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info@sunyinstrument.com, www.sunyinstrument.com

1.up 3/down 0 Reflow Oven PCB width 300mm

Order ID:SUNY-SMT330

Specifications		SUNY-SMT330
Heating Parameter	Heating Zone	Up 3/ Down 0
	Heating Zone Length	1000mm
	Cooling Zone Quantity	Two
Conveyor Parameter	Max Width Of PCB	Mesh Type 300mm
	Conveyor Direction	L→R(R→L.Option)
	Conveyor Rail Fixed	Front
	Conveyor Height	Chain550±20mm
	Conveyor Type	Mesh
	Conveyor Speed	0-1500mm/Min（Taiwan Zd 60w 1:150）
Controling Parameter	Power Supply	3 Phase 380v(220v Option)
	Start-Up Power	5kw

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	Normal Power	Approx.1.5kw
	Heat-Up Time	About 20 Minutes
	Control Fashion	PID Control(Japan RKC Temp. Control Meter)
	Range Of Temp. Control	Room Temperature-310℃
	Temp. Control	RKC Module
	Temp. Control Accuracy	±2℃
	PCB Temp. Deviation	± 2℃
	Abnormal alam	Temperature Abnormity
Unit Parameter	Weight	Approx80kg
	Dimension(mm) L×W×H	L1450×W612×H650

2.Reflow Oven PCB width 300mm

Order ID:SUNY-SMT530/SUNY-SMT430

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Specifications		SUNY-SMT530	SUNY-SMT430
Heating Parameter	Heating Zone	Up 3/ Down 2	Up 3/ Down 1
	Heating Zone Length	1000mm	1000mm
	Cooling Zone Quantity	Two	
Conveyor Parameter	Max Width Of PCB	Mesh Type 300mm	
	Conveyor Direction	L→R (R→L.Option)	
	Conveyor Rail Fixed	Front	
	Conveyor Height	Chain 800±20mm	
	Conveyor Type	Mesh	
	Conveyor Speed	0-1800mm/Min（Taiwan Zd 60w 1:150）	
Controling Parameter	Power Supply	3 Phase 380v(220v Option)	
	Start-Up Power	8KW	7KW
	Normal Power	Approx.2.5KW	Approx.2KW
	Heat-Up Time	About 20 Minutes	
	Control Fashion	PID Control(Japan RKC Temp. Control Meter)	
	Range Of Temp. Control	Room Temperature-310℃	
	Temp. Control	RKC Module	
	Temp. Control Accuracy	±2℃	
	PCB Temp. Deviation	± 2℃	
	Abnormal alam	Temperature Abnormity	
Unit Parameter	Weight	Approx180kg	Approx180kg
	Dimension(mm)L×W×H	L2000×W612×H1220	L2000×W612×H1220

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3.Reflow Oven PCB width 300mm

Order ID:SUNY-SMT630/SUNY-SMT830

Specifications		SUNY-SMT830	SUNY-SMT630
Heating Parameter	Heating Zone	Up 4/ Down 4	Up 4/ Down 2
	Heating Zone Length	1400mm	1400mm
	Cooling Zone Quantity	Two	
Conveyor Parameter	Max Width Of PCB	Mesh Type 300mm	
	Conveyor Direction	L→R (R→L Option)	
	Conveyor Rail Fixed	Front	
	Conveyor Height	Chain 800±20mm	
	Conveyor Type	Mesh	
	Conveyor Speed	0-1800mm/Min（Taiwan Zd 60w 1:150）	
Controling Parameter	Power Supply	3 Phase 380v (220v Option)	
	Start-Up Power	10KW	10KW

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	Normal Power	Approx.3.5KW	Approx.3KW
	Heat-Up Time	About 20 Minutes	
	Control Fashion	PID Control(Japan RKC Temp. Control Meter)	
	Range Of Temp. Control	Room Temperature-310℃	
	Temp. Control	Rkc Module	
	Temp. Control Accuracy	±2℃	
	PCB Temp. Deviation	± 2℃	
	Abnormal Alam	Temperature Abnormity	
Unit Parameter	Weight	Approx200KG	Approx200KG
	Dimension(mm)	L2500×W612×H1220	L2500×W612×H1220

4.Automatic Standard Lead-Free Reflow Oven PCB width 450mm

Order ID:SUNY-5500LF-C/660LF-C/7700LF-C/8800LF-C

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Specifications		SUNY-5500LF-C	SUNY-6600LF-C	SUNY-7700LF-C	SUNY-8800LF-C
Heating Parameter	Heating Zone	Up 5/ Down 5	Up 6/ Down 6	Up 7/ Down 7	Up 8/ Down 8
	Heating Zone Length	2000mm	2380mm	2760mm	3140mm
	Cooling Zone Quantity	Two (Ensure 800mm Length Cooling)			
Conveyor Parameter	Max Width Of PCB	Mesh Type 450mm （Or Rail-Type 320mm Option ）			
	Conveyor Direcion	L→R (R→L.Option)			
	Conveyor Rail Fixed	Front			
	Conveyor Height	Chain 880±20mm			
	Conveyor Type	Mesh			
	Conveyor Speed	0-2000mm/Min			
Controling Parameter	Power Supply	3 Phase 380v			
	Start-Up Power	20KW	24KW	28KW	32KW
	Normal Power	Approx.3.5KW	Approx.4KW	Approx.4.5KW	Approx.5KW
	Heat-Up Time	About 20 Minutes			
	Control Fashion	Lenovo Computer + Mitsubishi PLC			
	Range Of Temp. Control	Room Temperature-380℃			
	Temp. Control	Mitsubishi Plc Module			
	Temp. Control Accuracy	±2℃			
	Pcb Temp. Deviation	± 1℃			
	Abnormal Alam	Temperature Abnormity			
Unit Parameter	Weight	600KG	800KG	1000KG	1200KG
	Dimension(mm)	3800*1200*1500	4200*1200*1500	4600*1200*1500	5000*1200*1500

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5.Automatic Super Lead-Free Reflow Oven PCB width 500mm or 550mm

Order ID:SUNY-8800/SUNY-1010

Specification

1.Hot Air System

* with full-range microcirculation hot air system and pressurized type multi-point blast technology adopted,the equal temperature in the furnace is ensured,excellent synthetic conduction in each temperature zone is achieved,no heating empty area caused by refraction when the board surface is heated,no shade occurs and the horizontal temperature change of the pcb board is less than +2℃.
* basically,heating efficiency is heightened.with fast and efficient heat compensation performance and the difference between the actual temperature and set temperature of the pcb in the soldering area less than 30℃,this system is extremely applicable for the perfect soldering between such components as bga,csp,qfp and so on and multi-layer circuit boards.no temperature interference occurs between adjacent temperature zones.
* upper and lower independent heating modules,independent heat air circulation and double soldering areas or three soldering areas are set.
* because each temperature zone adopts module design,it is very easy to maintain and repair the high-temperature long-shaft heat air motor and the high-efficient nicket-chromium heating thread.

2.Transportation System

* it is symmetrical double-guide-rail structure that cannot be distorted at high temperature and has small thermal inertia.with standard chain and net chain in phase equipped,you can choose double-guide-rail transportation system or the central supporting system.
* four-rack coaxial width adjusting structure is adopted for width adjustment so as to ensure the balance of the guide rail and prevent the board from falling andblocking.this structure needs no cleaning and is easy to adjust.with this structure,width adjustment is smooth and can be achieved automatically or manually.
* computer is employed to control the fuelling system,which can fuel the machine with adjustable amount according to the transportation speed and the status of the machine.

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* the automatic width adjustment system adopts closed loop pid control.it can adjust to the desired width automatically according to the parameters input by the computer.

3.Cooling System And Soldering Flux Collection System

* the compulsory cooling system adopts 2-section or 3-section compulsory air circulation cooling temperature zone so as to meet the requirements of lead-free production;the cooling curve smooth without sharp variation,heat change is complete and maximal cooling speed can reach -5℃/s.
* the air furnace is equipped with standard high-power air conditioner while the nitrogen furnace is equipped with standard high-power cold water machine so as to ensure the eutectic effect of the soldering point.
* the soldering flux collection system can keep the hearth clean for a long time and the exhaust more environment-protective.the gas separated by the nitrogen furnace can be recycled so as to save nitrogen.
* no filter core is designed,so it is very easy to clean.

4.Nitrogen System(Option)

* it is a full-range fully-sealed nitrogen protection system that consumes small amount of nitrogen,at 15-20m3/h.the soldering area can have oxygen density less than 500ppm.
* there is an inner cycling cooling system set,which can ensure the cycle of nitrogen and decrease nitrogen consumption.
* thanks to the panel type design for nitrogen flow control and oxygen analysis system,it is easy to view and adjust.

5.Control System

* the control system adopts germany HARUTA plc and the upper computer adopts dell computer with official windows xp operation system and 15-inch lcd display;therefore,it is stable and reliable.
* the control software has powerful function,flexible technical parameter control and temperature curve test function;with the chinese-english operation interface,it can be switched at any time.
* it adopts wogo connection terminal;all electric components are imported and all signal cables undergo screening treatment.
* the temperature module can regulate itself and cooling terminal can conduct compensation automatically;temperature is controlled with ±1℃;and the temperature control system of temperature module + temperature control meter can be chosen.
* computer and touch screen dual screen control system is available;the two systems are independent and can be switched in real time,(optional)

Specifications		SUNY-8800	SUNY-1010
Heating Parameter	Heating Zone	Up 8 / down 8	Up 10 / down 10
	Heating Zone Lengh	3120mmmm	3900mm
	Cooling Zone Quantity	2 cooling zones	
Conveyor Parameter	Max Width Of PCB	Mesh type 500mm + guide rail 420mm or Mesh type 610mm + guide rail 550mm option	