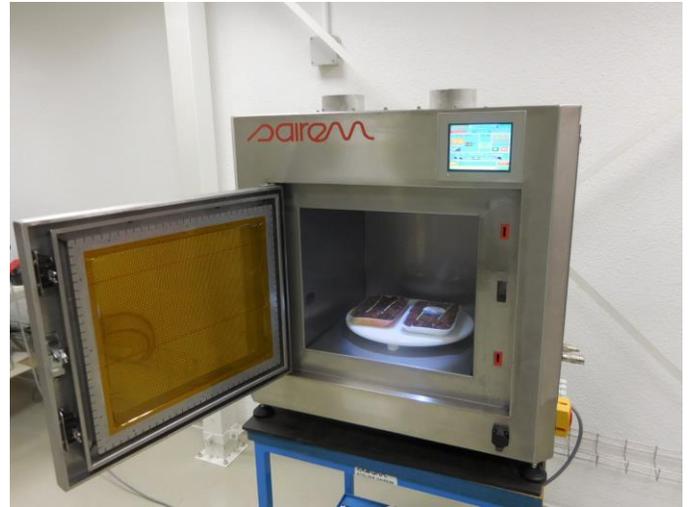




## 2450 MHZ LAB MICROWAVE OVEN WITH TURN TABLE

### LABOTRON 12 T



The LABOTRON 12 T is a laboratory equipment using microwave heating at 2450 MHz for applications in food processing, such as thawing, drying, cooking, pasteurization, disinfestation, etc. It can also be used for other products such as wood, rubber, textile, composite materials, etc.

The LABOTRON 12 T offers a side-opening door and a turn table supporting the product.

The microwave coupling, the turn table and the free space around the product allow a regular distribution of microwaves in the product.

The association of hot air (maximum 60°C) or cold air with a drying process (for example) improves the temperature homogeneity between the product inside and outside.

## TECHNICAL FEATURES

<b>Reference</b>	<b>LABOTRON 12 T</b>
<b>Construction</b>	Batch, stainless steel 304L, microwave door with ¼ choke, side opening.
<b>Turn table</b>	Diameter 350 mm, material neutral when submitted to microwaves, maximum product weight: 3 kg.
<b>Microwave frequency</b>	2450 MHz.
<b>Microwave power</b>	1.2 kW maximum, adjustable from 0 kW to 1.2 kW, set point, display of forward and reflected powers on HMI.
<b>HMI</b>	Touch screen 5.7", control of microwave forward and reflected powers, of product temperature (with option optical fibers or infrared). 20 programmable recipes, oven status, faults report, etc. Microwave start, emergency stop, etc. Data transfer to a PC via USB port.
<b>Hot air (maximum 60°C) or cold air</b>	It is possible to inject hot air (max. 60°C) or cold air inside the microwave cavity (from the top of the cavity). Not supplied.
<b>Steam extraction</b>	Via a fan located on the top of the microwave cavity.
<b>Light of the microwave cavity</b>	Via LED.
<b>Safety</b>	Microwaves stop in case of door opening. Protection against reflected power via an isolator. Protection IAmx.
<b>Option temperature measurement via infrareds</b>	An infrared pyrometer is installed in a tube located on the top and in the middle of the oven. The surface temperature of the product is displayed on the HMI screen.
<b>Option thermometer with optical fibers</b>	Thermometer with optical fibers measuring the product temperature during treatment, up to 2 temperature points can be displayed simultaneously on the HMI. The turn table offers an alternate rotation avoiding to break the fibers. Length of the fibers: 2 m, number: 2. This thermometer has to be placed near the cavity. It is connected to the cavity via a 0-10 V input with temperature display on the HMI screen.
<b>Voltage and consumption</b>	One phase 230 V, 50/60 Hz, consumption 3.5 kVA.
<b>Cooling water</b>	Water flow 5 L/min minimum, pressure 4 bars, power to evacuate 2 kW; input and output: plastic water pipes, internal diameter 12 mm (not supplied).
<b>EC norms</b>	89/392, 91/368, 73/23, 89/336, 92/31, 519-6 CEE/EWG EN55011 (specific)
<b>Dimensions, weight, various</b>	See drawing on following page, weight 115 kg. Delivered with power cable.

**Injection d'air**  
Air injection

**Fibre optique**  
Optic fiber

**Extraction d'air**  
Air extraction

**Pupitre de commande**  
Control panel

**790**

**750**

**60**

**620**

**Sectionneur**  
Mains switch

**Entrée/Sortie d'eau**  
Water cooling in/out

**Connection USB**

**weight: 115 KG**

**SAIREM**

**LABOTRON 12T**

**FORMAT: A3**

**ECHELLE: 1:8**

**DESIGN: 3442-ENS A**

**WEIGHT:**

**SAIREM**

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INDICE	DATE	ML	VERRE	APPROUVE	EMMISSION ORIGINALE	MODIFICATION DU DESSIN
A	04/05/16					