



EA UP1200



UP1200



F8500



F1200



ICS412
WASHER/COATER



OVERVIEW	Residue-free fluxless oven for the most demanding applications	High throughput oven providing industry leading performance for wafer bumping	Affordable versatility across a broad range of substrates	Offering the best value for large substrates, the F1200 can fit any budget	Versatile multi-dispense flux coaters and washers offering maximum versatility
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FEATURES					
HEATING ZONES	5	6	5	7	
COOLING ZONES	3	2	2 w/ SB 1 w/ WB	2 w/ SB 1 w/ WB	
LOAD/UNLOAD BUFFERS	Standard	Standard	Standard	Standard	Belt or Robot transfer
ZONE TEMPERATURES	752°F 400°C ±2°C	752°F 400°C ±2°C	752°F 400°C ±2°C	752°F 400°C ±2°C	
DIRECTION OF FLOW	Left to Right	Bi-directional	Bi-directional	Bi-directional	Bi-directional
TRANSPORT SYSTEM	Ceramic Rollers	Walking Beam Rail	Sweeper Bar (SB) Walking Beam (WB)	Sweeper Bar (SB) Walking Beam (WB)	Belt Robot
AUTOMATION	SMEMA SECS/GEM	SMEMA SECS/GEM	SMEMA SECS/GEM	SMEMA SECS/GEM	SMEMA SECS/GEM
MINIMUM O ₂ LEVEL (PPM)	5	5	10	10	

SUBSTRATE CAPACITY					
MIN/MAX DIMENSIONS – INCH (MM)	4.9 (125) L x W min 11.8 (300) L x W max	3 (76) W min 11.8 (300) L x W max	3 (76) W min 8 x 11 (203 x 279) L x W max	3 (76) W min 11.8 (300) L x W max	4.9 (125) L x W min 11.8 (300) L x W max
MAX HEIGHT – INCH (MM)	3.5 (89)	3.5 (89)	3.5 (89)	3.5 (89)	
MAX WEIGHT PER ZONE – LBS (KG)	1 (0.45) if all zones used	WB 1 (0.45), LIFT 5 (2.3) if all zones used	SB 2.5 (1.1) WB 1 (0.45) if all zones used	SB 2.5 (1.1) WB 1 (0.45) if all zones used	1 (0.45)

FACILITY REQUIREMENTS					
INPUT VOLTAGE (VAC)	220 380	220 380	220 380	220 380	115 220 380
INPUT AMPS RMS (A)	55 @ start-up ≤30 @ steady state	55 @ start-up ≤30 @ steady state	22 @ start-up ≤11 @ steady state	37 @ start-up ≤19 @ steady state	≤12 @ start-up ≤6 @ steady state
SYSTEM POWER (KW)	28 @ start-up ≤14 @ steady state	27 @ start-up ≤13.5 @ steady state	10 @ start-up 5 @ steady state	33 @ start-up 17 @ steady state	
TOTAL COVER GAS RATE (CFM)	≤18.3	≤18.3	≤17	≤20	
COOLING WATER FLOW (GPM)	≤10	≤10	≤2	≤2	
DIMENSIONS (W x D x H) INCHES (CM)	185 x 46 x 79 (470 x 117 x 201)	185 x 46 x 79 470 x 117 x 201	126 x 28 x 45 320 x 71 x 114	164 x 24 x 45 417 x 61 x 114	41 x 42 x 41 (104 x 107 x 104)



5C



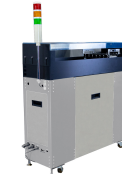
UP2000



UP4000



Shuttle



Hotplate



OVERVIEW	Tabletop oven offering the highest performance to size ratio in the industry	Maximizing floorspace for Auer boat, BGA, and lead frame applications	Increasing the throughput of the UP2000, the UP4000 can meet high throughput needs	Enabling automated process flow for any manufacturing space	Cost and space sensitive hotplate is the optimal choice for SMT repair and R&D needs
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FEATURES

HEATING ZONES	4	4	7		1
COOLING ZONES	2	3 SB 1 WB	5 SB 3 WB		0
LOAD/UNLOAD BUFFERS		Standard	Standard		
ZONE TEMPERATURES	752°F 400°C ±2°C	752°F 400°C ±2°C	752°F 400°C ±2°C		660°F 350°C
DIRECTION OF FLOW	Bi-directional	Multi-directional	Multi-directional	Bi-directional	
TRANSPORT SYSTEM	Sweeper Bar	Sweeper Bar Walking Beam (WB)	Sweeper Bar Walking Beam (WB)	Roller	Manual
AUTOMATION	MANUAL	SMEMA SECS/GEM	SMEMA SECS/GEM	SMEMA	None
MINIMUM O ₂ LEVEL (PPM)	10	10	10		Open Air

SUBSTRATE CAPACITY

MIN/MAX DIMENSIONS – INCH (MM)	No min 5 x 5.75 (127 x 146) L x W max	No min 12 x 3.9 (305 x 99) L x W max	No min 12 x 3.9 (305 x 99) L x W max	0.5 (13) W min 12 x 3.9 (305 x 99) L x W max	No min 8 (203) L x W max
MAX HEIGHT – INCH (MM)	4 (102)	4 (102)	4 (102)	4 (102)	4 (102)
MAX WEIGHT PER ZONE – LBS (KG)	2.5 (1.1) if all zones used	1 (0.45) if all zones used	1 (0.45) if all zones used	5 (2.27)	20 (9.1)

FACILITY REQUIREMENTS

INPUT VOLTAGE (VAC)	110 220 380	220 380	220 380	115 220	115 220
INPUT AMPS RMS (A)	24 @ start-up ≤12 @ steady state	≤50 @ start-up ≤25 @ steady state	≤70 @ start-up ≤35 @ steady state	≤1	≤2.1
SYSTEM POWER (KW)	11 @ start-up ≤5.5 @ steady state	11 @ start-up ≤5.5 @ steady state	17 @ start-up ≤8.5 @ steady state		≤1.2
TOTAL COVER GAS RATE (CFM)	≤5	≤5.8	≤5.8		
COOLING WATER FLOW (GPM)	≤2	≤2	≤2		
DIMENSIONS (W x D x H) INCHES (CM)	53 x 25 x 26 135 x 64 x 66	38 x 46 x 54 (97 x 117 x 137)	38 x 72 x 56 (97 x 183 x 142)	48 x 13 x 55 (122 x 33 x 140)	12 x 18 x 8 (31 x 46 x 20)