SunChip  

Hyperthermic Intra-Peritoneal Chemotherapy System (HIPEC)
The SunChip System was specifically developed for Hyperthermic Intra-Peritoneal Chemotherapy System (HIPEC), based on the recommendations of Pr Dominique Elias (department of general cancer surgery) and the biomedical staff at the Gustave Roussy cancer institute in Villejuif, France.

The SunChip System helps to regulate the temperature and flow of chemotherapy liquid in the peritoneal cavity.

It was developed to combine:

**PERFORMANCE**
- Primary temperature at 55°C max
- 2 fixed flow rate pumps
- 2 heat exchangers
- 4 temperature probes

**SIMPLICITY**
- Preparation
- Set-up
- Ready-to-use set
- T°C monitoring
- Timer

**SAFETY**
- Visual and audio alarms
- Traceability of consumables
- Traceability of T°C curves

**ECONOMY**
- Time saving
Control panel

Used to monitor and to adjust the various temperatures, the reservoir and the intraperitoneal chemotherapy as well as the duration of the HIPEC.

Single Use Disposable Set

Ready to use, the color-coded lines facilitate the identification and the setting-up in just a few seconds.

Temperature probes

Used to monitor the temperature in each of the four lines of the HIPEC circuit with great precision. Reusable with autoclave sterilization.

Data acquisition software

May be used as an option to monitor, record and store the four intraperitoneal temperature curves.

Single use sets

Composed of 2 circuits, differentiated by color-coded lines, (White/Blue and Green/Yellow), they each integrate:

- 1 high performance heat exchanger
- 1 aspiration line with filtering distal tip
- 1 injection line with standard distal tip
- 1 insertion site for the temperature probe on each line
- 3 infusers to connect chemotherapy solution bags, with safety
- 1 silicone tube for pump

The set is ready-to-use in order to avoid time wasting in preparation and to reduce manipulation risks while ensuring safety for users.

Accessories

FlowProtect is intended to reduce the risk of sticking which could appear around the distal tip of the SunChip set, and to improve the flowrate during circulation of chemotherapy when HIPEC procedure is performed.

FlowBag is specially designed to empty, partially or completely, the chemotherapy solution during and/or at the end of HIPEC procedure, in order to protect operating theatre people. The bag must be connected to the blue line of the SunChip set.
### Technical Specifications

#### Compliance with standards:
- EC mark class IIb
- IEC 601-1 (electrical construction and safety)
- IEC 601-1-2 (electro-magnetic compatibility)

#### Temperature measurements:
- Heat transfer fluid: from 35 to 54.9 °C
  - resolution: 0.2 °C
  - accuracy: ± 0.3°C in the useful range
- Chemotherapy liquid: 4 temperatures (2 in aspiration + 2 in irrigation)
  - resolution: 0.1°C
  - accuracy: ± 0.5 °C

#### Flow rate:
Set at 1 liter / min / pump, i.e. 2 liter / min overall

#### Size (H/P/L):
- 142 x 72 x 72 cm (overall, lid closed)
- 182 x 72 x 72 cm (overall, lid open)

#### Weight:
118 kg

#### Visual and/or audio alarms:
- Overheating
- Water level
- Temperature probes

#### Power supply:
230 V to 50 / 60 Hz (117 V optional)

#### Consumption:
1 500 W

#### Delivered with:
- 4 temperature probes
- 1 temperature curve acquisition software program
- 1 user manual
- 1 diagram guideline user

### Order References

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