

# Сушильные печи с гравитационной конвекцией OVG-400-27-120, механические конвекционные сушильные шкафы OVF-400, OVF-800

## Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37  
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Саранск (8342)22-96-24  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97  
Тверь (4822)63-31-35

Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Улан-Удэ (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: [cen@nt-rt.ru](mailto:cen@nt-rt.ru) || сайт: <http://coleparmer.nt-rt.ru/>

# Cole-Parmer® OVF-800 Series Mechanical Convection Ovens



Optimized airflow provides even heat transfer for high temperature uniformity

- Three-point temperature calibration ensures excellent temperature accuracy over a wide temperature range
- Intuitive 3.5" touch screen controller
- Stainless steel interior resists corrosion
- Wide-latch handle makes it easy to open and close door even when hands are full
- Stay-cool exterior for user safety

Use these fast-drying, ultra-magnetic ovens for thermal curing and denaturation of samples, preheating of building materials and electronic components, and experimental heat resistance. A microprocessor PID controller provides accurate and reliable temperature control up to 482°F (250°C). An internal fan quickly, evenly, and precisely distributes the heat to heat the chamber.

View current and set temperatures, timer setting, operating status, alarm conditions, and heat status on a 3.5" LCD. Touch screen makes it simple to set the target temperature and time. Use the timer to schedule start and end times as well as to maintain a temperature for a set time. Controller automatically records 12 most recent events, such as start/stop of operation and any error occurrence.

Mineral wool resin insulation and high-temperature silicone rubber gasket on the door ensure excellent insulation and minimal heat loss. Safety features include overtemperature protection, fan and heater shut-off when the door opens, and stay-cool exterior. The auto-run function saves the previous temperature settings in case of a power outage. Side ventilation port (33 mm dia) lets you control the amount of air to be exhausted. Password protection prevents any accidental setting changes.

-

| Compareitem                                                                                                                            | Capacity (Liters) | Power (VAC) | Temperature Uniformity                                      |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|-------------------------------------------------------------|
| <div><div>EW-52412-15</div><div>COMPARE</div></div>   | 26                | 230         | $\pm 1.4^{\circ}\text{C}$<br>( $\pm 0.36^{\circ}\text{F}$ ) |
| <div><div>EW-52412-16</div><div>COMPARE</div></div>   | 26                | 120         | $\pm 1.4^{\circ}\text{C}$<br>( $\pm 0.36^{\circ}\text{F}$ ) |
| <div><div>EW-52412-17</div><div>COMPARE</div></div> | 61                | 230         | $\pm 1.9^{\circ}\text{C}$<br>( $\pm 2.52^{\circ}\text{F}$ ) |
| <div><div>EW-52412-18</div><div>COMPARE</div></div> | 61                | 120         | $\pm 1.9^{\circ}\text{C}$<br>( $\pm 2.52^{\circ}\text{F}$ ) |

| Compare item                                                                                                                           | Capacity (Liters) | Power (VAC) | Temperature Uniformity                                      |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|-------------------------------------------------------------|
| <div><div>EW-52412-19</div><div>COMPARE</div></div>   | 112               | 230         | $\pm 1.7^{\circ}\text{C}$<br>( $\pm 2.16^{\circ}\text{F}$ ) |
| <div><div>EW-52412-20</div><div>COMPARE</div></div>   | 112               | 120         | $\pm 1.7^{\circ}\text{C}$<br>( $\pm 2.16^{\circ}\text{F}$ ) |
| <div><div>EW-52412-21</div><div>COMPARE</div></div> | 147               | 230         | $\pm 1.5^{\circ}\text{C}$ ( $\pm 1.8^{\circ}\text{F}$ )     |
| <div><div>EW-52412-22</div><div>COMPARE</div></div> | 147               | 120         | $\pm 1.5^{\circ}\text{C}$ ( $\pm 1.8^{\circ}\text{F}$ )     |

## 8.1 Technical Specification

### 8.1.1 OVF-800 Series

| Item/Model                             |                                    | 52412-15<br>52412-16                                                              | 52412-17<br>52412-18             | 52412-19<br>52412-20             | 52412-21<br>52412-22             |
|----------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Chamber volume (L/cu ft)               |                                    | 26/0.92                                                                           | 61/2.15                          | 112/3.96                         | 147/5.19                         |
| Temp.                                  | Range (°C/°F)                      | Amb. +10 ~ 250/18~482                                                             |                                  |                                  |                                  |
|                                        | Fluctuation at 100°C (°C/°F)       | ± 0.3/0.54                                                                        | ± 0.3/0.54                       | ± 0.3/0.54                       | ± 0.3/0.54                       |
|                                        | Variation at 100°C (°C/°F)         | ± 1.4/2.52                                                                        | ± 1.9/3.42                       | ± 1.7/3.06                       | ± 1.5/2.7                        |
|                                        | Heating time to 100°C (min.)       | 8                                                                                 | 10                               | 14                               | 15                               |
|                                        | Recovery time at 100°C (min.)      | 4                                                                                 | 4                                | 4                                | 4                                |
|                                        | Controller                         | Microprocessor PID                                                                |                                  |                                  |                                  |
|                                        | Sensor                             | PT 100                                                                            |                                  |                                  |                                  |
|                                        | Heater (SUS 304, 230VAC/120VAC, W) | 1400                                                                              |                                  |                                  |                                  |
| Controller functions                   |                                    | Auto tuning, 3-point temp. calibration, Wait on / off timer(99hr 59min), Auto-run |                                  |                                  |                                  |
| Safety                                 |                                    | CLS(Custom Logical Safe)-control system, IEC protection Class I, Over temp. limit |                                  |                                  |                                  |
| Control panel                          |                                    | 3.5inch TFT Color LCD                                                             |                                  |                                  |                                  |
| Communication interface                |                                    | USB, RS-232 (Option)                                                              |                                  |                                  |                                  |
| Material                               | Internal                           | Stainless steel                                                                   |                                  |                                  |                                  |
|                                        | External                           | Steel, 0.8t powder coating                                                        |                                  |                                  |                                  |
|                                        | Shelves                            | Stainless steel wire, electro polished                                            |                                  |                                  |                                  |
|                                        | Insulation                         | Mineral wool                                                                      |                                  |                                  |                                  |
|                                        | Ventilation slide                  | Stainless steel, dia 38mm x 1ea                                                   |                                  |                                  |                                  |
| Dimensions                             | Interior (W x D x H, mm/inch)      | 300x210x400/<br>11.8x8.27x15.75                                                   | 380x330x480/<br>14.97x13.0x18.9  | 485x350x655/<br>19.1x13.78x25.79 | 550x376x710/<br>21.65x14.8x28.0  |
|                                        | Exterior (W x D x H, mm/inch)      | 478x527x604/<br>18.8x20.75x23.78                                                  | 558x648x684/<br>21.97x25.5x26.93 | 663x677x859/<br>26.1x26.65x33.82 | 728x704x914/<br>28.66x27.7x36.0  |
|                                        | Shelves (standard / max)           | 2/4                                                                               | 2/5                              | 2/8                              | 2/9                              |
| Electric requirements (VAC, Hz, A)     |                                    | 230VAC, 50/60Hz, 6.4A *<br>120VAC, 60Hz, 12.3A                                    |                                  |                                  |                                  |
| Electric consumption (Wh)              |                                    | 40 (at 100°C)<br>790 (at 250°C)                                                   | 60 (at 100°C)<br>810 (at 250°C)  | 70 (at 100°C)<br>1090 (at 250°C) | 80 (at 100°C)<br>1240 (at 250°C) |
| Max. load per shelf (kg/lbs)           |                                    | 20/44.09                                                                          |                                  |                                  |                                  |
| Noise Level (dB)                       |                                    | 48                                                                                |                                  |                                  |                                  |
| Number of Air change per hour at 100°C |                                    | 123                                                                               | 22                               | 18                               | 11                               |
| Weight (net, kg/lbs)                   |                                    | 33/72.8                                                                           | 53/116.8                         | 63/138.9                         | 73/160.9                         |
| Permissible ambient temperature (°C)   |                                    | 5 – 40/41-104                                                                     |                                  |                                  |                                  |
| Permissible relative humidity (%)      |                                    | 10 - 80                                                                           |                                  |                                  |                                  |

※ The above specifications are subject to change without individual notice due to product quality and performance improvement.

※ CE Models: 230 VAC, 50/60 Hz models fulfill the requirements of relevant European product directives



# Cole-Parmer® Gravity and Mechanical Convection Drying Ovens

- Low energy consumption provides operating cost savings
- PID controller gives you accurate and reliable temperature control
- Requires minimal heating time
- Easy-to-view LCD shows time, current and set temperatures, running status, and fan status
- Stainless steel inner chamber and powder-coated steel plate exterior resist corrosion for longer lifetime
- Rounded inner chamber corners offer easy cleaning
- Long-lasting silicone rubber gasket offers a tight seal, ensuring good heat retention and low energy consumption



Gravity convection oven



Mechanical convection oven



## Cole-Parmer® Gravity and Mechanical Convection Drying Ovens

Our gravity and mechanical convection drying ovens offer multiple safety features such as temperature deviation alarm, overtemperature set point alarm, overcurrent protection, and auto-start after power loss/return.

**Gravity convection** ensures gentle, natural, air circulation within the chamber—suitable for sterilization, powder drying, high-temperature storage, and other applications requiring subtle airflow. Able to heat samples up to 200°C (392°F).

**Mechanical convection** offers fast heat-up and uniform temperature throughout the chamber for greater drying efficiency. The mechanical oven has an air vent on the back that can be adjusted by the knob located in front of the oven to control inner air and vapor circulation—ideal for your drying and sterilization needs. Able to heat samples up to 250°C (482°F).

Each oven includes stainless steel shelves with mounting brackets. Additional shelves can be ordered separately (see table).

Gravity convection oven



Mechanical convection oven

# Cole-Parmer® Gravity and Mechanical Convection Drying Ovens

## Specifications

### Temperature range:

Gravity: 10°C above ambient to 200°C (50 to 392°F)  
Mechanical: 10°C above ambient to 250°C (50 to 482°F)

### Display resolution: 0.1°C

Temperature control accuracy: ±0.5°C

Timer range: 0 to 99 hrs, 59 min

### Rise time:

Gravity: 15 to 30 min to 100°C  
Mechanical: 20 to 50 min to 100°C



| Capacity<br>cu ft (L)       | Temperature<br>uniformity | No. of<br>shelves<br>included | No. of<br>shelf<br>positions | Dimensions (W x H x D)                       |                                                 | Power |       |       | Oven        | Additional shelf |
|-----------------------------|---------------------------|-------------------------------|------------------------------|----------------------------------------------|-------------------------------------------------|-------|-------|-------|-------------|------------------|
|                             |                           |                               |                              | Chamber                                      | Overall                                         | VAC   | Hz    | Watts | Item number | Item number      |
| Gravity convection ovens    |                           |                               |                              |                                              |                                                 |       |       |       |             |                  |
| 0.95 (27)                   | ±3% at 100°C              | 2                             | 6                            | 12.6" x 14" x 11.8"<br>(32 x 35.5 x 30 cm)   | 18" x 26" x 20.5"<br>(46 x 66 x 52 cm)          | 120   | 60    | 850   | ML-52411-00 | ML-52411-36      |
|                             |                           |                               |                              |                                              |                                                 | 220   | 50/60 |       | ML-52411-01 |                  |
| 1.97 (56)                   | ±3% at 100°C              | 2                             | 8                            | 15.75" x 16.3" x 13"<br>(40 x 41.5 x 33 cm)  | 21.2" x 28.3" x 21.6"<br>(54 x 72 x 55 cm)      | 120   | 60    | 1000  | ML-52411-02 | ML-52411-37      |
|                             |                           |                               |                              |                                              |                                                 | 220   | 50/60 |       | ML-52411-03 |                  |
| 3.4 (96)                    | ±3.5% at 100°C            | 2                             | 10                           | 17.7" x 20" x 17"<br>(45 x 50.5 x 43 cm)     | 23.2" x 32" x 25.5"<br>(59 x 81 x 65 cm)        | 120   | 60    | 1400  | ML-52411-04 | ML-52411-38      |
|                             |                           |                               |                              |                                              |                                                 | 220   | 50/60 |       | ML-52411-05 |                  |
| 5 (140)                     | ±3.5% at 100°C            | 2                             | 11                           | 20.5" x 22.6" x 19.7"<br>(52 x 57.5 x 50 cm) | 26" x 34.6" x 28.3"<br>(66 x 88 x 72 cm)        | 120   | 60    | 2000  | ML-52411-06 | ML-52411-39      |
|                             |                           |                               |                              |                                              |                                                 | 220   | 50/60 |       | ML-52411-07 |                  |
| 7 (200)                     | ±4% at 100°C              | 2                             | 13                           | 22.4" x 25" x 22"<br>(57 x 64 x 56 cm)       | 28" x 37.2" x 30.7"<br>(71 x 94.5 x 78 cm)      | 220   | 50/60 | 2200  | ML-52411-08 | ML-52411-40      |
| Mechanical convection ovens |                           |                               |                              |                                              |                                                 |       |       |       |             |                  |
| 0.56 (16)                   | ±1.5% at 100°C            | 2                             | 4                            | 9.8" x 9.8" x 10"<br>(25 x 25 x 26 cm)       | 20.8" x 16.3" x 14.8"<br>(53 x 41.5 x 37.6 cm)  | 120   | 60    | 600   | ML-52411-09 | ML-52411-41      |
|                             |                           |                               |                              |                                              |                                                 | 220   | 50/60 |       | ML-52411-10 |                  |
| 1 (30)                      | ±2% at 100°C              | 2                             | 5                            | 13" x 12.5" x 12.5"<br>(34 x 32 x 32 cm)     | 24.5" x 20" x 17.75"<br>(62.2 x 50.5 x 45.1 cm) | 120   | 60    | 850   | ML-52411-11 | ML-52411-42      |
|                             |                           |                               |                              |                                              |                                                 | 220   | 50/60 |       | ML-52411-12 |                  |
| 1.7 (50)                    | ±2.5% at 100°C            | 2                             | 6                            | 16.5" x 13.8" x 15.5"<br>(42 x 35 x 39.5 cm) | 27.5" x 21" x 20.8"<br>(70 x 53.5 x 53 cm)      | 120   | 60    | 1100  | ML-52411-13 | ML-52411-43      |
|                             |                           |                               |                              |                                              |                                                 | 220   | 50/60 |       | ML-52411-14 |                  |
| 2.8 (80)                    | ±3% at 100°C              | 2                             | 7                            | 17.7" x 17.7" x 15.75"<br>(45 x 45 x 40 cm)  | 29" x 24.2" x 20.5"<br>(73.6 x 61.5 x 52.2 cm)  | 120   | 60    | 1550  | ML-52411-15 | ML-52411-44      |
|                             |                           |                               |                              |                                              |                                                 | 220   | 50/60 |       | ML-52411-16 |                  |
| 4.8 (136)                   | ±3% at 100°C              | 2                             | 10                           | 21.6" x 21.6" x 17.7"<br>(55 x 55 x 45 cm)   | 32.75" x 28" x 22.8"<br>(83.2 x 71.5 x 58.1 cm) | 120   | 60    | 2050  | ML-52411-17 | ML-52411-45      |
|                             |                           |                               |                              |                                              |                                                 | 220   | 50/60 |       | ML-52411-18 |                  |
| 7.8 (220)                   | ±3% at 100°C              | 2                             | 14                           | 23.6" x 29.5" x 19.6"<br>(60 x 75 x 50 cm)   | 34.6" x 36" x 24.8"<br>(88 x 91.5 x 63 cm)      | 220   | 50/60 | 2450  | ML-52411-19 | ML-52411-46      |
| 14 (400)                    | ±3.5% at 100°C            | 3                             | 12                           | 39.4" x 31.5" x 20"<br>(100 x 80 x 51 cm)    | 50.5" x 41.7" x 29.5"<br>(128.5 x 106 x 75 cm)  | 220   | 50/60 | 3100  | ML-52411-20 | ML-52411-47      |
| 22 (620)                    | ±4% at 100°C              | 4                             | 12                           | 33" x 53.3" x 23.6"<br>(84 x 135.5 x 60 cm)  | 38.5" x 74" x 31.5"<br>(98 x 188 x 80 cm)       | 220   | 50/60 | 4000  | ML-52411-21 | ML-52411-48      |



По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижегород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37  
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Саранск (8342)22-96-24  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97  
Тверь (4822)63-31-35

Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Улан-Удэ (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: [cen@nt-rt.ru](mailto:cen@nt-rt.ru) || сайт: <http://coleparmer.nt-rt.ru/>