

Fisher Scientific

Isotemp General Purpose  
Heating and Drying Ovens



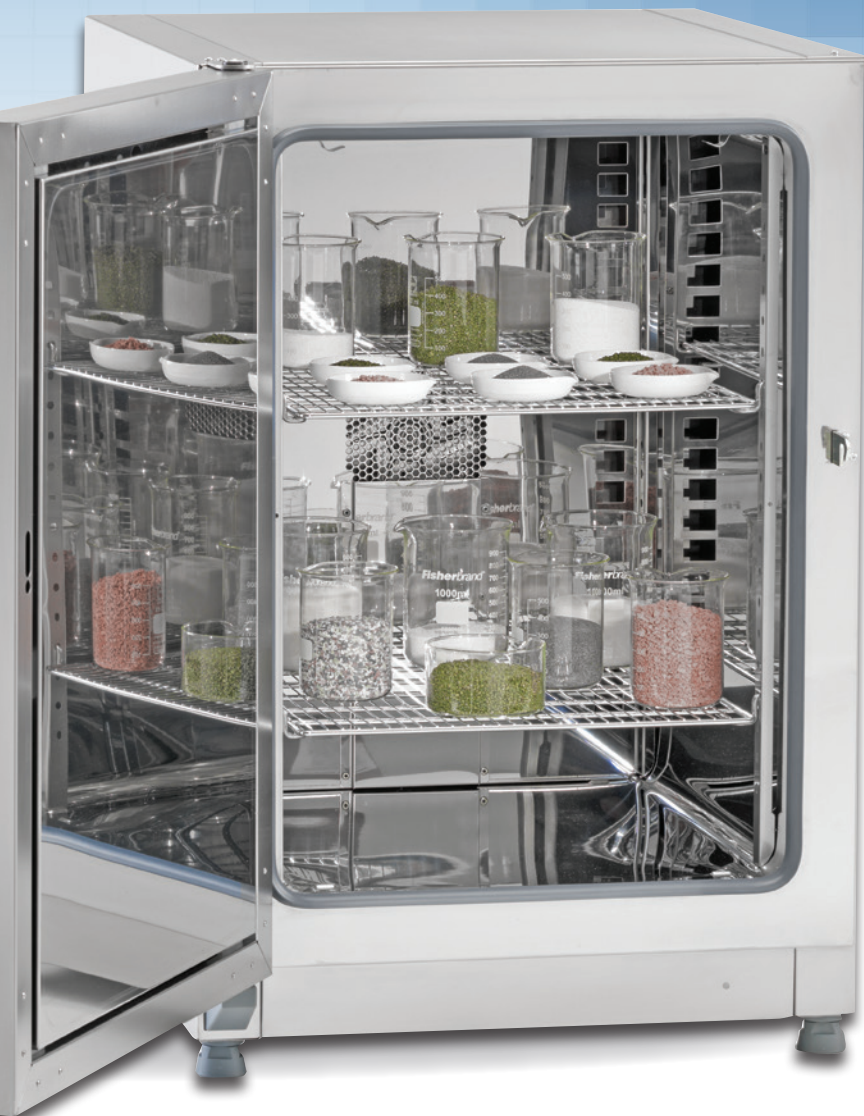
Isotemp

# Fisher Scientific Isotemp Heating and Drying Ovens

*Find the right oven for your application needs*

## Fisher Scientific General Purpose Heating and Drying Ovens

*Fisher Scientific offers a wide range of general purpose heating and drying ovens to meet your specific oven requirements. From heating and drying samples to drying glassware, Fisher Scientific can help you find the right oven for your application needs.*



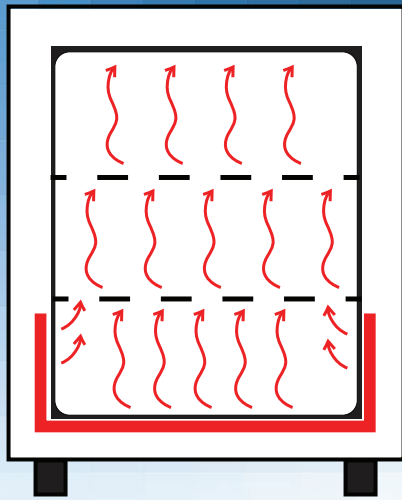
### **Fisher Scientific Isotemp ovens include:**

- » Gravity convection bench top models
- » Mechanical convection (forced air) bench top models



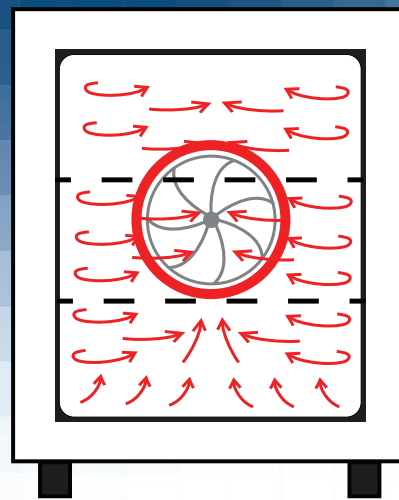
## Choose the airflow technology that provides an optimal environment for your application

Airflow technology can impact the results desired in your general purpose oven.



### **Gravity Convection Ovens**

In a gravity convection oven, the temperature distribution is based on warm air moving upwards since heat rises. There is no fan that actively distributes the air inside the chamber. The benefit of this gentle airflow is that delicate samples, such as fine sediment, powders or foils stay intact and will not blow around in the chamber. Gravity convection is also ideal when baking a sample.



### **Mechanical Convection (Forced Air) Ovens**

In a mechanical convection (or forced air) oven a primary fan actively moves the air inside the chamber, which results in an even temperature distribution. The benefit is optimal temperature uniformity for reproducible results, as well as fast sample drying or heating and a quick recovery time after the door has been opened. Mechanical convection is most often used when the heating process requires precise temperature control or the samples are not extremely delicate. Mechanical convection is also ideal for drying glassware or other instruments.

# Fisher Scientific Isotemp Heating and Drying Ovens

*Consistent, reliable results*



Stainless steel exterior provides a clean professional look in your lab with a surface that avoids fingerprint smudges

» Large easy-to-view fluorescent display with intuitive microprocessor controller



» Flexible shelving system with different positions to optimize chamber space

» Easy-to-clean rounded interior edges



» Mechanical convection fan circulates air inside chamber

## Common applications

- » Sample drying
- » Glassware drying
- » Baking
- » Dry sterilization
- » Aging tests
- » Processing electronics

## Key features of Fisher Scientific Isotemp heating and drying ovens:

- » Outstanding temperature uniformity and stability to keep samples at desired condition
- » Wide temperature range: 50 °C – 250 °C
- » Intuitive and easy-to-use microprocessor controller
- » Large, easy-to-read fluorescent display
- » Automatic over temperature alarm
- » On/Off timer for automated operation
- » Easy calibration routine ensures temperature compliance over time
- » Corrosion resistant stainless steel interior (1.4016 / AISI 430) with smooth corners for easy cleaning
- » Manual controlled fresh air damper to adjust air exchange
- » Doors can open to over 180° degrees for optimal access
- » Flexible shelving system with different positions to optimize chamber space
- » Outstanding footprint/volume ratio reduces required bench space
- » Stackable same-size-units, with optional heat shield, without the need for tools
- » Stainless steel exterior provides a clean, professional look for your lab and the surface is structured to avoid showing fingerprints
- » Two year warranty on parts and labor
- » cCSAus certified

# Fisher Scientific Isotemp Heating and Drying Ovens

Product specifications



## Product Specifications

Cat No	151030503	151030508	151030509	151030510	151030511	151030512
Chamber Size L/CUFT	65 / 2.3	105 / 3.75	176 / 6.2	66 / 2.3	104 / 3.65	179 / 6.3
Convection	Gravity	Gravity	Gravity	Forced Air	Forced Air	Forced Air
Temperature Range	50 to 250 °C	50 to 250 °C	50 to 250 °C	50 to 250 °C	50 to 250 °C	50 to 250 °C
Uniformity at 150 °C	± 4 °C	± 4.5 °C	± 5 °C	± 3.3 °C	± 3.5 °C	± 3.5 °C
Stability at 150 °C	± 0.4 °C	± 0.4 °C	± 0.4 °C	± 0.3 °C	± 0.4 °C	± 0.3 °C
Internal Dimensions (D x W x H) mm / in	414 x 328 x 480 / 16.3 x 12.9 x 18.9	414 x 438 x 580 / 16.3 x 17.2 x 22.8	589 x 438 x 680 / 23.2 x 17.2 x 26.8	368 x 354 x 508 / 14.5 x 13.9 x 20	368 x 464 x 608 / 14.5 x 18.3 x 23.9	543 x 464 x 708 / 21.4 x 18.3 x 27.9
External Dimensions <sup>1</sup> (D x W x H) mm / in	565 x 530 x 720 / 22.2 x 20.9 x 28.3	565 x 640 x 820 / 22.2 x 25.2 x 32.3	738 x 640 x 920 / 29.1 x 25.2 x 36.2	565 x 530 x 720 / 22.2 x 20.9 x 28.3	565 x 640 x 820 / 22.2 x 25.2 x 32.3	738 x 640 x 920 / 29.1 x 25.2 x 36.2
Shelves Supplied / Max	2 / 13	2 / 16	2 / 19	2 / 13	2 / 16	2 / 19
Shelf Load, kg / lbs	25 / 55	25 / 55	25 / 55	25 / 55	25 / 55	25 / 55
<b>Wire Shelf Part No</b>	<b>150145849</b>	<b>150145850</b>	<b>150145851</b>	<b>150145846</b>	<b>150145847</b>	<b>150145848</b>
Wire Shelf Dimensions (W x D) mm / in	312 x 386 mm / 12.28 x 15.20 in	422 x 386 mm / 16.61 x 15.20 in	422 x 561 mm / 16.61 x 22.07 in	338 x 336 mm / 13.31 x 13.22 in	338 x 336 mm / 13.31 x 13.22 in	448 x 511 mm / 17.64 x 20.12 in
<b>Perforated Stainless Steel Shelf Part No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>150145855</b>	<b>150145856</b>	<b>150145857</b>
Perforated Stainless Steel Shelf Dimensions (W x D) mm / in	N/A	N/A	N/A	329 x 330 mm / 12.95 x 12.99 in	439 x 330 mm / 17.28 x 12.99 in	439 x 505 mm / 17.28 x 19.88 in
Electrical/ Plug Type	120V; 60Hz; 1730w; 14.4A Nema 5-15 US	120V; 60Hz; 1680w; 14A Nema 5-15 US	120V; 60Hz; 1680w; 14A Nema 5-15 US	120V; 60Hz; 1440w; 12A Nema 5-15 US	120V; 60Hz; 1660w; 13.8A Nema 5-15 US	120V; 60Hz; 1660w; 13.8A Nema 5-15 US
Energy Consumption at 150 °C	194W	261W	320W	316W	410W	465W
Unit Weight, kg / lbs	42 / 93	53 / 117	66 / 146	42 / 93	53 / 117	66 / 146

<sup>1</sup> Depth of handle / display not included in depth (65 mm / 2.6 in.); adjustable feet not included in height (35 mm / 1.4 in.)

– required distance to rear wall: 80 mm / 3.1 in.

Note: All figures in table are typical average values for series devices, based on factory standard following norm DIN12880.

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