

Temperature Management

37°C



tyco

Healthcare

NELLCOR

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Temperature Management- An Introduction

Hypothermia is a serious and often overlooked complication of anaesthesia, surgery and critical care.

Hypothermia occurs in approximately 70% of all surgical patients^{1,2}

Hypothermia can lead to myocardial ischemia

Clinical studies show a strong correlation between hypothermia and myocardial ischemia in elderly patients at risk of coronary artery disease^{3,5}

Hypothermia increases wound infections

Evidence shows that hypothermia may decrease a patient's ability to resist infection^{3,4,6}.

Hypothermia causes coagulation disorders

Hypothermia is associated with a reversible dysfunction of platelets and the coagulation cascade⁷.

Blood loss and blood transfusion requirements are significantly higher in hypothermic patients⁸.

Hypothermia increases oxygen consumption

Hypothermic patients show an increase in oxygen consumption placing significant demands on the cardiovascular system^{1,9}.

Normothermia saves money

Hypothermia complications delay recovery and increase costs¹⁰⁻¹³.

Normothermia saves time

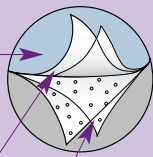
Patients who are normothermic spend less time in the recovery room than hypothermic patients¹⁴.

Tyco Healthcare offer complete solutions;

- Monitor your patient with Mon-a-therm Temperature monitoring devices that provide crucial patient temperature information
- Treat and prevent hypothermia with the WarmTouch convective air patient warming system and the Warmflo* fluid warming system

Rugged Construction

Fabric outer layer eliminates hot plastic surfaces that could contact patient's skin.



Layered construction adds strength, so even minor punctures won't expand, causing the blanket to deflate.

Precision die-cut holes help provide even airflow and a smooth, comfortable surface.

2.1 p.d. Tvirtos sluoksniuotos konstrukcijos audinys, atsparus nežymiesiems mechaniniams pradūrimams, apsaugant antklodę nuo išsileidimo;

WarmTouch

Convective Air Warming Systems

CareDrape & CareQuilt Warming Blankets

2.1 Su mažomis angelėmis išdėstytomis per visą antklodės vienos pusės paviršių, suteikiantį tolygų oro srautą, patogų antklodės paviršių bei optimalų šildymą

Versatile blankets provide efficient heat delivery for optimal patient care.

WarmTouch Blankets are available in 5 convenient sizes to meet all clinical needs.

CareDrape Warming Blankets and CareQuilt Warming Blankets achieve and maintain normothermia in your patients, which minimises post-surgical complications and improves recovery time.

The lighter, stronger material resists tears, punctures and fluids - providing more comfort and better care for your patients.

The precision die-cut holes provide an even airflow optimizing the warming efficiency.

X-Ray transparent: will not interfere with, or affect X-Rays.

2.2 p.d. Pralaidi bei neturinti neigiamo poveikio rentgeno spinduliams,

Latex-free - No latex is used in any of our blanket fabrics, adhesives or packaging. No latex means no allergic skin reactions for your patient.

Unique design - Advanced quilted construction prevents billowing, allowing the blanket to conform to your patient's body, minimizing the risk of it sliding off and increasing warming performance.

Soft and comfortable - Fabric outer layers made of non-woven materials, eliminating hot plastic surfaces that could come in contact with patient's skin

Economical - A wide range of types and sizes to meet your clinical needs.

CareDrape

Warming Blankets for Intraoperative use

These blankets are specifically designed to withstand the demands of the operating theatre environment. Made of a strong, two-ply material, they resist tears, punctures and fluids, yet are soft and flexible to permit custom draping. These three versatile blankets meet the needs of most surgical procedures, reducing inventory to save you money.

CareDrape Upper Body Blanket

- For use during abdominal, urogenital, and lower extremity surgery.
- Covers the upper chest and arms during surgery.
- Dual inlet facilitates optimum blower placement and use with two, one or no arm supports.
- Generous tape length expands draping options.
- Head cover minimise heat loss from the head.
- Size/Weight: 195 cm x 52 cm / 290 g

Description	Ref	Box Qty
CareDrape Upper Body Blanket with head cover	503-0870	12



CareDrape Lower Body Blanket

- For use in chest, cardiac and upper extremity surgery.
- Covers lower extremities and lower abdominal region.
- Generous tape length expands draping options.
- Size/Weight: 145 cm x 85 cm / 305 g

Description	Ref	Box Qty
CareDrape Lower Body Blanket	503-0880	12



CareDrape Cardiac Blanket (Sterile)

This specialized blanket can be used for cardiothoracic surgical procedures to regulate patient temperature perioperatively. Two perforated slits allow easy access to the groin area, while the unique design minimizes air distribution at the patient's feet to maximize temperature regulation. A longer connector and inlet shield protects the sterile environment.

Description	Ref	Box Qty
CareDrape Cardiac Blanket (Sterile)	503-0860	12





CareDrape Paediatric Warming Blanket

- May be used under or over the paediatric patient to help regulate temperature perioperatively.
- Unique under body design provides unrestricted access to surgical site.
- Clear plastic cover traps warm air.
- X-ray transparent material will not affect or interfere with x-rays.
- Multiple inlets facilitate optimal blower placement.
- Size/Weight: 102 cm x 64 cm / 101 g

Description	Ref	Box Qty
CareDrape Paediatric Blanket	503-0850	12



*Infant:
Blanket under patient*



*Infant:
Blanket over patient*



*Paediatric:
Blanket under patient*



*Paediatric:
Blanket over patient*

CareQuilt Full Body Blanket, Adult and Paediatric

- For use in Recovery Rooms, A&E, Intensive Care Units, Burn Units, Obstetrics and Outpatient Surgery.
- For optimum warming, blanket should be in direct contact with the patient's skin.
- Chest access slit provides quick and easy access to chest tubes.
- Access slits facilitate checking of arteries and pulses in foot and lower leg.
- Adult Size /Weight: 183 cm x 114 cm / 310 g
- Paediatric Size /Weight: 145 cm x 76 cm / 165 g
(Suitable for children up to 10 years old.)



Description	Ref	Box Qty
CareQuilt Adult Blanket	503-0810	25
CareQuilt Paediatric Blanket	503-0840	12

WarmTouch 5900 Warming Units For Use With CareDrape & CareQuilt Warming Blankets

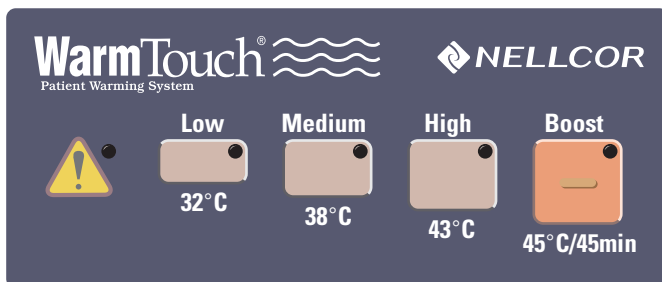
Fast warm-up, quiet operation and optimal temperature ranges make this unit suitable for use in operating theatre, recovery room Intensive Care and A&E, or anywhere else effective patient warming is required. Assure patient safety and comfort when used with CareDrape and CareQuilt blankets, which have been developed as a system with the 5900 to ensure optimal performance.

Key Benefits

- Fast warm-up (38°C in 30 seconds)
- Multiple mounting options: Cart, Bedrail, IV Pole or Floor

Comprehensive range of temperature settings make the 5900 suitable for use in all clinical areas use to maintain normothermia during surgery or in the recovery room or other Critical

- Ideal for:
 - Preoperative area
 - Intra-operative (theatres))
 - Post-operative (recovery
 - ITU
 - A&E



- Easy to use control panel
- Boost setting allows warming of patient at 45°C for 45 minutes
- Boost setting automatically reverts to high setting (43°C) after 45 minutes



Cart



Bedrail



IV Pole



Floor

WarmTouch

Convective Air Warming Systems

Product Specifications

Blankets

	CareDrape/Cardiac Blanket	CareDrape Paediatric	CareQuilt
Size Uninflated	Upper Body: 71cm X 208cm Lower Body: 104cm X 142cm Cardiac: 102cm X 165cm	63cm X 104cm	Adult: 102cm X 165cm Paediatric: 76cm X 145cm
Size Inflated	Upper Body: 61cm X 183cm Lower Body: 86 cm X 132cm Cardiac: 86cm X 135cm	56cm X 89cm	Adult: 84cm x 124cm Paediatric: 69cm X 124cm
Construction	2-ply material consisting of polyethylene film inner layer and non-woven outer layers		
Material Characteristics	Tear, puncture and fluid resistant; comfortable to the touch X-Ray transparent: will not interfere with, or affect X-Rays.		
Air Flow	Quilted design allows uniform airflow distribution		
Latex Allergen	None		

WarmTouch 5900 Warming Unit

Dimensions: Weight: Power Requirements Automatic Temperature Step-down (from Boost to High Temperature) Thermal Protection: Ambient Blower Operating Temperature Range: Over Temperature Alarm Level Protection Against Ingress of Fluids: Air Flow Rate HEPA Filter	38 cm x 41 cm x 28 cm 6.8kgs 220 - 240 VAC, 50 - 60 Hz, 10 A After 45-minutes of continuous use. Thermostat (internal): 50°C (122°F) 18°C - 30°C (64°F - 86°F) 65 dB at 3 meters EN 60601-1, sub-clause 44.6 for class IPX0, ordinary 55 CFM Pore size 0.03 µ, 99.97% efficient
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Description	Ref	Box Qty
WarmTouch 5900	501-5900	1
Replacement Filter	502-2200	1
Nozzle assembly	502-2100	1
Hose assembly	502-2000	1

Warmflo

Fluid Warming System

Warmflo FW588 Fluid Warmer

Warmflo WF-100 & WF-250 Fluid Warming Cassettes

Obtain just the right fluid temperature for your patients

The Warmflo Fluid Warming System uses advanced dry heat technology to deliver fluid at the correct temperature to your surgical patients. And, the single use cassette reduces the risk of cross contamination.

A choice of two warming cassettes meets all your clinical needs.



Warmflo WF-100 Fluid Warming Cassette

The WarmfloFW-588 Fluid Warmer is ideal for all routine clinical situations at a wide range of temperature settings up to 42°C. The dry heat technology of Warmflo Warming System reduces or eliminates potential infection risks associated with systems incorporating a water tank. For added ease of use the WF-250 cassette also comes equipped with a built-in double spike set and a blood filter.



Warmflo WF-250 Fluid Warming Cassette



Warmflo FW588 Fluid Warmer



*Warmflo WF-250
Warming Cassette*



150 µ blood filter



Double spike set

Now fluid warming is CLEAN, SAFE AND SIMPLE

With the Warmflo Fluid Warming System:
Meet your patient needs and your budget with two choices of Warmflo Fluid Warming Cassettes

Warmflo FW588 Fluid Warmer

The Warmflo FW588 Fluid Warmer is ideal for all routine clinical situations at a wide range of temperature settings- up to 42°C. It is designed for use with the Warmflo WF-100 and WF-250 Fluid Warming Cassettes. The FW-588 fits to a standard IV pole for convenience and ease of use. It is designed for use with both blood and IV fluids.

The FW-588 is easy to clean, two button access allows for effortless heater plate cleaning

Warmflo WF-100 and WF-250 Fluid Warming Cassettes

The Warmflo WF-100 Fluid Warming Cassette has a new streamlined design that delivers normothermic fluid at flow rates of up to 125 mL/min. The new Warmflo WF-250 Fluid Warming Cassette warms fluid at flow rates of up to 250 mL/min. for added ease of use the WF-250 cassette also comes equipped with a built-in double spike set and a blood filter.

Extended patient lines and a needleless injection port now come as standard on the WF-100 and WF-250 cassettes



*Warmflo WF-100 Fluid
Warming Cassette*



Needleless injection port

Easy-to-Use Warmflo Fluid Warming System



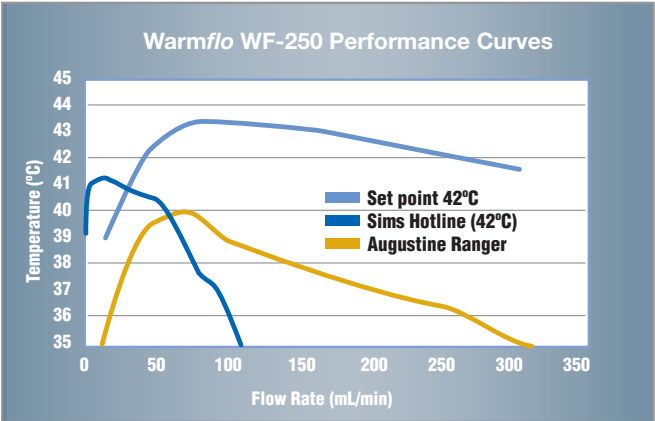
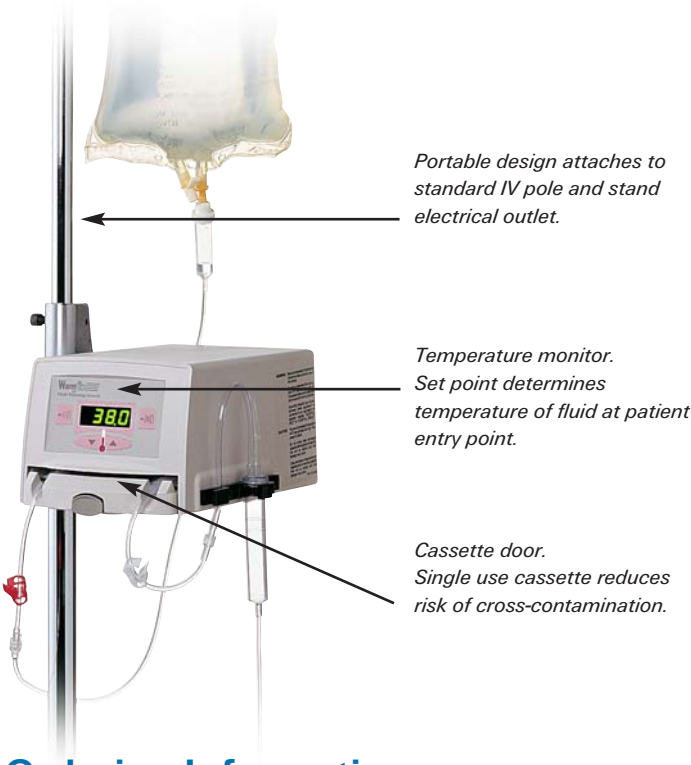
Step One:
Turn unit on.
Slide the WF-100 or WF-250
Fluid Warming Cassette into
the FW588 Warmer



Step Two:
Close the door.



Step Three:
Attach the tubing/spike
fluid bag.
Prime the cassette to
eliminate air.



Ordering Information

Description	Ref	Box Qty
Warmflo Fluid Warmer	FW588	1
Fluid Warming Cassette	WF-100	20
Fluid Warming Cassette with blood filter	WF-250	20
Replacement Filters for WF-250	SF 150	10



Warmflo

Pressure Infusors

Automatic Pressurised Infusion Chamber

Suitable for use with all IV fluid and blood delivery systems. Compatible with a wide range of bottles and all bags. Can be used with Warmflo FW-588 Warming system when higher flow rates and precise control of delivery rates is required.

The fully automatic chamber is simple to use, reliable and permits rapid infusion rates to be achieved. A unidirectional valve system maintains pressure if the chamber is disconnected to allow patient transport. Cleaning is facilitated by the smooth, rounded surfaces minimizing the risks of contamination.

The chamber is equipped with a pressure gauge and regulator as well as an on/off switch to allow precise control over delivery rates.

A hand pump option is also available where a source of compressed gas is not available.

A quick disconnect pipeline is available.

Pressure Infusors Ordering Information

Description	Ref	Box Qty
500ml Warmflo Pressure Infusor	AD-500	1
1000ml Warmflo Pressure Infusor	AD-1000	1
500ml & 1000ml Warmflo Pressure Infusors- Dual Mounted	AD-1500	1
2 X 1000ml Warmflo Pressure Infusors- Dual Mounted	AD-2000	1
AD-1500/AD-2000 pole mount bracket	3240601	1

To order Pressure Infusors with Hand Pump add the suffix HP to the part number.
To order Pressure Infusors with Hand Pump and Disconnect Coupler add suffix HPDC to the part number.

An appropriate outlet connector will be required to connect to the chosen source of compressed gas. A range of connectors is available.

Outlet Connectors for Warmflo Infusors

Description	Ref	Box Qty
Wall outlet oxygen connector	RDO108A	1
Mini Schrader Connector	RDO107	1
Wall Outlet 4 Bar air Connector	RDO108B	1

Mon-a-therm

Temperature Monitoring System

A full line of probes and sensors to safely and accurately monitor patient temperature

Prompt diagnosis and treatment of irregularities in body temperature are essential in avoiding the complications associated with hypothermia. The Mon-a-therm temperature monitoring system offers a complete range of versatile, accurate and cost-effective electronics probes for the measuring core and surface temperatures in all types of patients.

Mon-a-therm temperature monitoring products provide crucial patient temperature information to which care providers can actively respond with WarmTouch and Warmflo active warming therapies.

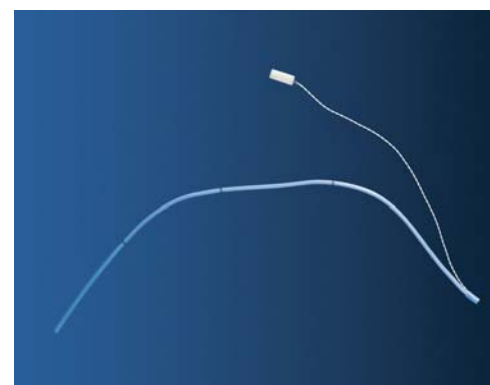
- Dependable: Mon-a-therm temperature monitoring products allow electronic monitoring of central and body surface temperatures at a wide variety of sites
- Adaptable: Mon-a-therm products can be used with the majority of existing monitors
- Complete: A full range of single use temperature probes is available for all applications
- Probes are YSI 400 compatible
- Latex free
- Single use means improved hygiene and minimises risk of cross contamination
- Interface cables for most monitors available

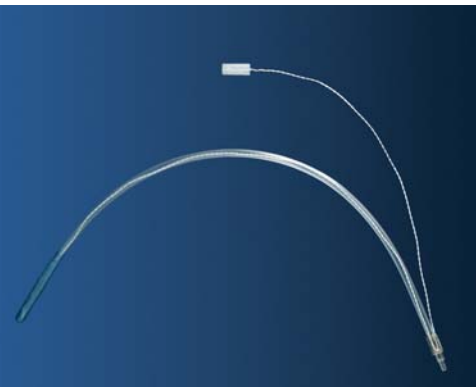


General Purpose Temperature Probe

Ideally located in the lower third or quarter of the oesophagus which will give a good approximation of cerebral temperature. This probe may also be used rectally. The dual purpose nature of this product reduces the need for stocking a variety of products.

Description	Ref	Box Qty
General Purpose Temperature Probe 9Ch	90050	50
General Purpose Temperature Probe 12Ch	90044	50

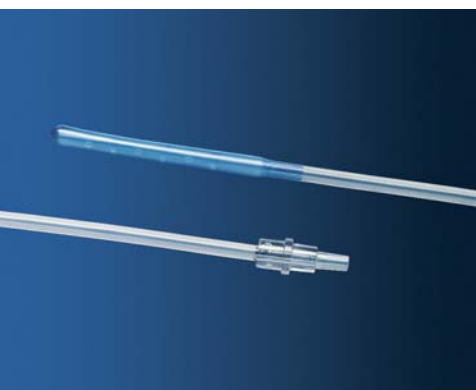




Oesophageal Stethoscope with Temperature Sensor

Temperature measured in the lower oesophagus approximates to cerebral temperature. Provides outstanding heart and breath sound quality and accurate Central temperature measurement.

Description	Size	Ref	Box Qty
Oesophageal stethoscope	9Ch	90049	25
Oesophageal stethoscope	12Ch	90041	25
Oesophageal stethoscope	18Ch	90042	25
Oesophageal stethoscope	24Ch	90043	25



Oesophageal Stethoscope without Temperature Sensor

For maximum acoustical clarity of heart and respiratory sounds.

Description	Size	Length	Ref	Box Qty
Oesophageal stethoscope	9Ch	38cm	503-0051	25
Oesophageal stethoscope	12Ch	46cm	503-0064	25
Oesophageal stethoscope	18Ch	46cm	503-0072	25
Oesophageal stethoscope	24Ch	46cm	503-0080	25



Earpiece for Oesophageal Stethoscope

A simple to use attachment for convenient monitoring of heart and respiratory sounds, away from the patient.

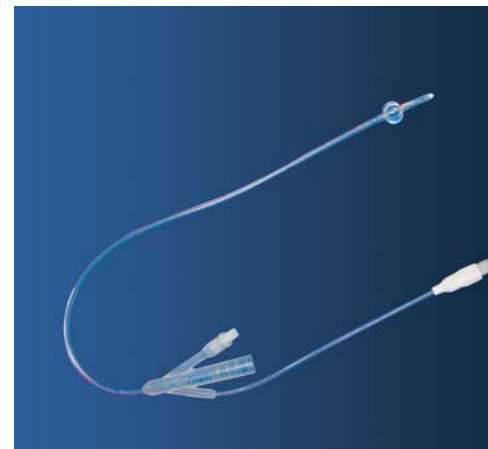
Description	Length	Ref	Qty
Earpiece	100cm	173-01	10

Foley Catheter With Temperature Probe

Measurement in the bladder provides precise core temperature values. Convenient and accurate site to measure temperature in all catheterized patients.

Silicone construction ensures durability and minimises adhesions.

Description	Size	Ref	Box Qty
Foley Catheter with Temperature Sensor	8Ch	90053T	12
Foley Catheter with Temperature Sensor	10Ch	90054T	12
Foley Catheter with Temperature Sensor	12Ch	90055T	12
Foley Catheter with Temperature Sensor	14Ch	90056T	12
Foley Catheter with Temperature Sensor	16Ch	90051T	12
Foley Catheter with Temperature Sensor	18Ch	90052T	12



Skin Temperature Probe

Non-invasive placement with hypoallergenic adhesive

Description	Ref	Box Qty
Skin Temperature Sensor	90045	50



Tympanic Temperature Probe

Inserted in the auditory canal and placed against the tympanic membrane. Tympanic temperature is considered an accurate reflection of core temperature because of the proximity of the vascular supply to the tympanic membrane and the hypothalamic area.

Description	Ref	Box Qty
Tympanic Temperature probe	90058	50





Mon-a-therm Connecting Cables

A wide range of interface cables to allow the use of Mon-a-therm temperature probes with the majority of monitors incorporating a temperature measurement channel is available. For monitors not listed please contact your Tyco representative.

Description	Size	Ref	Box Qty
Thermistor 400 with 1/4" jack plug	5m	502-0400	1
Thermistor 400 with 1/4" jack plug	3m	502-0410	1
Thermistor 400 for use with HP monitors	3m	502-0411	1
Thermistor 400 for use with HP monitors	5m	502-0401	1
Thermistor 400 for use with Siemens SC monitors	5m	502-0405	1
Thermistor 400 for use with Siemens SC monitors	3m	502-0415	1



IncuTemp Skin Temperature Probes

A wide range of disposable skin temperature probes especially designed for use in neonatal incubators to help maintain an optimal thermal environment.

- Five connector types to fit all models of Airshield, Ohmeda, Draeger and other incubators
- Single patient use prevents cross-infection
- High accuracy probes (+/- 0.1°C)
- All IncuTemp devices are used with disposable self-adhesive covers which allow excellent sensor-to-skin contact.

Description	Ref	Box Qty
IncuTemp 1 for use with Airshields incubators/warmers	503-0110	20
IncuTemp 2 for use with Airshields Model C86	503-0111	20
IncuTemp 3 for use with Ohmeda incubators	503-0112	20
IncuTemp 4 for use with Ohmeda Model 190 ASC11	503-0113	20
IncuTemp 5 for use with Dräger incubators	503-0170	20
Adaptor cable for IncuTemp 5	502-0027	1
IncuTemp adhesive disk	503-0114	100



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7. Rohrer M, Natale, A. Effect of hypothermia on the coagulation cascade. *Critical Care Med* 1992;20:1402-1405.
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12. Hines R, Barash PG, Watrous G, et al. Complications occurring in the postanesthesia care unit: survey. *Anesthesia and Analgesia* 1992;74:503-509.
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14. Effects of preinduction and intraoperative warming during major laparotomy. M. Bock, J. Muller, A. Bach, H. Bohrer, E. Martin, J. Motsch. *British Journal of Anaesthesia*, February 1998, Vol 80, No 2, p 159-163.

Codes Summary

WarmTouch Warming unit

	Code	Qty
WarmTouch 5900	501-5900	1
Replacement filter	502-2200	1
Power cable	502-2500	1
Replacement Nozzle	502-2100	1
Hose assembly	502-2000	1

WarmTouch blankets

	Code	Qty	NCP code
CareQuilt, full body	503-0810	25	VCB049
CareQuilt, paediatric	503-0840	12	VCB030
CareDrape, paediatric	503-0850	12	VCB031
CareDrape, paediatric	503-0860	12	VCB032
CareDrape upper body	503-0870	12	VJJ006
CareDrape lower body	503-0880	12	VJJ007
Plastic head cover	542-0001	50	VCB033

Warmflo Fluid Warming System

	Code	Qty	
Warmflo fluid Warmer	FW-588	1	
WF-100 cassette	WF-100	20	FSB642
WF-250 cassette	WF-250	20	FSB643

Warmflo Pressure Infusors

	Code	Qty
500ml capacity with hand pump and removable tubing	AD500HPDC	1
1000ml capacity with hand pump and removable tubing	AD1000HPDC	1
4 bar oxygen probe	RDO108A	1
Mini Schrader oxygen connector	RDO107	1
4 bar air probe	RDO108B	1

Mon-a-therm Temperature Monitoring

General Purpose Probe	Size	Code	Qty
	9Ch	90050	50
	12CH	90044	50
Oesophageal Stethoscope with Temperature Sensor	Size	Code	Qty
	9Ch	90049	25
	12Ch	90041	25
	18Ch	90042	25
	24Ch	90043	25

Oesophageal Stethoscope without Temperature Sensor	Size	Code	Qty
	9Ch	503-0051	25
	12Ch	503-0064	25
	18Ch	503-0072	25
	24Ch	503-0080	25

Earpiece for Oesophageal Stethoscope	Size	Code	Qty
	100 cm	173-01	10

Foley Catheter with Temperature Probe	Size	Code	Qty
	8Ch	90053T	12
	10Ch	90054T	12
	12Ch	90055T	12
	14Ch	90056T	12
	16Ch	90051T	12
	18Ch	90052T	12

Skin Temperature Probe	Code	Qty
	90045	50

Tympanic Temperature Probe	Code	Qty
	90058	50

Mon-a-therm Connecting Cables

	Code	Qty
Thermistor 400 with 1/4" jack plug, 5m	502-0400	1
Thermistor 400 with 1/4" jack plug, 3m	502-0410	1
Thermistor 400 for use with HP monitors, 3m	502-0411	1
Thermistor 400 for use with HP monitors, 5m	502-0401	1
Thermistor 400 for use with Siemens SC monitors, 5m	502-0405	1
Thermistor 400 for use with Siemens SC monitors, 3m	502-0415	1

IncuTemp Skin Temperature Probes

	Code	Qty
IncuTemp 1 for use with Airshields incubators/warmers	503-0110	20
IncuTemp 2 for use with Airshields model C86	503-0111	20
IncuTemp 3 for use with Ohmeda incubators	503-0112	20
IncuTemp 4 for use with Ohmeda Model 190 ASC 11	503-0113	20
IncuTemp 5 for use with Draeger incubators	503-0170	20
IncuTemp cable for use with Draeger incubators	502-0027	1
IncuTemp adhesive disks	503-0114	100

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C-TM-TM01/UK



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