



Risk Analysis Report

Product TC400

Date

Product Type
Overhead Heater

MDD Class IIb

Model Type TC400

Product Description
Manual fixed height overhead heater

Manufacturer Address
Viamed Ltd.,
15 Station Road,
Crosshills
Keighley ,
West Yorkdhire BD20 7DT

We hereby declare that the statements made herein are correct and valid

Company: Viamed Ltd. 15, Station Road, Crosshills, Keighley, West Yorkshire, BD20 7DT.

Signature

Name J.S.Lamb Director

Date 13 January 1998

Level of Risk Product: HeadBox CEFILEVEN1441 Risk analysis

Insignificant 4: Tolerable 3: Significant 2: Catastrophic 1

IR = Initial Risk RR = residual Risk

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Ref	Hazard	Part of Equipment which pose risks	I R	Design solution Adopted	R R	Document referenced
C2	ENERGY		4		4	
C2.1	Electricity		4		4	
C2.2	Heat	Case	3	Warning label	4	
C2.3	Mechanical Force		4		4	
C2.4	Iononizing Radiation		4		4	
C2.5	Non Ionizing Radiation		4		4	
C2.6	Electromagnetic Fields		4		4	
C2.7	Moving Parts		4		4	
C2.8	Suspended Masses		4		4	
C2.9	Patient Support Failure		4		4	
C2.10	Pressure (Vessel rupture)		4		4	
C2.11	Acoustic pressure		4		4	
C2.12	Vibration		4		4	
C2.13	Magnetic Fields (MRI)		4		4	
C3	BIOLOGICAL		4		4	
C3.1	Bio-Burden		4		4	
C3.2	Bio-Contamination		4		4	
C3.3	Bio-Incompatibility		4		4	
C3.4	Incorrect Output (Substance/energy)		4		4	
C3.5	Incorrect Formulation (Chemical Composition)		4		4	
C3.6	Toxicity		4		4	
C3.7	Cross Infection		4		4	
C3.8	Pyrogenicity		4		4	
C3.9	Inability to Maintain Hygienic Standards		4		4	
C3.10	Degradation		4		4	
C4.	ENVIRONMENTAL		4		4	
C4.1	Electromagnetic Interference		4		4	
C4.2	Inadequate supply of Power or Coolant		4		4	

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Ref.	Hazard	Part of Equipment which pose risks	4	Design solution Adopted	4	Document referenced
C4.3	Likelihood of Operation outside Prescribed Environmental Conditions		4		4	
C4.4	Incompatibility with other Devices		4		4	
C4.5	Accidental Mechanical Damage		4		4	
C4.6	Contamination due to Waste Products and or Device Disposal		4		4	
C5	DEVICE USE		4		4	
C5.1	Inadequate Labelling		4		4	
C5.2	Inadequate Operating Instructions		4		4	
C5.3	Inadequate Specification of Accessories		4		4	
C5.4	Inadequate Specification of Pre-Use Checks		4		4	
C5.5	Over-complicated Operating Instructions		4		4	
C5.6	Unavailable or Separated Operating Instructions		4		4	
C5.7	Use by Unskilled /untrained Personnel		4		4	
C5.8	Reasonable Foreseeable Abuse		4		4	
C5.9	Insufficient Warning of Side Effects		4		4	
C5.10	Inadequate Warnings of Hazards Likely With Re-use of Single Use Devices		4		4	

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Ref.	Hazard	Part of Equipment which pose risks	4	Design solution Adopted	4	Document referenced
C5.11	Incorrect Measurement and other Metrological Aspects		4		4	
C5.12	Incorrect Diagnosis		4		4	
C5.13	Erroneous Data Transfer		4		4	
C5.14	Misrepresentation of Results		4		4	
C5.15	Incompatibility with Consumables /accessories / other Devices		4		4	
C6	FUNCTIONAL FAILURE MAINTENANCE and AGEING		4		4	
C6.1	Inadequacy of Performance Characteristics for the Intended Use		4		4	
C6.2	Lack of ,or Inadequate Specification for Maintenance including Post Maintenance Functional Tests		4		4	
C6.3	Inadequate maintenance		4		4	
C6.4	Lack of Adequate Determination of End of Device Life		4		4	
C6.5	Loss of Mechanical Integrity		4		4	
C6.6	Inadequate Packaging (contaminationand/or Deterioration of the Device)		4		4	
C6.7	Improper Use	Height	3	Warning label	4	

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Risk Analysis

TC400 Series Overhead baby Warmers

Intended Use

To create low level heat around a newborn baby to reduce heat loss from the patient. The heater is manually controlled and cannot exceed 400 Watts output.

There are four versions available all using the same heater module.

The structure is an electric Heater element in a metal enclosure

Behind the element is a reflector and in front a metal grill.

There are three areas of risk.

1) Electric Shock.

 This is only possible if;

- a. The case is removed with the unit switch on
- b. Wiring failure where wires are disconnected and comes into contact with the enclosure.
- c. The element is touched. This can only happen with the use of a long thin conductor.

2) Patient Overheat.

 This may occur on maximum power only if the warning labels are disregarded and the patient is placed too near to the heater

 Warnings are attached to the stand.

3) User Overheat.

 The distance between the heater and the patient is also the working area and heat can affect the user's head.

 The grill can become hot to the touch

 Warnings are placed on the heater unit.

4. Physical Injury

 Due to the low distance between the heater and the patient it is possible for the user's head to come into contact with the heater enclosure.

5. Component failure

Failure of any component will leave the heater either OFF or at 100% output

The 400 watts at 100% at 27 ins has been shown to be safe.