





Gentherm Medical, LLC • 12011 Mosteller Road • Cincinnati, Ohio 45241, U.S.A.

www.gentherm.com

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57128 Rev. T

How to get Technical Help

How to Contact Manufacturer (for Customer Service, Order Placement, or Technical Support):

Gentherm Medical, LLC 12011 Mosteller Road Cincinnati, OH 45241 United States of America Telephone (U.S) 24hr Clinical Support Med Tech Support Fax Website Email

1-800-989-7373 1-513-460-2038 1-888-437-5608 1-513-772-9119 www.gentherm.com medical@gentherm.com

Authorized European Representative:

EC REP CEpartner4U, B.V. Esdoornlaan 13 3951 DB Maarn The Netherlands www.CEpartner4U.com

Before You Call for Service...

To help us better serve you, please have the serial number of your WarmAir®135 unit ready when you call for parts or service. The serial number is located on the back plate of the WarmAir[®]135 unit.

In-Warranty Repair and Parts

WarmAir[®] 135 units are covered by a one-year warranty. To return defective parts or units, obtain a Returned Materials Authorization (RMA) number from our Medical Technical Service department. A WarmAir[®] Model 135 shipping carton will be sent to you, if needed. Extended Warranty Available.

Receiving Inspection

After unpacking the WarmAir[®]135 unit, inspect the system for concealed damage. Retain all packing material and carefully record or photograph any damage. Notify the carrier at once and ask for an inspection (in writing). Failure to do this within 15 days may result in loss of claim. Do not return the equipment to Gentherm Medical. Call our Medical Technical Service department for further instructions.

Important Safety Information

Refer to this manual for instructions and caregiver information. Read and understand all precautionary information before using, prescribing, or servicing the WarmAir®135 unit. See the Operation and Technical Manual for details on how to perform maintenance.

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Symbols



Voltage, Alternating Current

Potential Equalization Connection (Grounding)

Protective Earth (Ground)

Type BF Equipment (per IEC-601-1) (Patient Applied)

Consult instructions for use and/or manual before operating

Over-Temperature Safety Limit

Under-Temperature Safety Limit

Hour Meter

Power On/Off Indicator

Fan Only Selection

Temperature Selection Switches

Low setting: 32.2°C

Medium setting: 37.8°C

High setting: 43.3°C

Separate collection for electrical and Electronic equipment. Dispose of the WarmAir unit per hospital protocol.

CAUTION! Hose Nozzle MUST be connected to a compatible Forced Air Blanket or thermal injury may occur.

WARNING: To prevent tipping when mounting the Model 135 unit to an IV pole, clamp the unit no higher than 44 inches (112 cm) on an IV pole with a minimum 24 inch (61 cm) diameter base. Failure to heed these restrictions may result in IV pole instability, catheter site trauma, and patient/user injury. Note: For instructions on use of the symbols, refer to the "Operating Instructions" section



Insert Hose

Section 1: Safety Precautions

Gentherm Medical, LLC, reserves the right to make changes to the device, which may not be reflected in this manual.

General Description of the WarmAir® 135

The WarmAir[®] 135 unit is a small and compact warming unit designed to supply air at temperatures of ambient, 32.2°C, 37.8°C or 43.3°C to a patient-applied air-distribution device. The settings are termed "Fan Only", "Low", "Medium" and "High", respectively.

Indications for Use

The WarmAir® 135 patient warming system is intended to prevent hypothermia and/or reduce cold discomfort before, during, and after surgical procedures. The thermal regulating system is used to raise a patient's temperature and/or maintain a desired patient temperature through convective heat transfer from the controller to a warm-air-heated blanket. The single-patient use blankets transfer the thermal energy to adult, pediatric or neonate patients to obtain/maintain normal body temperature. It is intended for use by appropriately trained healthcare professionals in clinical environments.

Contraindications

High temperature settings to be used with close patient observation when treating patients with the following conditions:

- Significant peripheral vascular disease, occlusive or diabetic in nature.
- Low cardiac output.
- Marginal cutaneous perfusion.

Do not apply heat to lower extremities during arterial cross-clamping. Thermal injury may occur if heat is applied to ischemic limbs.

	Warnings
•	A Licensed Healthcare Practitioner's order is required for setting temperature and use of equipment. At least every 20 minutes, or as directed by a Licensed Healthcare Practitioner, check the patient's temperature and skin condition of areas in contact with the disposable blanket. Pediatric and temperature-sensitive patients should be checked more frequently. Notify the Licensed Healthcare Practitioner promptly of any change in order to avoid serious injury.
•	Patient temperature depends on ambient temperature and additional sheets or blankets. Reduce or discontinue therapy when therapeutic goal is reached or if vital signs instability occurs. Thermal injury may result. Notify Licensed Healthcare Practitioner immediately of vital signs instability
•	Do not use the WarmAir [®] 135 unit distal to arterial cross clamping. Thermal injury may result.
•	Do not use the WarmAir [®] 135 unit along with High Frequency surgical instruments or endocardial catheters. Electrical shock, thermal injury or electromagnetic interference may result.
No • •	tify the Licensed Healthcare Practitioner promptly if any of the following occur: If the patient's temperature is not responding properly, If the patient's temperature does not reach the prescribed temperature in the prescribed time, or If there is a change in the prescribed temperature range. Failure to inform the Licensed Healthcare Practitioner of the deviation may result in injury to the patient.
•	The warming of transdermal medications (patches) can increase drug delivery, resulting in possibl
	injury to the patient.
•	Do not use the WarmAir [®] Model 135 unit with any blanket or warming cover other than Gentherm
	FilteredFlo [®] Blankets or the Warming Tube [™] . Thermal injury may result .
•	Do not attempt to warm patient without a blanket, i.e. with the hose only. Thermal injury may result
•	Unapproved modifications may cause patient/caregiver injury and/or equipment damage . Do not continue therapy if either the Over-Temperature or Under-Temperature warning light activate or the audible alarm sounds. Do not continue therapy if power cannot be maintained to the unit. Thermal injury may result. Turn the unit off and remove from service.
•	Do not initiate therapy unless the WarmAir [®] 135 unit is securely mounted or injury may result .
•	Always unplug the unit before accessing internal components during service. Failure to unplug the unit could result in electric shock.
•	Do not by-pass ground lug. Electrical Hazards may result.
•	The use of materials of good thermal conductivity, such as water, gel and similar substances, with the WarmAir®135 unit not switched on, can decrease the body temperature of a patient .
•	Thermal injury may occur if heating therapy is applied to ischemic limbs.
•	Do not use the WarmAir [®] 135 unit in the presence of flammable anesthetics. Risk of explosion may result.
•	The WarmAir [®] 135 unit disposables (FilteredFlo [®] Blankets, Warming Tube [™]) are not sterile and are intended for single patient use only. DO NOT sterilize or reprocess these disposables. Thermal injurgand/or cross-contamination may result.
٠	Do not allow the hose to contact the patient. Thermal injury may result.
•	Do not return the WarmAir [®] 135 unit to service without the filter present. Thermal injury may result.
•	Do not use the WarmAir [®] 135 unit without the designated filter in place. Thermal injury or airborn contamination may result.
•	Electrical shock hazard. To avoid risk of electrical shock, disconnect power before servicing.
•	To avoid the risk of electric shock , this equipment must only be connected to a supply mains with protective earth.

	Precautions
	CAUTION: Federal law (U.S.A.) restricts this device to sale by or on the order of a Licensed Healthcare Practitioner.
	Read all instructions provided with Gentherm FilteredFlo $^{\ensuremath{\mathbb{S}}}$ Blankets or the Warming Tube $^{\mbox{\tiny TM}}$ prior to use.
	The surface of the WarmAir®135 unit and Gentherm FilteredFlo® Blanket or Warming Tube™ should be checked for freedom from mechanical damage prior to each application.
	The WarmAir®135 unit is not intended for use in ambient temperatures above 30°C. Maximum contact surface temperature, during normal operation, is 48°C.
	Do not hipot or dielectric test the WarmAir [®] 135 unit. Only apply the rated voltage to the unit. Subjecting the unit to voltages other than the rated voltage may cause damage to the unit. These tests are done only by Gentherm.
	Power interruption will cause the WarmAir [®] 135 unit to shut down, resulting in no therapy to the patient. Follow instructions listed under the "Operation Fundamentals" section of this manual to resume therapy.
	All temperature settings represent temperatures at the end of the hose outlet, not blanket surface temperature.
	Medical electrical equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC table information provided in this manual.
•	Portable and mobile RF communications equipment can affect medical electrical equipment
•	Other cables and accessories may affect EMC performance
•	Avoid stacking or locating close to other equipment according to the EMC tables.
	If a means is needed in retaining a patient either on or under a Gentherm FilteredFlo® Blanket or the Warming Tube [™] , the means should not block the fluid pathways of the WarmAir®135 unit.

Read Before Servicing Equipment

Maintenance and service activities will sometimes overlap. In general, maintenance refers to any activity that does not require a certified technician. Maintenance may be performed by healthcare personnel or by other trained persons.

The following actions are considered maintenance:

- 1. Inspecting, cleaning, and disinfecting the exterior
- 2. Replacing hoses
- 3. Cleaning hoses, blankets

Service refers to any activity that requires a Medical Equipment Service Technician, Certified Biomedical Electronics Technician, or a Certified Clinical Engineer.

The following actions are considered service:

- 1. Equipment or parts replacement
- 2. Repairs
- 3. System testing
- 4. Replacing hoses, cords, and other accessories

The repair, calibration and servicing of the WarmAir[®]135 unit must be performed by qualified Medical Equipment Service Technicians, Certified Biomedical Electronics Technicians, or Certified Clinical Engineers familiar with good repair practices for servicing medical devices in accordance with the instructions contained in the Operation and Technical manual. Improper repair can result in patient or user injury and damage to the WarmAir[®]135 unit. Do not hipot unit. Improper repair may also void the warranty. Reference the Operation & Technical manual for Troubleshooting instructions.

Section 2: Specifications

Physical

Dimensions:	22.2 cm x 22.2 cm x 34.3 cm
Hose Outlet:	1.8m flexible hose
Weight:	6.1 kg
Filtration:	0.2 microns, High Efficiency
Construction:	Impact-resistant plastic case with aluminum sub-structure. None of the WarmAir $^{\circledast}$ System components
	are made with natural rubber latex.

Electrical

WarmAir[®]135 unit is available in 100V, 110-120V or 220-240V:

100V, 50/60 Hz and 110-120V, 50/60Hz units: 1200 VA

15 Amp Circuit Breaker 15' (4.6m) Power Cord (14/3 SJT with Hospital-Grade plug)

220-240V, 50/60Hz units: 1200 VA 7 Amp Circuit Breaker 15' (4.6m) Harmonized Power Cord (H05VV-F 3x1.5mm² cord with CEE 7/7 plug)

220-240V, 50/60Hz units: 1200VA 13 Amp Circuit Breaker 15' (4.6m) British Standard Power Cord (HO5VVF3G1.5mm Molded-on BS1363 fused male plug)

For all units: Under 300 µA earth leakage current Ground resistance 0.2Ω or less Mains Supply Isolation: Two-Pole Mains Switch

Temperature Control System

Control System: Microprocessor and thermistor-based.

	No Heat (ambient temperature)
Temperature Settings as measured at the hose outlet of the device:	32.2°C +4.0°C/ -2.0°C
	37.8°C +4.0°C/ -2.0°C
	43.3°C +4.0°C/ -2.0°C

Operating Environment: Temperature: 15°C to 30°C (59°F to 86°F) Relative Humidity: 20% - 60% Maximum Contact Surface Temperature (during normal operation): 48°C Time to reach 37°C from 23±2°C: Approximately 3 minutes

Maximum Temperature Setting:	43.3°C +4.0°C
Independent Primary Over-Temperature Limit:	$52.0^{\circ}C \pm 3.0^{\circ}C$ as measured at the hose outlet of the device (i.e. where the hose connects to the blanket).
	Audible and visible alarms.
	Heater and blower shutdown. Note: Based on testing, the maximum contact surface temperature of the blanket, when the primary over- temperature limit activates is 45°C ± 3.0°C.
Independent Secondary Over-Temperature Limit:	64°C or less as measured at the hose outlet of the device (i.e. where the hose connects to the blanket).
	Power shutdown. Note: Based on testing, the maximum contact surface temperature of the blanket, when the secondary over- temperature limit activates is 45°C ± 3.0°C.
Independent Under-Temperature Limit:	29.4°C or less as measured at the hose outlet of the device (i.e. where the hose connects to the blanket).
	Audible and visible alarms.
	Heater and blower shutdown. (Heat settings only).
Open/Shorted Sensor Safety:	Audible and visible alarms.

Service Life

The expected service life / lifetime of the WarmAir[®]135 unit is **seven (7) years** from the date of manufacture provided the product is not subject to misuse, negligence, accident or abuse and under the conditions that the device is properly used as intended, and serviced and maintained according to the Operation / Technical Manual provided with the device.

Approvals

<u>Electrical</u>



MODEL 135, MEDICAL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH UL60601-1, IEC60601-1 AND ASTM F2196-02. ALSO CLASSIFIED WITH RESPECT TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH CSA 22.2 NO. 601.1

EMC COMPATIBILITY TABLES ACCORDING TO IEC 60601-1-2

Guidance and manufacturer's declaration – electromagnetic emissions				
	The WarmAir, Model 135 is intended for use in the electromagnetic environment specified below. The customer or the user of this unit should assure that it is used in such an environment.			
Emissions tests	Compliance	Electromagnetic environment – guidance		
RF emissions CISPR 11	Group 1	The WarmAir, Model 135 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.		
RF emissions CISPR 11	Class A	The WarmAir, Model 135 is suitable for use in all establishments other than domestic and those directly connected to the public low- voltage power supply network that supplies buildings used for		
Harmonic emissions IEC 61000-3-2	Class A	domestic purposes.		
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	Fluctuations and Flicker emissions testing is not required or 120 or 100 Volt units		

	e that it is used in such an er		t specified below. The customer or the user of the WarmAir,
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst	±2 kV for power supply lines	±2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
IEC 61000-4-4	±1 kV for input/output lines	±1 kV for input/output lines	
Surge	±1 kV differential mode	±1 kV differential mode	Mains power quality should be that of a typical commercial or hospital environment.
IEC 61000-4-5	±2 kV common mode	±2 kV common mode	
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% U _T (>95% dip in U _T) for 0,5 cycle 40% U _T (60% dip in U _T) for 5 cycles 70% U _T (30% dip in U _T) for 25 cycles <5% U _T (>95% dip in U _T) for 5 s	<5% U _T (>95% dip in U _T) for 0.5 cycle 40% U _T (60% dip in U _T) for 5 cycles 70% U _T (30% dip in U _T) for 25 cycles <5% U _T (>95% dip in U _T) for 5 s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the WarmAir, Model 135 requires continued operation during power mains interruptions, it is recommended that the WarmAir, Model 135 be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

	135 is intended for use in the e sure that it is used in such an er		nt specified below. The customer or the user of the WarmAir,
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
			Portable and mobile RF communications equipment should be used no closer to any part of the WarmAir, Model 135, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
			Recommended separation distance
Conducted RF	3 Vrms	3 Vrms	$d = 1, 2\sqrt{P}$
IEC 61000-4-6	150 kHz to 80 MHz		
Radiated RF	3 V/m	3 V/m	$d = 1, 2\sqrt{P}$ 80 MHz to 800 MHz
IEC 61000-4-3	80 MHz to 2,5 GHz		$d = 2,3\sqrt{P}$ 800 MHz to 2,5 GHz
			where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).
			Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, ^a should be less than the compliance level in each frequency range. ^b
			Interference may occur in the vicinity of equipment marked with the following symbol:
			(((•)))
NOTE 1: At 80 MHz a	and 800 MHz, the higher freque	ency range applies.	
0		tions. Electromagnetic pro	pagation is affected by absorption and reflection from
^a Field strengths radio, AM and environment d location in whi be observed to	FM radio broadcast and TV bro lue to fixed RF transmitters, an ich the WarmAir, Model 135 is	badcast cannot be predicate electromagnetic site surve used exceeds the applicabl normal performance is obs	rellular/cordless) telephones and land mobile radios, amateur ed theoretically with accuracy. To assess the electromagnetic y should be considered. If the measure field strength in the e RF compliance level above, the WarmAir, Model 135 should erved, additional measures may be necessary, such as re-

Recommended separation distances between portable and mobile RF communications equipment and the WarmAir, Model 135

The WarmAir, Model 135 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the WarmAir, Model 135 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the WarmAir, Model 135 as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of	Separation distance according to frequency of transmitter m			
transmitter	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2,5 GHz	
W	$d = 1, 2\sqrt{P}$	$d = 1, 2\sqrt{P}$	$d = 2, 3\sqrt{P}$	
0,01	0,12	0,12	0,23	
0,1	0,38	0,38	0,73	
1	1,2	1,2	2,3	
10	3,8	3,8	7,3	
100	12	12	23	

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

Note 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Supplemental certification or EMC information available on request.

<u>European</u>

CE0344 In compliance with the Medical Device Directive (93/42/EEC)

For Use with Patient-Applied Parts

FilteredFlo[®] Blankets and Warming Tube[™]

All Gentherm disposables are:

- 1. Made from non-woven polypropylene or polyethylene.
- 2. Transparent to X-ray and imaging systems.
- 3. For single-patient use only.
- 4. Not sterile unless otherwise indicated on product.

Note: Do not sterilize or reprocess Gentherm disposables.

Shipping and Storage Conditions

The WarmAir[®]135 unit can be transported through normal shipping methods via ground, air, or water when packaged in its original packaging material. During transportation and storage, packaging should not be exposed to conditions that fall out of the ranges below:

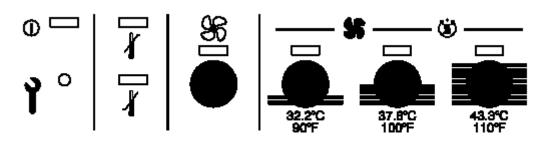
- **1.1.1** Temperature: -40°C to 50°C (-40°F to 122°F)
- **1.1.2** Humidity: 5% to 95%

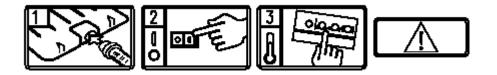
WarmAir accessories and additional technical information is available in the Operation & Technical Manual

Section 3: Operating Instructions

Control Panel and Operation Label

The control panel and operation label for the WarmAir®135 unit are located on the top of the unit.





Operation Fundamentals

The lower portion of the control panel gives a brief description of operating the WarmAir[®] System. Read all instructions and safety precautions included with the FilteredFlo[®] Blanket or Warming TubeTM.

For all WarmAir[®] Systems



Insert hose. Insert the free end of the flexible hose into the air inlet port of the FilteredFlo[®] Blanket or Warming Tube[™]. Make sure the hose is pushed in beyond the raised areas on the fitting.

Power Unit On. Using the rocker switch on the side of the unit, depress the "I" side to activate power to the unit. Depressing the "O" side deactivates power.

The blower and heater will not activate until a temperature setting has been selected.



Select Temperature. Activate the desired temperature setting using the four touch-sensitive buttons, applying the following instructions.

Selecting Temperature and Using the Control Panel

The control panel is located on top of the unit and is composed of four pressure sensitive touch switches, each having a LED display. The external features on the control panel of the WarmAir[®] unit are described as follows:



<u>Power On/Off Indicator.</u> This LED light will indicate that the unit is on. A temperature selection can now be made. Power is toggled at the rocker switch on the side of the unit.



Temperature Selection Switches. Four temperature selection switches on the control panel allow the caregiver to select a temperature setting for the patient.



Fan Only Depressing this switch will activate the unit to draw in ambient room temperature air and deliver it to the patient via the disposable blanket. The heater will <u>not</u> be activated. The temperature delivered to the patient will depend on the current room temperature during operation of the unit. (Air temperature delivered may be up to three degrees higher than the ambient temperature due to heat from the blower motor.) The LED will be activated to indicate that the unit is in the ambient temperature mode.



Low Temperature. Depressing this switch will activate the unit to draw in room air, heat the air to 32.2°C +4.0°C/ -2.0°C and deliver it to the patient via the disposable blanket. The LED will be activated to indicate that the unit is in the low temperature mode.



<u>Medium Temperature</u>. Depressing this switch will activate the unit to draw in room air, heat the air to $37.8^{\circ}C + 4.0^{\circ}C / -2.0^{\circ}C$ and deliver it to the patient via the disposable blanket. The LED will be activated to indicate that the unit is in the medium temperature mode.



<u>High Temperature</u>. Depressing this switch will activate the unit to draw in room air, heat the air to 43.3°C +4.0°C/-2.0°C and deliver it to the patient via the disposable blanket. The LED will be activated to indicate that the unit is in the high temperature mode. **The high temperature setting is to be used with close patient observation**.

\triangle	CAUTION!	Do not attempt to warm patient with hose only. Operating the WarmAir [®] 135 unit without a blanket may result in patient injury.

\triangle	CAUTION!	High temperature setting to be used with close patient observation. Reduce air temperature or discontinue therapy when the therapeutic goal is reached or if vital signs instability occurs.

 CAUTION!	High temperature setting to be used with close patient observation when treating patients with the following conditions:
	a. Significant peripheral vascular disease, occlusive or diabetic in nature.
	b. Low cardiac output.
	c. Do not apply to ischemic limbs, e.g., during arterial cross-clamping.

<u>Over-Temperature Safety Limit</u>. This LED indicator light will indicate an overtemperature condition (an audible alarm will also sound). Immediately discontinue use and remove from service if activated.

<u>Under Temperature Safety Limit</u>. This LED indicator light will indicate an undertemperature condition (an audible alarm will also sound). Immeidately discontinue use and remove from service if activated.

<u>Hour Meter.</u> This LED indicator will alert the caregiver that 500 hours of service has transpired and the unit is due for its regular preventative maintenance, including changing the filter.

Mounting the WarmAir[®] Unit

The WarmAir[®]135 unit must be mounted securely before it is used. There are three ways to mount the unit:

- **1. IV Pole Clamp** The unit may hook onto a secure, vertical IV pole of no less than 2.2 cm and no more than 2.86 cm in diameter.
- 2. Mounting Bracket The unit may hook onto a secure bed rail or footboard up to 3.8 cm thick.
- **3. Anti-slip Feet** The unit may be placed on a table or stand near the patient. Do not place the unit in bed with the patient.

WARNING!	To prevent tipping when mounting the Model 135 unit to an IV pole, do not clamp the unit higher than 112 cm on an IV pole with a minimum 61 cm diameter base. When hooking the unit on a rail, make sure the unit cannot tip to a point where it may fall off the rail.
	When placing the unit on a table or stand near a patient, make sure the unit is not located in an area where it can be knocked off by caregivers or passing traffic.
	Failure to heed these restrictions may result in IV pole instability, catheter site trauma, and patient or user injury.

Section 4: Preventive Maintenance

Cleaning the Unit

Maintenance and service activities will sometimes overlap. In general, maintenance refers to any activity that does not require a certified technician. Maintenance may be performed by healthcare personnel or by other trained persons. The following actions are considered maintenance:

- 1. Inspecting, cleaning, and disinfecting the exterior
- 2. Replacing hoses
- 3. Cleaning hoses, blankets

Service refers to any activity that requires a Medical Equipment Service Technician, Certified Biomedical Electronics Technician, or a Certified Clinical Engineer. The following actions are considered service:

- 1. Equipment or parts replacement
- 2. Repairs
- 3. System testing
- 4. Replacing hoses, cords, and other accessories

For cleaning and disinfecting always use conventional hospital-approved, topical equipment cleaners, and disinfectants. Thoroughly wipe down device with a damp cloth to remove any residue from cleaning solutions. Ensure that all inaccessible cracks and crevices on the WarmAir are reached during cleaning.

CAUTION!	Disconnect from power when cleaning the Warming Unit. Allow
	to air dry thoroughly. Do not use dripping wet cloth or otherwise
	allow water to seep into electrical areas of the WarmAir®135
	unit.

Hour Meter

The WarmAir[®]135 unit is equipped with a built-in timer that will activate the "Hour Meter" light after 500 hours of use. This is an indication that routine maintenance is required. See Operation & Technical Manual for instructions. Instructions on replacing the WarmAir[®]135 air filter are also located in the Operation & Technical Manual.

WarmAir[®]135 unit has approval in accordance with IEC 80601-2-35. These standards are based on contact surface temperature of the blanket being 48°C or less. Temperatures referenced at the hose outlet do not represent contact surface temperatures of the blanket due to temperature loss through the hose and dispersion through the blanket.

Worldwide Order Placement

Telep	hone
(U.S.)	24hr Clinical Support
Fax	
Med 1	Гech Support

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