Gaskets



➤ Vacuum Pumps



➤ ColdTrap Baths

#### ➤ Safety Covers

In case of the glass is destroyed, the netted steel frame and polycarbonate sheet cover prevent user from glass splinters.

Cat. No.	Description	Suitable for
AAA13603	Safety Cover	OV-11
AAA13604	Safety Cover	OV-12

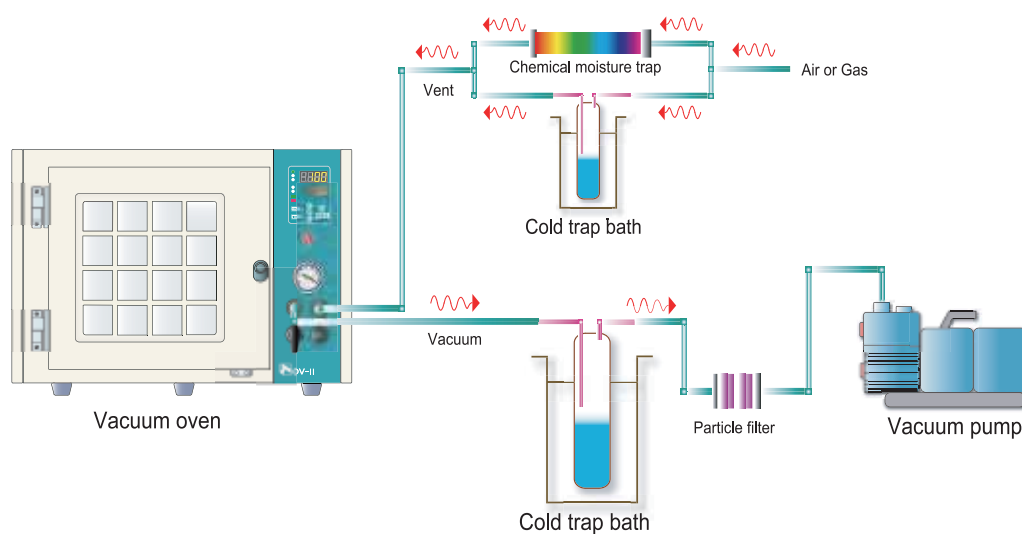
#### ➤ Gaskets

Viton (fluorine rubber) door gaskets can be provided upon request.

Cat. No.	Description	Suitable for
FAA5146	Silicone Gasket	OV-11
FAA5187	Viton (fluorine rubber) Gasket	
FAA5147	Silicone Gasket	OV-12
FAA5188	Viton (fluorine rubber) Gasket	

#### ➤ Related Products for Vacuum Ovens

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



#### ➤ Vacuum Pumps

Rotary vacuum pumps with directly connected oil seal prevent air reflux and provide high vacuum pressure for vacuum ovens.

Cat. No.	Electrical Requirements	Suitable for
BEH73105K	230V, 50 / 60Hz	MVP-6
BEH73501	Oil Mist Trap	Related Accessory

※ In order to get rid of evaporated oil or to block oil in-flow, an optional oil mist trap is recommended. (Refer to Page 93 for additional information.)

#### ➤ Cold Trap Baths

CTB-10 cold trap baths equipped with two U-type glass traps prevent a vacuum pump from vapors or contamination.

Cat. No.	Description	Suitable for
AAH62011K	230V, 60Hz	CTB-10
AAH62012K	230V, 50Hz	
AAA62501	U-type Glass Trap	Related Accessory

※ In addition to standard accessories, we can also provide customized accessories to meet your specific requirements. Please contact your local dealer for more details.