

RO-403/413 Reflow Oven Specifications

RO-403/413 Reflow Oven

Breeze RO-403/413

Dimensions

RO-403 1650L x 900W x 480H, RO-413 1700L x 900W x 480H

Conveyor

RO-403 400mm stainless steel mesh belt, adjustable from 50mm - 800mm/min.
RO-413 Chain with 5mm pins (3mm optional available) 360mm wide, adjustable from 50mm - 800mm/min.

Controller

Microprocessor controller with RS-232 interface for heating and cooling zones. Speed and temperature profiling controlled via LCD display or by optional PC

Heating System

Full convection circulated hot air from the top and support plates at the underside. 8 heating zones, 1 cool down zone

Cooling

Axial ventilator with integrated ionising for ESD safe soldering

Heating Power

8100 Watt

Software Included

Evaluation oven manager software

Tunnel Length

950mm

Weight

190Kg

Power Requirements

3 Phase 380/415 Volt
8 Amp 8,7Kw, during operation ± 3Kw/h

Ordering information

- RO-403 Hot air reflow oven with mesh belt (lead free capable)
- RO-413 Hot air reflow oven chain with 5mm pins (lead free capable)
- RO-4010 PCB Catch Tray
- RO-4020 Cabinet
- RO-4030 Light Tower
- RO-2010 Monitor Stand
- SWRO-0330 Oven Manager software



**The solution,
for demanding
lead free soldering of
small to medium series
on mesh belt or pin conveyor**



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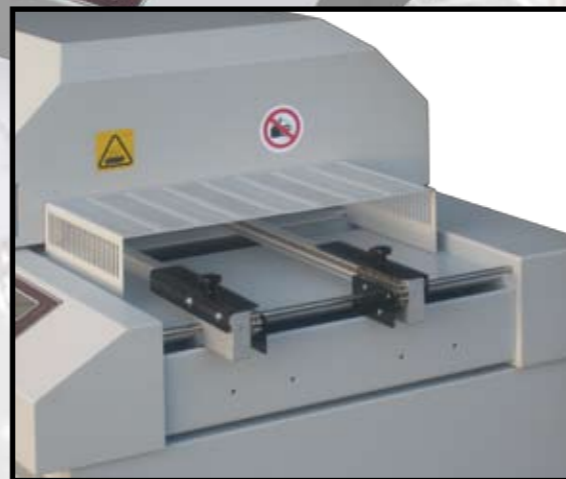
The Breeze RO-403/413 Reflow oven

The Breeze is available as an oven with a stainless mesh belt or pin conveyor. The mesh belt is ideal for constant changing dimensions or a mix of circuit boards while the pin conveyor is more suitable for double sided boards and for automatic transfer from pick and place machine to other units within the production line. Adjusting the width of the pin conveyor is just a matter of seconds. Offering the two models DIMA offers the ideal solution for lead or lead free soldering of printed circuit board and other electronic assemblies. The oven can also be used to cure SMT glue.



Key Features

- Lead free tested
- 8 independently controlled heating zones
- Integrated cooling zone
- Integrated reflow profiler
- Microprocessor control for 99 different programs
- Mesh belt or pin conveyor
- Pin conveyor ideal for doublesided boards
- DIMASoft® oven manager software (optional)
- Mechanical SMEMA interface (if used with cabinet)
- Integrated exhaust system
- Air ioniser for ESD safe reflow soldering



A perfect convection oven as table top model or as stand alone unit when combined with the optional cabinet

In an ideal profile, preheat temperatures are maintained long enough to permit activation of fluxes, while exposure of the components to higher reflow temperatures is kept to a minimum. These full convection reflow ovens with topside circulating hot air achieve perfect heating profiles despite their modest size. Naturally this reflow tunnel is designed to be compatible with all today's lead free solders.

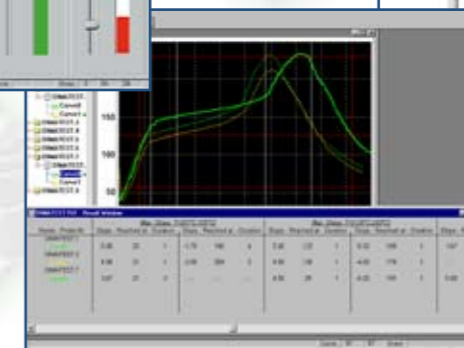
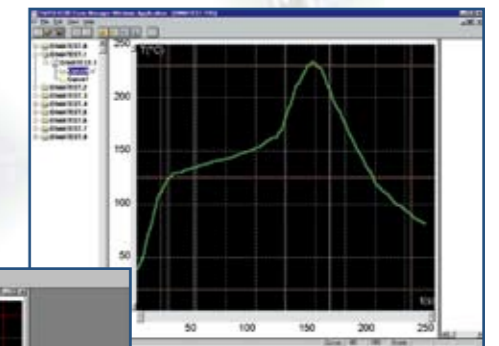
The solution, for demanding lead free soldering of small to medium series

User interface

DIMA's Breeze offers a powerful convection heating irrespective of the size and mass of the components. The unlimited variations of temperature profiles is achieved by the tunnel design. To minimise the stress for double sided boards the top and bottom temperature can be set independently. The system's memory stores up to 99 different profiles. The RS-232 port on the reflow oven allows PC interface for entry and storage of additional programs as well as remote control of operating procedure, QC monitoring, and generation of hard copies as needed. Oven Management software, compatible with Windows operating systems, is optional.

Air ionised controls static

To eliminate the possibility of damage caused by static, the Breeze includes an air ioniser in the cool down zone as standard equipment. The Breeze reflow oven offers full forced hot air heating to maintain consistent edge-to-edge temperatures, regardless of component size or density. Infinite profiling possibilities are achieved in this reflow oven through 8 independently controlled heating zones, with bottom heating also adjustable to prevent overheating of inverted components on double-sided boards. A dedicated LCD display permits continuous monitoring of the production run, with real time profiling shown in convenient graph format and board temperatures through each zone shown in real time.



Lead free approved

Leading solder paste manufacturers have approved this oven for lead free soldering without any limitations.

Up to 99 programs can be stored

The system's memory stores up to 99 different profiles. The RS232 port allows PC interface for entry and storage of additional programs as well as remote control of operating procedure, QC monitoring, and generation of hard copies as needed. Other features include an integral exhaust system that removes solder fumes while cooling the system exterior.

Other equipment available from DIMA

- Automatic pick and place machines
- Automatic glue and solder paste dispensing systems
- Board handling equipment
- Production optimising software
- Tape and reeling equipment
- Manual pick and place machines
- Stencil printing equipment
- See www.dimasmt.com for more information