

MISYA AH-36-T

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Technology and innovation at your service

MISYA is a non-invasive disinfection method using electromagnetic energy for the post-harvest treatment of legumes and cereals. It is the innovative and eco-friendly solution replacing chemical treatments. The key principle is the exploitation of electromagnetic energy thermalization effects into proper reverberation chambers. The main characteristics of the model MISYA AH-36-T are:

- **Helicoidal conveyor system** suitable for seeds and grains. The mixing obtained during the conveyance helps the homogeneity of the heating ensuring an effective treatment;
- **PLC** for the automatic control and management of the process;
- **Sensors** to verify the well-functioning of the disinfection process;
- **Data logger** to collect data during the production cycles.

The product conveyance occurs by means of an helicoidal system



Steel cover for microwave generators protection against drop, bump and dust



The device is endowed with six microwave generators, directly connected to the treatment chamber

Forced air cooling device for the microwave generators cover

Automatic flow regulator

Product presence sensor



Valve for cleaning

Electromagnetic filter

Microwave generators cooling device



Temperatures of the product, coming out from the treatment chamber, are constantly monitored by means of infra-red sensors

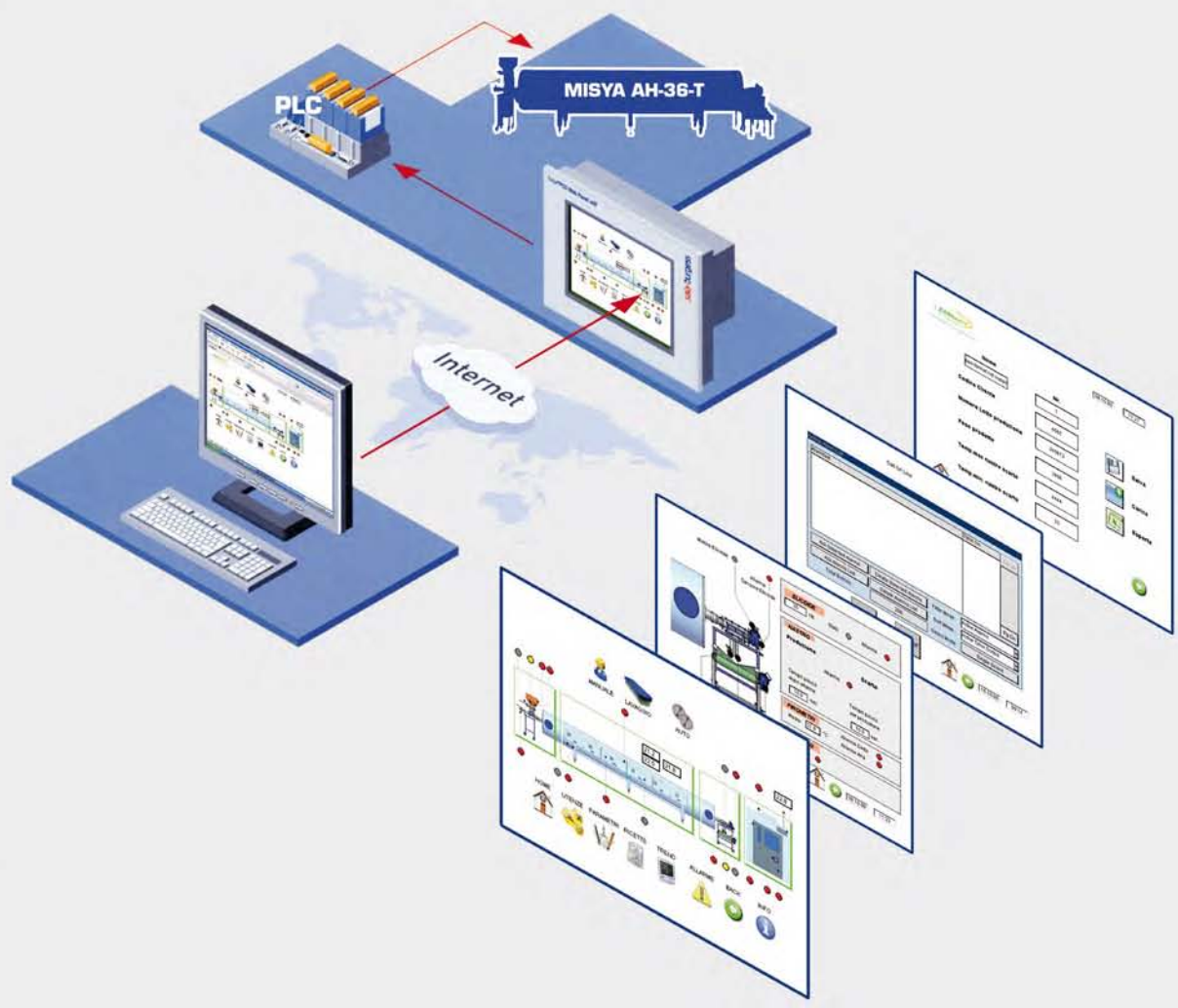
TECHNICAL CHARACTERISTICS

Supply voltage	380 V three-phase - 50Hz
Primary auxiliary circuit voltage	240 V - 50 Hz
Secondary auxiliary circuit voltage	24 V _{dc} - 6 A
Maximum RF power	36 kW
Absorbed electrical power	72 kW
Throughput per Hour	2-2,5 t/h*
Pneumatic circuits operation pressure	max 6 bar
Water flow rate of the microwave generators cooling circuit	25 lt/min at 25°C
Weight	1.300 Kg

* variable value, depending on the characteristics of the product to be treated (density, humidity, temperature)



Lateral view of the device: composed of loading unit, treatment unit and unloading unit. It is designed to operate on a stand alone basis or in line with preexisting devices. Cleaning operations are facilitated thanks to the rapid access to all components.



MISYA AH-36-T is endowed with a web-based interface. Unlike conventional control panels, this interface allows the visualization of management process parameters on the PC by using a simple web browser (Internet Explorer, Mozilla, Opera, Safari, etc.). Thanks to it, users do not need to recur to proprietary control panels, to install any special software and to purchase costly licenses. The access is allowed

through 4 levels of authentication (administrator, production manager, worker and maintenance worker).

The interface enables the following operations:

- **setting of the process parameters** (temperature, microwave generators power, initial speed, etc.);
- **recording and uploading of treatment schedules** according to specific lots and characteristics

of the products to be treated (initial temperature, humidity, density);

- **selection of one equipment's unit** in order to check the state of the sensors and/or the relative analogical values;
- **visualization of the online trend** of process parameters (temperature, flow rate, etc.);
- **monitoring of the equipment state** and alarms and/or anomalies.

Simply **MISYA**



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