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Technical Sheet

TEC 2900 Tissue Embedding Center



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1. General features

1.1 General use of the instrument

TEC 2900 trimodular embedding center incorporates three separate components in a modular design:

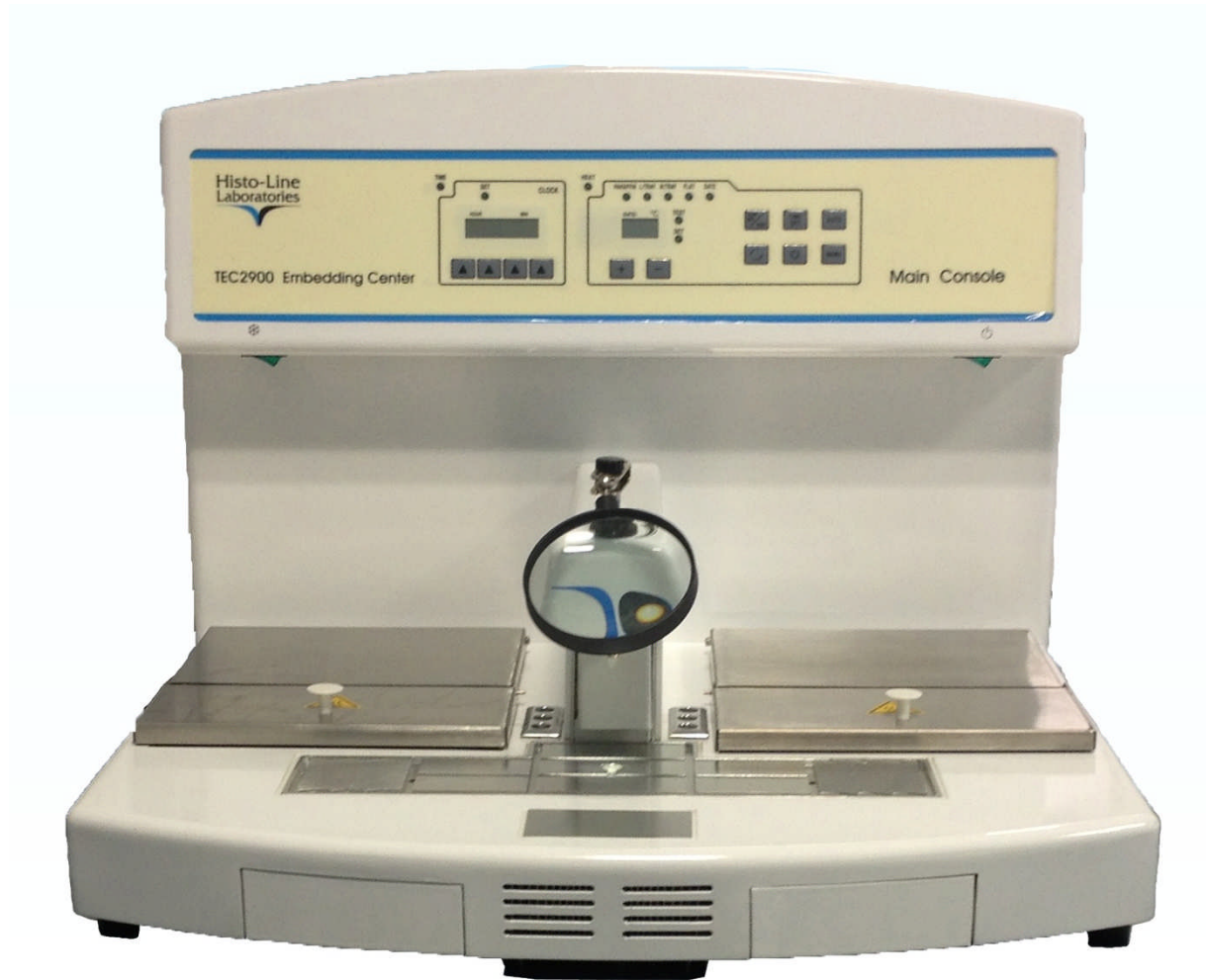
S1

- TEC2900-1 Dispensing Console (paraffin dispenser)
- TEC2900-2 Cryo Console (cold plate for cooling blocks)
- TEC2900-3 Thermal Console (Thermal plate stationary samples)

The independent units offer the flexibility to ensure embedding workflow in either direction to suit the user's needs.



2. Technical features TEC 2900-1



2.1 Features of the dispensing module TEC 2900-1 Dispensing Console

S7 In the Dispensing Console adjustment of the functions of the instrument can be changed through the front control panel for easy management and temperature control is conducted by electronic thermostat with microprocessor.

You can also view and edit different temperatures than the tank containing the paraffin tray cassettes and the work plan. You can easily adjust the automatic switch ON device, programming daily both the hours and days of the week. Shutting down is set by default at 18 (changed) to allow the work even in the late afternoon. The paraffin dispensing possible through the simple command "touch" manual, and the use of the pedal.

S2

S11

The paraffin dispensing module has many specialties:

S8

S21

1. Two large storage trays 1.4-liter paraffin in which to put standards and macrocassette biocassettes, they are programmable at two different temperatures and removable to provide better maneuverability (for example placed in an oven) and clearing

2. Two compartments heated clamp holder of three accommodations each are easily accessible and programmable temperature

S8

3. The large, ergonomic work area allows you to process multiple samples simultaneously

4. The adjustment knob allows a 'variable and precise dispensing of the paraffin stream

S4

5. Equipped with a lighting system to LED cold light enables optimal illumination on the surface of inclusion and mobile magnifying lens (removable if necessary) that makes work in precision operations

6. Paraffin dispensing can be automatically controlled via the insertion cassette with pedal control

7. Equipped with a rapid drainage of excess paraffin system from the work surface through the holes in the work surface itself.

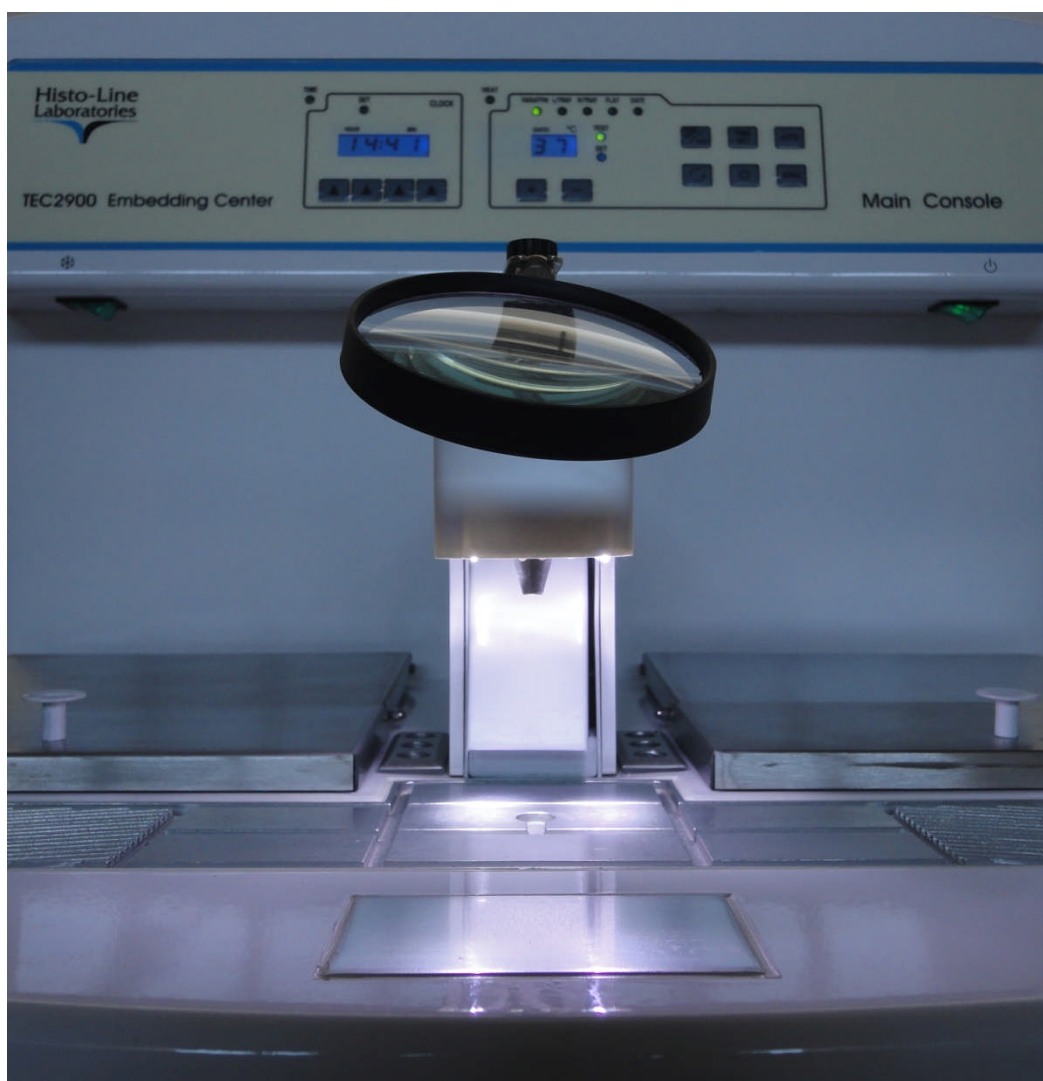
8. The paraffin is then collected in two fully extractable drawers and places frontally and easy collection and cleaning by the operator





2.2 Features of the inclusion area

1. Wide Peltier cooling plate designed to place even large samples such as the super mega cassettes
2. Range of from room temperature to -10 ° C
3. The large working plate allows the drainage of excess paraffin in two separate compartments capacious and the process more samples at a time
4. Temperature range of the work plate from + 55 ° C to + 70 ° C



2.3 Electrical data

Certification: CE, IVD

Protection class: I

Fuses type Quick: 8A (2), 5A, 2A (2)

Pollution class: 2

Over-voltage Category II Installation

Operating temperature: + 15 ° C ~ + 35 ° C

Power supply: 220V ~ 50Hz

110V ~ 60Hz

Maximum power draw: 200 V/A

2.4 Operating Temperatures

S6	Paraffin chamber:	30° ~ 80°C increments of 1°C
	Right drawer:	30° ~ 80°C increments of 1°C
	Left drawer:	30° ~ 80°C increments of 1°C
S3	Work surface:	30° ~ 80°C increments of 1°C

2.5 Capacity

	Main paraffin tank:	6 liters
S8	Right tray:	1.4 liters (W. X D. X H. mm) 220 X 180 X 45
	Left tray:	1.4 liters (W. X D. X H. mm) 220 X 180 X 45

2.6 Dimensions and weight

Width: 600 mm
Height: 460 mm
Depth: 650mm
Weight: 30 kg

S3	Work surface heated: 280 mm X 80 mm (224 cm ²)	S10
	Peltier : 80 mm X 50 mm (40 cm ²)	

2.7 Instrument equipment

Pedal
Power cable
Manual instructions

3. Technical features TEC 2900-2



3.1 *Features of the cold plate TEC 2900-2 Cryo Console*

- S12** Console is composed of a compressor cooled work surface held to chill the paraffin blocks rapidly.
- S18** Used in combination with TEC 2900-1 Dispensing console as well as a stand-alone unit near microtome station. Best fits the needs of the laboratory.
- S14** The large Teflon coated refrigerate surface can hold up to 80 standard cassettes, is equipped with anti-drip edge.
- S17** It has a system of cooling cycle gas compressed, CFC-free.
It equipped with Plexiglas cover to keep the temperature constant and to avoid the formation of ice on the surface in high humidity ambient.

3.2 Electrical data

Certification: CE, IVD

Protection class: I

Fuses type Fst: 10 A

Pollution class: 2

Over-voltage Category II Installation

Power supply: 220V ~ 50Hz and 110V ~ 60Hz

Maximum power draw: 200 V/A

3.3 Control features and functionality

Working temperature: 0° ~ 20°C increments of 1°C

Working surface: 360 mm X 360 mm (1296 cm²)

Quantity of molds: approximately 80 base molds

3.4 Dimensions and weight

Length: 410 mm

Height: 440 mm

Depth: 630 mm

Weight: 24 kg

3.5 Instrument equipment

Plexiglass cover

Power cable

Manual instructions

4. Technical features TEC 2900-3



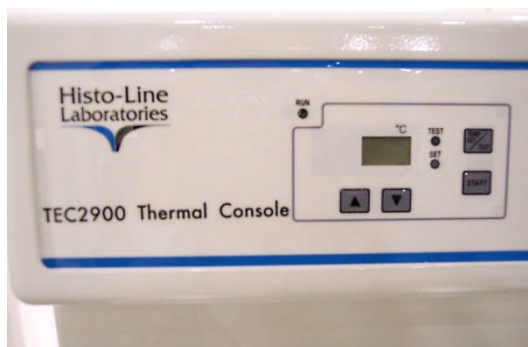
4.1 Features of the thermal plate TEC 2900-3 Thermal Console

TEC 2900-3 Thermal Console is designed to enable the heating and short-term storage of samples. The large and removable tray allows a big capacity of cassettes. Can contain up to 4.8 Lt of paraffin.

TEC 2900-3 Thermal Console is provided with a control panel to set and monitor the desired temperature with a temperature range between from ambient and 80°C.

TEC 2900-3 Thermal Console can be used independently from the embedding center and placed at will on the right side or the left side of dispensing console.

The metal cover can be easily fully or half opened.



Removable tray to facilitate transport and cleaning operations.

Stand-alone unit. May be placed beside microtome up to user operating habit.

Easy-to-read control panel.

4.2 Electrical data

Certification: CE, IVD

Protection class: I

Fuses type Fst: 10 A

Pollution class: 2

Over-voltage Category II Installation

Power supply: 220V ~ 50Hz and 110V ~ 60Hz

Maximum power draw: 300 V/A

4.3 Control features and functionality

Working temperature: 20°C ~ 85 ° increments of 1 ° C

Paraffin in the tray capacity: approximately 4.8 lt

4.4 Dimensions and weight

Length: 410 mm

Height: 440 mm

Depth: 630 mm

Weight: 7,5 kg

4.5 Instrument equipment

Power cable and manual instructions