

STCS - VMir+

Ref: 14-01-0032

Shrinking Tube Control System

mecalbi
ENHANCE INNOVATING

The STCS-VMir+ is a heat shrink system, based on infrared technology. It's designed for workbench applications and can process several parts at the same time.

The same machine can be used on several applications, since it's equipped with a fast exchangeable shrinking chamber system.

The chambers are designed according with the application specifications, making them ideal for special applications.

Based on the standard STCS-VMir, the main difference is on the shrinking chamber dimension: 225mm x 100mm



Fast removable shrinking chamber



USB and Ethernet sockets for network communication



Bigger shrinking chamber comparing to standard STCS-VMir: 225mm x 100mm



New and improved interface based on Touchscreen technology, that allows network communication



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TECHNICAL CHARACTERISTICS

WORKING TEMPERATURE

Minimum	250 [°C]
Maximum	500 [°C]

DIMENSIONS

Length	540 [mm]
Width	560 [mm]
Height	430 [mm]
Weight	42 [kg]

POWER SUPPLY/CONSUMPTION

Supply	230 [V] @ 50Hz
Consumption	500 mA to 7 A (Max. 1500W)

PNEUMATIC

Supply	Quick Hold Socket ø8 [mm]
Supply Pressure	Min: 5bar; Max: 7bar; Rec: 6bar

CONNECTIONS

Barcode Reader	USB
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC Socket
Programming	Touchscreen, Barcode Reader, External Device
Interface	Touchscreen, Buzzer and LED

SHRINKING CHAMBER

Shrinking Chamber [Max]	225x100x74 [mm]
Tube Diameter [Max]	50 [mm]

CALIBRATION

Calibration Probe	ref.: 26-33-0001
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- ▲ Adjustable parameters: process temperature, shrinking time, cooling time, etc;
- ▲ Easy and fast replaceable shrinking chamber;
- ▲ Two different operating modes: M1 with temperature and shrinking time control; and M2 mode with pre-programmed references (999 in total);
- ▲ Pre-programming of references using a PC with STCS-RCT software (reads Excel™ files) or a USB stick;
- ▲ Automatic selection of references using a barcode reader or manually on the Touchscreen;
- ▲ Easy firmware upgrade using a USB stick;
- ▲ Use of labels for each shrinking time inside a reference;
- ▲ Built-in cooling system;
- ▲ Manual and automatic calibration;
- ▲ Programming mode password protected;
- ▲ Special maintenance mode for hardware debug;
- ▲ External temperature probe connection for temperature reading and offset adjustment;
- ▲ Automatic cool-down cycle to extend the life of components;
- ▲ Partial and global cycle counter;
- ▲ Communication with ultrasonic welding machines;
- ▲ Working time counter;
- ▲ Network communication;
- ▲ Interchangeable system language including: English, Portuguese, French and Spanish (others on demand).

OPERATION

The open work area significantly reduces the setup time of the assemblies.

The STCS-VMir+ consists in two infrared ovens that come to the front and shrink the assemblies both from top and bottom, improving the temperature's balancing all around the chamber.

When the process finishes, the ovens return to its original position and the cooling system acts refrigerating the work area.

For each machine it's possible to use an indefinite number of shrinking chambers.

OPTIONS

Custom shrinking chamber

Ref: 27-28-0001

