

# SPT - 3120

## Spin Tissue Processor



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

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## ►► A worldwide unique technique :

Tissue processing is a technique that uses alcohols to remove water from tissues and replace it with a medium that allows sectioning of tissue. Several methods are used to achieve this. Spin Tissue Processor fulfills it in a patented and unique technique that combines several movements for the tissue to achieve perfect infiltration results. This is possible thanks to the world's best spin processing method. ROTATIONAL AGITATION. The basket with the cassettes is immersed into the reagent vessel. In this position, the basket turns at 60 rpm and changes the rotational direction every 60 seconds. The rotational agitation achieves a perfect infiltration of tissue, an homogeneous mixture of the reagents and a reduction of processing time. To get better results, user can start optionally a shaking process.



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### SHAKING.

This movement can be optionally activated on the control panel and allows the basket to perform an up-down movement inside the vessel that combined with the rotational agitation fulfills an helicoidal movement that increases infiltration quality at a high degree of precision. At the end of this process, baskets start centrifuging.



### CENTRIFUGING.

This function is activated as soon as the infiltration time comes to an end. The basket rises above the reagent's level but rests inside the vessel. For a period of 60 seconds it starts whirling at 210 rpm and changes the rotational direction every 15 seconds. This process allows tissue to be optimally drained and avoids carry over of reagents from one vessel to another.



**Components & Accesories**



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### ►► **Ergonomic control panel:**

The buttons of the control panel are arranged ergonomically for easy handling. The LCD display shows all the parameters throughout the process, such as programm number, vessel, remaining time, start time, start delay, total duration of the programm, rotational agitation and shaking, basket's centrifuging, temperature of paraffin baths, date and time.

### ►► **Easy handling:**

The instrument has capacity to store up to 10 different programs that can be freely set up by the user. Each one of the programs can be started in immediate or delayed mode, without time limit. The instrument can easily be rotated via the four rollers mounted on the base. This allows the user to have fast and safe access to each one of the vessels.

### ►► **Maximum safety standards for the user and the specimen:**

The individual cover for each one of the vessels reduce the emission of vapors to a minimum. The SPT-3120 incorporate a fume extraction system that - through a fan and an active charcoal filter - cleanse the vapors before being discharged into the air.

In case of a power shutdown, the specimens are automatically lowered inside the vessel by means of a battery to protect them against dessication and solid paraffins. Once power is restored, the instrument resumes the program at the same point in which it was interrupted. If it is a long power failure and the paraffin baths become solidified, the safety program will be activated. The instrument will then wait for the baths to be fully liquified before going ahead with the change to the paraffin baths. Emergency motions can be implemented through the battery, such as moving the basket up and down or station change (as long as the basket is not inside a solidified paraffin bath). Instrument is also equipped with an emergency stop button. It is possible to interrupt a program for re loading or advanced unloading of samples.

### ►► **Alarms during the process**

Alarms during the process If the specimens remain inside a station for a longer time than the programmed time, e.g. due to a power failure, the display will show a message indicating the station number and the overtime spent in that station compared with the initially programmed time. The acoustic and visual alarms can easily be identified by the user. The keyboard can be locked by the user to avoid an inadvertent change of the process parameters during operation.

## ►► Technical Data

### Power requirements

Nominal voltage	100-120V		220-240 V AC (±10%)
Network's frequency	50/60 Hz		
Consumption	400VA		
Fuses	115 V (2xT4A)		230 V (2xT2A)
Battery Nickel-Cadmium	12 V 600 mA		

### Capacity

#### Reagent stations

Number of vessels	10 (9 if 3 paraffin baths are used)
Volume per vessel	1,8

#### Paraffin stations

Number	2 (optionally 3)
Volume	1,8
Nominal voltage	24V AC
Nominal power per station	100 VA
Temperature setting range	45 - 70 °C
Overtemperature release	75 °C (± 4 °C)

#### Optional equipment

- Spiral support for a second cassette basket (double processing capacity)
- Additional basket
- Additional paraffin bath (necessary when opera Mg the processor with the two baskets)
- Fume extraction system with active charcoal filter

#### Cassette baskets

Number of baskets	1 (optionally 2)
Basket capacity	120 cassettes (optionally 240)

### Programming

Number of programs	10 (selectable)
Infiltration time per station	from 1 m to 90h 59m
Rotational agitation	selectable
Shaking	selectable
Centrifuging time	selectable
Program start delay	selectable without time limit

### Dimensions

Diameter	850mm
Height	500- 700 mm
Diameter of the roller's circle	670 mm

### Weight

Including packaging	125 kg
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**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

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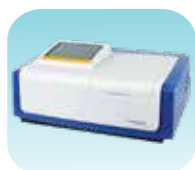
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Water purification  
system



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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## Reach us @



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