

The background of the top half of the page is a grayscale photograph of industrial machinery, likely a brazing furnace. A large, multi-paned door is partially open, revealing a dark interior. To the left, there are stacks of metal components on a workbench. A prominent red diagonal graphic cuts across the right side of the image, separating the top section from the bottom section.

**SECO/WARWICK**

INVENTION MEETS RELIABILITY

# Universal CAB Batch

High brazing quality for low volume producers



# Universal CAB Batch

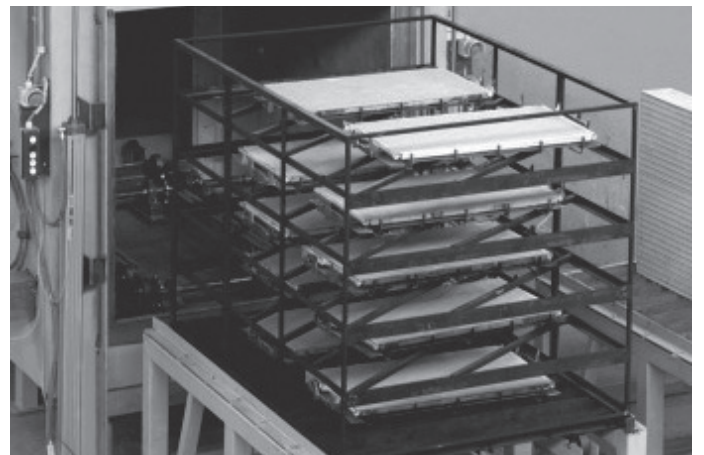
The Universal CAB Batch Furnace is designed to braze the widest variety of heat exchangers in horizontal or vertical position depending on the product design requirements. It operates on a part-time basis. The furnace can be brought up to brazing temperature from ambient and conditioned to a proper atmosphere in a very short time. This two chambers batch system allows for variable heating and cooling rates, depending on product requirements.

The design of the Universal CAB Batch furnace is prepared for the future upgrading to the three chamber equipment. This is the most economical way to increase the output of the existing CAB system.



## INDUSTRIES

- / For all types aluminum heat exchangers.
- / Horizontal and vertical brazing availability.
- / Ideal for low volume HEX producers.



- / Compact design.
- / Easy for installation and use.

## VACUUM PURGING SYSTEM

- / Two stages vacuum pumping.
- / Vacuum down purging to the pressure lower than 0,05 mbar corresponds with Oxygen content 10ppm.
- / One time refill by Nitrogen – atmosphere quality below 20ppm.
- / Dedicated for the Plate&Bar heat exchangers.
- / Prepared for the brazing with fluxless and fluxfree technology.



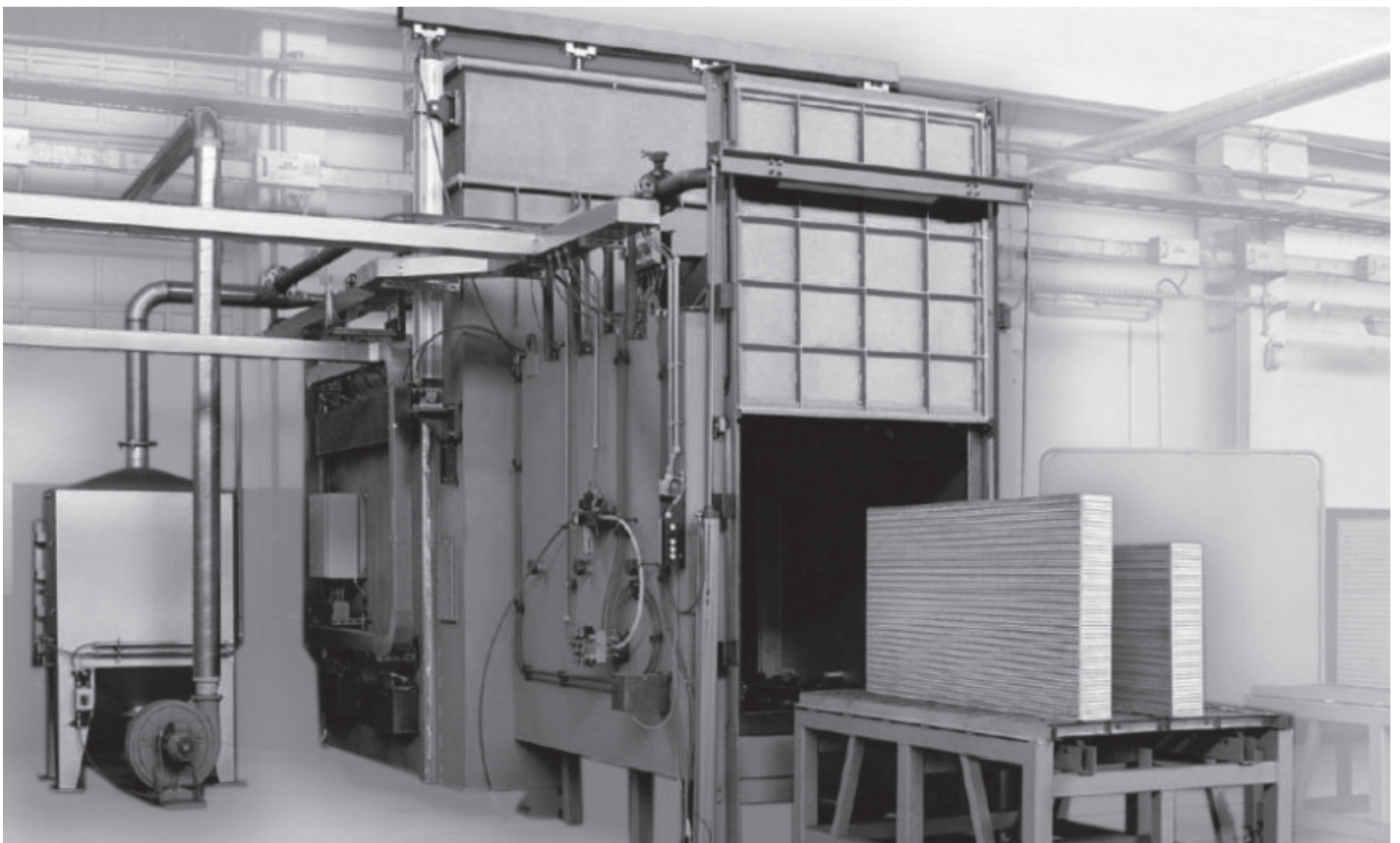
## ADVANTAGES


- / Highest flexibility.
- / Short preparation time (2-3 hours).
- / Low Nitrogen consumption.
- / High brazing quality:
- / Clean atmosphere – below 20ppm of Oxygen,
- / Temperature uniformity,
- / Sharp heating profile,
- / Repeatable brazing process.

## BASIC TECHNICAL PARAMETERS

- / Brazing time\* (in brazing chamber) 10 - 40 minutes.
- / Cycle time\* (including purging, cooling) 30 - 70 minutes.
- / Standard Size 1100 x 1100 x 1500 mm.
- / Load mass 350 kg.
- / Other sizes and load mass versions available.

\* time depends on the type and mass of the product





## SECO/WARWICK Invention Meets Reliability

SECO/WARWICK is the 1<sup>st</sup> choice supplier  
of solutions for heat treatment and metallurgy.

We create innovative products that provide our customers with reliable, safe and environmentally friendly solutions for heat treatment and metallurgy and ensure the economic efficiency of their businesses. Expertise includes end-to-end solutions in 5 categories: vacuum heat treatment, atmosphere, and aluminum thermal processing, controlled atmosphere brazing of aluminum heat exchangers and vacuum metallurgy.

SECO/WARWICK Group, with 8 companies located on 3 continents, has customers in nearly 70 countries with more than 4000 deployed solutions. The company provides standard or customized state-of-the-art heat processing and metallurgy equipment and technologies to leading companies in the following industries: automotive, aerospace, electronics, tooling, medical, recycling, energy including nuclear, wind, oil, gas, solar and production of steel, titanium, and aluminum.

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