PRODUCT CATALOGUE 2026

Reflow Ovens

RT ECO flagship convection reflow, vacuum reflow for void-free soldering, vertical curing ovens and entry level M Series ovens.





INTRODUCTION

Reflow soldering and curing for middle and high volume production

INTEON reflow and curing ovens are built for middle and high volume production, combining an attractive price with high quality performance for the lead-free process. The range covers the flagship RT ECO energy-saving convection reflow lines, vacuum reflow for void-free soldering, vertical curing ovens for coating, underfill and adhesive processes, and the entry level M Series compact ovens.

Warranty

3 years

3-year full warranty, 5 years on heaters and blowers (RT ECO Series).

Lead-free ready

Up to 300 °C process temperature, ±1 °C control precision and closed-loop PID control.

European electrics

Electrical systems built to European quality and international safety standards, with branded components.

Support in Europe

Sales, installation, training and service in Europe through InterElectronic, the INTEON distributor.

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INTEON FLAGSHIP · ECO REFLOW

RT ECO Series Reflow Oven

RT-0803-ECO · RT-1003-ECO · RT-1203-ECO

ECO | INTEON flagship | 8 / 10 / 12 zones | Up to 300 °C

The RT ECO ovens are the flagship models of the INTEON reflow range. Extra insulation around the body and an efficient power and heat management design keep energy consumption low, while a special process chamber gives optimal temperature uniformity and independent air velocity control handles demanding lead-free profiles.



FEATURES

- ECO design: extra insulation for lower energy consumption
- Motorised width adjustment (optional: PC-controlled)
- Updated heat transfer and insulation to reduce power consumption
- Windows 10 operator interface, SMEMA communication
- Lead-free ready, 300 °C process capability
- Board counter and board drop detection
- Dual lane with dual centre support (optional)
- Combined pin chain and mesh belt conveyor (standard)
- 3 independent top and bottom cooling zones (standard)
- New flux collection system (standard)
- Light tower, uninterruptible power supply
- Automatic edge rail lubrication
- Dual lane with independent speed control (optional)
- Full nitrogen system (optional)

ECO energy saving

15–20% power saving thanks to thick copper rectifying plates and extra double insulation around the body. Normal consumption 9 kW (8 zones), 11 kW (10 and 12 zones).

Thermal convection

Zone segregation eliminates profile spikes; the nozzle plates cover the board with hot air from all directions. Heaters respond in under 0.5 s to changes below 0.1 °C.

Cooling and flux

3 top and bottom cooling zones with adjustable convection, 800 mm cooling length, optional water chiller. Filtered air or N_2 is recycled for better flux reclamation.

Stable transport

Mesh and chain rail for 24/7, 3-shift production; rail width held within ±1.0 mm at temperature. Dual lane runs two products at different speeds.

THE INTEON ADVANTAGE

- 3-year full warranty, 5 years on heaters and blowers
- Lifetime free training at the customer site
- Profile monitoring per product, line or board; optional built-in KIC real-time monitoring
- Lifetime free software upgrades
- Branded parts: Lenovo PC, Siemens PLC, Schneider, Panasonic, Carlo Gavazzi

INTEON FLAGSHIP · ECO REFLOW

RT ECO Series Reflow Oven specifications

RT-0803-ECO · RT-1003-ECO · RT-1203-ECO

TECHNICAL DATA

Model	RT-0803-ECO	RT-1003-ECO	RT-1203-ECO
GENERAL			
Dimensions L×W×H (mm)	5520×1430×1530	6300×1430×1530	7050×1430×1530
Weight	Approx. 2400 kg	Approx. 2700 kg	Approx. 2700 kg
Heating zones (top and bottom)	8	10	12
Heating zone length	3110 mm	3892 mm	4675 mm
Cooling zones	3 zones, top and bottom		
Nozzle plate	Thick copper plate		
Exhaust volume	11 m^3/min × 2	10 m^3/min × 2	10 m^3/min × 2
Flux collection system	Standard		
Standard colour	Ivory white		
CONTROL SYSTEM			
Power supply	3-phase, 380 V / 220 V, 50/60 Hz		
Total power	64 kW	80 kW	96 kW
Start-up power	30 kW	36 kW	42 kW
Normal power consumption	9 kW	11 kW	11 kW
Warm-up time	Approx. 30 min		
Temperature setting range	Room temperature to 300 °C		
Temperature control	PID closed-loop control + SSR drive		
Control precision / deviation on PCB	±1 °C / ±1.5 °C		
Profile change time	< 15 min		
Heat balance, empty to full load	≤ 20 s		
Cooling method	Forced air (optional: water chiller)		
PCB temperature at exit	≤ 70 °C		
Data storage	All profiles can be saved		
Alarms	High / low temperature; abnormal PCB run, operation, conveyor speed or hot air unit		
CONVEYOR SYSTEM			
Rail / chain structure	2-section rails; stainless steel anti-stuck chain		
Rail parallelism	±0.3 mm		
PCB width	50–400 mm	60–460 mm	50–400 mm
Component clearance	25 mm top and bottom		
Conveyor direction / fixed rail	L to R (optional: R to L) / front rail fixed		
Conveyor speed	300–2000 mm/min (0.01 m/min steps, ±2% closed loop)		
Speed control	3 inverters		
Conveyor height	900 ± 20 mm		
Conveyor method	Chain + mesh (optional: chain + centre support)		
Chain lubrication	Automatic (standard)		
OPTIONS			
Full nitrogen system	Hermetic N_2 configuration, flow meter, water chiller, oxygen analyser; 300–1000 ppm, 18–20 m^3/h (single lane)		
Centre support	Retractable, with special parking position		
Dual lane conveyor	50×50 mm to 300×300 mm per lane; rails 1 and 4 fixed, 2 and 3 adjustable		
Dual lane options	Independent speed per lane; independent chain and centre support speed per lane		
Water chiller cooling	Optional		

VOID-FREE SOLDERING

Vacuum Reflow Oven

IE-F1030L · IE-F1030H · IE-F1030DS · IE-F1030DL · IE-F1030DM

1–2% void rate | **0.1 kPa vacuum** | **Up to 300 °C**

The IE-F1030 Series is a high-performance inline vacuum reflow system designed to eliminate voids in solder joints. Ideal for automotive (headlights, power modules), aerospace, aviation, medical devices, BGA, FPC, LED and other high-reliability SMT processes.



FEATURES

- ✓ Extremely low void rate: 1–2%
- ✓ Single or dual lane, single or dual vacuum chamber models
- ✓ Temperature range: room temperature to 300 °C
- ✓ Hermes / Industry 4.0 ready
- ✓ Multi-recipe storage and precise temperature control
- ✓ Minimum vacuum pressure: 0.1 kPa
- ✓ Up to 10 heating zones + 3 cooling zones with forced water cooling
- ✓ Chain conveyor with pallets up to 400×400 mm or 400×250 mm
- ✓ Optional full or local nitrogen atmosphere

1–2%
Void rate

0.1 kPa
Minimum vacuum pressure

≥ 40 s
Production cycle

Applications

Automotive (headlights, power modules), aerospace and aviation, medical devices, BGA, FPC and LED assemblies, and other high-reliability SMT processes.

MAIN BENEFITS

- ✓ Dramatically fewer voids than standard reflow ovens
- ✓ High throughput with a production cycle of ≥ 40 s
- ✓ Excellent for large components, power devices and high-reliability assemblies
- ✓ Stable process with inverter-controlled hot air blowers

VOID-FREE SOLDERING

Vacuum Reflow Oven specifications

IE-F1030L · IE-F1030H · IE-F1030DS · IE-F1030DL · IE-F1030DM

TECHNICAL DATA

Model	IE-F1030L	IE-F1030H	IE-F1030DS	IE-F1030DL	IE-F1030DM
BASIC PARAMETERS					
Dimensions L×D×H (mm)	6300×1430×1630	7100×1430×1630	7100×1680×1600	7100×1680×1600	7100×1680×1600
Weight (approx.)	3000 kg	3300 kg	3500 kg	3500 kg	3500 kg
Heating zones (top / bottom)	9 / 9	10 / 10	10 / 10	10 / 10	10 / 10
Cooling zones (top / bottom)	2 / 2	3 / 3	3 / 3	3 / 3	3 / 3
Cooling method	Forced water cooling				
Exhaust requirement	10 m^3/h × 2				
Void rate	Approx. 1–2%				
CONTROL SYSTEM					
Power supply	3-phase, 380 / 220 / 480 V, 50/60 Hz				
Total power	68 kW	74 kW	90 kW	85 kW	85 kW
Segmented start-up power	38 kW	40 kW	50 kW	50 kW	50 kW
Power consumption (approx.)	10–15 kW	12–18 kW	12–20 kW	13–20 kW	13–20 kW
Hot air blower speed control	Inverters				
Heating time	Approx. 30 min				
Temperature control range	Room temperature to 300 °C, settable				
Production recipes	Multiple recipe combinations can be stored				
TRANSPORT					
Rail structure	Single lane	Single lane	Dual lane	Dual lane	Dual lane
Vacuum structure	Single chamber	Single chamber	Dual chamber	Single chamber	Single chamber
Pallet size (mm)	400×400	400×400	400×250	400×250	400×250
Conveyor height	900 ± 20 mm				
Conveying	Chain drive				
VACUUM SYSTEM					
Minimum vacuum pressure	0.1 kPa				
Vacuum pump flow	1500 L/min	1500 L/min	1000 L/min	1000 L/min	1500 L/min
Pressure relief time	≤ 10 s				
Production cycle	≥ 40 s				
OPTIONAL NITROGEN SYSTEM					
Nitrogen filling / control	Full or local filling; automatic or manual				
Nitrogen consumption (approx.)	600 L/min	600 L/min	700 L/min	700 L/min	700 L/min

HIGH-CAPACITY CURING

Vertical Curing Oven

VRO-650

60 layers | **Up to 200 °C** | **12 s/PCB**

The VRO-650 is a fully automated vertical curing oven that maximises throughput while minimising floor space. With its compact vertical design and 60-layer capacity it is ideal for curing after dispensing, conformal coating, underfill or adhesive processes in medium to high volume production.



FEATURES

- Max. PCB size 600×650 mm
- 60 layers, max. 3 kg per layer
- Max. component height 25 mm
- Up to 200 °C with ±1 °C control accuracy
- Inner temperature uniformity better than ±2 °C
- 8 independent heating modules, 72 kW in total
- Servo motor lifting system for precise, smooth operation
- In-line automatic entry and exit conveyors
- Hermes protocol ready (Industry 4.0)
- Optional N_2 atmosphere and cleanroom configuration
- Manual or automatic rail width adjustment
- Saves floor space compared with horizontal ovens
- Clean electric heating: pollution-free and low noise
- Ideal for curing capacitors, resistors, inductors and assembled PCBs

SPECIFICATIONS · VRO-650

Dimensions L×W×H (mm)	3000×2460×2160	**Weight**	Approx. 2100 kg
Max. PCB size	600×650 mm (L×W)	**Product weight**	Max. 3 kg per layer
Component height	25 mm	**PCB process edge**	5 mm
Number of layers	60	**Conveyor height**	900 ± 30 mm
Min. output	12 s per PCB and pallet	**Entrance and exit conveyor**	In-line
Lifting system	Servo motor	**Rail width adjustment**	Manual or automatic
Setting temperature	Max. 200 °C	**Heating system**	8 modules (4×2), 8×9 kW
Temperature control accuracy	±1 °C	**Inner temperature difference**	Less than ±2 °C
N_2 / cleanroom class	Optional		

ENTRY LEVEL REFLOW

M Series Entry Level Reflow Oven

M601 (6 zones) · M802 (8 zones)

Entry level | 6 / 8 zones | Up to 300 °C | 20 min warm-up

The entry level INTEON reflow oven: a compact convection reflow oven with 6 or 8 heating zones, PC control and rail conveyor, for lower budgets and smaller lines. Forced hot air circulation heats the PCB and components uniformly and eliminates the shadow effect.



FEATURES

- Long-life, energy-saving nickel heaters with curved reflectors for fast heat-up
- High-temperature fan motors and W-shaped heat pipes: quiet, vibration-free, easy to maintain
- Adjustable speed motor with 1:150 reducer, 0–1500 mm/min, ±20 mm/min precision
- PID control with fuzzy logic, thermocouple in every zone
- Temperature distribution meets IPC standards
- Delayed shutdown with uniform cooling to protect components
- Forced hot air circulation, porous aluminium plates for even heating
- Top hood opens fully for easy cleaning
- Durable stainless steel mesh belt and chain rail
- SSR solid state relays with dedicated heat sinks
- Failure diagnosis with light and sound alarm

4 kW
Normal power consumption, both models

20 min
Warm-up from room temperature

±1 °C
Temperature control precision

ENTRY LEVEL REFLOW

M Series Entry Level Reflow Oven specifications

M601 (6 zones) · M802 (8 zones)

TECHNICAL DATA

Model	M601 (6 zones)	M802 (8 zones)
HEATING SYSTEM		
Heating zones	6 top / 6 bottom	8 top / 8 bottom
Heating zone length	2500 mm	2900 mm
Heating / cooling mode	Hot air / forced air	
CONVEYOR SYSTEM		
Max. PCB width / mesh belt width	350 mm / 400 mm	
Rail width range	0–300 mm	
Transmission type	Mesh and chain	
Conveyor direction	L to R (or R to L)	
Conveyor height	880 ± 20 mm	
Conveyor speed	0–1500 mm/min	
Lubrication	Auto/manual, standard	
Upper hood	Manual (optional: automatic)	
Fixed rail side	Front (optional: rear)	
Component height	25 mm top and bottom	
CONTROL SYSTEM		
Power supply	5-wire, 3-phase, 380 V, 50/60 Hz	
Total power	28 kW	40 kW
Start-up power	28 kW	38 kW
Normal power consumption	4 kW	
Warm-up time	About 20 min	
Temperature setting range	Room temperature to 300 °C	
Temperature control	PLC and PC	
Control precision / deviation on PCB	±1 °C / ±2 °C	
Nozzle plate	Aluminium alloy plate	
Data storage	Process data and status storage (80 GB)	
Alarms	Abnormal temperature (high/low); tower light: yellow warming, green normal, red abnormal	
GENERAL		
Dimensions L×W×H (mm)	3600×1000×1490	4400×1100×1490
Weight	700 kg	1000 kg
Colour	Computer grey	

INTEON

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