

## Hot Air Circulating Oven

Product Name	Hot air circulating oven (single door, single cart)		
Model/Specification	AST-C-0 type	Remark	
Scope of Supply	Complete machine		
Main Technical Parameters	<p>External dimensions: 1360mm (W) × 1200mm (D) × 2000mm (H)</p> <p>Studio dimensions: 760x900x1450mm</p> <p>Temperature range: Normal temperature ~ 120°C</p> <p>Heating method: Electric heating</p> <p>Heating power: 15KW</p> <p>Axial flow fan: 0.75Kw</p> <p>Matching drying cart: 1 vehicle</p> <p>Includes a baking tray: 460×640×45mm (24 trays)</p>		
Performance and Features	<p>Hot air circulating ovens are widely used in the pharmaceutical, chemical, food, agricultural and sideline product, aquatic product, and light industry sectors for heating, curing, drying, and dehydration. They are suitable for drying and sterilizing raw materials, Chinese medicinal herbs, prepared slices of Chinese medicinal herbs, extracts, powders, granules, powdered drinks, dehydrated vegetables, utensils, ampoules, vials, and oral liquid bottles.</p> <p>Hot air circulating ovens are equipped with low-noise axial flow fans and automatic temperature control systems. The entire circulation system is fully enclosed, resulting in high thermal</p>		

	<p>efficiency and energy savings. Under forced hot air circulation, materials dry evenly. The heating source can be steam or electric, or a combination of both. The machine operates with low noise and stable performance. Temperature is automatically controlled, installation and maintenance are convenient, and its wide applicability makes it a versatile drying equipment suitable for drying various materials.</p>
<p>Production Technical Requirements</p>	<ol style="list-style-type: none"> <li>1. The oven shell is made of 3042B <math>\delta</math> 1.2mm matte coated stainless steel plate, riveted and welded, with a smooth surface free of scratches and weld marks, achieving a flatness of 3/1000mm.</li> <li>2. The oven inner arms are made of 3042B <math>\delta</math> 1.2mm stainless steel plate, argon arc welded and then ground and polished. The four corners of the interior are uniformly rounded, eliminating dead corners, facilitating cleaning, and resulting in a smooth, flat surface.</li> <li>3. The oven insulation layer is filled with high-quality aluminum silicate fiber cotton, providing excellent insulation performance. The surface temperature must not exceed the ambient temperature by 10°C.</li> <li>4. The internal convection walls are louvered, and the ventilation gaps in the convection walls ensure uniform temperature within the oven. The no-load temperature uniformity is <math>\pm 3^\circ\text{C}</math>.</li> <li>5. The oven uses electric heating, employing heating elements located within the top air duct.</li> </ol>

6. The top of the oven is equipped with one exhaust vent and one supplementary air inlet.

7. The drying oven is equipped with one drying cart, which is made of  $30 \times 30 \times \delta 1.5\text{mm}$  304 stainless steel square tubing and  $\delta 1.5\text{mm}$  304 stainless steel plate.

8. The control panel of the drying oven is located on the right side of the oven body.

## AST-C-0 Cleanroom Hot Air Circulating Oven Configuration

Serial Number	Name	Model and Specifications	Quantity
1	Enclosure Outer Shell	304 $\delta 1.2\text{mm}$	
2	Inner Wall of Enclosure	304 $\delta 1.2\text{mm}$	1 set
3	Air Duct and Convection Wall	304 $\delta 1.0\text{mm}$	1 set
4	Drying Trolley	304 $30 \times 30 \times 1.5$ stainless steel square tube	1 set
	Drying Tray	304 $\delta 1.5\text{mm}$	1 vehicle
5	Insulation Material	304 $460 \times 640 \times 45\text{mm}$	
6	Sealing Material	Aluminosilicate fiber cotton	24 pieces

7	Electric Heating Element	Food-grade high-temperature resistant silicone rubber	150kg
8	AC Contactor	U-shaped heating element 3kW/set	10kg
8	Thermal Overload	3TB40/220V	3 sets
9	High Breaking Capacity Circuit Breaker	3UA5P/380V 1.6-2.5A	4 pieces
10	Push-Button Switch	4P 63A	2 pieces
11	Indicator Light	LY3	1 piece
12	Name	AD16	1 set

