3M™ Bair Hugger™ System vs. Competitive systems
Mistral-Air® System by Stryker
Temperature Distribution¹ – Adult Full Over Body Blanket

3M™ Bair Hugger™ System
Model 775 (120V, 60 Hz) warming unit
and Model 300 blanket

**Blanket Temperatures¹**
- Greatest: 41.8°C
- Lowest: 37.1°C*
- Mean: 39.9°C*

**Heat Transfer Rate²**
- Q-Value: 67.7 Watts*

Mistral-Air® System
Model 1100 (120V, 60 Hz) warming unit
and Model MA0220 blanket

**Blanket Temperatures¹**
- Greatest: 41.8°C
- Lowest: 36.4°C*
- Mean: 38.1°C*

**Heat Transfer Rate²**
- Q-Value: 41.7 Watts*

*Denotes a statistically significant difference represented by a P (probability) value below 0.05

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Mistral-Air® System by Stryker
Temperature Distribution¹ – Adult Upper Body Blanket

3M™ Bair Hugger™ System
Model 775 (120V, 60 Hz) warming unit and Model 522 blanket

<table>
<thead>
<tr>
<th>Blanket Temperatures¹</th>
<th>Greatest: 41.8°C*</th>
<th>Lowest: 40.0°C*</th>
<th>Mean: 40.9°C*</th>
</tr>
</thead>
</table>

Heat Transfer Rate²
Q-Value: 67.0 Watts*

Mistral-Air® System
Model 1100 (120V, 60 Hz) warming unit and Model MA0260 blanket

<table>
<thead>
<tr>
<th>Blanket Temperatures¹</th>
<th>Greatest: 42.4°C*</th>
<th>Lowest: 36.1°C*</th>
<th>Mean: 39.8°C*</th>
</tr>
</thead>
</table>

Heat Transfer Rate²
Q-Value: 35.6 Watts*

*Denotes a statistically significant difference represented by a P (probability) value below 0.05
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Mistral-Air® System by Stryker
Temperature Distribution¹ – Adult Lower Body Blanket

3M™ Bair Hugger™ System
Model 775 (120V, 60 Hz) warming unit
and Model 525 blanket

Greatest: 41.9°C
Lowest: 39.3°C
Mean: 40.9°C

Heat Transfer Rate²
Q-Value: 93.2 Watts*

Mistral-Air® System
Model 1100 (120V, 60 Hz) warming unit
and Model MA0250 blanket

Greatest: 42.2°C
Lowest: 39.2°C
Mean: 40.7°C

Heat Transfer Rate²
Q-Value: 52.0 Watts*

*Denotes a statistically significant difference represented by a P (probability) value below 0.05

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Mistral-Air® System by Stryker
Temperature Distribution¹ – Adult Underbody Blanket

**3M™ Bair Hugger™ System**
Model 775 (120V, 60 Hz) warming unit and Model 635 blanket

Blanket Temperatures¹
Greatest: 42.1°C*
Lowest: 36.5°C*
Mean: 39.3°C*

**Mistral-Air® System**
Model 1100 (120V, 60 Hz) warming unit and Model MA0400 blanket

Blanket Temperatures¹
Greatest: 41.0°C*
Lowest: 33.7°C*
Mean: 36.4°C*

*Denotes a statistically significant difference represented by a P (probability) value below 0.05

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2. 3M data on file. 3M LAB-SUPPORT-05-233217

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Mistral-Air is a trademark of The Surgical Company International B.V.
Warm Touch™ System by Medtronic/Covidien

3M completed testing to compare 3M™ Bair Hugger™ System vs. the Covidien WarmTouch™ system

• Measured temperature distribution of blankets and warming units\(^1\)
• Measured the amount of heat transferred from the blankets and warming units\(^2\)

3M™ Bair Hugger™ Forced-Air Warming therapy demonstrated a uniform distribution of temperature in each of the three blanket styles evaluated\(^1\)

Testing demonstrates 3M™ Bair™ Hugger™ therapy provides 1.4 times more heat transfer than the WarmTouch system\(^2\) because:

• More air flow is provided by the 3M™ Bair Hugger™ Warming Unit as compared to the WarmTouch warming unit\(^2\)
• Bair Hugger blankets contain more perforations, which allow more warm air to reach the patient\(^1;2\)

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1. 3M data on file. Testing performed under IEC Standard 80601-2-35, which does not require the use of a mannequin. Testing performed by 3M using Bair Hugger Model 775 (120V, 60Hz) and Covidien WT6000 (120V, 60Hz) warming units.
3. WarmTouch is a trademark of Covidien registered in the U.S. Patent and Trademark office and certain other countries.
Warm Touch™ System by Medtronic/Covidien
Temperature Distribution Results – Full Body Blanket

<table>
<thead>
<tr>
<th>Contact Surface Temperature (CST)</th>
<th>Bair Hugger™ Therapy</th>
<th>WarmTouch System**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greatest CST*</td>
<td>41.8°C</td>
<td>42.1°C</td>
</tr>
<tr>
<td>Lowest CST</td>
<td>37.1°C</td>
<td>34.7°C</td>
</tr>
<tr>
<td>Mean CST</td>
<td>39.9°C</td>
<td>39.3°C</td>
</tr>
</tbody>
</table>

* Denotes a statistically significant difference represented by a P (probability) value below 0.05

** The WarmTouch WT6000 (120V, 60Hz) warming unit has a “High” set-point temperature of 47°C as compared to the Bair Hugger Model 775 (120V, 60Hz) warming unit, which has a “High” set-point of 43°C.

3M data on file. Testing performed under IEC Standard 80601-2-35, which does not require the use of a mannequin. Testing performed by 3M using Bair Hugger Model 775 warming unit (120, 60Hz) with a Bair Hugger Model 300 full body blanket, and Covidien WarmTouch WT6000 (120V, 60Hz) warming unit with a WarmTouch Model 5030810 full body blanket.

WarmTouch is a trademark of Covidien registered in the U.S. Patent and Trademark office and certain other countries.
### Warm Touch™ System by Medtronic/Covidien

Temperature Distribution Results – Upper Body Blanket

<table>
<thead>
<tr>
<th>Contact Surface Temperature (CST)</th>
<th>Bair Hugger™ Therapy</th>
<th>WarmTouch System**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greatest CST*</td>
<td>41.8°C</td>
<td>42.1°C</td>
</tr>
<tr>
<td>Lowest CST</td>
<td>40.0°C</td>
<td>36.3°C</td>
</tr>
<tr>
<td>Mean CST</td>
<td>40.9°C</td>
<td>39.6°C</td>
</tr>
</tbody>
</table>

* Denotes a statistically significant difference represented by a P (probability) value below 0.05

** The WarmTouch WT6000 (120V, 60Hz) warming unit has a “High” set-point temperature of 47°C as compared to the Bair Hugger Model 775 (120V, 60Hz) warming unit, which has a “High” set-point of 43°C.

3M data on file. Testing performed under IEC Standard 80601-2-35, which does not require the use of a mannequin. Testing performed by 3M using Bair Hugger Model 775 warming unit (120, 60Hz) with a Bair Hugger Model 522 upper body blanket, and Covidien WarmTouch WT6000 (120V, 60Hz) warming unit with a WarmTouch Model 5030870 upper body blanket.

WarmTouch is a trademark of Covidien registered in the U.S. Patent and Trademark office and certain other countries.
Warm Touch™ System by Medtronic/Covidien

Temperature Distribution Results – Lower Body Blanket

<table>
<thead>
<tr>
<th>Contact Surface Temperature (CST)</th>
<th>Bair Hugger™ Therapy</th>
<th>WarmTouch System**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greatest CST*</td>
<td>41.9°C</td>
<td>42.2°C</td>
</tr>
<tr>
<td>Lowest CST</td>
<td>39.3°C</td>
<td>37.3°C</td>
</tr>
<tr>
<td>Mean CST</td>
<td>40.9°C</td>
<td>39.9°C</td>
</tr>
</tbody>
</table>

* Denotes a statistically significant difference represented by a P (probability) value below 0.05

** The WarmTouch WT6000 (120V, 60Hz) warming unit has a “High” set-point temperature of 47°C as compared to the Bair Hugger Model 775 (120V, 60Hz) warming unit, which has a “High” set-point of 43°C.

3M data on file. Testing performed under IEC Standard 80601-2-35, which does not require the use of a mannequin. Testing performed by 3M using Bair Hugger Model 775 warming unit (120, 60Hz) with a Bair Hugger Model 525 lower body blanket, and Covidien WarmTouch WT6000 (120V, 60Hz) warming unit with a WarmTouch Model 5030880 lower body blanket.

WarmTouch is a trademark of Covidien registered in the U.S. Patent and Trademark office and certain other countries.
Cocoon System by Care Essentials
Temperature Distribution\(^1\) – Adult Full Over Body Blanket

### 3M™ Bair Hugger™ System
Model 775 (120V, 60 Hz) warming unit and Model 300 blanket

- **Blanket Temperatures\(^1\)**
  - Greatest: 41.8°C*
  - Lowest: 37.1°C*
  - Mean: 39.9°C*

- **Heat Transfer Rate\(^2\)**
  - Q-Value: 67.7 Watts*

### COCOO System
Model CWS 4000 (120V, 60 Hz) warming unit and Model CLM 0101 blanket

- **Blanket Temperatures\(^1\)**
  - Greatest: 40.7°C*
  - Lowest: 34.8°C*
  - Mean: 37.4°C*

- **Heat Transfer Rate\(^2\)**
  - Q-Value: 42.5 Watts*

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\(^1\) Denotes a statistically significant difference (p < 0.05) between the Bair Hugger™ System and the COCOON system.

1. 3M data on file. In vitro study performed without body weight. Contact surface temperature testing performed under IEC Standard 80601-2-35, which does not require the use of a mannequin. Testing performed by 3M using Bair Hugger Model 775 (120V, 60Hz) and Cocoon CWS 4000 (120V, 60Hz) warming units.

Cocoon System by Care Essentials
Temperature Distribution\(^1\) – Adult Upper Body Blanket

\textbf{3M™ Bair Hugger™ System}
Model 775 (120V, 60 Hz) warming unit and Model 522 blanket

\begin{itemize}
  \item Blanket Temperatures\(^1\)
    \begin{itemize}
      \item Greatest: 41.8°C*\(^\circ\)
      \item Lowest: 40.0°C*\(^\circ\)
      \item Mean: 40.9°C*\(^\circ\)
    \end{itemize}
  \item Heat Transfer Rate\(^2\)
    \begin{itemize}
      \item Q-Value: 67.0 Watts*\(^\circ\)
    \end{itemize}
\end{itemize}

\textbf{COCOON System}
Model CWS 4000 (120V, 60 Hz) warming unit and Model CLM 0104 blanket

\begin{itemize}
  \item Blanket Temperatures\(^1\)
    \begin{itemize}
      \item Greatest: 40.8°C*\(^\circ\)
      \item Lowest: 35.7°C*\(^\circ\)
      \item Mean: 38.4°C*\(^\circ\)
    \end{itemize}
  \item Heat Transfer Rate\(^2\)
    \begin{itemize}
      \item Q-Value: 30.5 Watts*\(^\circ\)
    \end{itemize}
\end{itemize}

\(^*\)Denotes a statistically significant difference (p < 0.05) between the Bair Hugger™ System and the COCOON system

1. 3M data on file. In vitro study performed without body weight. Contact surface temperature testing performed under IEC Standard 80601-2-35, which does not require the use of a mannequin. Testing performed by 3M using Bair Hugger Model 775 (120V, 60Hz) and Cocoon CWS 4000 (120V, 60Hz) warming units.

Cocoon System by Care Essentials
Temperature Distribution¹ – Adult Lower Body Blanket

3M™ Bair Hugger™ System
Model 775 (120V, 60 Hz) warming unit and Model 525 blanket

Blanket Temperatures¹
Greatest: 41.9°C*
Lowest: 39.3°C*
Mean: 40.9°C*

Heat Transfer Rate²
Q-Value: 93.2 Watts*

43°C
39°C
36°C
34°C
32°C

43°C
39°C
36°C
34°C
32°C

COCOON System
Model CWS 4000 (120V, 60 Hz) warming unit and Model CLM 0102 blanket

Blanket Temperatures¹
Greatest: 40.0°C*
Lowest: 35.8°C*
Mean: 37.7°C*

Heat Transfer Rate²
Q-Value: 50.0 Watts*

¹Denotes a statistically significant difference (p < 0.05) between the Bair Hugger™ System and the COCOON system


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Performance Comparison Testing Results

3M completed testing to compare 3M™ Bair Hugger™ System vs. Snuggle Warm® convective warming system (Smiths Medical)

- Measured temperature distribution of blankets and warming units
- Measured the amount of heat transferred from the blankets and warming units

3M™ Bair Hugger™ System demonstrated a uniform distribution of temperature in each of the four blanket styles evaluated

Testing demonstrates 3M™ Bair Hugger™ System provides between 1.5 to 1.7 times more heat transfer than the Smiths Medical system because:

- More air flow is provided by the 3M™ Bair Hugger™ Warming Unit as compared to the Smiths Medical Equator® warming unit
- Bair Hugger™ blankets contain more perforations, which allow more warm air to reach the patient

1. 3M data on file. Testing performed under IEC Standard 80601-2-35, which does not require the use of a mannequin. Testing performed by 3M using Bair Hugger Model 775 (120V, 60Hz) and Smiths Medical EQ5000 (120V, 60Hz)

EQUATOR and Snuggle Warm are trademarks of the Smiths Medical family of companies registered in the U.S. Patent and Trademark office and certain other countries.
Snuggle Warm® convective warming system

Temperature Distribution Results – Underbody Blanket

<table>
<thead>
<tr>
<th>Contact Surface Temperature (CST)</th>
<th>Bair Hugger™ System</th>
<th>Smiths Medical System**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greatest CST*</td>
<td>42.1°C</td>
<td>43.2°C</td>
</tr>
<tr>
<td>Lowest CST*</td>
<td>36.5°C</td>
<td>33.1°C</td>
</tr>
<tr>
<td>Mean CST*</td>
<td>39.3°C</td>
<td>38.2°C</td>
</tr>
</tbody>
</table>

* Denotes a statistically significant difference represented by a P (probability) value below 0.05

** The Smiths Medical Equator EQ5000 (120V, 60Hz) warming unit has a “High” set-point temperature of 44°C as compared to the Bair Hugger Model 775 (120V, 60Hz) warming unit, which has a “High” set-point of 43°C.

3M data on file. Testing performed under IEC Standard 80601-2-35, which does not require the use of a mannequin. Testing performed by 3M using Bair Hugger Model 775 warming unit (120, 60Hz) with a Bair Hugger Model 635 full access underbody blanket, and Smiths Medical Equator EQ5000 (120V, 60Hz) warming unit with a Snuggle Warm Model SW2113 underbody blanket.

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Snuggle Warm® convective warming system

Temperature Distribution Results – Full Body Blanket

<table>
<thead>
<tr>
<th>Contact Surface Temperature (CST)</th>
<th>Bair Hugger™ System</th>
<th>Smiths Medical System**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greatest CST</td>
<td>41.8°C</td>
<td>42.4°C</td>
</tr>
<tr>
<td>Lowest CST*</td>
<td>37.1°C</td>
<td>35.4°C</td>
</tr>
<tr>
<td>Mean CST*</td>
<td>39.9°C</td>
<td>39.1°C</td>
</tr>
</tbody>
</table>

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** The Smiths Medical Equator EQ5000 (120V, 60Hz) warming unit has a “High” set-point temperature of 44°C as compared to the Bair Hugger Model 775 (120V, 60Hz) warming unit, which has a “High” set-point of 43°C.

3M data on file. Testing performed under IEC Standard 80601-2-35, which does not require the use of a mannequin. Testing performed by 3M using Bair Hugger Model 775 warming unit (120, 60Hz) with a Bair Hugger Model 300 full body blanket, and Smiths Medical Equator EQ5000 (120V, 60Hz) warming unit with a Snuggle Warm Model SW2001 full body blanket.

EQUATOR and Snuggle Warm are trademarks of the Smiths Medical family of companies registered in the U.S. Patent and Trademark office and certain other countries.
Snuggle Warm® convective warming system
Temperature Distribution Results – Upper Body Blanket

<table>
<thead>
<tr>
<th>Contact Surface Temperature (CST)</th>
<th>3M™ Bair Hugger™ System</th>
<th>Smiths Medical System**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greatest CST*</td>
<td>41.6°C</td>
<td>44.1°C</td>
</tr>
<tr>
<td>Lowest CST*</td>
<td>40.0°C</td>
<td>37.0°C</td>
</tr>
<tr>
<td>Mean CST*</td>
<td>40.9°C</td>
<td>40.7°C</td>
</tr>
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** The Smiths Medical Equator EQ5000 (120V, 60Hz) warming unit has a “High” set-point temperature of 44°C as compared to the Bair Hugger Model 775 (120V, 60Hz) warming unit, which has a “High” set-point of 43°C.

3M data on file. Testing performed under IEC Standard 80601-2-35, which does not require the use of a mannequin. Testing performed by 3M using Bair Hugger Model 775 warming unit (120, 60Hz) with a Bair Hugger Model 522 upper body blanket, and Smiths Medical Equator EQ5000 (120V, 60Hz) warming unit with a Snuggle Warm Model SW2003 upper body blanket.

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Snuggle Warm® convective warming system
Temperature Distribution Results – Upper Body Blanket

<table>
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</tr>
<tr>
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<td>39.3°C</td>
<td>38.2°C</td>
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<tr>
<td>Mean CST</td>
<td>40.9°C</td>
<td>41.1°C</td>
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** The Smiths Medical Equator EQ5000 (120V, 60Hz) warming unit has a “High” set-point temperature of 44°C as compared to the Bair Hugger Model 775 (120V, 60Hz) warming unit, which has a “High” set-point of 43°C.

3M data on file. Testing performed under IEC Standard 80601-2-35, which does not require the use of a mannequin. Testing performed by 3M using Bair Hugger Model 775 warming unit (120, 60Hz) with a Bair Hugger Model 525 lower body blanket, and Smiths Medical Equator EQ5000 (120V, 60Hz) warming unit with a Snuggle Warm Model SW2004 lower body blanket.

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Since **1987**

3M™ Bair Hugger™ System has been leading the industry in experience and expertise for solutions to help maintain normothermia.

More than **200 million patients** have been warmed by Bair Hugger™ System.

More than **80%** of all U.S. hospitals utilize 3M forced-air warming products to maintain normothermia.

Over **170 published studies** document forced-air warming's clinical effectiveness.

Add it all up...

And you'll find that 3M™ Bair Hugger™ System provides trusted solutions and expertise to meet virtually any patient warming need.

Our team of experts welcomes the opportunity to provide safe and effective patient warming solutions that help to enhance your patient experience and help improve your total cost of care.