

Production Specification

Machine name	Cooler CCL-7
Model No	CCL-7

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1. Summary

No		
(1)	Machine name	Cooler CCL-7
(2)	Quantity	1set
(3)	Date of delivery	4.5 months after P/O
(4)	Place of delivery	Your Designated Place
(5)	Outline	<p>CCL is a cooling device the substrate after dry film lamination in short time.</p> <p>The substrate is efficiently cooling by the clean high velocity air from a facing nozzle.</p>

2. Machine structure, specification

No	Item		Standard	Remark
(1)	Machine composition		<ul style="list-style-type: none"> ○ Conveyor ○ Air nozzle ○ Ionizer ×2 ○ Air cooling by cooling coil ○ Blower ○ Control board ○ Operation panel 	
(2)	Machine dimension		1500(L)×1500(D)×2104(H)	Fig No.B2-13233-2
(3)	Machine weight		约 800kg	
(4)	Pass line		FL+940±20 mm	
(5)	Work size		W510 × L515, 0/+2mm 0.1 ~ 2.5mm	
(6)	Conveyor speed		1-6 m/min	
(7)	Color		5Y8/1.5	
(8)	Supply air temperature		25°C±3°C	
(9)	Transfer drive	Conveyor system	Magnet drive, guide roller attachment	
		Roller	φ35 Main roller -Work edge roller and center roller (3points) φ29 Free roller	
		Roller material	Stainless + Viton O-ring	
		Pinch roller	Transfer by work edge roller and center roller (3points)	
		Pinch roller material	Stainless + Viton O-ring	
		Number of conveyor motor	2 motors	
		Motor	Speed control motor, 1φ200V, Gear reduce	
(10)	Cooling	Cooling method	Air blow system by cooling coil Upper/Lower cool clean air blasting	
		Air cleaning level	Class 100	
		Cooling coil	Cu coil and Aluminum fin type 2 directional valve flow control	

		Monitoring of cooling water volume	Water volume sensor	
(11)	Nozzle	Nozzle material	SUS, Aluminum Treated alumite	
(12)	Blower		3φ 200V 2P 0.75kw sirocco fan ×2	
(13)	Filter	Pre-filter	PS-300×2 Unwoven cloth	
		HEPA filter	0.3μDOP 99.97% 610×915×65×2	
(14)	Ionizer		Shock less type at conveyer exit part×2	
(15)	Frame material		SS Baking finish	
(16)	Cover panel material		SUS	
(17)	Option	Temperature measurement of the substrate	By radiation thermo sensor	
		Calibration certificate	Pre-shipment inspection calibration certificate	

3. Electric specification

No	Item		Standard	Remark
(1)	Control board		At upper side of the equipment	
(2)	Signal tower		3 colors LED type	
(3)	Touch panel		Mitsubishi	
			With acryl cover	
(4)	PLC Sequencer		Mitsubishi	
(5)	Alarm, warning function	Emergency stop	Operate side, Non-operate side 2set	
		Leak detector	Earth leakage breaker	
		Overload	Detection by thermal	
		Filter differential pressure switch	Detection by differential pressure transmitter	
		Interlock	By door switch Upper nozzle opening switch	

		Ionizer alarm	By power unit	
		Temperature warning	Detection by temperature sensor	
		Alarm of water leakage	Detection by water leakage band	
		Alarm, warning indication	Touch panel and buzzer sound and Signal tower	
(6)	Touch panel display	Language	Japanese / English / Chinese	
		Alarm	Alarm information display	
(7)	Software	MES		
		SMEMA		
		Password control	3 level	
		Ethernet		
		Work number count		
		Recipe	50	
		Parameter management	<ul style="list-style-type: none"> • Blower inverter frequency • Conveyor speed • Supply air temperature 	
		Temperature correction		

4. Utility

No	Contents	Connect	Capacity	Condition
(1)	Power	Connected in control board	2kVA	3φ 208V±10% 50Hz
(2)	Cooling water	<p>Connected at back side of equipment.</p> <p>Cooling water inlet pipe: 20A</p> <p>Cooling water outlet pipe: 20A</p> <p>Drainage pipe: 15A ×2</p>	<p>0.5 MPa</p> <p>40 L/min</p> <p>12°C</p>	

5. Others

No	Item	Specification	Remark
(1)	Warranty Period	<p>1 year (consumption parts remove)</p> <p>If the breakdown happened regardless of normal use situation based on instruction manual in assurance term, we repair and adjust this equipment free of charge</p>	<p>Next case, regardless of assurance period, repair and adjustment are paid service.</p> <ul style="list-style-type: none"> • The breakdown by causes other than this equipment • The breakdown by handling carelessness misuses and falls. • The breakdown due to thing that you repaired, and remodeled • The breakdown due to a fire, act of providence, abnormal voltage, water, steam, oil, and acid etc