

EMST Konark 710ec



Seven Zone Reflow Oven

Konark 710ec is new 7 zone Lead free oven from EMS Technologies, Pune India 'The Soldering Specialists'. With more than 20 years of experience in manufacturing different PCB Assembly equipment like Wave Soldering Machines, Reflow Ovens and Stencil Printers etc., We proudly introduce our Konark 710ec, the 7 zone fully Hot Air Convection Reflow Oven. The oven is built with same quality and reliability standards of our field proven SMT Products.

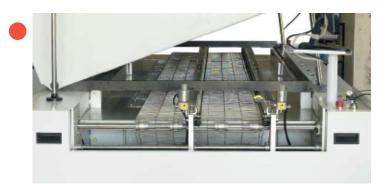
Features:

- 14 Independently PID Controlled Heating Zones (7 Top & 7 bottom zones)
- One Cooling Zone incorporated inside the process chamber.
- Tunnel length of 1925 mm
- Overall process length of 2415
- Maximum PCB width of 400 mm
- Mesh, Chain (pin-edge) or Chain
 above Mesh
- Manual/Auto conveyor width adjustment
- Electrically Operated hood opening.
- Max. temperature : 300°C
- Lead-free compatible
- PLC with 10" HMI control
- 4 channel profiler option
- Flux Management System (Optional)





Well laid out control panel giving full access for easy maintenance.



Conveyor rail made of special Aluminium alloy with high rigidity, accuracy and little distortion. Conveyor mesh made of Stainless Steel. Pin type conveyor for inline operation with 3 mm pin.



Highly reliable 10" Touch Screen display with simple self explanatory, user interface to make programming & operation very easy for any level of operator.



Optional 4 channel profiler allows full screen display of 4 thermocouple inputs on-line and also displays ΔT .

	INPUT STATUS		
Conveyor-Width Emachin a	Willistens Link K 830	With WY Alam BLOD	
Camegor Widt Incoln 1	Franklind Lind Switch 2012	Rotten Ocean VI 3 Alema Britan	
Conveyor Speed Interior &	New York Lindworth E 112	Top Street VPD Alama Bridge	
Conveyor Speed Decolar St K 000	Hard Jan Solid. T I I I	Conveyor IFC Speed Arem NTCT	
885,17 810H	Hostigest advants E E14	Randy Proce Dowed many PL/L R2214	
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101 D.4. 17 6 000	Head Desimate St.	NUME BOOK	
P216, D	Ender) över fidtage K 117	Span B102	

Input and Output status of all I/O controls can be seen with status indication for easy maintenance and troubleshooting

150 149.7 21607 150 149.9 1077 180 179.7 21607 180 179.6	MAN	NUAL CHE	CKING	15/11/	2017	
LOFF 150 149.7 ZILOFF 150 149.9 LOFF 180 179.7 ZILOFF 180 179.6 LOFF 210 209.9 ZILOFF 210 209.4 LOFF 240 239.4 ZILOFF 240 240.0 LOFF 270 268.9 ZILOFF 270 268.5	OFF	90	90.0	ZI-OFF	90	89.9
LOFF 180 179.7 210.047 180 179.6 DFR 210 209.9 213.4077 210 209.4 DFR 240 239.4 214.0477 240 240.0 DFR 270 268.9 214.0475 270 268.5	LOFF	120	119.9	ZLOFF	120	120.0
OFF 210 209.9 213.0FF 210 209.4 OFF 240 239.4 213.0FF 240 240.0 CEF 270 268.9 214.0FF 270 268.5	-OFF	150	149.7	210-077	150	149.9
Ceff 240 239.4 213.0FF 240 240.0 Ceff 270 268.9 2140.0FF 270 268.5	1-OFF	180	179.7	211-077	180	179.6
270 268.9 ZIAOFF 270 268.5	S-OFF	210	209.9	212-077	210	209.4
	I-OFF	240	239.4	213-075	240	240.0
TWORESN () THINKS () COOLEN	7-077	270	268.9	214-075	270	268.5
		TW-085				
	IEXT	-			EDBWEF (MENU

Manual or Service Mode of operation, which is Password protected, available for independently checking almost all operations - blowers, hood, tower lamp, cooler, chain lubrication etc allowing easy maintenance & troubleshooting of faults at any section.



Automatic Hood Open/Close Mechanism allows easy access to heating chamber and conveyor system for cleaning and maintenance.

WEEK	LY TIMER	and the second second	15/11/20	17	
DAY OF WEEK	ON	TIME	OFF	TIME	STATUS
BUNDAY	0	0	0	0	ON
MONDAY	0	0	0	0	ON
TUESDAY	0	0	0	0	014
WEDNESDAY	9	58	9	59	ON
THURSDAY	0	0	0	0	01
FRIDAY	0	0	0	0	ON
SATURDAY	0	0	0	0	ON CON

Other Software Features : Weekly/Daily Timer for programmed machine switching ON, 3 levels of User Password, Maintenance Calender, Error History, Calibration, Profile Run History, User Manual on Screen etc.



Specifications

Technical changes reserved.

Electrical Supply

Power Input	415V, 3ph, 50 Hz
MCCB	100A @ 415V
Peak Power Consumption	38 KW
Steady State Power Consumption	Around 10 KW
Sequential Zone Turn ON	Standard

Dimensions

Overall Length	3780 mm
Overall Width	1320 mm
	(1865 with door open)
Overall Height (Include Signal Tower)	1730 mm
Nett Weight	1300 Kg
Shipping Dimensions	4100 x 1420 x 1700 mm
Shipping Weight	2200 Kg

Oven Control

PLC with PID	Standard
Touch Screen HMI	Standard
Data Logging	Standard
Password Protection	Standard
Auto Start Software (Weekly/Daily Timer)	Standard
Hood Lifting	Motorised
Mesh Belt Conveyor	Standard
Height From Floor	880+/- 25mm
Maximum PCB Width	400mm
Clearance above Mesh	60mm
Mesh Belt Pitch	12.5mm
Conveyor Direction	Left to Right , Standard
	Right to Left - OPTION
Maximum Conveyor Speed	2mtr/min / 200 CPM
Conveyor Speed Control	Closed loop

Manufactured by



S. No. 43/3, New Gat No. 322, Plot No. 1, Pirangut,Tal. Mulshi, Dist. Pune - 412 115 INDIA

Edge Pin Conveyor

Option

Height From Floor	900+/- 25mm
Minimum/Maximum PCB Width	50 / 400mm
Clearance Above Pins	30mm
Clearance Below Pins	35 (without mesh below)
Support Pin Length	3.5mm
Conveyor Direction	Left to Right , Standard
	Right to Left - OPTION
Conveyor Width Adjustment	Manual - Standard
	Motorised adjustment -
	Option
Maximum Conveyor Speed	2mtr/min / 200 CPM
Conveyor Speed Control	Closed loop
Auto Lubrication System	Option
Edge Pin Above Mesh	Standard

Forced Convection Zones

Тор	7
Bottom	7
Heater Type	Open Coil
Total Heating Tunnel Length	1925mm
Total Process Length	2415mm

Cooling Zones

No. of Cooling Zone	One (Air cooling)

Temperature Control

Type of Temperature Control	PID
Accuracy of Temp. Controller	+/-1°C
Heater Wattage Per Zone	5000 W
Temperature Range	Ambient to 300 °C

Additional Features

Profiler	4Ch, in-built profiler OPTION
Signal Tower	Standard
Power Hood lift	Standard
Board Drop Sensor	Standard
Board Counter	Standard
Battery back up for conveyor (UPS)	OPTION
SMEMA	OPTION
Center Board Support	OPTION
Flux Management System	OPTION

Owing to continuous Research and Development, specifications are subject to change without notice.



Sold & Serviced by

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