

# Sedens 500

Seat Cushion with Battery Power

Pressure Mapping



# Pressure Mapping of Sedens 500

**“Use a pressure redistribution cushion for preventing pressure injuries in people at high risk who are seated in a chair/wheelchair for prolonged periods, particularly if the individual is unable to perform pressure relieving maneuvers”<sup>1</sup>**

Pressure Area Index (PAI) is used as an indicator to evaluate the performance of Sedens 500 under different therapy modes. The index is generated from the pressure mapping system.

**Equipment Used:** The XSENSOR X3 Display Medical Mattress System

**Software Used:** Xsensor X3 medical V6

**User Weight:** 60 Kg

**Method:** Each test is conducted over a 20-minute period during which the average, peak and minimum pressures are recorded.

**Pressure Area Index (PAI):** This is a method used to measure the interface pressure of the surface. The PAI is calculated as the proportion of sensors that register interface pressures values.<sup>2</sup>

## Sedens 500 Seat Cushion with Battery Power

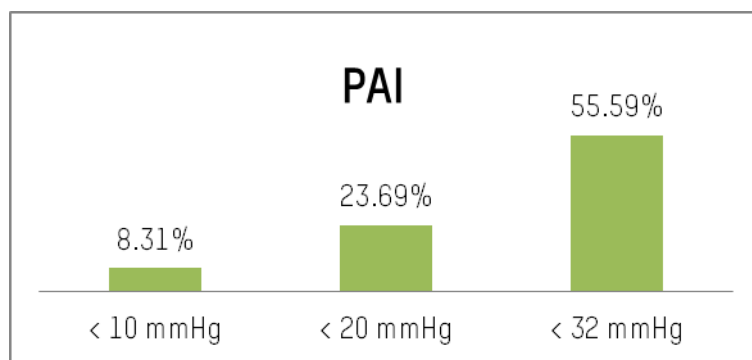
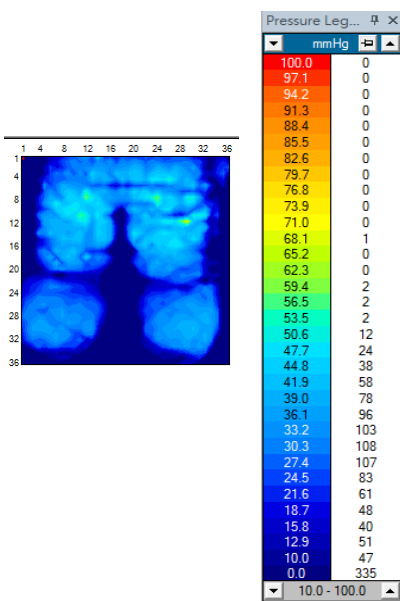


## Product therapy modes

### Alternating Mode

**“Assess the relative benefits of using an alternating pressure air cushion for supporting pressure injury healing in individuals who are seated in a chair/wheelchair for prolonged periods, particularly if the individual is unable to perform pressure relieving maneuvers.”<sup>3</sup>**

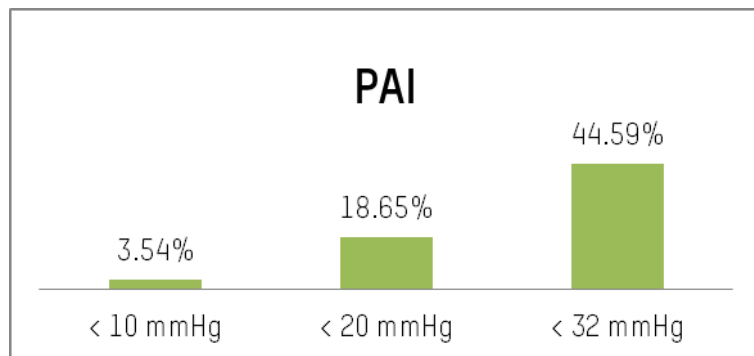
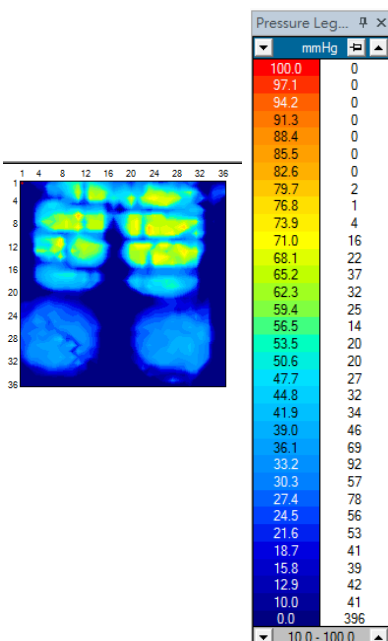
Sedens 500 offers an alternating mode (1-in-2 alternating) and alternately inflates and deflates air cells allowing pressure redistribution and encourage tissue reperfusion.



**PAI:** Almost 10% of the surface area is lower than 10 mmHg, more than 20% of that is under 20 mmHg and nearly 55% of which is below 32 mmHg.

### Continuous Low Pressure (CLP)

Sedens 500 provides a constant static surface in lower pressure with a greater contact area for patients to be immersed and enveloped better.



**PAI:** Almost 20% of the surface area is under 20 mmHg and nearly 45% of which is below 32 mmHg.

**References:**

1. National Pressure Ulcer Advisory Panel, European Pressure Ulcer Advisory Panel and Pan Pacific Pressure Injury Alliance: Prevention and Treatment of Pressure Ulcers: Clinical Practice Guideline. (2019). Perth, Australia: Cambridge Media. Section 10:Support Surfaces: Recommendation 7.12. Page 173.
2. Kenney L , Rithalia SVS . 1999. Mattress & bed resource file: assessment of support surfaces. J Wound Care (Suppl);Part 2: 1-8.
3. National Pressure Ulcer Advisory Panel, European Pressure Ulcer Advisory Panel and Pan Pacific Pressure Injury Alliance: Prevention and Treatment of Pressure Ulcers: Clinical Practice Guideline. (2019). Perth, Australia: Cambridge Media. Section 10 : Support Surfaces: Recommendation 7.13. Page 173

[www.apexmedicalcorp.com](http://www.apexmedicalcorp.com)

**Apex Medical Corp.**

No. 9, Min Sheng St., Tu-Cheng,

New Taipei City, 23679, Taiwan

T +886 2 2268 5568

F +886 2 2268 6525

[marketing@apexmedicalcorp.com](mailto:marketing@apexmedicalcorp.com)

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