

Drying Ovens



Model : YR0171-1

Drying Ovens

Manufacturer : Kalstein

Price : \$ 1,873.15

Description :

Uniform drying and heating temperatures are a very important part of your laboratory performance. It is fundamental to have the ideal laboratory oven in order to perform routine applications with success. We can provide you with the highest technology available for laboratory ovens in industries such as healthcare and biology researches. They are common in scientific investigation and manufacturing industries. When choosing an oven, consider applications, dimension, capacity and lab budget. Look for features that guarantee maximum sample and user protection.

Drying oven function

The way a laboratory oven works is by the principle of convection. This means that the heating element is not located in the oven chamber with the specimen, it is located in a separate external envelope. This way, heat will not affect the sample because it will be located in the oven walls being this enough for heating or dehydrating a specimen. This method provides the needed uniform heat distribution. There are many different types of drying ovens for different needs. Gravity convection or forced air convection drying ovens provide a greater degree of evenness, control of temperature, rapid drying capabilities, and many newer models are programmable.

Drying oven for laboratory

This oven type has a microprocessor controller with a timing function and among its applications, you can find desiccation, torrefaction, wax melting and sterilization in mining enterprises as well as laboratories and scientific research institutes. This is a polished stainless-steel chamber-drying oven with the latest PID controller. In addition, it uniformly distributes the air temperature. This model runs with a forced-air convection and has a double layer glass door with a larger viewing window. Another great feature is that its independent temperature-limiting alarm system ensures that experiments run safely. There is another optional feature such as an RS485 connector that can be connected to the computer to record the parameters and temperature variations.

Drying oven temperature controller

Definitely drying is a very delicate process inside any laboratory, you need to be aware of the temperature setting and the drying time. Some of the drying oven's applications are the evaporation of samples, sterilization of

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laboratory ware, temperature testing, and incubating temperature sensitive experiments. One of the drying oven's great advantages is that they offer uniform drying, but you have to be careful of drying samples too fast or too slow, because that can ruin your samples or in worse cases your entire research. Drying ovens with a maximum temperature of 250C, 300C and 350C are available. In addition, drying ovens are also available in a wide range of sizes.

Features of the Drying Ovens

- Microprocessor controller (with timing function)
- Provided for desiccation, torrefaction, wax-melting and sterilization in mining enterprises, laboratories and scientific research institutes
- Polished stainless-steel chamber
- Latest PID controller
- Uniform distribution of air temperature
- Forced-air convection
- Double Layer glass door, larger viewing window.
- Independent temperature-limiting alarm system ensures experiments run safely. (option)
- RS485 connector is option which can connect computer to record the parameters and the variations of temperature. (Option)

Parameters by Model

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Drying oven								
Model:	YR0171-1	YR0171-2	YR0171-3	YR0171-4	YR0171-5	YR0171-7	YR0171-8	YR0171-9
Electrical Requirement:	220V 50HZ		220V 50HZ			380V 50Hz		
Temperature Range:	RT+10~200°C/RT+10°C~250°C							
Display Resolution:	0.1°C							
Temperature Stability:	±1°C							
Ambient Temperature:	+5~40°C							
Power Consumption:	850W	850W	1550W	2050W	2450W	3100W	4000W	5200W
Chamber Volume:	30L	50L	80L	136L	220L	420L	620L	1000L
Interior Dimension (W×D×H, mm):	340×320×320	420×395×350	450×400×450	550×450×550	600×500×750	640×585×1355	840×600×1355	1000×600×1600
Exterior Dimension (W×D×H, mm):	620×440×490	720×530×520	740×530×630	840×580×730	880×630×930	760×730×1780	980×800×1880	1140×800×2150
Shelves:	2(pcs)	2(pcs)	2(pcs)	2(pcs)	2(pcs)	3(pcs)	4(pcs)	4(pcs)
Timing range:	1~5999min				1~5999min			

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Drying oven								
Model:	YR0171-1(A)	YR0171-3(A)	YR0171-4(A)	YR0171-5(A)	YR0171-6(A)	YR0171-7(A)	YR0171-8(A)	YR0171-9(A)
Electrical Requirement:	220V 50HZ			220V 50HZ			380V 50HZ	
Temperature Range:	RT+10~300°C							
Display Resolution:	0.1°C							
Temperature Stability:	±1°C							
Ambient Temperature:	+5~40°C							
Power Consumption:	850W	850W	1100W	1550W	2050W	2450W	3100W	4000W
Chamber Volume:	16L	30L	50L	80L	136L	220L	420L	620L
Interior Dimension (W×D×H, mm):	250x260x250	340x320x320	420x395x350	450x400x450	550x450x550	600x500x750	640x585x1355	840x600x1355
Exterior Dimension (W×D×H, mm):	530x370x420	620x440x490	720x530x520	740x530x630	840x580x730	880x630x930	780x730x1780	980x800x1880
Shelves:	2(pcs)	2(pcs)	2(pcs)	2(pcs)	2(pcs)	2(pcs)	3(pcs)	4(pcs)
Timing range:	1~5999min				1~5999min			

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Options available for Drying Ovens :

Capacity (Liters)

(YR0171-1) 30L,
(YR0171-1AB) 30L (-\$ 324.10),
(YR0171-2) 50L (+\$ 347.76),
(YR0171-2AB) 80L (+\$ 129.65),
(YR0171-3) 80L (+\$ 712.95),
(YR0171-3A) 30L Stainless Steel (+\$ 388.85),
(YR0171-4) 136L (+\$ 1,555.55),
(YR0171-3AB) 136L (+\$ 843.60),
(YR0171-7) 420L (+\$ 8,432.40),
(YR0171-4AB) 220L (+\$ 1,490.75),
(YR0171-8) 620L (+\$ 9,728.70),
(YR0171-5A) 80L Stainless Steel (+\$ 1,037.05),
(YR0171-9) 1000L (+\$ 17,506.50),
(YR0171-7A) 220L Stainless Steel (+\$ 2,657.40),
(YR0171-9A) 620L Stainless Steel (+\$ 10,376.85),
(YR0171-8A) 420L Stainless Steel (+\$ 9,080.55),
(YR0171-4A) 40L Stainless Steel (+\$ 648.15),
(YR0171-6A) 136L Stainless Steel (+\$ 1,814.80),
(YR0171-1A) 16L Stainless Steel (-\$ 64.80).