



THERMAL SYSTEMS

# Reflow convection soldering in the Edition package

Great features combined with the new ViCON system software



VisionXC  
ViCON  
Edition



VisionXC  
Convection Soldering

# VisionXC ViCON Edition

The smart complete package



## VisionXC ViCON Edition

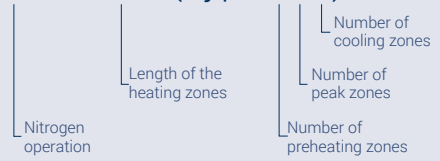
### Packed with state-of-the-art technology

**Are you looking for a system that offers the best process performance even in the smallest of spaces, a machine that is easy to use and has impressively manageable investment costs? With the VisionXC ViCON Edition, Rehm has responded to the needs of the market and developed a compact system for every area of application. This complete solution offers a high-quality system configuration combined with the new, modern ViCON software including the ViCON App for mobile system monitoring. The ideal package – whether you are starting out or a seasoned pro!**

It is important for any electronics manufacturer to achieve high quality in assembly production, even in small batches. The VisionXC is impressively compact making it the ideal system for small and medium production batches, in the laboratory or for demo lines. In order to meet increasing digitalisation and the new demands on a "Smart Factory", the VisionXC ViCON Edition provides a system package that brings together all the advantages needed for efficient production: the high-quality Rehm system construction, clearly structured operating and innovative networking tools for the best and transparently traceable soldering results.

in the Edition package:

The following designs are available:



 preheating zones
  peak zones
  transmission zone
  cooling zones

Process zone	Throughput*
2100 mm	90 / hr
2450 mm	110 / hr
3150 mm	130 / hr
3500 mm	145 / hr
3850 mm	160 / hr

A long line of industrial machinery, likely a paper mill or textile factory, featuring various rollers, conveyors, and processing units. The equipment is arranged in a row, extending from the foreground into the background. The machines are primarily white and grey, with some components in blue. The floor is a solid blue color. The background is a plain, light-colored wall.

- Low investment costs in the ViCON Edition package
- Low cost of ownership and minimal maintenance requirement
- High quality system equipment for reliable soldering results
- Modern operating software with numerous features

# Reflow soldering made easy

## One choice – many options



### The highlights of the VisionXC with new ViCON system software

Processing at the touch of a button? With the VisionXC ViCON Edition, you can start straight away! Rehm Thermal Systems has put together a large package of features which is ideally adapted to the needs of modern electronics production. Let yourself be inspired by this practical complete solution! The VisionXC ViCON Edition at a glance:



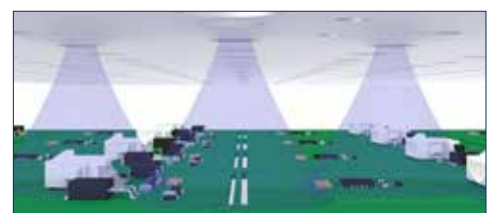
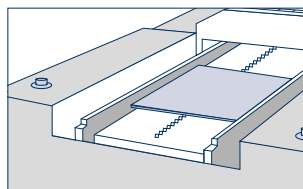
#### 1. ViCON software

The new generation of systems is equipped with the user-friendly ViCON system software, which has convenient touch-control and many other smart features.



#### 2. Single track transport

The system's single-track transport is individually adjustable within a range of 65 – 400 mm. The centre support makes processing even large PCBs or boards with flexible base material possible without problems and prevents any bending during the reflow soldering. Maximum process stability is therefore guaranteed. The automatic width adjustment and the integrated chain oiler ensure smooth transport.

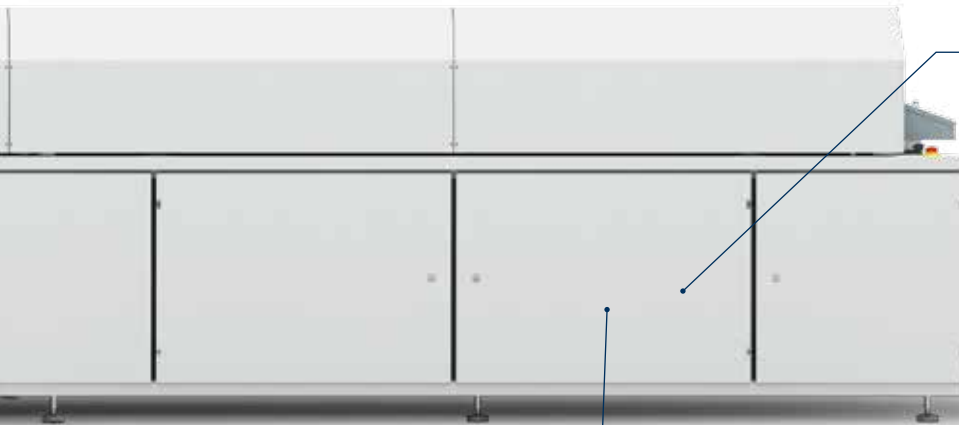


#### 3. Reproducible soldering processes

Specially shaped nozzle fields ensure best possible heat transfer in the VisionXC. The heat input is extremely homogeneous with the smallest  $\Delta T$ . The short distance between the nozzle fields and the transport surface, as well as the flow velocity of the upper and lower heating zones, which can be regulated separately, ensure uniform heating in the component modules. This minimises stresses in the assembly, reducing resulting soldering defects.

## Features of the ViCON Edition

- › Single track transport with automatic width adjustment and central support
- › Residue management with cooler/filter units and additional condensate separation in the preheating area
- › Transmission zone
- › Internal temperature monitoring
- › Automatic chain oiler
- › Integrated cooling water circuit with plate heat exchanger
- › ViCON – new system software with touch control
- › ViCON App – keep an overview using the web (30-day test version)
- › ViCON remote support (TeamViewer)
- › Software control of fans



### 6. Residue management

The residues resulting from the soldering are effectively eliminated by the VisionXC using an innovative filter system. The soldering system is equipped with a residual management system of up to 6-stages, depending on the length of the system, consisting of several cooler and filter units. Liquid and crystalline residues are reliably isolated by cold condensation. This results in less maintenance and clean processes.

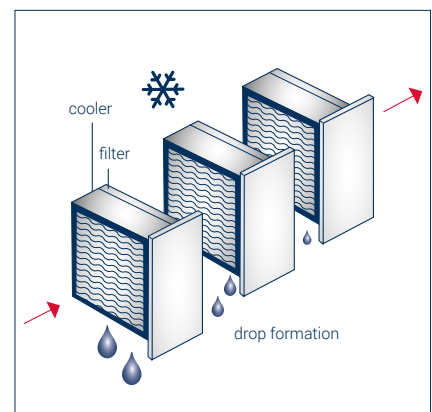
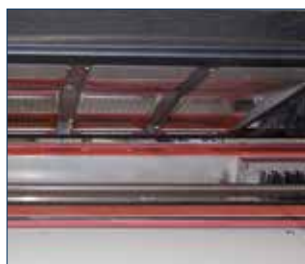


### 4. Transmission zone

The transmission zone is located in the transition sector between peak and cool areas. Here, a heating module is installed in the first cooling zone, which can be connected as required in order to cool down large or sensitive assemblies with particular care.

### 5. Stress-free cooling

The VisionXC's cooling path is designed in several stages, depending on the type of system. You are able to regulate them precisely with optional, separately adjustable fans in the individual zones and to influence the cooling gradient accordingly.



Cold condensation



# ViCON VisionX system software

## More than just touch operation

The basic software ViCON VisionX for Rehm reflow soldering systems offers you numerous possibilities to control, monitor and analyse your production process alongside intuitive system operation via a touch interface.

Alongside the use of touch operating elements and gestures, the new organisation of menu options and control panels, the core feature of ViCON's development lies in the option of being able to access the software from a variety of devices. The objective is to configure the system's current operating status clearly, so that the operator can react quickly and intuitively to status and alarm messages. Access rights, views and favourites are therefore exactly tailored to each user. Only the relevant information is displayed and a cluttered software interface is a thing of the past.



1. User-friendly machine overview, 2. System information is always mobile thanks to ViCON App, 3. User administration,
4. Alarm message with action buttons display



**The App, developed especially for ViCON, is the smart solution for everyday production which allows you mobile access to all the relevant system information.**

You see operating status and alarms at first glance. The responsive design provides users with an optimal display and allows easy and system-wide operation for IOS, Android and Windows. The ViCON App is not restricted to a special plant but allows an overview of all Rehm systems that are installed in your production and have been connected to the App. As soon as the necessary web connection is suitably available, a status request is possible within the company network, even worldwide.

### Highlights

- › Mobile request of the system condition
- › Alarm messages
- › Notification to Rehm service personnel directly via the terminal
- › Plant-specific information, e.g. machine type, serial number etc.
- › Connects to a mobile superordinate line monitoring system



## Remote maintenance



**Use remote maintenance via TeamViewer if you need fast help! The Remote Administration Tool allows data to be exchanged worldwide between a Rehm reflow soldering plant and the service team at the company's head office, as required.**

This guarantees quality help without any loss of time. You therefore not only save time and costs but also increase the availability of the production plant.

### Highlights

- › Simple analysis and modifications
- › Easy handling via TeamViewer
- › Effective support from Rehm experts



## Rehm Worldwide

As a leading manufacturer of innovative thermal system solutions we have customers on every continent. With our own locations in Europe, America and Asia as well as 27 agencies in 24 countries we are able to serve the international markets quickly and to offer outstanding on-site service – worldwide and round the clock!

- Location
- Production facility
- Representation



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