SpeedHeat<sup>VE</sup>
Active Warming for Chemotherapy

Innovative technology for enhanced venous access
The benefits of local therapeutic warming are well established and include the reduction of pain, improved perfusion and relaxing of muscles\textsuperscript{1,2}.

As a fully approved Medical Device the SpeedHeat\textsuperscript{VE} provides assured safety, quality and performance.

- Improves Venous Access
- Improves Patient Comfort
- Improves Local Perfusion
  - Helps prevent venous collapse

"raising veins that are hidden, over-used or fragile, prior to cannulation"
**Features and Benefits**

<table>
<thead>
<tr>
<th>Clinical Benefits</th>
<th>Exceptional Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Improves local perfusion</td>
<td>• Latest patented carbon polymer technology</td>
</tr>
<tr>
<td>• Enhances venous access</td>
<td>• High thermal transfer</td>
</tr>
<tr>
<td>• Helps prevent venous collapse</td>
<td>• Very rapid warm-up</td>
</tr>
<tr>
<td>• Improves patient comfort</td>
<td>• Completely uniform temperature characteristics</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Safe and Robust</strong></td>
<td><strong>Practical and Convenient</strong></td>
</tr>
<tr>
<td>• Precise thermal regulation</td>
<td>• Simple to use</td>
</tr>
<tr>
<td>• Fully approved Medical Device</td>
<td>• Easy to clean</td>
</tr>
<tr>
<td>• Durable, fully sealed heat pad</td>
<td>• Full access to cannula</td>
</tr>
<tr>
<td>• Low voltage operation</td>
<td></td>
</tr>
</tbody>
</table>

**Patient Safety**

Pre-warming methods as diverse as bowls of hot water, heated towels and microwave heated bean bags have been used to facilitate easier cannulation. Critically, none of these provide reliable temperature control and all raise issues of cross contamination and safe practice. SpeedHeat™ is an approved Medical Device and provides safe, effective and reliable warming using advanced carbon polymer warming technology and digital electronic control. Safe, low voltage operation and built-in temperature sensors protect the patient and the care-giver.

**Easier Cannulation**

Repeated cannulation is often required for extended courses of treatment. The benefits of local warming include the raising of veins that are hidden, over-used or fragile, prior to the insertion of the cannula. This leads to a reduction in both the time taken and the number of attempts required. This is more comfortable for the patient and more satisfactory for the clinical staff.

**Patient Comfort**

During infusion the patient can often feel a level of discomfort, cold and irritation. In addition to the benefits of easier cannulation, SpeedHeat™ can help reduce pain and make the patient more comfortable and relaxed.

Local warming also helps reduce the risk of venous collapse and extravasation.

**Preventing Cross-infection**

SpeedHeat™ pads are fully sealed and may be readily and easily cleaned using standard healthcare cleaning products and protocols. Pads are covered in a special soft, latex-free polyurethane-coated fabric that is fully waterproof. Welded seams prevent fluid ingress, even with liberal and frequent cleaning.
SpeedHeat® provides precise temperature regulation with no hot spots, that is achieved by means of a digital electronic control unit. Patented Inditherm carbon polymer technology is utilised within the warming pad for optimal thermal transfer in a system that is safe, practical, comfortable, convenient and highly effective.

**Control Unit**

The compact control unit is simple to operate, reliable and robust. The temperature is accurately controlled to ensure total patient safety and it can be used free-standing or be attached to an I.V. pole for convenience. SpeedHeat® is a registered Medical Device.

**Warming Pads**

The warming pads have a comfortable, soft-feel outer cover with a wipe clean surface for protection from cross contamination. They come in a range of sizes to fit all patients and can be used on different parts of the body. The special concealed magnetic straps mean there are no ties or buckles on the pads and there is also an option to have disposable single use covers.

“...no need for improvised warming, this is a made-for-purpose Medical Device”
## Technical Specifications

### Warming Pad Construction:
- Inditherm patented flexible carbon polymer warming technology
- Encapsulated in a soft, latex-free nylon fabric cover with a non-microporous polyurethane coating, fully sealed with RF welded seams
- In-built temperature sensor for precision control
- Flexible retaining straps with magnetic catches

### Temperature Output Range:
Temperature range: 24°C to 60°C (75°F to 140°F) in steps of 1°C (2°F)

### Power:
- **Control Unit:**
  - 230 or 110 Vac, 50 / 60 Hz. 75W
- **Warming Pads:**
  - 24 Vac (nom)

### Dimensions:

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Unit</td>
<td>SHC001 190 x 130 x 100mm</td>
</tr>
<tr>
<td>Warming Pads: Small</td>
<td>SHP015 270 x 185mm</td>
</tr>
<tr>
<td>Warming Pads: Medium</td>
<td>SHP016 325 x 245mm</td>
</tr>
<tr>
<td>Warming Pads: Large</td>
<td>SHP017 380 x 300mm</td>
</tr>
</tbody>
</table>

### Accessories:
- **Disposable Covers:**
  - Single use, supplied in multi-packs of 100
- **Mounting Bracket:**
  - Used to fit control unit to I.V. Pole

### Compliance:
- 93/42/EEC Medical Devices Directive
- EN60601-1 Class Ila, Type BF

### Environmental:
- **Ambient Temperature (Operating):** 15°C to 40°C (59°F to 104°F)
- **Ambient Temperature (Storage):** -10°C to +55°C (14°F to 131°F)
- **Relative Humidity:** 30% to 70%

---

**Inditherm – experts in warming solutions**

Inditherm are experts in heating and warming solutions for a wide range of industries and applications. Their innovative, world-leading technology is setting the standard in warming practice for patient care during surgery, for premature babies and in other critical care situations.

Inditherm's patient warming technology is currently used in diverse clinical situations, including operating rooms, neonatal units and emergency departments.

---

Inditherm Medical is a trading division of Inditherm plc

Due to continuous product development the company reserves the right to change these details without notice.
1. Local warming and insertion of peripheral venous cannulas: single blinded prospective randomised controlled trial and single blinded randomised crossover trial.
Lenhardt R, Seybold T, Kimberger O, Stoiser B, Sessler DI.
BMJ 2002;325;409 doi:10.1136/bmj.325.7361.409

2. Local warming does help when inserting cannulas
Beer, J. BMJ. 2002 November 2; 325(7371): 1038

Yorkshire Cancer Network, Arthington House, Cookridge Hospital, Leeds LS16 6QB.

References

Houndhill Park
Bolton Road
Rotherham
S63 7LG
United Kingdom

Telephone: +44 (0)1709 761000
Fax: +44 (0)1709 761066
Email: sales@indithermplc.com
Website: www.inditherm.com/medical