Item Number RT24-02-023ME

PRESSURE RELIEF MATTRESS SYSTEM WITH PUMP

Mattress shall support patients up to 200 kg.

1. Mattress

Mattress cell configuration shall consist of:

1.1 One or more static head cells that must be replaceable

1.2 Alternating cells along the length of the mattress, that must be replaceable

1.3 The cell construction shall feature low air loss through micro perforations creating a osmotic gradient moving vapour away from the skin

1.4 The mattress shall provide a lift of approximately 135 mm

1.5 The mattress shall be of modular design allowing for easy and cost effective repairs

1.6 The mattress shall fit on any hospital bed

1.7 The alternating operating cycle shall be variable up to 10 minutes (approximately)

1.8 The mattress shall have a automatic sensor pad, continually adjusting pressures to optimal level according to patient weight, build and position

1.9 The mattress shall have a single hand action, CPR release and deflate within 15 sec

2. Cover

2.1 The mattress cover shall be two way stretch and loose fitting

2.2 The cover shall be water resistant

2.3 The cover shall be vapour permeable

2.4 The cover shall be bacteriostatic, fungistatic and antimicrobial

2.5 The cover shall resist development of mould and mildew

2.6 The cover shall be completely removable

2.7 The cover shall be fire retardant

3. Performance

3.1 Interface pressure measured shall be below 20 mmHg for 50% of the cycle time

3.2 Highest interface pressure shall be 45 mmHg reducing to 5 mmHg during the cycle time

4. Pump

4.1 The pump shall be ergonomically designed, slimline and unobtrusive

4.2 The pump shall be whisper quiet and vibration free

4.3 The pump shall have a carry handle

4.4 The pump shall have a recessed control panel to prevent accidental operation

4.5 The pump shall have a integral hanging bracket ensuring pump can be fixed to most beds

5. Multiway tube-set

5.1 Connecting and disconnecting of tubing shall be a single handed operation

5.2 Tubing shall be anti-kinking preventing blockage

5.3 Tube-set shall be interchangeable thus eliminating incorrect connection

6. Alarm system

6.1 Pump shall be able to distinguish between genuine alarms and transitory patient movement

6.2 Low pressure alarm: audible and visual

6.3 High pressure alarm: audible and visual

6.4 Power failure alarm: audible and visual

6.5 Pump fault alarm: audible and visual

6.6 Mute button to silence audible alarms

6.7 Alarm conditions to be recorded in memory for diagnostic purposes

7. Power supply

7.1 The unit shall operate from 220/ 240 V/50Hz mains supply without a transformer and tolerate a 10% variation in voltage

7.2 The unit shall have a built in rechargeable battery for alarm indication only

8 Dimensions: Pump

8.1 Length: ± 350 mm

8.2 Height: ± 200 mm

8.3 Depth: ± 100 mm

8.4 Operating cycle: variable, 10 minutes

8.1.5 Pump shall comply with internationally recognized safety standards

9. Dimensions: Mattress Overlay

9.1 Length: ± 2 000 mm

9.2 Max height at edges: ± 135 mm

9.3 Width: ± 850 mm

9.4 Cell height inflated: ± 135 mm