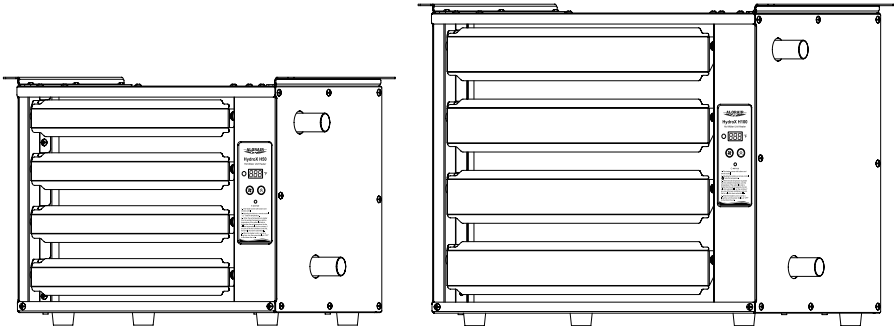# ALORAIR

## Installation and Operations Manual

# Hot Water Hanging Unit Heater

## Hydorx H50 / H50A / H100 / H100A



## AlorAir Solutions INC.

Add: 14752 Yorba Ct Chino CA 91710 US

Tel: (888)-990-7469

E-mail: support@alorair.com

Specifications subject to change without notice.

**IMPORTANT:**
Please read this user manual thoroughly before installation.
Keep the manual safe for future reference.

# TABLE OF CONTENTS

## Safety Considerations

To reduce the risk of fire, electric shock, or personal injury, please adhere to the following guidelines:

● Installation or repair of this equipment must be performed by a qualified service agency.

● Always disconnect the power supply before making wiring connections to prevent electrical shock and equipment damage.

● Any original factory wiring that requires replacement must be replaced with wiring material having a temperature rating of at least 221°F.

● When installing, the clearance for the back of the heater should be at least 6 inches from the wall.

● Do not start the unit without the filter installed to prevent debris from being drawn in and damaging the heater.

● Be sure no obstructions block air intake or air discharge of the heater.
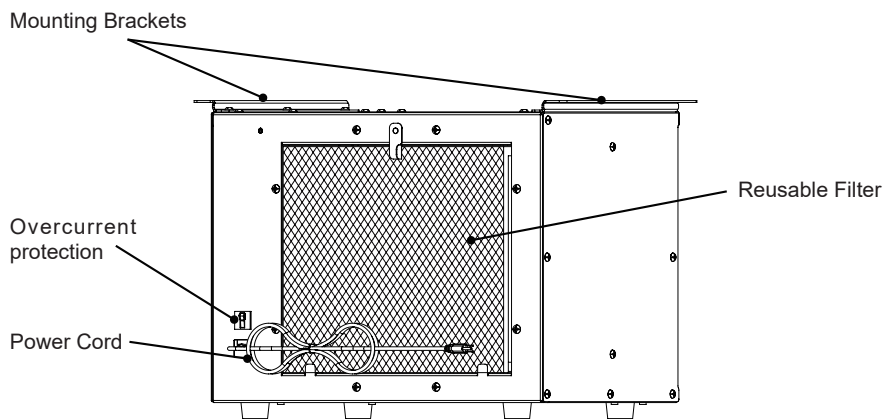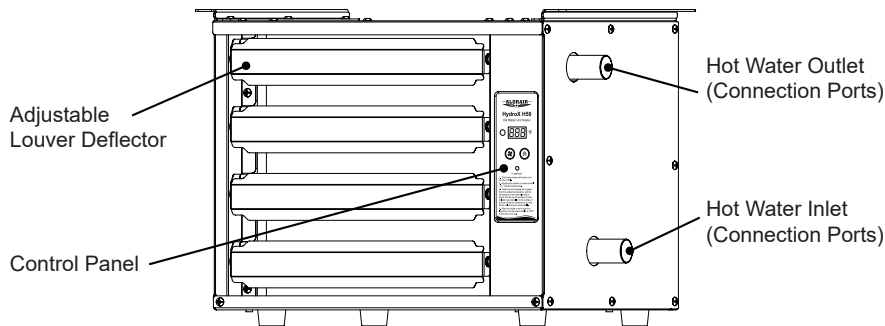
## General Information

Installation and service instructions in this manual apply to the ALORAIR hot water hanging unit heaters which should be installed using proper applications for their most effective function as a hanging unit heater.

ALORAIR hot water hanging unit heaters use the energy from a building's hot water source to offer efficient, whisper quiet operation, and come with a temperature control switch, sensing the temperature of the water inlet to control the fan start / off, reducing frequency of manual operations to save you time.

When the set temperature is greater than the ambient temperature, and the temperature of the water inlet side is higher than the set temperature, the fan will start automatically; on the contrary, if any one of the two conditions is not met, the fan will shut down automatically.

Ideal for use in living rooms, bedrooms, garages, warehouses and greenhouses.

## Standard Features



Adjustable
Louver Deflector

Hot Water Outlet
(Connection Ports)

Control Panel

Hot Water Inlet
(Connection Ports)

Mounting Brackets

Reusable Filter
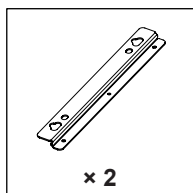
Overcurrent
protection

Power Cord

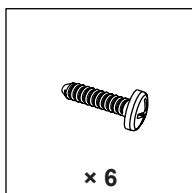*Note: The picture is for reference only. Please refer to the actual product for the final version.*

## Installation

### Step 1:

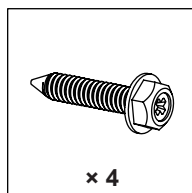Take out the mounting brackets (Figure 1), screws (Figure 2) and tapping screws (Figure 3) from the package.

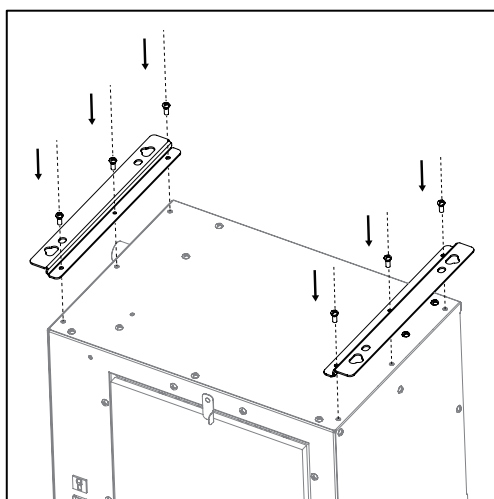| × 2 | × 6 | × 4 |
| --- | --- | --- |
| (Figure 1) | (Figure 2) | (Figure 3) |

### Step 2:

Attach the mounting brackets to unit with screws.

## Step 3:

Mount the unit to the ceiling or joists with tapping screws.
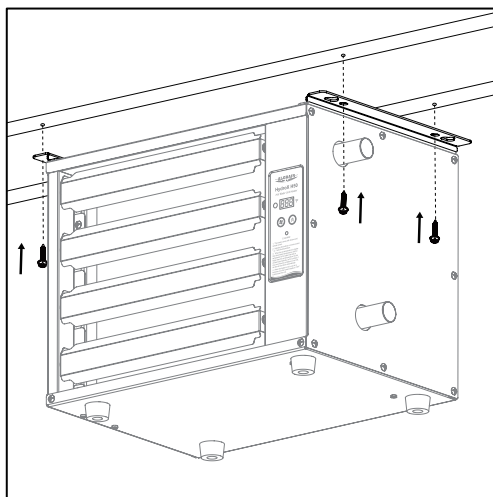


## Step 4:

Depending on your water pipes, choosing push to fit connector or soldered or sweat adapters to connect the unit inlet / outlet ports to your pipes.

NOTE: The product recommends using reducing couplings to connect the water pipes with the hot water inlet / outlet pipes of the product.



Reducing Coupling

Sectional View

# Button and Function Description

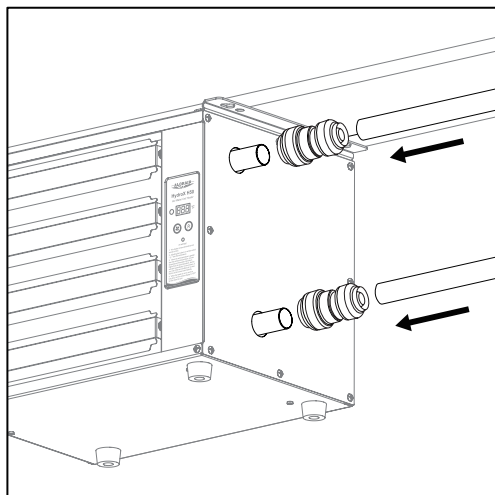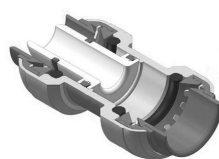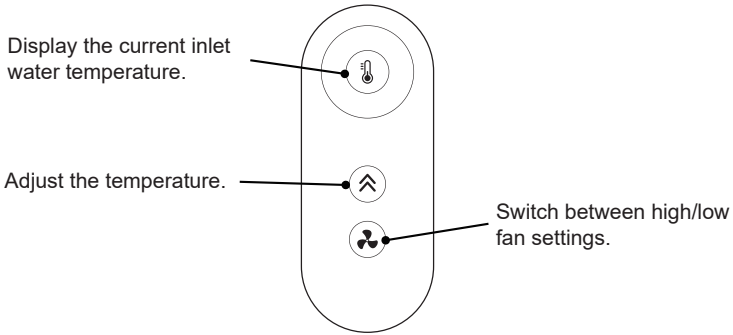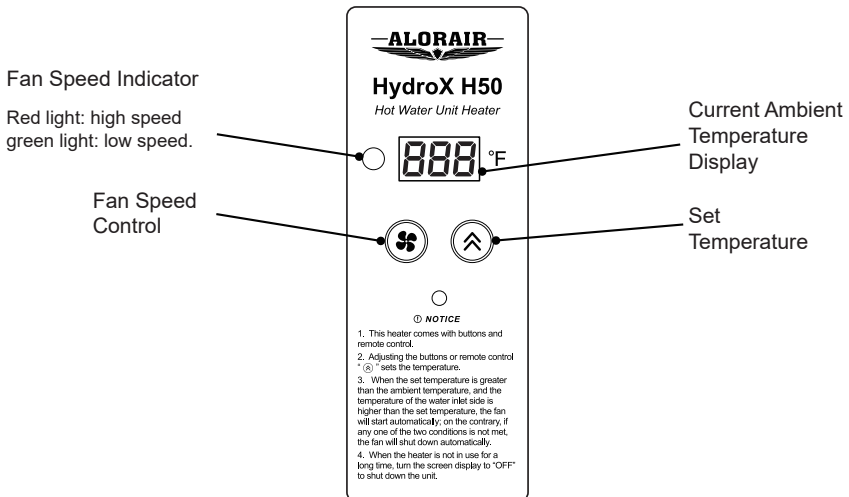Display the current inlet water temperature.

Adjust the temperature.

Switch between high/low fan settings.

• **SET Button:**

• **Fan Speed High/Low Button:**

Press the "Fan Speed High/Low" button to adjust the fan speed between high and low settings.

Fan Speed Indicator

Red light: high speed
green light: low speed.

Fan Speed
Control

─ALORAIR─

HydroX H50
*Hot Water Unit Heater*

888 °F

Current Ambient
Temperature
Display

Set
Temperature

ⓘ NOTICE

1. This heater comes with buttons and remote control.

2. Adjusting the buttons or remote control " ⓐ " sets the temperature.

3. When the set temperature is greater than the ambient temperature, and the temperature of the water inlet side is higher than the set temperature, the fan will start automatically; on the contrary, if any one of the two conditions is not met, the fan will shut down automatically.

4. When the heater is not in use for a long time, turn the screen display to "OFF" to shut down the unit.

# Function Description:

- **Heating Temperature Setting**

  After power is turned on, the screen displays OFF by default. Press the SET button (temperature setting signal) briefly, and the three-digit display will flash to show the current set temperature. Press the SET button again to cycle through the temperature range:          OFF → 60 ℉ → 62 ℉ → ... →118 ℉ → 120 ℉ → OFF.

  Once the desired temperature is selected, the unit will automatically save the setting after a short delay and return to displaying the current temperature. When the unit is powered on, the fan will either remain in standby mode or operate based on the selected settings. If the SET button is pressed repeatedly until the display shows OFF and no further action are taken, the unit will shut down automatically.

- **Water inlet temperature display**

  In the environment temperature display mode, press and hold the SET button to switch to the water inlet temperature display. After a short period, the display will automatically revert back to showing the environment temperature.

- **High/Low fan speed indicator**

  Fan speed indicator light (Red indicates high setting, green indicates low setting): The indicator light stays on during operation, and flashes slowly during standby mode.

- **Power Outage Memory Function**

  In the event of a power outage, the unit will resume operation in the same mode and settings as before the outage, provided the settings were successfully applied. If the settings were not applied prior to the power loss, they will not be retained.

  **The memory function includes:**
  - The set temperature.
  - The fan speed setting (high or low).

- **Error Codes**

| Error Codes | Problem | Solution |
|---|---|---|
| E1 | Environment Temperature Sensor Failure. | Check the environment temperature sensor. |
| E2 | Inlet temperature sensor malfunction. | Check the inlet temperature sensor. |

# Filter Cleaning

ALORAIR hot water unit heater comes with a filter to prevent debris from being drawn in and causing damage to the interior of the unit.

This filter can be washed and reused. Please clean the filter regularly to keep the unit functioning properly.

## WARNING

- Do not remove the filter while the heater is operating.

- Do not start the machine without the filter properly in place prevent to prevent debris from being drawn in and damaging the heater.

- If the unit has not been used for a long time, clean the filter before turning it back on.
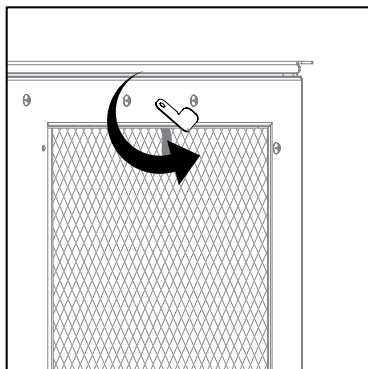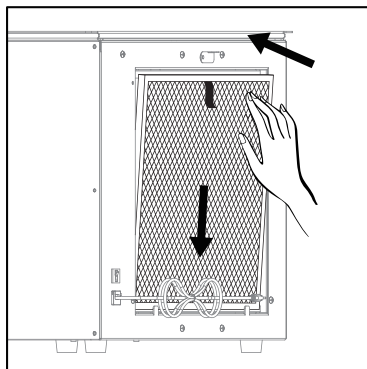


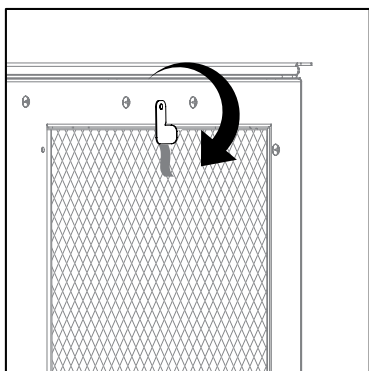**1** Rotate the filter holder to release the filter.
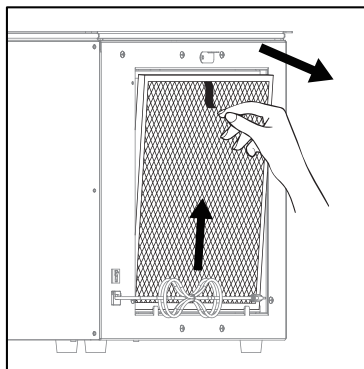
**2** Grasp the handle and carefully remove the filter.
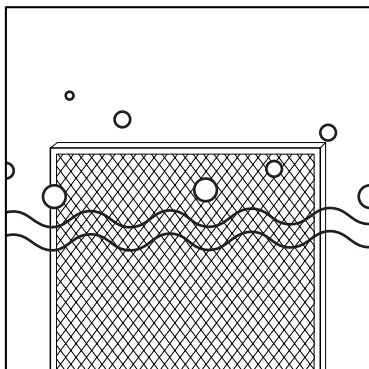
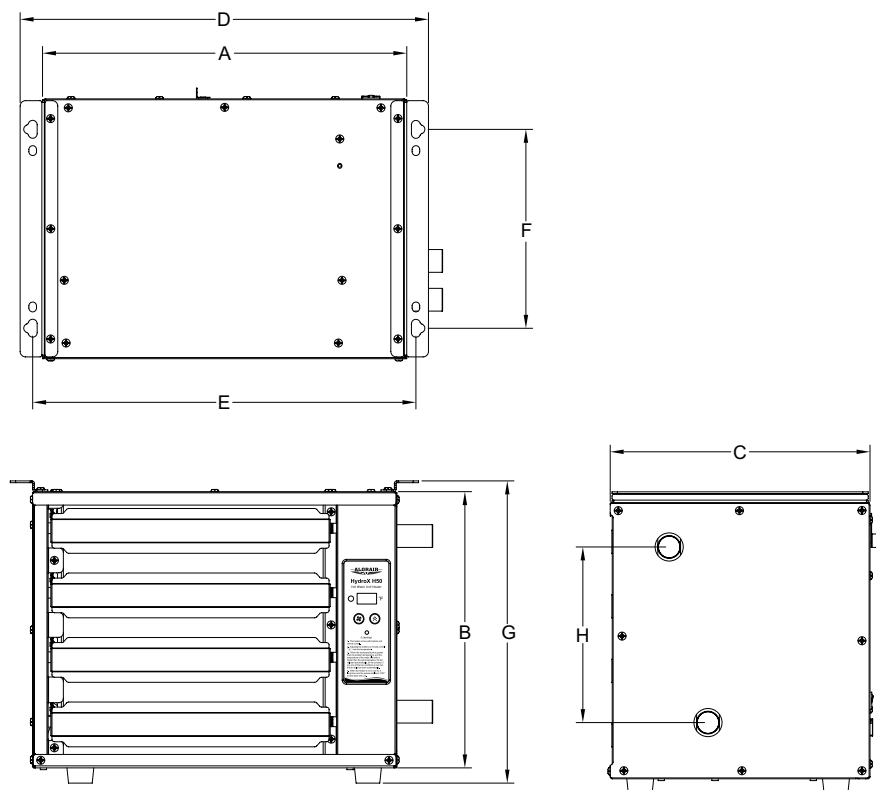**3** Clean the filter thoroughly and allow it to dry completely.



**4** Ensure the filter is completely dry before reinserting. Insert the bottom edge first, then push the filter inward to position it correctly.



**5** Rotate the filter holder to secure the filter.

# Dimensions



| Model | A | B | C | D | E | F | G | H | Port |
|-------|---|---|---|---|---|---|---|---|------|
| **HydroX H50** | 16 | 12.1 | 11.4 | 18 | 16.9 | 8.7 | 13.3 | 7.7 | 1 |
| **HydroX H50A** | (407) | (308) | (290) | (456) | (428) | (222) | (337) | (196) | (25.4) |
| **HydroX H100** | 20 | 16.1 | 13.5 | 22 | 20.9 | 10.7 | 17.2 | 11.7 | 1 |
| **HydroX H100A** | (509) | (409) | (342) | (558) | (530) | (272) | (438) | (296) | (25.4) |

**inch (mm)**

## Circuit Diagram
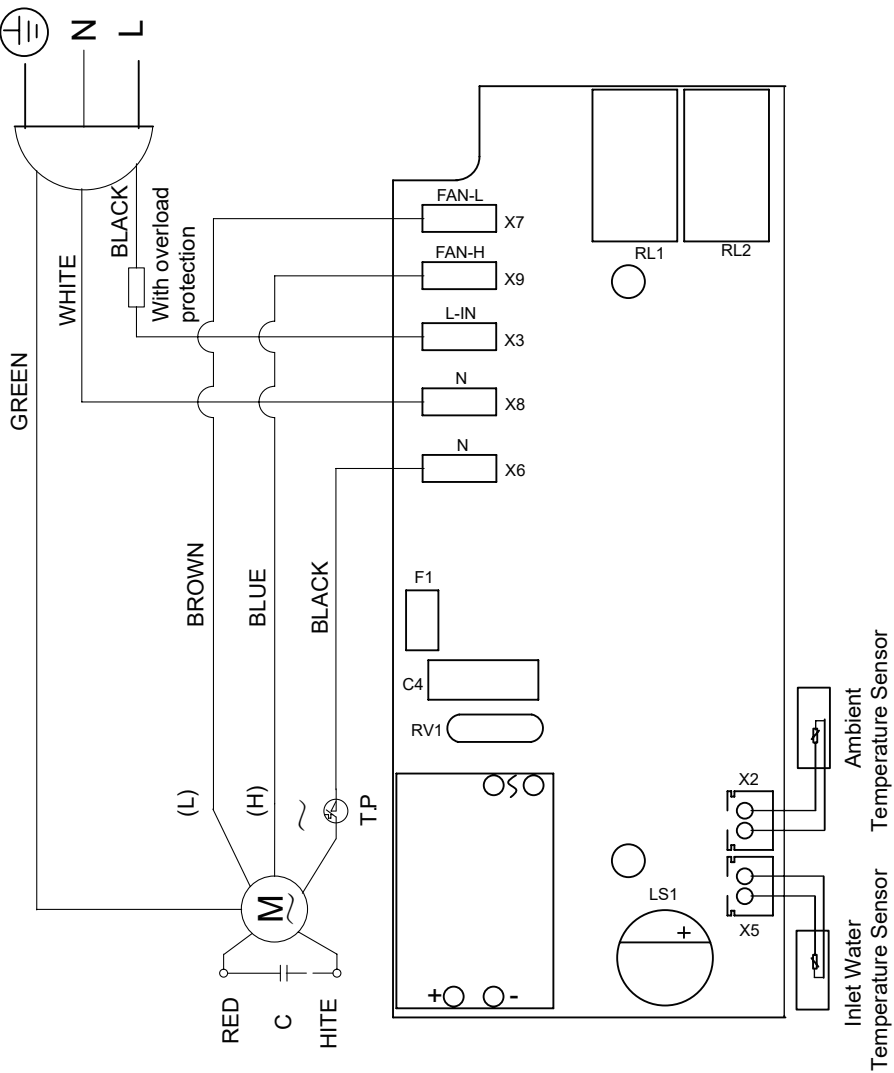
# Specifications

| Component | Description | Model | | | |
|---|---|---|---|---|---|
| | | HydroX H50 | HydroX H50A | HydroX H100 | HydroX H100A |
| | | Aluminum | Copper | Aluminum | Copper |
| **Heater** | Capacity | 50,000 BTU | | 100,000 BTU | |
| | Noise | 55 dBA | | 60 dBA | |
| | Power Cord | 10 ft | | 10 ft | |
| **Coil** | Port | 1" ID | | 1" ID | |
| | Coil Size | 12" x 12" | | 16" x 16" | |
| | OP.Temp. | 32 °F - 350 °F | | 32 °F - 350 °F | |
| | Design Pressure | 175 psi | | 175 psi | |
| | Test Pressure | 263 psi | | 263 psi | |
| **Blower** | Power | 65 W | | 80 W | |
| | Voltage | 110/120 V | | 110/120 V | |
| | Airflow | 500 CFM | | 1000 CFM | |

## Warranty

ALORAIR ensures the product components will be free of material defects in the workmanship of its materials for 3 years following the date of initial purchase of this product by a customer. This warranty is limited to the repair or replacement of defective equipment.

If it is necessary to return a unit for service, the customer is solely responsible for proper packaging and transportation costs. Customers must initiate the warranty process by contacting ALORAIR. Do not send any component or product back to ALORAIR without a return material authorization.

This limited warranty does not apply to any part or component that is damaged in transit, been subject to misuse, corrosion, chemicals, acts of God, has not been installed, operated, or serviced according to the seller's instructions, has been operated beyond the factory rated capacity, or has been altered in any way. Routine maintenance is not covered by this warranty.

This limited warranty is void if defect(s) result from failure to have this unit installed by a qualified heating and air conditioning contractor.

ALORAIR shall not be responsible for loss of function of any product, loss of time, inconvenience, or damage to other equipment, or any other indirect or consequential damage any to property whether as a result of a breach of warranty, neglect, or otherwise.

# ALORAIR WARRANTY REGISTRATION CARD

Return To:
AlorAir Solutions, Inc.

ORDER NUMBER: _____

MODEL: _____     SERIAL #: _____

INSTALLER: _____     INSTALLATION DATE: _____

NAME: _____

ADDRESS: _____

CITY: _____     STATE: _____     ZIP: _____

PHONE #: _____     EMAIL: _____

▲ If you have any questions, please feel free to contact us at (888) 990-7469 or visit www.alorair.com

▲ Register your unit for warranty using this link: www.alorair.com/page/Warranty--Warranty-registration

▲ Warranty Registration https://www.alorair.com or scan this QR code to direct you to the warranty registration website.

# AlorAir Solutions INC.

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