

Technical Specification for Industrial Dryiing Oven



Model: KOV-2000B

Manufacturer: KOMEG Technology Ind Co.,Limited



I .Product Overview

Able to accurately simulate a wide range of complicated natural environments, and is suitable for reliability test in industrial products. Meet GB5170.2.3.5.6-95 standard requirements of environmental testing equipment and test methods for the basic parameters of electric and electronic products under the condition of humidity, low temperature, high temperature, and constant heat.

II . Application

Applicable to environmental adaptability and reliability test in such industrial units as electronics, electrical appliance, battery, plastics, food, paper product, vehicle, metal, chemistry, building material, research institution, inspection and quarantine bureau, university etc..

Ⅲ.Features

- GB-2423. 2-89(IEC68-2-2)Test B: High Temperature Test
- GJB360. 8-87(MIL-STD. 202F) High Temperature Life Test
- GBJI50. 3(MIL-STD-810D) High Temperature Test

1.Easy Operation	※Japan Fuji PXR9 of temperature controller ※Flexible approach for data collection and recording ※A variety of control functions ※Front panel IP66 waterproof structure, three-key menu operation; ※Standard screw connection without socket; ※The longitudinal size is shorter than PXW; ※UL/CSA/CE certification; ※Measured value big red LED display; ※A variety of control functions: simple ON/OFF control, PID automatic adjustment control, fuzzy and PID with the dynamic adjusting control, PID adaptive control adjustment;	
2.High reliability	*Key parts are imported, ensuring the service life and high reliability	

IV. Main Technical Parameters

1. Chamber 1.1 Workspace volume W 2000 × H 1000 × D1000 mm 1.2 Exterior size W2360 × H 1760 × D1260 mm 2.Temperature: +50°C ~ 250°C 2.3 Temp fluctuation ± 1 °C



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2.4 Temp Uniform	ity $\pm 2.0^{\circ} \text{C}(50 \sim 100^{\circ} \text{C}) \\ \pm 3.0^{\circ} \text{C}(101 \sim 250^{\circ} \text{C})$				
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2.5 Control precisi					
2.6 Heat up rate	1.0~5.0°C/min(adjustable)				
V. Chamber Struc	V. Chamber Structure				
Overall structure a	nd chamber was composed of three parts as below.				
Insulation box, sep	Insulation box, separate refrigeration units, and electrical control cabinet.				
	💥 wall material: high-quality carbon steel with static color spray				
1.Insulation box	※ inner wall material: SUS304 # matte stainless steel plate → 1. ★ inner wall material: SUS304 # matte stainless steel plate				
	※ Insulation materials: Rigid polyurethane foam insulation layer + glass fiber.				
2.Door	Heating wire was installed at the door frames to prevent condensation at low temperatures.				
3.Sample holder	Two layers of stainless steel sample holder, bearing (uniform) 50 kg/layer.				
4.Mobile Casters	Mobile Casters *4 (with foot cups)				
5.Electric control	Total power circuit breaker, over-temperature protection.				
box					
VI. Air-conditionir	ng system				
1. Control mode	Forced ventilation loops design, balance temperature & humidity control system				
	(BTHC).				
2.Air supply mode	Forced air circulation				
Ⅶ、Control Syste	m				
1.Controller					
2.Control mode	PID+SSR output				
3.Timer	Control appliance timer function				
4.Electric Control box					



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	Parts	Brand	Remarks		
	Controller	FUJI	FUJI temperature controller PXR9		
	Wire protection switch	Schneider	Schneider Electric		
	AC contactor	Fuji, Schneider	写主电机 Schneider Paul Electric Schneider		
	Thermal relay	Schneider	Schneider Electric		
5.Parts and its Brand	phase sequence relay	Fuji ,CROUZET	Fuji Electric Crouzet		
	Time Relay	Panasonic	Panasonic ideas for life		
	AC contactor	Schneider	Schneider		
	Solid State Relays	Carlo Gavazzi	Side Cools Code		
	Temperature fuse	EMERSON brand MICROTEMP			
	Note: Two options listed is for alternate choice and backup purpose				
	3.1 Lab.				
	XAdjustable over temperature protection - 1 over temperature				
	protection way1;				
	※Test room temperature fuse - over temperature protection way 2;				
	※Air conditioning channel - over temperature limit over temperature				
	protection way 3;				
6.Protection			mperature shutdown alarm - over		
System	-	erature protection wa	y 4;		
		notor overheating;			
	:X:Moto :X:buzze	or overload protector;			
	3.2 Others				



	KM-QP-20161122
IX Installation	**XThe total power phase sequence and the lack of protection; **Wearth leakage protection; **Load short circuit protection. **AC380V±10%, 50Hz±1Hz,3 phase 4 wires +Ground Wires **Power cable is connected to the air switch in control box
1.Power	**Total Power ~8 kW, 10A; **Voltage permitted: AC (1±10%) 380V **Frequency permitted: (1±1%) 50Hz **Resistance of ground wire less than 4Ω **Total Power supply **Must be equipped with an independent and private air or power switch used by this device only. N S T
2.Surrounding environment	5 ~ 35°C, humidity≤85%R.H
3.Air quality	No high concentrations of dust or corrosive gases
4.Installation environment	



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	dust		
	※No strong electromagnetic radiation nearby		
	stWith floor drain (less than 2 meters from the refrigeration unit)		
	※venue floor load capacity: not less than 800 kg/m²		
	※leave adequate space for maintenance		
5. Ground wire	Grounding resistance less than 4Ω , grounding bolts located at the base of the cabinet.		
6. Drainage	Drain hole installed at the base of the housing		
7. Cable port	φ50, φ80, φ100, φ120mm cable port, location and number can be customized according to user requirements if chamber body structure allows.		
8.Equipment	\divideontimes When the device does not work, the ambient temperature should be maintained within 0 $^{\sim}$ 45 $^{\circ}$ C		
storage	$lpha$ When the ambient temperature is below ${ m WC}$, the water remaining in the		
	device should be drained to avoid water pipes freezing and broken		
X.Technical Docu	X.Technical Documentation		
1.Technical Documentation			