



Installation in ASSAN ALUMINIUM, Turkey



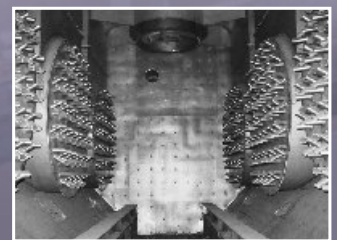
High Convection Vortex® Flow Jet Heating System for coil annealing furnaces

High convection Vortex® technology reduces heating time (up to 40%) and improves uniformity in aluminium coil

SECO/WARWICK has developed a new patented Vortex® system technology for aluminium coil annealing that guarantees much better temperature uniformity during aluminium coils heating than other systems. The system also allows for faster load heating thanks to better heat transfer coefficient.

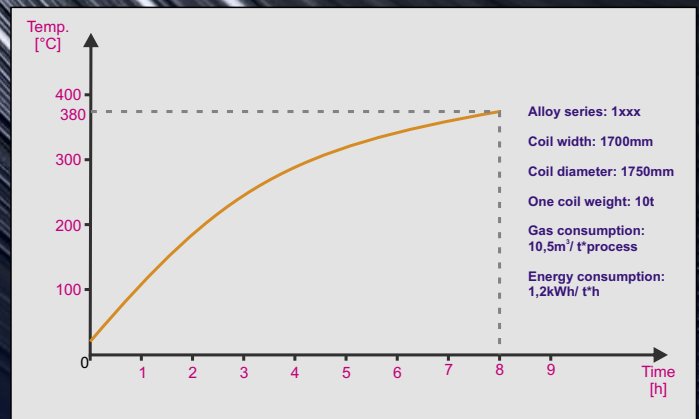
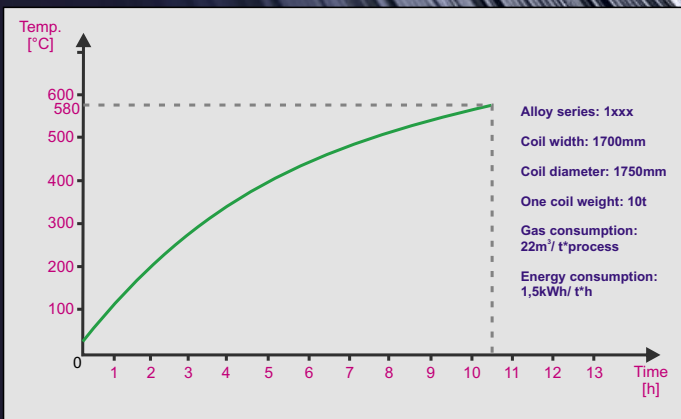
The system consists of a special nozzle arrangement creating tornado effect because of joining atmosphere streams flowing out of each nozzle. This allows for elimination of overheated points of the entire load surface area.

The system can replace any other design for aluminum coil annealing significantly reducing time and utilities consumption.



Advantages of Vortex® System

- Reduces heat-up time without overheating coil edges
- Reduces local cracking of residual surface oil
- Enhances efficient oil evaporation
- Reduces the variation in the material properties of processed coils
- Reduces discoloration of strip edges in 5xxx and 7xxx alloys
- Produces higher volume of jet flow with reduced fan motor power using comparatively lower fan speeds
- Improves temperature uniformity throughout the coil during the heating cycle
- Reduces heating source consumption



SECO/WARWICK Aluminium Furnace Team offers the five basic product groups including coil/foil annealing, solution heat treatment & ageing, log homogenising, ingot heating and melting/holding furnace systems. We offer advanced technology to reduce cycle times, conserve energy and improve cooling rates. Our control and material handling systems are designed for each unique production environment. SECO/WARWICK is an integrated global company providing heat transfer equipment and services with exceptional quality and value.

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