



# **OUTDOOR SAUNA**

## WITH PRAIRIEFIRE™ 9KW ELECTRIC HEATER

240V / 50 AMP CIRCUIT REQUIRED - MUST BE INSTALLED BY LICENSED ELECTRICIAN

#### CAUTION: EXIT SAUNA IMMEDIATELY IF YOU FEEL DIZZY, SLEEPY, OR ANY DISCOMFORT

Welcome to your new Backyard Discovery Outdoor Sauna! We're excited to help you enjoy all the wellness benefits regular sauna sessions can offer. This manual is designed to guide you through safe setup, use, and care, so you can relax and recharge with confidence.

**Please note:** The information in this manual is intended for informational purposes only and should not be considered medical advice. Please consult your physician before using this product. This product is not endorsed by medical professionals and is not intended to diagnose, treat, cure, or prevent any disease.

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## **IMPORTANT SAFETY INSTRUCTIONS & WARNINGS**

- ↑ READ ALL INSTRUCTIONS BEFORE INSTALLATION AND USE TO AVOID INJURY OR DAMAGE TO THE HEATER OR SAUNA
- ↑ FOLLOW SAFETY INFORMATION IN THIS DOCUMENT TO AVOID SERIOUS INJURY OR DEATH
- ↑ REFER TO YOUR LOCAL BUILDING CODES FOR ANY SPECIFIC INSTALLATION REQUIREMENTS
- ALL ELECTRICAL WORK NEEDS TO BE COMPLETED BY A LICENSED ELECTRICIAN. FAILURE TO DO SO COULD CAUSE INJURY OR DAMAGE TO THE HEATER.
- ★ KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE
- ⚠ HEATER IS NOT FOR PUBLIC SAUNAS; RESIDENTIAL USE ONLY

## 

- This sauna is not intended for use by individuals with reduced physical, sensory, or mental capabilities, or those lacking experience and knowledge, unless they are under supervision or have received instructions from a responsible person regarding its safe use.
- Consult your doctor regarding any health-related limitations before using the sauna. Ignoring medical advice could result in serious injury or even death.
- Do not allow individuals with pre-existing health conditions to use the sauna unsupervised. Using the sauna could lead to loss of consciousness, serious injury, or even death.
- Not recommended for use by children!
- Do not smoke, consume alcohol, or exercise in the sauna. These activities can lead to loss of consciousness, serious injury, or even death.
- Do not exceed 30 minutes in the sauna at one time. Prolonged exposure may be harmful to your health. The sauna should not be used as an endurance test.
- Only use the stones provided with the sauna. Using inadequate stones may cause them to crack or explode, leading to serious injury.
- Do not sleep in the sauna while the heater is operating. Sleeping in a heated sauna can lead to injury or death.
- Do not place any combustible materials over the sauna heater (towels, bathing suits, robes, wooden bucket or ladle)!
   This could cause the sauna to catch fire.
- Do not alter the heater in any way. Altering the heater could cause electrocution or a fire risk.

Prolonged exposure is capable of inducing hyperthermia which occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6 °F. The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of hyperthermia include:

- Failure to perceive heat;
- Failure to recognize the need to exit the room;
- Unawareness of impending hazard;
- Fetal damage in pregnant women;
- Physical inability to exit the room; and
- Unconsciousness
- WARNING The use of alcohol, drugs, or medication is capable of greatly increasing the risk of fatal hyperthermia.

## **IMPORTANT SAFETY INSTRUCTIONS & WARNINGS**

## 

- Do not install shower heads, plumbing fixtures, or taps in the sauna.
- Do NOT install electrical outlets inside or on the outside the sauna structure.
- Do NOT add locks or latches to the sauna door to prevent accidental entrapment.
- Do NOT tamper with, block, or move vents or sensors on or behind the sauna.
- WARNING: Permits may be required. Check local building codes before installing.
- CAUTION: To prevent fire, do not place any combustible materials on or near the sauna heater.
- At the end of each day, check that the sauna is turned off.
- No additional electrical receptacles should be installed inside or outside the sauna structure.
- Do not install any locking or latching mechanisms on the door to prevent accidental entrapment.
- If manually resettable temperature-limiting controls are frequently triggered, contact customer service and a qualified service provider.
- Do not tamper with, reposition, or cover vents or sensors on top of or behind the sauna.

## **↑** CAUTION: DANGER OF BURNS!

- Keep all occupants A SAFE DISTANCE away from the heater when it is hot. The stones and the outer surface of the heater can cause burns.
- **Do not throw excessive amounts of water on the stones.** The evaporating water is boiling hot and can cause burns. Do NOT exceed 3-6 oz of water per ladle.
- Do not throw water directly on the heating elements. This can cause burns and damage to the heater.
- Exercise caution when moving in the sauna. The benches and floors may be slippery, increasing the risk of slipping and falling.



Your sauna kit comes with a PrairieFire™ heater sized perfectly for your space. Once installed, it should comfortably reach at least 170°F at head height in about 30-40 minutes—just right for an ideal sauna session. Actual heat-up time may vary slightly with outdoor temperatures.

Electric heaters are versatile and can be used both dry and wet, by adding small amounts of water over the stones.

**Dry saunas** typically run hotter because the low humidity allows for higher temperatures without overwhelming the body.

**Wet saunas** feel hotter at lower temperatures due to the moisture in the air, which slows sweat evaporation and increases perceived heat.

At elevations above 5,000 feet, reduced air density may affect heater performance, resulting in longer heat-up times or lower maximum temperatures.

Rest assured: your sauna comes with a comprehensive 5-year warranty.

## **BENEFITS OF YOUR BACKYARD DISCOVERY SAUNA**

- **Boosting Immunity:** At the first sign of a cold or flu, increasing your sauna sessions may help boost your immune system and reduce the reproductive rate of the virus.
- Muscle Relief: To help relieve sore and tense muscles, massage the affected areas during your sauna session.
- Foot and Ankle Treatment: Elevate your ankles and feet and move them close to one of the heat emitters for a deep heating effect.
- **Hair Treatment:** To utilize the sauna's heat therapy effect, apply oil and treatment to your hair and wrap it with a towel. After your sauna session, rinse your hair thoroughly.
- Improved Sleep: The peaceful and relaxed state induced by a sauna session may help you sleep easier and deeper.

# **INSTALLATION INFORMATION**

## **INSTALLATION INFORMATION FOR ELECTRICIAN**

## Information for Electrician to properly connect the PrairieFire™ 9.0kW Heater: Model# 9250253

Note: The control equipment may be destroyed even if it is incorrectly connected only once. The warranty will be void if the electrical connection is not correct.

Heater must be permanently installed (no pigtails or plug allowed) and wiring must be done by a licensed electrician, who must follow the wiring diagram provided and adhere to local codes. Use proper A, W, G rated wire size and use copper wire suitable for 221°F (105°C).

Use grounding terminals provided in sauna heater and control panel to properly ground the equipment as per NEC and local codes.

Heater must be connected to a standard 2-pole breaker. No GFI may be used. If this heater is connected to a GFI breaker, nuisance tripping may occur causing unnecessary and unintended wear on internal components.

# Difference Between 120V & 240V Power Supply LINE 2 120V 120V LINE 1 \* Voltage Between Line 1 & Line 2 = 240V Voltage Between Any One Line & Neutral = 120V

## **Important:**

The main connection leads must be flexible cables with polychloroprene sheaths. Connection leads are supplied with the heater. All the cables installed inside the sauna must be suitable for an ambient temperature of at least 338°F (170°C). Heat resistant silicon cables must be used. The minimum cross-section of the connection cable and the minimum size of the sauna are shown in the table. Make the electrical connection as shown in the connection diagram. A connection diagram is additionally affixed to the inside of the control box cover. Fit the cover after making the electrical connection.

PLEASE NOTE: Live cables must not be routed visibly on the internal walls of the cabin for safety reasons.

⚠ DANGER: Turn off power to heater at the breaker before beginning installation. Do not turn the power on until the installation is complete. Failure to turn off the power could lead to electrocution and even death.

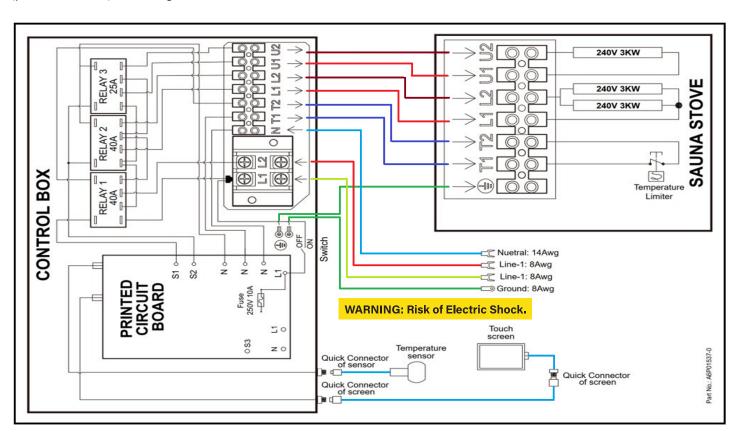
# **INSTALLATION INFORMATION**

## **CONNECTION DIAGRAM**

Sauna Type	Amps	Voltage	Phase	Wire Size
9 kW	50 A	240	1	#8/3 and #14/1

## <u>Testing the insulation resistance:</u>

The resistance values between the various conductor terminals and the housing (protective earth) can be measured using an insulation resistance measuring unit. The total insulation resistance between the conductor terminals and housing (protective earth) must be greater than 1 MOhm. Ohm values of the stove 5 - 8  $\Omega$  for 9 kW sauna heater.



Oven Type	Connection Rating in kW	Minimum cross-sections mm2 (copper cable) 9kW oven connect to 120V/240VAC, 1-Phase, 3-Wire	
		Power supply cable (silicone)	Fuse in A (Not Provided)
9kW	9,0	#8/3 (Line 1, Line 2, Ground) & #14/1 (Neutral) wire	Line 1 & Line 2: 50A Neutral: 2A

# **SAUNA STONE INSTRUCTIONS**

Make sure the sauna heater is cooled completely before placing or cleaning stones.

## Use Only Approved Sauna Stones

Only use stones specifically labeled for sauna use. Do not use alternative or unverified stones, as they may pose safety risks. Warranty claims will not be accepted if non-sauna stones are used or if the stone chambers are filled incorrectly.

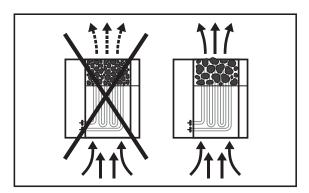
### Stone Preparation

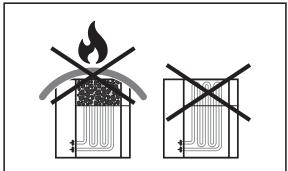
Before placing the stones on the stove, rinse them thoroughly with clean tap water to remove any dust or debris. Do not use pool, spa, or well water as chlorine gas can be produced and heating elements may be damaged.

#### Stone Placement

Use a maximum of 25 lbs. (11.5-12.5 kg) of stones. Place the stones loosely to ensure proper air circulation. Remove any stones that are too small, as tightly packed stones can restrict airflow and may cause the stove and cabin walls to overheat, increasing the risk of fire. Use smaller stones around heater elements, but do not bend them. Reserve the larger stones for placement on top of the heating elements, covering them completely. Replace stone guard.

WARNING: It's important not to overpack stones on the heater. It needs proper airflow. Incorrectly loading the stones may result in a fire. Do not use the heater without the sauna stones.





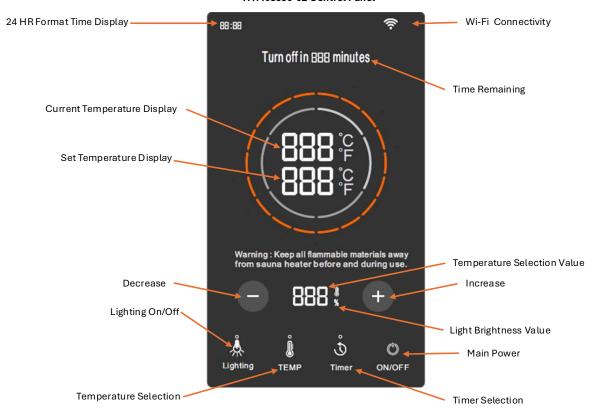
IMPORTANT! Never operate the heater without stones installed. Always ensure that only approved sauna stones are in place.

## Sauna Stone Maintenance

- Turn the stones at least once per year to promote even wear.
- Remove any small stones, stone dust, or splinters during maintenance.
- Replace all sauna stones every two years to maintain optimal performance and safety.

# **CONTROL PANEL OPERATING INSTRUCTIONS**

#### A4M05590-02 Control Panel



## **CONTROLS**



## **Power Switch**

- Located on bottom of control box
- Switch on to power the sauna system and Control Panel



## **Main Power**

Sauna System On/Off



## Time Selection

- Press to begin setting
- Use + /- to set time
- To change the clock: Long press TIMER button and use + & - to adjust



## **Temperature Selection**

- · Press to begin setting
- Use + / to set desired temperature
- To change from Fahrenheit to Celsius: Long press the TEMP button



## **Lighting Selection**

- Press to turn on/off
- Use remote to dim light to desired setting



## Wi-Fi Connectivity

- To enable Wi-Fi, press and hold Lighting button until Wi-Fi symbol in top right corner begins flashing.
   Follow steps to pair control panel with your phone.
- This is optional. The Control Panel will operate all functions without Wi-Fi connectivity

# WIFI CONTROL INSTRUCTIONS





Download the "Tuya Smart"



Connect your mobile device to the same Wi-Fi network the sauna will be connected to. Your device will also need to be connected to this Wi-Fi to control the sauna.



Turn on **Bluetooth** on your mobile device.



Turn on the Sauna Power and Control Panel.



Press and hold **LIGHTING** on the control panel until the Wi-Fi symbol in the top right begins blinking



In the top right of the app screen select the + symbol, then "Add Device"



Select the "BYD Sauna" to begin connecting. You will need to select the correct Wi-Fi network and enter the network password.







## 1. Temperature Selection

- Press to begin setting
- Use +/- to set temperature
- Or drag the orange dot around the circle to choose your desired temperature



## 2. Time Selection

- Press to begin setting
- Use slider bar to set time



## 3. Lighting Selection

- Optional to hardwire LED lights to Control Panel. Control On & Off only.
- Press LIGHTING button to turn on/off.
- Included Remote allows you to turn lights on/off and adjust brightness

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## **BEFORE FIRST SAUNA SESSION**

IMPORTANT! BEFORE USING HEATER in your first SAUNA SESSION: Turn heater on for 1 hour to allow burn off of the protective element coating. Some smoke is normal during this process.

## SAUNA USE RECOMMENDATIONS

- The recommended sauna temperature is 150°F to 175°F (65°C to 80°C) for most users
  - **Beginners:** Start at 130°F to 150°F (55°C to 65°C)
  - Regular users: 150°F to 175°F (65°C to 80°C)
  - Maximum safe limit: 190°F (88°C) exceeding this is not advised
- For optimal comfort and safety, it's best to start lower and increase the temperature gradually as you become more accustomed.
- A typical sauna session lasts about 15 to 20 minutes.
  - **Beginners:** 5–10 minutes per session
  - Regular users: 15-20 minutes
  - Maximum recommended time: No more than 30 minutes per session
- The heater will automatically shut off after 1 hour

To balance heat and humidity in your sauna, use the "Rule of 200" for a safe and comfortable experience. This formula helps users find the sweet spot where the heat feels therapeutic but not overwhelming.

Rule of 200 formula: Sauna Temperature (°F) + Relative Humidity (%) = 200

Temperature (°F)	Max Humidity (%)	Combined Value
180	20	200
170	30	200
160	40	200

Exceeding the combined value of 200 is not recommended. It can lead to discomfort, dehydration, dizziness, or heat stress.

## How to adjust:

- Add water to sauna rocks to increase humidity
- Open vent or reduce water to lower humidity
- Use the thermometer and hygrometer to monitor conditions and adjust accordingly.



- Always listen to your body exit the sauna if you feel dizzy, lightheaded, or uncomfortable.
- Cool down between sessions if you plan to do multiple rounds.
- Stay hydrated before and after your sauna session.
- Pre-Sauna Shower: Taking a hot or warm shower or bath before using your sauna can help you perspire more and enhance comfort.
- Hydration: Drink water before, during, and after your sauna session to replenish body fluids.
- **Temperature Regulation:** To adjust the temperature inside the sauna to your comfort level, use the movable wall vent or leave the door slightly open. The wall vent can be adjusted based on personal preference.
- Use of Towels:
  - Fold the first towel several times and place it on the bench. This towel will absorb most of your perspiration and add comfort while you sit.
  - Use the second towel to frequently wipe perspiration from your body. This helps you perspire faster and prevents excessive perspiration from dripping onto the floor.

## **CAUTION: Never place ANY towels on or over the heater**

- Post-Sauna Cooling: After your sauna session, do not jump into the shower or bath immediately. Your body will
  continue to perspire even after the heat is off. Sit in the sauna with the door slightly open and let your body cool down.
  Once you feel comfortable, you can exit the sauna. After about fifteen minutes, when your body has completely cooled
  down, you can take a shower or bath to clean your body.
- **Cooling Down:** For every three hours of use, the sauna must be turned off for one hour to cool down. The heater may generate cracking noises while it is heating up and while it is operating (metal heating elements and stones expanding

The heater may generate cracking noises while it is heating up and while it is operating (metal heating elements and stones expanding).

## APPROVED LIQUIDS FOR SAUNA USE

The sauna heater is suitable for sauna liquids to create humidity and enhance the experience.

It is important to use only safe, approved options to avoid damaging the heater or creating safety hazards.

Liquid Type	
Water	Safest choice. Creates steam when ladled onto hot stones
<b>Diluted Essential Oils</b> Adds aroma (example lavender, eucalyptus). Must be diluted in water first.	
Herbal Infusions	Steeped herbs like mint or chamomile. Strain and ladle lightly onto stones

## Liquids to avoid:

- Undiluted essential oils can burn and damage the heater
- Citrus fragrance may cause rust patches as a result of acid content
- Alcohol or alcohol-based liquids create a fire hazard and unpleasant odor
- Sugary or sticky substances can leave residue or clog the heater

## **Tips for using liquids:**

- Always ladle liquids gently and in small amounts. Failure to do so could cause burns.
- Use clean, filtered water to prevent mineral buildup and staining
- Test a small amount first to ensure the aroma isn't overpowering.

# MAINTENANCE INFORMATION

#### **SAUNA MAINTENANCE**

- Simply wipe down the sauna with a damp, soft, clean cloth.
- Regularly clean the floor heater to keep it free of debris.
- Remove the removable floor regularly to clean any debris and scrub with a soft brush, when needed.
   (Barrel Saunas only)
- A solution of baking soda and water can help remove dirt or stains. Lightly scrub and rinse.
- Avoid using liquid cleaners or aerosol cleansers inside the sauna. Do not use benzene, alcohol, or strong cleaning chemicals in or on the sauna.
- Recommended interior sealer: paraffin oil ONLY.
- NEVER treat the interior of the sauna with a stain, sealer, or varnish as toxic vapors may appear when heated.
- If sauna wood becomes stained from perspiration, the wood may be lightly sanded with fine sandpaper to restore the appearance.
- Remove water stains on the heater by wiping with a damp cloth occasionally.

CAUTION: Chemical-based cleaners can damage wood or be absorbed into the wood and be released during use.

## **HEATER MAINTENANCE**

## Important! Switch off the heater and switch off the circuit breaker before cleaning. Allow heater to cool completely.

- Periodically, remove stones carefully; inspect for cracks or crumbling stones replace any damaged ones (Only
  use stones designated for use with saunas)
- Vacuum or brush debris use a soft brush or vacuum to remove dust, ash or debris from heaters interior and around heating elements. Be careful not to bend the heating elements.
- Clean stainless-steel surface use a non-abrasive, natural cleanser (vinegar and water). Apply with soft cloth or sponge, rinse and dry with microfiber cloth. This should help with limescale or water stains.
- Replace the sauna stones, ensuring adequate air flow while covering the heating elements.
- Restore power and test the heater briefly to ensure it is functioning properly.

#### **Tips to Avoid Damage:**

- Never use bleach or harsh chemicals they can corrode metal and release harmful fumes.
- Do not use scouring cleaning products to clean the heater
- Clean the heater every few months, or more often if used frequently

# TROUBLESHOOTING GUIDE

#### **TROUBLESHOOTING**

<u>Name of the power to heater at breaker before performing maintenance on the heater.</u> Failure to turn off the power could lead to electrocution and even death.

⚠ CAUTION: Before placing or adjusting the sauna stones, ensure heater is back to room temperature. Failure to do so may cause burns.

## If the Sauna Heater Does Not Operate After Initial Installation:

- 1. Check Power Supply: Ensure the heater is properly connected to a functioning power source and that the circuit breaker has not tripped.
- 2. Verify Timer and Thermostat Settings: Confirm that both the timer and thermostat dials are set correctly. The heater will not operate if either dial is turned off or set too low.
- 3. Inspect the Safety Features: Some models include a safety reset switch or temperature limiter. Refer to the user manual to locate and reset this feature if needed.
- **4. Check Wi-Fi Connectivity (if applicable):** If using Wi-Fi control, verify that the heater is connected to the network and the app is functioning properly.
- **5. Review Installation Steps:** Ensure all installation steps were completed correctly, including proper placement of stones and secure electrical connections.
- **6. Consult a Qualified Electrician:** If the above steps do not resolve the issue, contact a licensed electrician to inspect the installation.
- 7. Contact Customer Support: If problems persist, reach out to the manufacturer's customer service for further assistance.
- 8. Error Code F02: NTC is disconnected or Short Circuit. The NTC module need to be reconnected or to be replaced.
- 9. Error Code F03: Temperature fuse beside the NTC is broken. The NTC module need to be replaced.
- **10. No Heating:** The screen can be operated but no heating and no Error Code. Check if the High Temperature Protector is active, following the direction on the 'Label of High Temperature Protector Resetting' to reset the HTP.

## If the Sauna Heater Operates but the Sauna Does Not Reach the Set Temperature:

- 1. Check Stone Placement: Ensure the sauna stones are placed loosely and not packed too tightly. Restricted airflow can reduce heating efficiency.
- 2. Verify Stone Type and Quantity: Only use approved sauna stones and do not exceed the maximum recommended weight (e.g., 4.5 kg). Incorrect or poor-quality stones can impair heat transfer.
- 3. Confirm Door and Vent Sealing: Make sure the sauna door closes properly and that any vents are correctly positioned. Heat loss through gaps or improper ventilation can prevent the room from warming.
- **4. Review Thermostat Settings:** Double-check that the thermostat is set high enough. Some heaters may take longer to reach higher temperatures depending on the ambient temperature.
- **5.** Allow Adequate Warm-Up Time: It can take 30 to 45 minutes for a sauna to reach the desired temperature, especially during the first use or in colder environments.
- 6. Check Ambient Conditions: Cold surrounding air can slow down heating time.
- 7. Inspect Heater Function: If the heater appears to be running weakly or cycling off too soon, it may have a faulty thermostat or sensor. Refer to the user manual or contact customer support.

# **FCC WARNING & IC WARNING**

## **FCC WARNING**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Note:** The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirements. To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20 cm between the radiator and your body, and fully supported by the operating and installation

## CAN ICES-003 (B)/NMB-003(B)

## **IC WARNING**

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

# **COIN BATTERY WARNING**

## **COIN BATTERY WARNING FOR LIGHT REMOTE**

**Warning: Contains Coin Battery** 

## **A WARNING**

- INGESTION HAZARD: This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours.
- KEEP new and used batteries OUT OF REACH of CHILDREN
- Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.



- 1) Battery type: CR2025.
- 2) Nominal voltage: 3V
- 3) Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- 4) Even used batteries may cause severe injury or death.
- 5) Call a local poison control center for treatment information.
- 6) Non-rechargeable batteries are not to be recharged.
- 7) Do not force discharge, recharge, disassemble, heat or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- 8) Ensure the batteries are installed correctly according to polarity (+ and -).
- 9) Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- 10) Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- 11) Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

