

# RO- 402 / 412 Curing Oven

# Specifications

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## Zepher RO-402 / 412

### Dimensions

1650L x 900W x 480H

### Conveyor

400mm stainless steel mesh belt, adjustable from 50mm - 800mm per min. (other speeds on request)

### 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

Long wave ceramic IR emitters on top and bottom combined with circulating hot air. 8 heating zones, 1 cool down zone

### Cooling

Axial ventilator with integrated ionising unit blowing from underside

### Heating Power

8100 Watt

### Software Included

Evaluation oven manager software

### Tunnel Length / Height

950mm long 30 mm high (other heights on request)

### Weight

160Kg

### Power Requirements

8150 Watt during operation ± 2 Kw  
3 Phase 380/415 Volt  
8 Amp

### Ordering information

RO402 IR Soldering / Curing oven  
RO-4010 Plateau for end of oven  
RO-4020 Cabinet  
RO-4030 Light Tower  
RO-2010 Monitor Stand  
SWRO-0330 Oven Manager software



**The solution  
for IR long wave  
soldering or curing of  
conformal coating,  
glue, gaskets etc.**



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Specifications are subject to change without prior notice. RO402/412 0810E



*To improve your productivity*

## The Zepher Infrared oven

The Zepher is available as an oven with a stainless mesh belt or a 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 or 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 tin/lead soldering of printed circuit board and other electronic assemblies. The oven can also be used as a curing oven.



### Key Features

- Easy operation
- 8 independently controlled heating zones
- Integrated cooling
- Microprocessor control for 99 different programs
- Integrated temperature profiler
- DIMASoft® oven manager software (optional)
- Mechanical SMEMA interface (if used with cabinet)
- Integrated exhaust system
- Air ioniser for ESD safe curing or soldering
- Available in different heights

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

Various profiles can be set to meet the specification of your solder or curing application. The way the elements are ordered combined with a breeze of circulating air in the tunnel provides great uniformity over whole the tunnel length. The eight independently controlled heating zones allow you to create flat or curved temperature profiles without any problem.

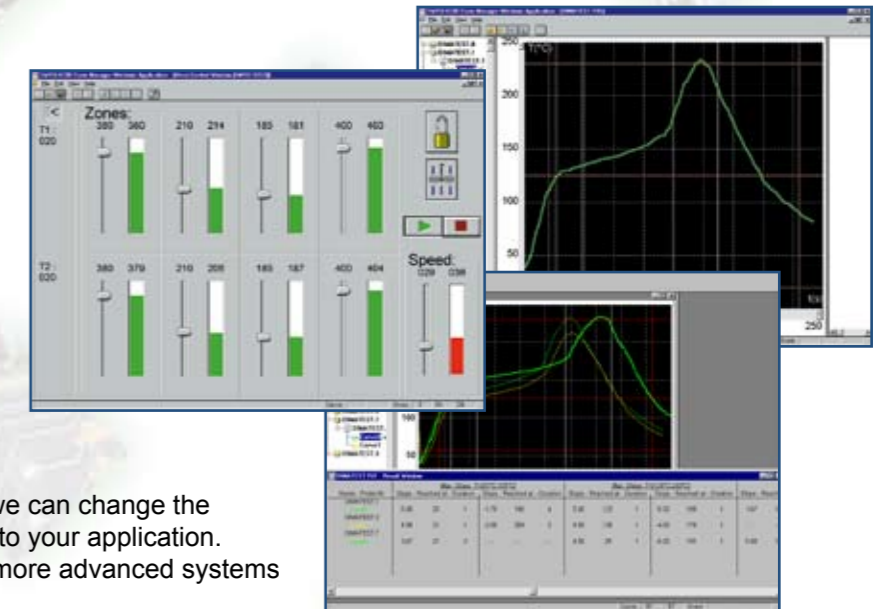
## The solution, for demanding soldering or curing of small to medium series

### User interface

DIMA's Zepher offers a powerful infrared heating for soldering and curing of various products. The unlimited variations of temperature profiles is achieved by the tunnel design. To minimise the stress for double sided boards or other products 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, for Windows® operating systems, is optional available.

### Air ionised controls static

To eliminate the possibility of damage caused by static, the Zepher includes an air ioniser in the cool down zone as standard equipment. The Zepher reflow / curing oven offers long wave IR heating that penetrates well into the product. If high uniformity on products with varying masses is required you should look at the Breeze 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 products. 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.



### Specials available

If this oven does not fulfil your requirements we can change the transport speed or tunnel height to make it fit to your application. When this is not enough we have larger and more advanced systems available.

### Up to 99 programs can be stored

The system's memory stores up to 99 different programs. 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
- Conformal coating machines