SOMNUS LAB SLEEP PAD

IS

USER MANUAL

1.Product Overview

1.1 Product Name

Somnus Lab Sleep Pad

1.2 Design Concept & Key Features

Designed to enhance your sleep by regulating the temperature of your sleep environment, Somnus Lab Sleep Pad addresses the needs of hot sleepers, offering a cool and comfortable sleeping experience.

1.3 Package Contents

You will receive two boxes containing the complete product set:

◉ Base Unit Box:



Base Unit × 1



Power Cord × 1



Draining Tool × 1



Safety & Warrant Booklet x 1

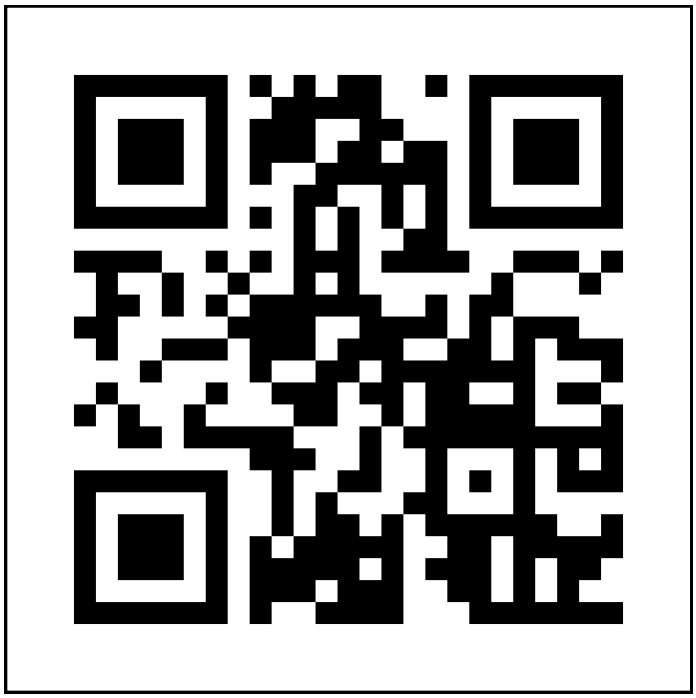
◉ Pad Box:



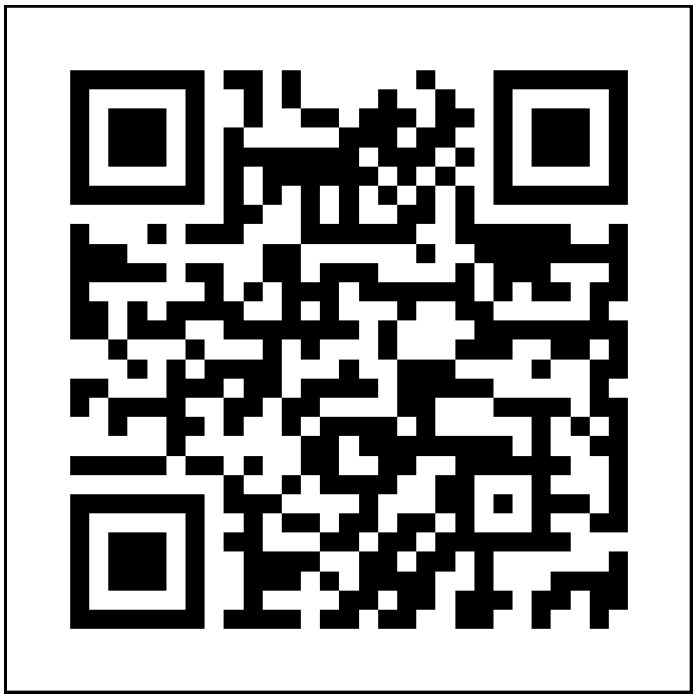
Sleep Pad × 1

1.4 App and Support Resources

App Download QR Code



Tutorial Video QR Code



2.Safety Information

◉ Not a Medical Device:

This product is not intended for diagnosis, treatment, or monitoring of medical conditions.

◉ Operating Environment:

Operates between 15°C and 35°C (59°F to 95°F). Keep ventilation openings clear and unobstructed.

◉ Children Usage:

This appliance can be used by children aged 8 years and above, and by persons with reduced physical, sensory, or mental capabilities if properly supervised and instructed. Children must not play with the appliance. Cleaning and maintenance must not be performed by children without supervision.

◉ Electrical Safety:

- Use only the specified power source and voltage indicated on the product label.
- If the power cord or plug is damaged, stop using the product and contact authorized service personnel.
- Unplug the unit during thunderstorms or when unused for extended periods.

◉ Power Cord Care:

- Avoid placing heavy objects on the power cord.
- Do not pull or twist the cord. Always unplug by holding the plug.
- Keep the cord away from heat sources and sharp edges.

◉ Cleaning Instructions:

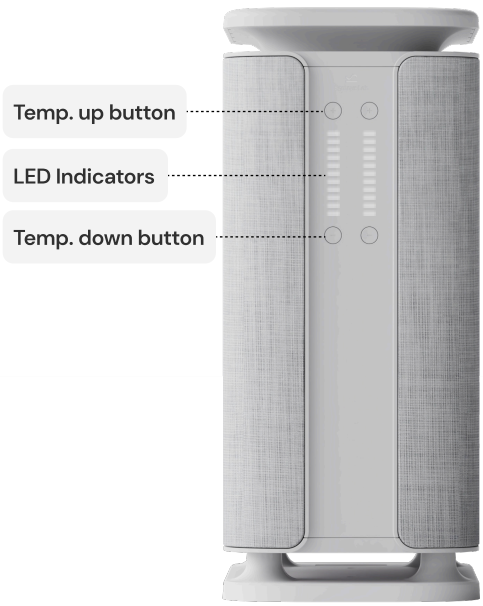
- **Base Unit:** Wipe with a soft, dry cloth.
- **Pad:** Do not dry clean, bleach, or iron. Follow specific care symbols provided.

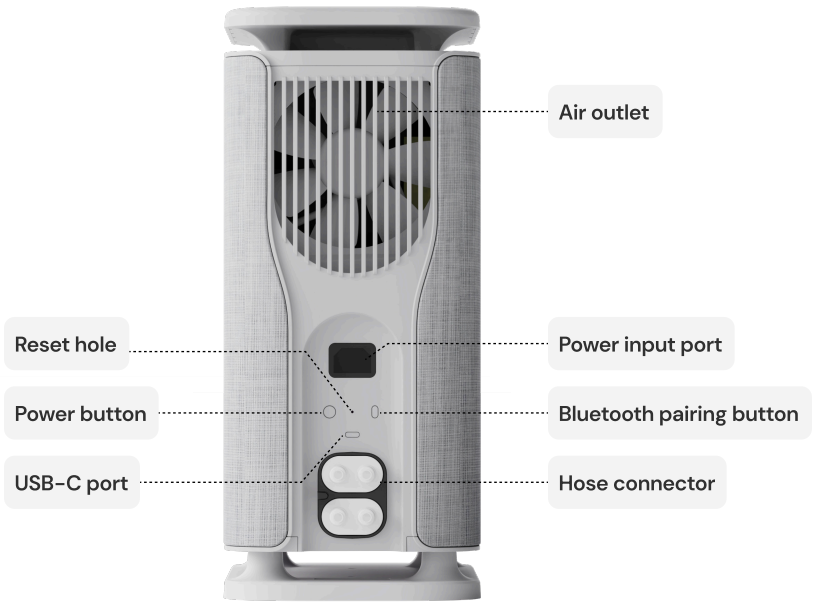
◉ Do Not Disassemble:

For your safety and optimal performance, do not attempt to disassemble or modify the product yourself.

3. Product Structure & Components

3.1 Product Diagram







3.2 Technical Specifications

Base Unit	
Dimensions:	410 x 170 x 390 mm (16.14 x 6.69 x 15.35 inches)
Housing:	High-grade ABS with matte finish
Weight:	8.5 kg
Water Capacity:	~2000 ml (68 oz.)
Power Rating:	300W Peak (typical use much lower, depending on settings)
Input Voltage:	100-240V~ (Universal Voltage, works worldwide)
Recommended ambient temperature:	15 – 35°C (59–95°F)
Device temperature setting range:	12 – 42°C (54 – 108°F)
Connectivity:	Wi-Fi 2.4 GHz (802.11 b/g/n), Bluetooth 5.0
Noise level:	30–35 dB(A) at 30 cm during steady operation

Safety Protection:	Displays errors and pauses operation if the unit detects a fault
Warranty:	2 years
Certifications:	FCC, CE, RCM, UKCA, RoHS, WEEE

Sleep Pad	
Pad Weight:	8kg (EU Super King)
Design:	Fitted sheet style for a secure fit
Mattress Depth Compatibility:	Fits mattresses up to 37 cm (15 in)
Water Capacity:	~2500 ml (85 oz.)
Bed Compatibility:	Works with most mattress types (memory foam, spring, hybrid)
Input Voltage:	100–240V~ (Universal Voltage, works worldwide)

The Pad Material:	Breathable polyester and Tencel Blend, treated with antiseptic (Sanitized®) and stain-resistant (Bekaertdeslee Lotus) finish
Pad Dimensions:	EU — Super King: 180 × 200 cm; Large Double: 160 × 200 cm UK — King: 150 × 200 cm; Super King: 180 × 200 cm SE – King: 160 × 200 cm; Super King: 180 × 200 cm AU — Queen: 153 × 203 cm; King: 183 × 203 cm US — Queen: 60" × 80" (153 × 203 cm); King: 76" × 80" (193 × 203 cm); California King: 72" × 84" (183 × 213 cm)

4. Setup & First-Time Use

4.1 Assembly and Connection

Place the pad on your mattress, connect it to the base unit, fill the water reservoir, and connect the base unit to power.

Use distilled water for best performance. Add benzalkonium chloride (BAK) only as directed. The final concentration should be 0.05–0.1%. If using a 100% active BAK solution, this is approximately 100–200 mg active BAK per side. Adjust the amount based on the actual concentration of your BAK solution.

Pair the base unit with the Somnus App to set your preferences.

4.2 App Connection

The Somnus App is available on iOS and Android. Follow the in-app instructions to connect your device. You can also use the buttons on the base unit for basic controls.

5. Operation and Features

5.1 Base Unit Controls

◉ Power On/Off:

- Press and hold either front-panel button (⊕ or ⊖) to turn the corresponding side on or off.
- Press and hold the rear power button for 5 seconds to turn both sides of the unit on or off.

◉ Temperature Adjustment:

- Tap the ⊕ or ⊖ button on the front of the device to adjust the temperature.
- Double-tap the ⊕ or ⊖ button to adjust the temperature for the corresponding side.
- Use the Somnus App to control the unit remotely.

◉ Single and Dual Zone Control:

- Switch between single-zone and dual-zone control by double-pressing the round Power Button on the back, or by changing the setting in the Somnus App.
- In dual-zone mode, the buttons on each side control that side only.
- In single-zone mode, the buttons on either side control both sides simultaneously.

◉ Setup Button:

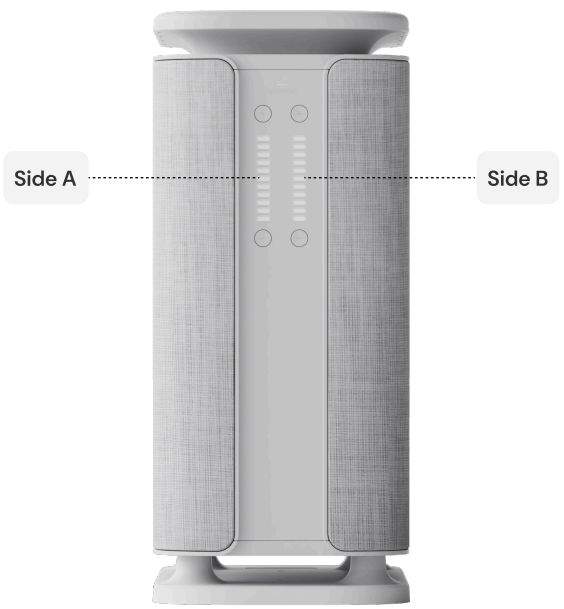
- Press and hold the rectangular button ⬭ to start wireless setup. Follow the in-app guide in the Somnus App to complete setup.

◉ Reset Button:

- To reset the device, insert a SIM eject pin or straightened paper clip into the reset hole on the back. Press and hold for 10 seconds until the device restarts. This restores factory settings and clears saved settings. After the reset, you will need to reconnect and set up the device again in the Somnus App.

5.2 LED Indicators

The front panel has two columns of LEDs. The left column indicates Side A, and the right column indicates Side B.



◉ Temperature Indicators

- When running, the central white LEDs in each column indicate baseline temperature.
- Amber LEDs above the center means target temperature is higher than baseline (each step is represented by half an LED).

- Purple LEDs below the center means target temperature is lower than baseline (each step is represented by half an LED).

◉ Common LED States

- Both center LEDs solid red: Standby.
- One or both center LEDs blinking red.: Water level low on the corresponding side.
- Both center LEDs blinking yellow: Connecting to the internet

Both sides on at level 0



Side A level +6, side B level -6



Water level low (Blinking)



Connecting to internet (Blinking)



Bluetooth Connection Indicators

- Top, middle, and bottom 6 LEDs blue: Entering wireless connectivity setup.
- Middle two blue LEDs blinking blue: preparing for the Somnus App to connect.
- Middle two blue LEDs solid blue: setting up wireless connectivity.

Wireless connectivity setup



Bluetooth Connection



Fault Indications

- One or both center red LEDs blinking: Water shortage on one or both sides.
- Two red LEDs at bottom right: Fan malfunction.
- Three red LEDs at bottom right: Unit tipped over.
- Other fault codes: Please refer to Section 7.1 for full details.

Water shortage



E02: Fan malfunction



E03: Unit tipped over



E04: Internal power failure



E05: Water tank temperature too low



E06: Water tank temperature too high



E07: Heat-exchange box temperature too low



E08: Heat-exchange box temperature too high



E09: Radiator temperature too low



E10: Radiator temperature too high



E11: Processor or other chips' temperature too high



Note: For recommended actions for each fault, refer to Section 7.1, Error Messages and Troubleshooting.

6. Maintenance & Cleaning

6.1 Routine Maintenance

◉ Drain and refill the unit if the water becomes smelly.

◉ Drain the pad when not in use

- 1. Prepare a container for water (such as a bucket) and place it under the main unit's water pipe connector.
- 2. Put one end of the water pipe connected to the pad into the container to ensure water will not leak out later.
- 3. Take out the water outlet head, insert the end with the silicone ring into the water pipe of the pad, and press firmly until you hear a "click" sound.

◉ Drain the main unit when not in use

- 1. Prepare a container for water (such as a bucket) and place it under the main unit's water pipe connector.
- 2. Take the water outlet head and insert the end without the silicone ring into the main unit's water pipe connector.
- 3. Press firmly with your hand to drain the water.

The air intake filter at the bottom can be cleaned.

Wipe the exterior surfaces with a soft, damp cloth.

Fabric side panels can be cleaned with a suitable fabric cleaner.

⚠️ Safety Notes

- Always unplug the unit before cleaning.
- Do not use abrasive cleaners, bleach, or alcohol.
- Make sure the unit is completely dry before reconnecting power.

After draining, leave the system for at least 2 hours to allow residual moisture to evaporate and help prevent condensation that may make the topper damp.
- Confirm that the connectors are dry and the pad is not damp.
- Store in a dry, ventilated place.

7. FAQ & Troubleshooting

7.1 Error Messages and Troubleshooting

◉ E02: Fan malfunction

- The unit has detected a fan malfunction. Please contact customer service for assistance.

◉ E03: Unit tipped over

- Return the unit to an upright position.
- Unplug the power immediately.
- Wipe away any visible water.
- Allow the unit to dry completely for at least 24 hours before reconnecting power.

◉ E04: Internal power failure

- An internal power fault has been detected. Please contact customer service.

◉ E05: Water tank temperature too low

- The water tank temperature sensor has detected an abnormally low temperature.

- If you have just received the unit, extreme cold during transportation may have triggered the unit's self-protection mode to prevent internal freezing. Leave the unit at room temperature for several hours, then try again.

◉ E06: Water tank temperature too high

- The water tank temperature sensor has detected an abnormally high temperature. Please contact customer service.

◉ E07: Heat-exchange box temperature too low

- Ensure all hoses are properly connected and free of bends or kinks.
- If you have just received the unit, extreme cold during transportation may have triggered the unit's self-protection mode to prevent internal freezing. Leave the unit at room temperature for several hours, then try again.

◉ E08: Heat-exchange box temperature too high

- Ensure all hoses are properly connected and free of bends or kinks. If the issue persists, please contact customer service.

◉ E09: Radiator temperature too low

- Leave the unit at room temperature for several hours, then try again. If you have just received the unit, extreme cold during transportation may have triggered the unit's self-protection mode to prevent internal freezing.

◉ E10: Radiator temperature too high

- The heat sink temperature has exceeded safe operating limits. Please contact customer service.

◉ E11: Processor or other chips' temperature too high

- The internal control chip temperature has exceeded safe operating limits. For safety reasons, the unit has stopped operating. Please contact customer service.

◉ Other Errors (Indicated by Multiple Red LEDs)

- An unspecified error has occurred. Please contact customer service.

7.2 Frequently Asked Questions

◉ Why do I hear a water sound when the unit operates?

When first setting up, there are air bubbles in the piping. The bubbles will gradually be expelled as the unit operates. Usually it takes one full night for the sound to completely go away.

◉ Why don't I feel it cooling down or warming up immediately?

The unit takes time to reach the desired temperature. Usually it's between 1–20 minutes, depending on the amount of temperature change expected.

◉ Why can't I connect to Wi-Fi?

Ensure you have downloaded the app and followed the in-app setup instructions. If you've changed your WiFi, you may need to set up again.

7.3 Contacting Support

If problems persist, please contact our Customer Support team.
Email: support@somnuslab.com

For more frequently asked questions, please visit https://somnuslab.com

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8. Technical Support & Warranty

8.1 Warranty Policy

Warranty: see https://somnuslab.us/pages/warranty

8.2 Contact Information

- Email: support@somnuslab.com
- Website: www.somnuslab.com

9. Regulatory & Compliance

9.1 Certifications

- FCC Compliance
- CE Compliance
- RCM Compliance for Australia/New Zealand
- SRRC Compliance for China

9.2 Usage Restrictions

9. Regulatory & Compliance

9.1 Certifications

- FCC Compliance
- CE Compliance
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- SRRC Compliance for China

9.2 Usage Restrictions

- Supply Voltage: 100–240 V
- Frequency: 50–60 Hz
- Rated Power: 300 W
- Indoor Use Only
- Maximum Altitude: 3000 m (10,000 ft)
- operating temperature range: 12°C – 42°C (54°F – 108°F)

9.3 Environmental Commitment

- This product complies with the WEEE and RoHS Directives. Please follow local regulations when disposing of this product.