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WC71V/WC77V Temperature Management Controller

Getting Started Guide

What's in the Box

- WC71V Single-Port Controller or WC77V Multi-Port Controller
- Gray power cord
- IV pole clamp and knob
- Mounting hardware (pre-installed screws)
- Clear cable-retention loop (attached to controller)

Purpose

Your HotDog® Controller powers and regulates veterinary Warming Blankets and Underbody Mattresses (where applicable) to maintain patient normothermia during procedures and recovery. Warming devices such as Blankets and underbody mattresses are reusable for up to 2-years.

The full instructions for use can be accessed by scanning the QR code located at the top of this page, the back of this guide, or by visiting vetwarming.com/manuals.

Setup

A. Mounting (Optional – IV Pole Use)

1. Remove the 4 screws from the lower back of the Controller (discard white shipping washers).
2. Align IV pole clamp bracket and reattach screws.
3. Place clamp around IV pole and tighten knob securely.

4. Stability tip: Mount no higher than 44 in (112 cm) and use a pole with a minimum wheelbase radius of 14 in (35.6 cm).

B. Tabletop Use

1. Place the Controller on a stable, dry, clean surface.

Power On

1. Plug gray power cord into the Controller and a grounded outlet.
2. Turn the rear power switch to ON.
3. Wait for the “Please connect device to begin” message.

Connect a Warming Device

1. Locate the short yellow A101 Blanket or blue A112 Mattress cable extending out of the Blanket and/or mattress.

Note: Always check the expiration date on the applicable short cable prior to each use — remove from service and replace if expired.

2. Connect to the corresponding yellow/blue A101/A112 extension cable:
 - Align red dots.
 - Push straight in — do not twist.
3. Place a thin barrier (e.g., bed sheet, < 0.8mm) between the patient and the warming device.
4. Connect the opposite end of the A101/A112 cable to a corresponding colored Controller port (red dot facing up).

- Listen for the beep — this means the safety systems are active.

Select Temperature

- Tap the highlighted port on the touchscreen.
- Adjust:
 - Red + thermometer = increase temperature
 - Blue – thermometer = decrease temperature
- Max temp: Do not exceed 40°C / 104°F when Blanket is under or wrapped around patient.
- No preheating needed — Blanket reaches set temperature in ~4 minutes.

Multiport Operation (WC77V Only)

- Connect up to 4 Warming Blankets and one Underbody Mattress
- Adjust each individually or use:
 - All High
 - All Medium
 - All Low
- Use “All” settings cautiously — each patient is unique and has different needs.

Safety Notes

- Do not use expired or damaged warming devices. Injury may result.
- Keep patient positioned over the warming devices sensor target area (black side up).
- Always use a thin barrier (e.g., thin bed sheet or < 0.8mm thickness) between the patient and the Warming Blanket/Mattress.
- Warming Blankets/Mattresses are not pressure-reduction devices. Ensure the use of a pressure offloading solution such as the HotDog Pressure Reduction Pad.
- For wet procedures:

- Warming devices are waterproof but avoid pooling fluids on sensor area.
- Position patient or tilt table slightly to direct drainage away from the patient.
- Keep connectors dry.

- Never fold a Warming Blanket black (patient side) onto itself — fold purple-to-purple only as needed for Blanket positioning. Mattresses should not be folded.
- Avoid placing sharp objects or hard items between patient and warming device.
- If using a vacuum-activated positioning system such as the Hug-U-Vac Positioner, do not allow a Warming Blanket in-between the positioning device and the patient.

**Please review the most updated instructions for use located at vetwarming.com/manuals for a complete list of warnings and precautions.*

Troubleshooting

For a complete list of error codes and step-by-step troubleshooting instructions, please refer to the IFU.

Code	What It Means	What to Do
E1	Over-temp	Unplug warming device, wait 5 min, reconnect. Stop use if repeats.
E2	Warming Device not heating	Check sensor contact, reconnect, verify expiration date on yellow/blue cable. Replace if expired.
E4	Sensor/cable issue	Try a different cable or warming device; stop use if repeats.
E8	Over-temp sensor (secondary)	Disconnect warming device, check expiration date on yellow cable, and contact Customer Service.

For persistent issues, call Customer Service: 952-465-3500.

Cleaning & Maintenance

After each use:

1. Turn off and unplug the Controller.
2. Wipe exterior with an approved cleaner:
 - Diluted Alcohol-based (per manufacturer guidelines)
 - Diluted bleach (per manufacturer guidelines)
 - Diluted chlorhexidine (per manufacturer guidelines)
3. Avoid spraying solutions into cable ports or openings.
4. Wipe with damp cloth to remove residue; air dry completely.

Storage & Lifespan

- Store Controller in a dry, ventilated area away from direct sunlight.
- Coil cables loosely; use cable-retention loop for storage.
- Warming devices (Blankets/mattresses) have an average lifespan of 18–24 months and expire 2 years after shipping.
 - Expiration ensures safe, effective heating — replace before this date.

FAQ – Frequently Asked Questions

1. How does HotDog Patient Warming work?

HotDog Warming Blankets use a conductive polymer ThermAssure™ fabric. A low-voltage DC current flows over this light, flexible fabric, and the resistance generates uniform warmth. They do not contain carbon fiber or ink, which could break and cause hot spots.

2. Why is HotDog Warming safe?

The WC7xV Controller is a microprocessor with multiple built-in safety features. It continuously

monitors the connected warming device at the patient and will automatically stop operation if readings are outside safe parameters. The system uses low-voltage, floating, isolated DC current, and the flexible conductive polymer fabric generates uniform heat with no hot spots.

3. Why do HotDog Blankets expire?

Over time, oxidation of the conductive fabric increases electrical resistance, reducing heating performance. After about 24 months, the Blanket may no longer reach set temperature quickly enough, triggering the controller's safety shutdown. In addition, normal wear, repeated cleaning, and handling can cause components to degrade or the outer shell to become damaged. Any Blanket that is worn, damaged, or past its expiration date should be removed from service and replaced to ensure safe, effective warming.

4. Are the Blankets difficult to clean?

No. Cleaning takes 30 seconds or less. Wipe with an approved cleaner such as diluted alcohol, diluted bleach, and diluted chlorhexidine. Do not use hydrogen peroxide-based cleaners or abrasive products. The non-porous outer shell contains an antimicrobial, and the edges are heat-sealed to eliminate crevices.

5. How do I get the best warming results?

- **Body Surface Area:** Warm as much surface area as possible. Warming the core is more effective than warming the periphery.
- **Sensor Contact:** Ensure the Blanket's sensor is in direct contact with the patient for accurate temperature control.

6. What temperature should I select?

Start with the 40°C (104°F) setting. Monitor the patient's temperature frequently during each case. Adjust gradually to maintain normothermia. Do not exceed 40°C (104°F) when the Blanket is under or wrapped around the patient.

7. How do I select Blanket size?

Choose from the five available sizes. Select the size that covers the most patient surface area without interfering with the procedure site.

8. How do I position the Blanket?

The Blanket can be placed over, under, or wrapped around the patient. Do not exceed 40°C (104°F) when any portion of the Blanket is under the patient. Always position the black sensor side toward the patient.

9. Can the HotDog System be used in x-ray?

Yes. The heater fabric is radiolucent, but the parallel busbars along the long edges and the sensor area are radio-opaque. Position the Blanket so these areas are outside the imaging field.

10. How do I manage pressure reduction?

All patients should have pressure reduction measures in place during procedures. Use a pressure-offloading solution, such as the HotDog Pressure-Reduction Pad or an equivalent device, between the Blanket and any hard surface. This helps prevent pressure points, especially over bony prominences, and supports overall patient comfort and safety.

Contact Us

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