

OVENS



Drying Oven with Conveyor - mod. FOP/T



The **Drying Oven with Conveyor mod. FOP/T**'s main features are:

– **Heating system**, which is equipped with a recirculation fan, an oil battery, blowing channels, an air recovery channel and a filter. To ensure uniform heating and air distribution, fields are opposed on the left and the right side. In order to reduce electrical consumption as the oven reaches working temperature, all recirculation fans are controlled by an inverter which changes the rotation speed as temperature increases

– **Oven structure**, this has silicone rubber sealing doors that are positioned all along the sides in order to grant easy inner access. Both the side doors as well as the upper coverings are made of sheet-zinc panels containing high-density mineral wool. The oven is built in order to guarantee maximum sealing and insulation.

– **Air exhaust system**, consisting of upper exhausts that are connected with two air channels that lead outside the oven, along the upper sides. In order to allow local and precise air suction adjustments, variable size openings are provided for every field of application.

– **Conveyor belt**, made from a kevlar net and equipped with:

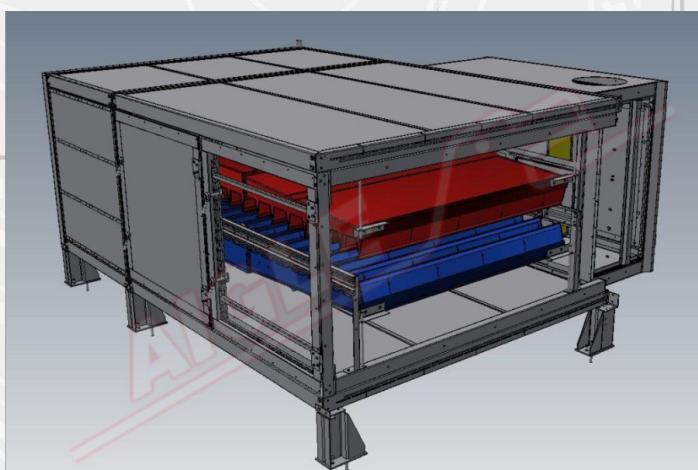
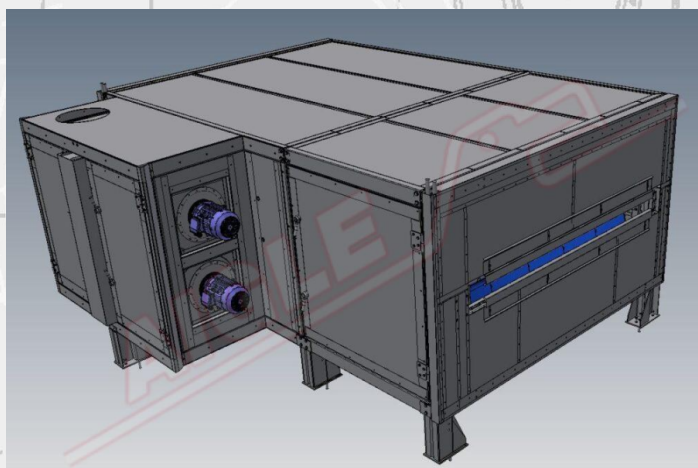
- An automatic system to adjust alignment and tensioning
- Supporting idle rolls

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– **Thermo-Regulations mod. TR**, is a temperature control system, there would be one for each battery, consisting of:

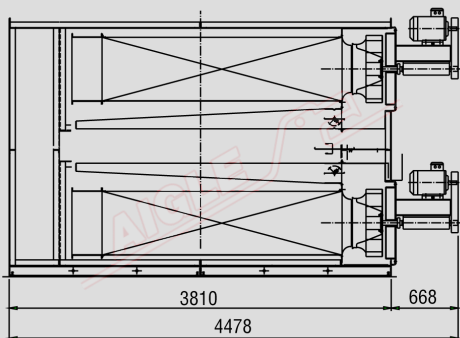
- A three-way pneumatic command modular valve, equipped with an electro-pneumatic transducer
- A PT 100 temperature detector
- A PID electronic control with digital display

– **Electrical board & PLC**, motorization components are gathered on modular control panels. Main functions are displayed on screen. Synchronization with the rest of the line is obtained through inverter controlled A.C. motors with vector functions. General synchronization is obtained through an input signal to the cards controlling the inverters. General speed adjustment is obtained through a moto-potentiometer and signal amplifier. Electronic cards for inverter adjustments are equipped with potentiometric correction by percentage.

AIGLE's ovens can also be built for steam or gas heating.

TECHNICAL DATA

Single bay heating power	120.000 KCal/h
Single recirculation fan	5,5 kW
Max. working temp.	to be defined (220° C max.)
Useful width	to be defined
Power supply	400 V/50 Hz/three-phase



Compressed air

$7 \pm 1 \text{ Kg/cm}^2$

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