A new generation in immersion therapy created to reduce costs and improve patient outcomes — an alternative to air-fluidized therapy. Designed with features not found in any other mattress.
Freedom Medical’s WAVE mattress with SmartWave Technology provides effective immersion/pulsation therapy combined with continuous low air loss relief. The WAVE constantly senses and maintains the optimal therapeutic setting, automatically adjusting and readjusting for the patient. It’s the most effective means of multi-zoned alternating low interface pressure therapy in the market today.

## Side-by-side feature comparison to Dolphin Fluid Immersion Simulation® System (FISS)*

The superiority of the WAVE mattress system versus the Dolphin FISS is evident in the following side-by-side comparison of product features.

<table>
<thead>
<tr>
<th>Therapy/Feature</th>
<th>WAVE</th>
<th>Dolphin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accommodates bariatric patients</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Alternating pressure</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Antibacterial cover</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Auto firm</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Auto Fowler Sensor</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Available as mattress replacement</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Cleanable w/disinfectants</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Computerized control</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Fit flat deck and step deck</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Fluid proof cover</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Immersion</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Independent pressure zones</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Lock out control</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Low air loss</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Microclimate controlled environment</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Moisture-vapor permeable cover</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Pan mode (flatten center of mattress)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Portable</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Pulsation</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>500 lb or more capacity</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

*Fluid Immersion Simulation® is a registered trademark of Joerns Healthcare, LLC.
Product benefits

- Improves patient outcomes and reduces costs
- Reduces patient management time and maximizes patient contact hours through user-friendly, plug-and-play technology
- Provides versatility – the mattress fits all flat deck and step deck bed frames up to a 1,000-lb capacity
- Addresses moisture and temperature issues of the skin through low air loss therapy with microclimate control
- Provides effective immersion/pulsation therapy with true low air loss relief with the WAVE support surface of urethane coated nylon air cushions and five automated pressure zones
- User-friendly control panel enables the caregiver to customize settings to the patient’s weight, height (BMI) easily
- Eliminates patient “bottoming out” via the Auto Fowlers Sensor which automatically detects patient’s Fowlers position and inflates mattress to 50% higher than the set pressure
- Deflates rapidly for CPR with quick disconnect connector

Support surface

- Therapeutic support surface is made of high-quality urethane coated nylon air cushions and the 16-20 cell system provides effective immersion therapy with true low air loss relief
- Mattress maintains five self-adjusting zones
- Mattress coverlet is made of low-friction and low-shear force material and is liquid proof and highly vapor permeable
- Lightweight support surface can be stored and transported easily
Control unit

- Auto-sensing control unit – just enter patient weight and height, and the multi-zoned therapy self-adjusts to the optimal therapeutic setting
- Effective static, alternating pressure, pulse or combination therapies
- Continuous low air loss relief
- High airflow blower, 45 +/- 5 CFM (1,275 liters per minute)
- Auto Fowlers Sensor automatically calculates patient’s Fowlers position and will not bottom out

Control panel

- Display current mode, various times, weight and height
- Pulsation, variable duration setting from 4-90 sec
- Real-time pressure monitoring (mmHg)
- Total lock out
- Pan mode - provides greater patient access during procedure
- CPR release - magnetic connector provides ultra quiet operation
- Manual override system
- Fowlers release
- Alarm
- Power Fail
- Smart Wave Technology™
- Freedom Medical
- User-friendly 4 x 20 cm digital LCD panel
Pressure mapping

The WAVE mattress is an immersion/pulsation therapy surface providing true low air loss and a dynamic change in pressure while maintaining the lowest interface pressure possible.

Pressure mapping studies were completed utilizing a control patient, male, 180 lbs., 69” tall in two positions, laying flat and head elevated at 30 degrees (two most common scenarios). Upon updating the appropriate patient information into the WAVE control unit, the SmartWave Technology calculated the data and made a recommendation of the optimal therapeutic immersion/pulsation setting of L=13mmhg and H=17mmhg. The mattress interface pressure will never exceed the therapeutic high setting unless the Auto Fowlers Sensor is activated or the auto firm feature is activated.

Mapping (flat lying) indicates the WAVE mattress maintained interface pressure within recommended therapeutic range (13~17mmhg) throughout the course of the study.

Mapping (HOB at 30 degrees) indicates the WAVE mattress maintained interface pressure within the recommended therapeutic range (13~17mmhg) for the majority of the study and never exceeded capillary closing pressure of 32mmhg.

About Freedom Medical

Freedom Medical is a leading provider of electronic medical equipment and related services to hospitals, alternate site healthcare providers and EMS transport organizations throughout the United States and other countries.

Our mission is to become the outsourced resource to healthcare providers to assist them in managing their biomedical equipment costs in a declining reimbursement environment.

We offer our customers the true freedom of choice for their capital equipment needs. Prior to site delivery, trained biomedical specialists inspect all equipment. Documentation is provided showing that all equipment meets or exceeds Joint Commission standards. Local offices nationwide are maintained to provide premiere local service.

Products and services include equipment rentals, specialty beds (e.g. enclosure beds), equipment programs (e.g. bariatric mobility), repair and services and supplies.
WAVE Spec Sheet

IMMERSION/PULSATION, LOW AIR LOSS SYSTEM FEATURES

CONTROL UNIT

- High flow (40 CFM) air output and quiet operating control unit. Max flow mode inflates mattress in 10~20 seconds depending on the size of the mattress. Has 15-minute max flow timer
- State-of-the-art microcontroller technology unit for accurate patient comfort pressure values and dynamic times
- Highly visible and bright backlit 4 x 20 character LCD digital display panel displaying current mode, pulse time, countdown timer and desired patient comfort pressure level
- Ergonomically designed and easy to operate. Patient comfort control and mode parameter setting buttons to set mode parameters and comfort levels
- 3~31mmHg pressure levels of patient comfort control with bar graph display
- Therapy (non-pulsing) mode
- PULSE mode frequency from 1 to 99 minutes adjustable pulse pressure times. Pulse duration setting from 4 sec to 90 sec, providing a dynamic change in pressure
- Alarm silence mode (AS) to mute audio chime
- Integrated handle/hanger for easy carrying and hanging the control unit from the footboard of the bed
- 14’ long detachable 16 AWG hospital grade power cord
- Durable and rugged 1/2” flow magnetic connector for quick connection and disconnection (CPR deflation)
- Control unit has a short circuit/over voltage protection with dual fused IEC connector

SUPPORT SURFACE MATTRESS

- Self-contained five pressure zone mattress replacement systems with easily detachable components for cleaning
- Mattress consists of detachable urethane coated nylon taffeta, flame retardant/water repellent, mildew resistant, low friction and low shear, 8” high (inflated) lateral tubular 20~21 air cushions with holes for low air loss
- Coverlet consists of detachable zippered or strapped highly breathable urethane coated, 70 denier nylon, flame retardant/water repellent, highly vapor permeable, anti-microbial, low friction and low shear quilted reusable top sheet
- 2” convoluted safety foam enclosed in the base to support the patient in the event of loss of air pressure in the mattress
- The mattress has a magnetic connector hose assembly with easy-to-use quick connect and disconnect connector

ACCESSORIES

- WAVE MS8 Mattress System
- WAVE MS Mattress System
- WAVE RSB Raised Side Bolster System
- WAVE B39 Bariatric Mattress System
- WAVE B42 Bariatric Mattress System
- WAVE B48 Bariatric Mattress System
- WAVE B54 Bariatric Mattress System
- WAVE B60 Bariatric Mattress System
- WAVE B76 Bariatric Mattress System
- WAVE Universal Mattress System (UMS)


Note: To place an order or if you have any questions regarding the WAVE control unit and its warranties, please call Freedom Medical customer service at 1-800-784-8849, email: info@freedommedical.com

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