

# STIHLER ELECTRONIC

High quality products for the medical field

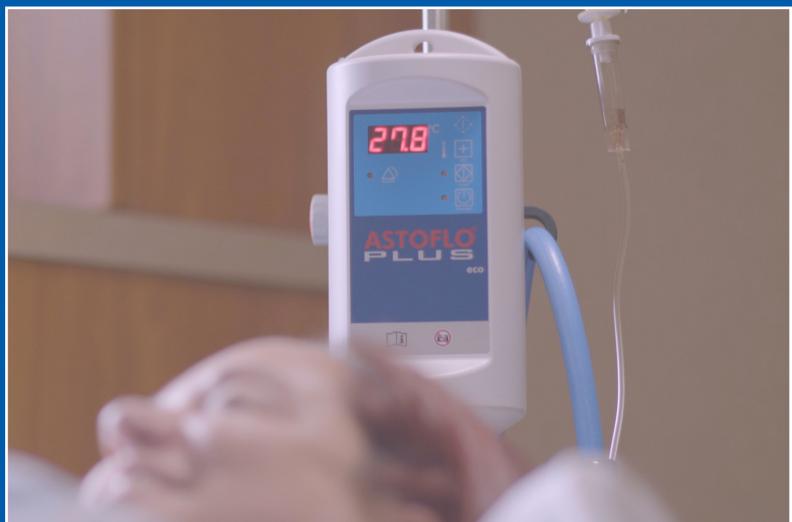
## ASTOPAD®



## ASTODIA®



## ASTOFLO® PLUS eco





# ASTOPAD®

## PATIENT WARMING SYSTEM

### ASTOPAD® PATIENT WARMING SYSTEM

universal . modular . conductive

**ASTOPAD:** The flexible, conductive and reusable patient warming system is very economical, simple to operate and of great clinical benefit. As the first module for the reduction of perioperative hypothermia, in routine use, ASTOPAD provides effective and economical prevention for all surgical patients. It improves safety against negative side effects of operations and contributes to the general well-being of the patient. It also provides prevention against decubitus when combined with a visco-elastic operating table pad or ASTOGEL gel pad.



Two ASTOPAD applied parts can be independently controlled using the **ASTOPAD DUO310** control unit. The patient can be simultaneously warmed from above and below. The temperature setting in the range from 32 - 39°C can be individually set in precise 0.5°C steps for each applied part. All high and low temperature alarms are continuously monitored by the control unit. The illuminated display and simple operation ensure safe use of the ASTOPAD patient warming system.

**ASTOPAD DUO310** control units are prepared for battery operation and can optionally be operated with an integratable, rechargeable battery.

The heat is generated by a 24 Volt protective low voltage for all **ASTOPAD applied parts**, using a net of carbon fibre which is permeable to X-rays. 4 or 8 temperature sensors are distributed close to the patient in the applied part. These ensure precise temperature control and monitoring of all of the alarm functions of the ASTOPAD patient warming system.

All ASTOPAD applied parts are wipeable and can be disinfected. They are supplied with a reusable cover which can be washed at 95°C and disinfected, optionally with a special fixation cover.

**ASTOPAD COV** warming blankets are exceedingly soft and supple. They can be used before, during and after surgery, as well as on the ward.

**ASTOPAD SOF/ROE**, the heated, pressure relieving operating table pad provides a unique combination of hypothermia and decubitus prophylaxis.

The key component of the **ASTOPAD SOF** is a visco-elastic foam, combined with a dynamic foam base for the best possible decubitus prophylaxis on the operating table.

**ASTOPAD ROE**, the special X-ray permeable applied part is based on an optionally 40 mm or 80 mm thick visco-elastic foam with a maximum sensor-free zone.

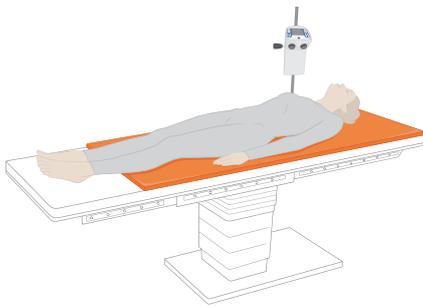
### Hospital situations and solutions

The first module for perioperative hypothermia prophylaxis should always be the heated and soft positioning of the patient. The wide range of ASTOPAD applied parts makes it possible to achieve optimal hypothermia and decubitus prophylaxis with every existing or new operating table.

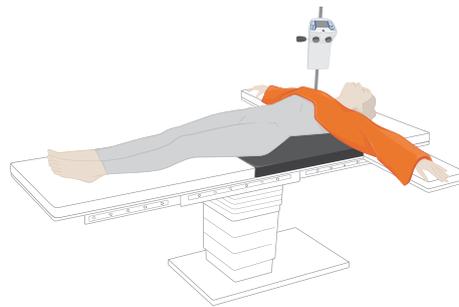
Applied parts Blanket	Designation	Use
	ASTOPAD COV070 680 x 480 mm	Warming blanket as a top and bottom blanket for children and infants with a height of less than 90 cm.
	ASTOPAD COV105 1050 x 500 mm	Special warming blanket for surgery in the lithotomy position (primarily urology and gynaecology).
	ASTOPAD COV150 1500 x 500 mm	Heated standard model for universal use as a top and bottom blanket.
	ASTOPAD COV180 1800 x 800 mm	Heated full body blanket, as a top and bottom blanket for the operating theatre, recovery room and on the ward.
	ASTOPAD SOF7 Length 600 - 800 mm (with sacral 660 - 900 mm), width 450 - 600 mm, height 40 - 100 mm	Heated, pressure relieving backrest for operating tables, antistatic. The dimensions are adapted individually, so that it is suitable for all operating tables. All backrests are optionally available with a sacral cut-out.
	ASTOPAD SOF4 Length 810 - 1300 mm (with sacral 910 - 1300 mm), width 480 - 600 mm, height 40 - 100 mm	
	ASTOPAD SOF5 Length 1310 - 1700 mm, width 480 - 600 mm, height 40 - 100 mm	
	ASTOPAD SOF2 Length 1710 - 2300 mm, width 480 - 600 mm, height 40 - 100 mm	Heated, pressure relieving operating table mattress, antistatic. The dimensions are individually adapted to the operating table.
	ASTOPAD ROE4 Height 40 mm, length 2400 - 2800 mm	Heated, pressure relieving operating table mattress for hybrid operating theatres, antistatic. The dimensions are individually adapted to the operating table.
	ASTOPAD ROE8 Height 80 mm, length 2400 - 2800 mm	

Accessories Cover	Designation	Use
	Reusable cover for all COV applied parts	Used to protect the heated blanket. The reusable cover can be disinfected and washed at 95°C.
	Fixation cover for COV070, COV105 and COV150 applied parts	Used to protect the heated blanket. The reusable cover can be disinfected and washed at 95°C. If the warming blanket is used as a lower blanket on the operating table, it can be securely fixed to the standard rail with the fixation cover.
	Fixation cover for all SOF applied parts	Used to protect the operating table pad. The reusable cover can be disinfected and washed at 95°C. This is recommended if the SOF is attached to an existing operating table pad.
	Reusable cover for all SOF applied parts	Used to protect the operating table pad. The reusable cover can be disinfected and washed at 95°C. Recommended if the SOF is attached to the operating table with Velcro tape.
	Mattress cover for ROE applied parts	Used to protect the ROE mattress. The reusable cover can be disinfected and washed at 95°C.

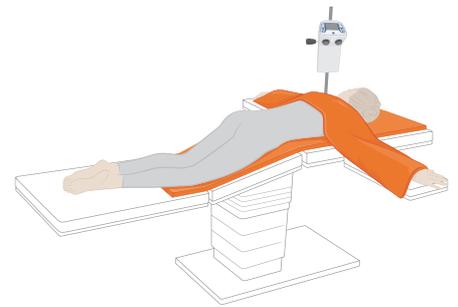
## Application examples



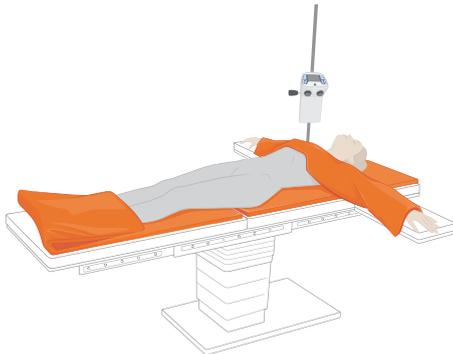
ASTOPAD COV150



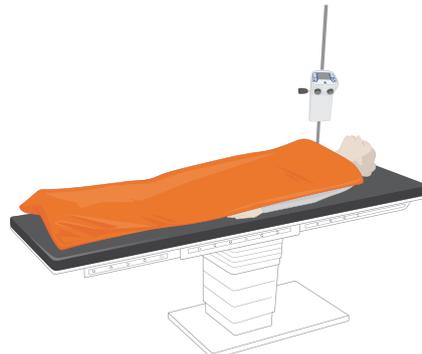
ASTOPAD SOF4  
ASTOPAD COV155



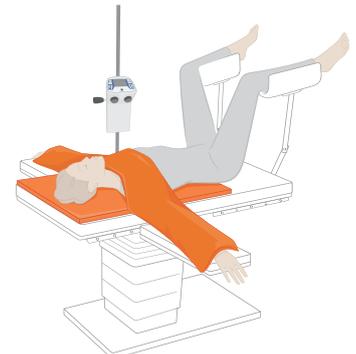
ASTOPAD COV150  
ASTOPAD COV155



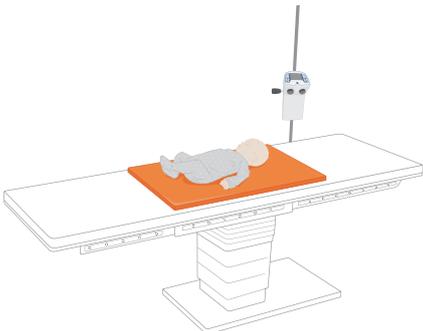
ASTOPAD COV105  
ASTOPAD COV150  
ASTOPAD PAS155



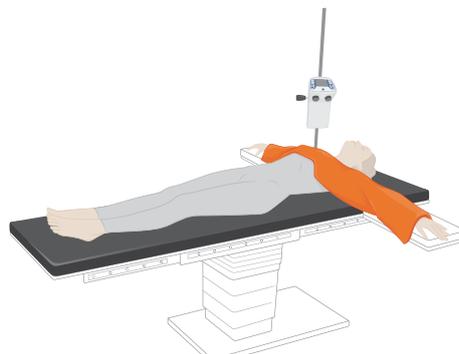
ASTOPAD SOF2  
ASTOPAD COV180



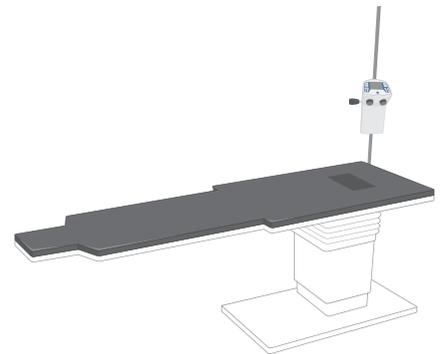
ASTOPAD COV105  
ASTOPAD COV155



ASTOPAD COV070



ASTOPAD SOF2  
ASTOPAD COV155



ASTOPAD ROE4 / ROE8

## 1 Unit Astopad Dewasa

- Control Unit dengan baterai : 1 unit
- Blanket Heating dewasa COV180 (1800x800mm) : 1 pcs
- Cover blanket dewasa : 1 pcs
- Instruksi Pengoperasian : 1 pcs
- IV Pole (Optional)

## 1 Unit Astopad Anak

- Control Unit dengan baterai : 1 unit
- Blanket Heating anak COV150 (1500x500mm) : 1 pcs
- Cover blanket anak : 1 pcs
- Instruksi Pengoperasian : 1 pcs
- IV Pole (Optional)

# ASTOPAD®

## BABY WARMER

### ASTOPAD® BABY WARMER

safe . cosy . economical

The **ASTOPAD Baby Warmer** provides premature and newborn babies with comfortable protective heat. The additional heat helps newborns sleep well and aids optimal development. Optional: The integrable, rechargeable battery for the ASTOPAD DUO310 control unit is powerful and allows newborns to be supplied with heat in every situation without a plug-in power source. Every crib becomes a heated crib with the **ASTOPAD COV070** warming blanket. It can be used as a heated surface under the baby and/or as a cover over the baby. The **ASTOPAD SOF7** is a heated mattress that can be tailored to the dimensions of the crib.

The **ASTOPAD Baby Warmer** can be used in a wide range of situations.

- In the baby unit for providing long-term heat for one or two babies.
- In the delivery room for providing initial heat on the resting surface.
- To heat the resting surface of a reanimation unit.
- In surgery to prevent perioperative hypothermia.

When transporting infants within the hospital, the ASTOPAD with an integrated battery can supply the baby with heat without a plug-in power connection.

#### 1. Baby unit

In the baby unit, two newborns can be independently warmed with one control unit. The **ASTOPAD Baby Warmer** is therefore an economical solution for supplying newborns with heat.

#### 2. In the operating theater

The **ASTOPAD Baby Warmer** is appropriate for use before, during and after surgery on infants and small children. The warming blankets are X-ray permeable and disinfectable.

#### 3. Examination room

Wherever newborns are examined where they can lose body heat when unprotected, whether in the delivery room, in theatre or the baby unit, the ASTOPAD Baby Warmer can maintain appropriate body heat.

#### 4. Reanimation unit

Reanimation units that do not have heated surfaces can be easily retrofitted with the **ASTOPAD Baby Warmer**.



## Skin to skin

**“Kangaroo care” and “Rooming-in” have never been so cosy, warm and comfortable.**

ASTOPAD DUO310 control unit, optionally with a fully-integrable rechargeable battery.

## Skin to skin

**“Kangaroo care” and “Rooming-in” have never been so cosy, warm and comfortable.**

ASTOPAD DUO310 control unit, optionally with a fully-integrable rechargeable battery.

ASTOPAD DUO310  
ASTOPAD COV070



For “Kangaroo care”, the baby is snugly wrapped in the active **ASTOPAD COV070** warming blanket and can rest against the mother’s skin for hours without body temperature loss due to an exposed back.

ASTOPAD DUO310  
ASTOPAD COV070



For “Rooming-in” or in the baby unit, the active **ASTOPAD COV070** warming blanket can be placed under the baby as a resting surface, and/or over the baby as a cover.

Components	Designation	Use
	<b>ASTOPAD DUO310</b> Control unit	24 hour a day noise-free continuous operation, WxHxD 300x155x130 mm, weight: max. 2.5 kg, 100 - 240 VAC, 50-60 Hz, output voltage 24 Volt. Alarm functions for high / low temperature and cable break. Precise temperature control in 0.5°C increments from 32°C to 39°C. Independent control of two applied parts. Attachable to infusion stands, on the crib or a standard medical rail.
	<b>ASTOPAD COV070</b> Warming blanket 680 x 480 mm <b>COV40070</b> Reusable cover	Safe extra low 24 Volt protective low voltage, flexible and cosy, X-ray permeable, maximum heat output 60 W, carbon fibre heating element controlled by 8 NTC temperature sensors, washable, can be disinfected. Useful as an over or under blanket. Comes with a standard connection extension cable.

## 1 Unit Astopad Bayi

- Control Unit dengan baterai : 1 unit
- Blanket Heating bayi COV070 atau COV105 : 1 pcs
- Cover blanket bayi : 1 pcs
- Instruksi Pengoperasian : 1 pcs
- IV Pole (Optional)

# ASTODIA®

## DIAPHANOSCOPE FOR TRANSILLUMINATION

### ASTODIA®

#### diaphanoscope for transillumination

The ASTODIA diaphanoscope makes it easy to find blood vessels for reliable puncture. Likewise, the ASTODIA enables the identification of air or liquid-filled structures deep below the skin's surface (such as a pneumothorax, hydroceles).

The ASTODIA is particularly suitable for paediatrics and especially for premature and newborn babies. Veins and arterial vessels in the extremities can be clearly visualised for puncture access.

The ASTODIA possesses an orange and red high - power LED with adjustable brightness. The orange light enables sharp contrast, and the red light increases the depth of penetration into the tissue. This is useful for diagnosing pneumothorax or hydroceles.

The enhancements provided by ASTODIA make it possible to routinely use transillumination for difficult-to-visualise vascular conditions.

When placed in a sterile cover, the ASTODIA can also be used for procedures such as the placement of central catheters.



#### Applied parts



DIA 120



DIA 130



#### Spesification

- Angled optics
- Luminous power +++ (red or yellow)
- Dimmability
- Dimensions L x W x H 6,8 x 1,6 x 1,0 cm
- Disinfection +++
- Energy source Battery Rechargeable
- Electric connection during operation 4.8 V

#### 1 Unit Included

- Control Unit : 1 unit
- Hand Piece & Cable : 1 pcs
- Charger : 1 pcs
- Instruksi Pengoperasian : 1 pcs

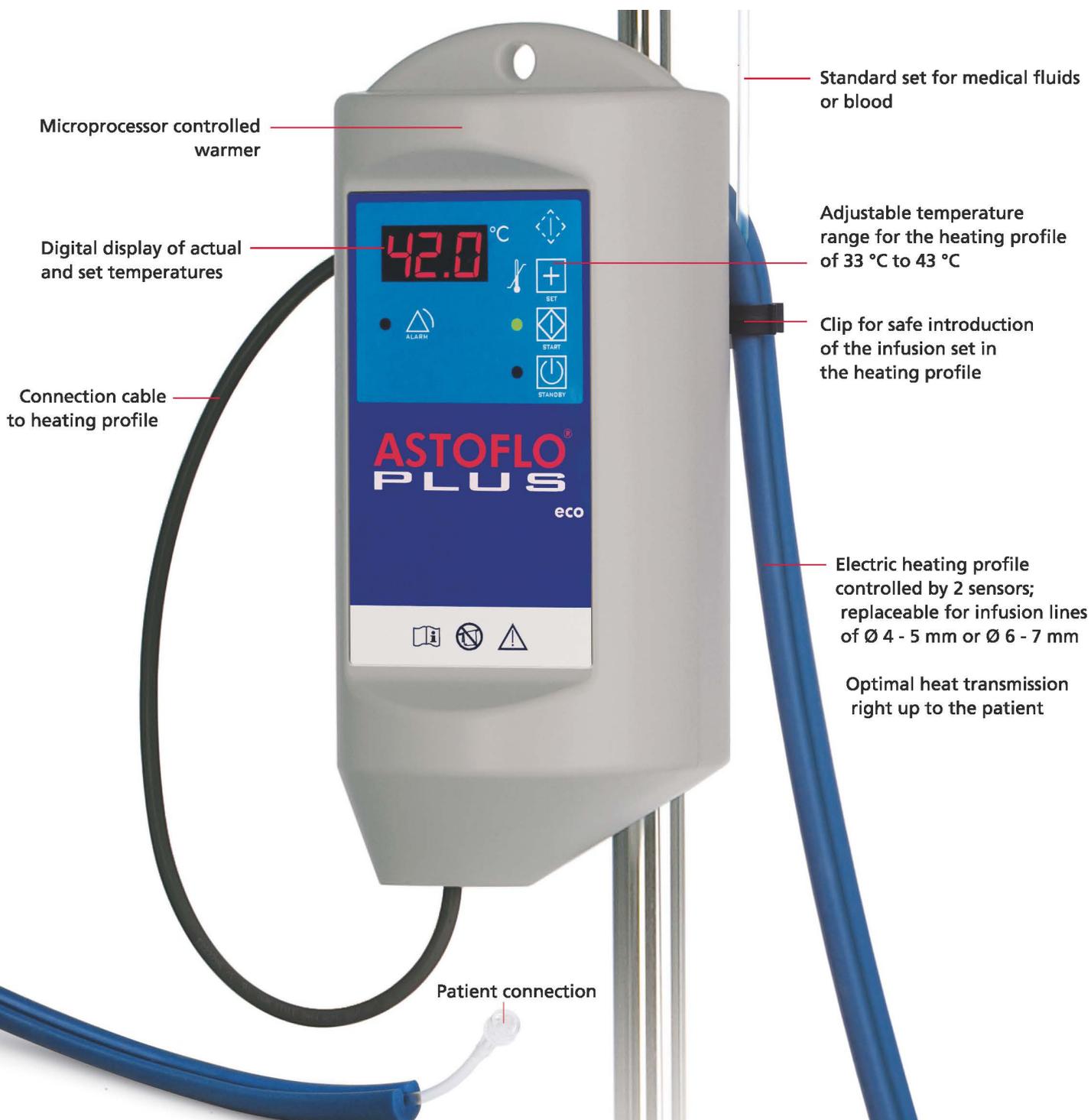
# ASTOFLO® PLUS eco

## BLOOD AND INFUSION WARMER

### ASTOFLO® PLUS eco

blood and infusion warmer

ASTOFLO PLUS ECO is the universal warming device for all infusions and blood products for operating theatres, IC units and all other medical departments. All medical fluids are warmed in the electric heating profile without special disposables being required - in the standard infusion set and kept warm right up to the patient cannula.

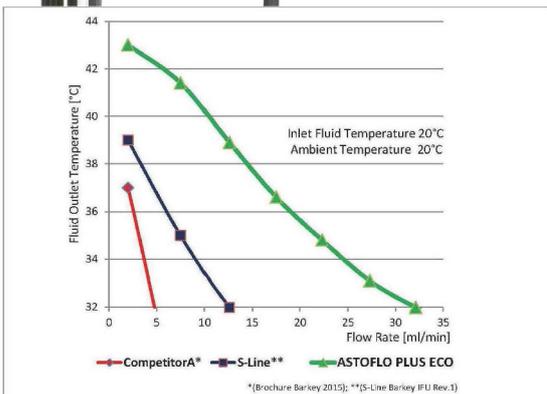


# ASTOFLO<sup>®</sup> PLUS eco

## Blood and Infusion Warmer

The easiest and most economic way to effectively warm all infusions and transfusions!

- The electric heating profile with integrated temperature sensors guarantees optimum warming and maximum safety through flow-dependent control.
- The fluid is actively heated on its way to the patient right up to the patient cannula, through a dry flow process. Solutions which have been pre-warmed externally are kept warm right up to the patient, even at high flow rates.
- Two different heating profiles are available for different medical requirements.
- Profile WP31
  - For all standard infusion and blood sets with an external diameter of approx. 4 mm, in operating theatres, intensive care and ordinary wards.
  - To heat blood return lines in dialysis and during haemofiltration.
  - Profile WP31 is available in lengths of 180 cm.



### 1 Unit Included

- Control Unit : 1 unit
- Cable Warm : 1 pcs
- Instruksi Pengoperasian : 1 pcs
- IV Pole (Optional)





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