

Installation & Operation Manual



Model **ZAWTHCPV** Healthy Air Monitor



Specifications

Power	120 V 60 Hz / 5V 1A USB-C (included)
Wi-Fi Compatibility	2.4 GHz
Provisioning	Bluetooth LE
Operating Conditions	Recommended: 50°F to 105°F & 20% to 80% RH non-condensing Maximum/Minimum: 15°F to 122°F & 0% to 90% RH non-condensing
Storage Conditions	-40°F to 158°F & 0% to 95% RH non-condensing
Warranty	3 Years

Sensor Detection

Temperature Accuracy	32°F to 99°F: +/- 2°F 60°F to 80°F: +/- 1°F
Humidity Accuracy/Range	Accuracy: +/- 6% RH Range: 0 to 95% (non-condensing)
Particulate Matter 2.5 Accuracy/Range	Accuracy: +/- (5 µg/m³ and 15% measured value) Range: 0 to 1000 µg/m³
TVOC Accuracy/Range	Accuracy: The monitor will achieve +/- 20% variation from device to device when tested with a specified VOC gas mixture. Range: 1 to 500 VOC Index
CO₂ Accuracy/Range	Accuracy: +/- (50 + 5% measured value) ppm Range: 0 to 5000 ppm

The monitor requires 7 days to calibrate TVOC and CO₂ after first being powered on.

Features

Better Sensing

- Uses EPA guidelines combined with proprietary algorithms to provide a more complete view of Indoor Air Quality
- 5-in-1 Sensor: Detects particulate (PM2.5), fumes (TVOC), carbon dioxide (CO₂), humidity (RH%), and temperature

Personalized Insights

- Provides clear, easy-to-understand insights and actions personalized to each condition

Healthier Living

- Automatically creates healthier living conditions when combined with the AprilAire Healthy Air System®
- Takes the guesswork out of Healthy Air

AprilAire Healthy Air App

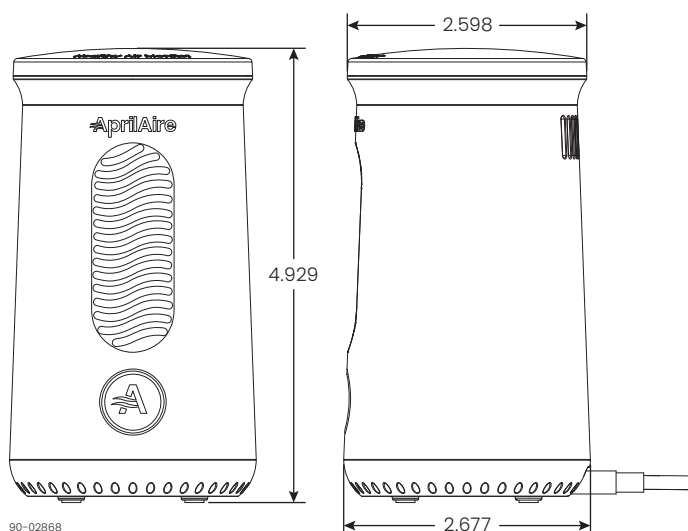
- Receive instant alerts when your Indoor Air Quality becomes unhealthy in your home
- Learn more about Indoor Air Quality, its effects on your health, and steps to take to mitigate any concerns
- Get a more complete picture of the air quality within your home through historical views

Additional Features

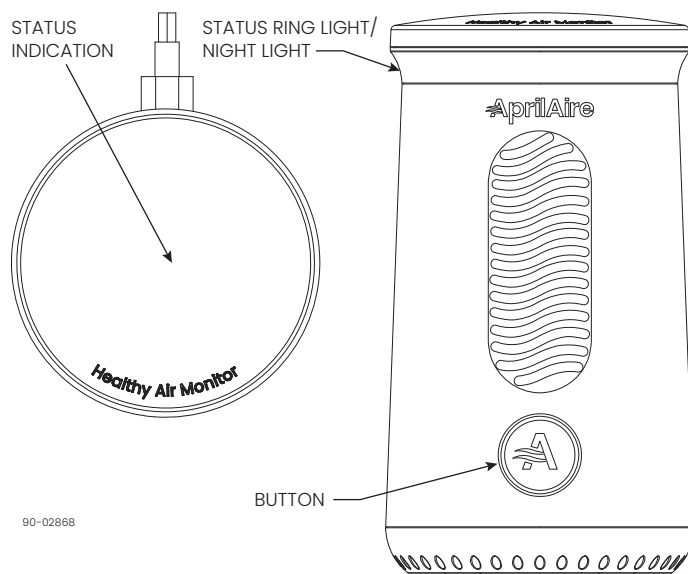
- 3 different operation modes to best meet your lifestyle: Default, Always Off, Always On
- Use the ring light as an optional Night Light
- Wave your hand over the top to briefly check your air quality

READ AND SAVE THESE INSTRUCTIONS

Dimensions (inches)



Sensor LED and Button Functionality



Safety Considerations

⚠ WARNING



This product is classified as a Class 1 Laser product according to IEC 60825-1:2014 and DIN EN 60825-1:2022 standards. It is safe to operate without additional precautions. Do not open for servicing. Do not operate when damaged. Failure to follow this warning may result in direct exposure to the invisible Class 3R laser source and permanent eye damage.

Placement Recommendations

Monitor should be placed:

- At breathing height: Around 3 to 6 feet (1 to 2 meters) above the floor
- In a central location: Such as a living room or frequently used space with typical air circulation
- Away from windows and doors: To avoid drafts that can skew readings

Monitor should not be placed:

- In direct sunlight or near heat sources: Excess heat from sunlight, lighting fixtures, cooktop, or other electronics can distort temperature and pollutant readings
- In bathrooms or very humid areas: Excess moisture may affect sensor performance or shorten lifespan
- Behind furniture or curtains: Obstructions can prevent air from reaching the sensors
- Near vents, fans, or direct airflow: HVAC vents or open windows can cause inaccurate readings due to rapid air changes

DEFINITIONS

Provisioning: Begins the process to connect the device to your Wi-Fi network and register it to your account.

Unprovisioning: Disconnects the device from your account or prepares it for setup by another user.

Factory Reset: This action permanently erases all user data, Wi-Fi settings, Bluetooth pairings, cloud account links, custom settings, and security certificates.

TABLE 1: BUTTON FUNCTIONS

Action	Behavior after hold duration (before release)	Function on button release
Press	N/A	• Turn Night Light on/off
5-15 second hold	Ring light LEDs blink blue	• Initiate Provisioning • Continues blinking blue until cloud connected • Remains in provisioning mode for 2 minutes
15-30 second hold	Alternate blinking blue and red ring light LEDs	• Initiate Unprovisioning • Continues blinking blue and red until Unprovisioning is complete • Once complete, device will initiate Provisioning and lights will continue blinking blue until cloud connected
>30 second hold	Ring light LEDs blink red	• Initiate Factory Reset • Ring light LEDs blink when complete

Download the App



Search and install the **AprilAire Healthy Air App** and create an account.*



*Not all previous versions of Android or iOS are supported.

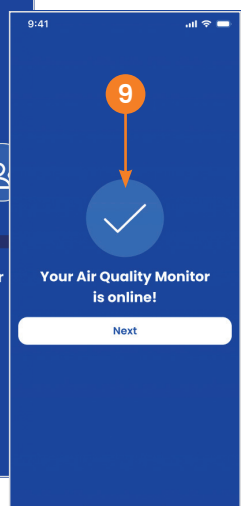
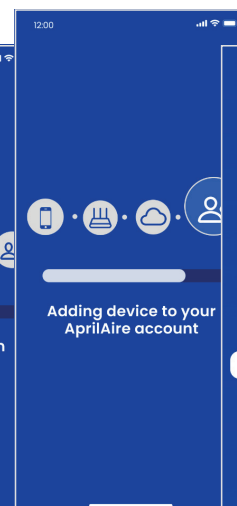
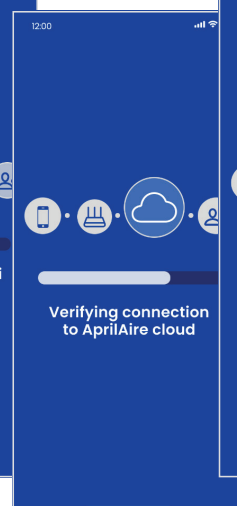
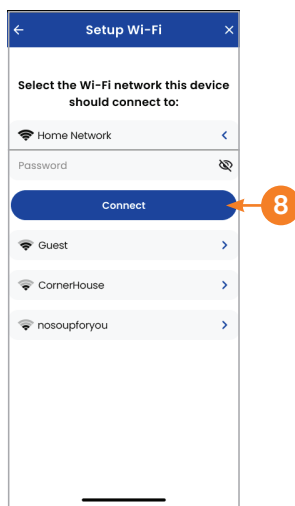
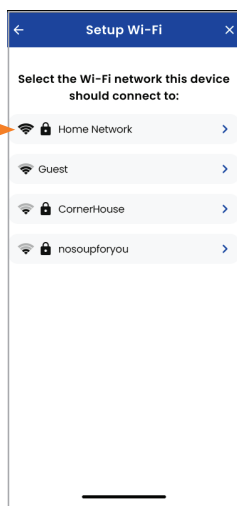
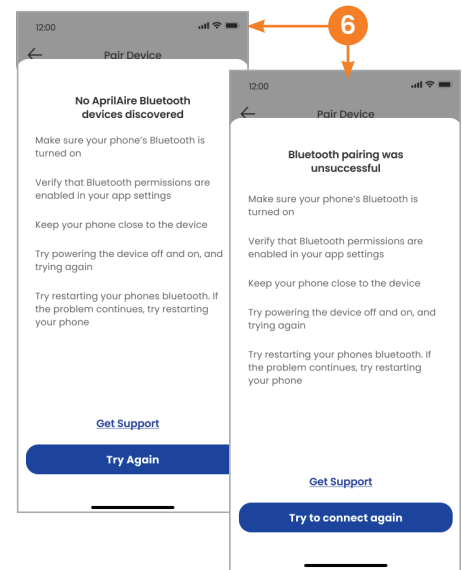
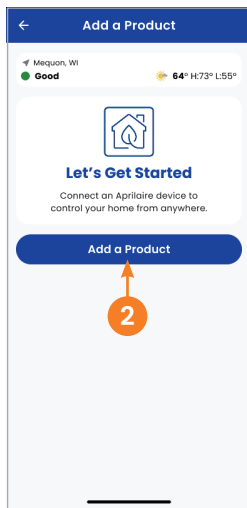
Connect to Wi-Fi

1. Plug your Healthy Air Monitor into a wall outlet using the included power adapter.
2. Select the **Add a Product** button.
3. Select **Air Quality Monitors** and then select your Healthy Air Monitor.
4. Press and hold the button on the front of the Healthy Air Monitor for 5 seconds until the device starts blinking blue to start the pairing process.
5. When your Healthy Air Monitor is available on the **Pair Device** page, select **Connect**. To complete the Bluetooth connection, follow the phone's pairing prompts.
6. **NOTE:** If no devices are found or pairing is unsuccessful, follow troubleshooting given on the app.

7. Find and select the Wi-Fi network to connect to.
8. Enter the Wi-Fi network's password, and select **Connect**.
9. Wait for success!

NOTE: If a provisioning incomplete display is shown, try again or contact AprilAire support.

If a red **Failed to...** page displays, this indicates that something went wrong while trying to connect. See **TABLE 7**.



LED Light Functions

TABLE 2: LED STATUS

Green	"Good" status
Yellow	"Fair" Status
Orange	"Concerning" status
Red	"Unhealthy" status
Blinking blue once per second	Connectivity status (pairing mode). NOTE: The sensor exits pairing mode after 2 minutes.
Blinking blue and red once per second	Connectivity status (Unprovisioning)
Blinking blue and white once per second	Internet Loss (ISP or Cloud issue)
Chasing Blue lights	Wi-Fi Loss (Lost router connection)
All 4 wording LEDs blink	Sensor fault
Ring light LEDs blink red	Factory Reset

Operation Modes

TABLE 3: WHEN NIGHT LIGHT OFF

		Idle	Proximity Sensor activated	IAQ status state change	Wi-Fi / Cloud Disconnection
Default	Indication Wording	Always on	Remain On	Remain on	N/A
	Ring Light	Off	IAQ Status on for 15 seconds (including fade on/off)	On for 15 seconds (including fade on/off)	Behavior as described in LED Light Function
Always Off	Indication Wording	Off	IAQ Status on for 15 seconds	Off	Off
	Ring Light	Off	IAQ Status on for 15 seconds (including fade on/off)	Off	Off
Always On	Indication Wording	Always remain on	Always remain on	Always remain on	N/A
	Ring Light	Always remain on	Always remain on	Always remain on	Behavior as described in LED Light Function

TABLE 4: WHEN NIGHT LIGHT ON

		Idle	Proximity Sensor activated	IAQ status state change	Wi-Fi / Cloud Disconnection
Default	Indication Wording	Always on	Remain on	Remain on	N/A
	Ring Light	Night Light on	IAQ Status on for 15 seconds (including fade on/off)	Night Light on	Behavior as described in LED Light Function
Always Off	Indication Wording	Night Light indicator (on)	IAQ Status on for 30 seconds	Night Light icon on	Off
	Ring Light	Night Light on	IAQ Status on for 15 seconds (including fade on/off)	Night Light on	Off
Always On	Indication Wording	Always remain on	Always remain on	Always remain on	N/A
	Ring Light	Night Light on	IAQ Status on for 15 seconds (including fade on/off)	Night Light on	Behavior as described in LED Light Function

Healthy Air Mode

- Healthy Air Mode will automatically take mitigation action to improve the Indoor Air Quality when the Healthy Air Monitor senses a potential concern
- Mitigating actions can include operating the home's central filtration system, central ventilation system, or a combination of both
- Healthy Air Mode is enabled within the **Healthy Air App**, and is only available when the system detects all required components are available

TABLE 5: SYSTEM COMPONENT REQUIREMENTS FOR HEALTHY AIR MODE

Sensor	• 1 or more AprilAire Healthy Air Monitors
Thermostat	• AprilAire 8840 (FW 3.4.1 or later) • AprilAire 8920W (FW 3.4.1 or later) • AprilAire S86WMUPR (FW 1.8.1 or later)
Mitigating Equipment	• Central Filtration System, enabled on the thermostat and/or • AprilAire Whole-Home Ventilation System, connected to and enabled on the thermostat
App	• AprilAire Healthy Air App with Healthy Air Monitor(s) and Thermostat(s) provisioned

Factory Reset

If you need to restore the Healthy Air Monitor to its original factory settings, press and hold the button on the device for 30 seconds. The ring light will blink red, indicating that the factory reset process has started. This will:

- Clear all Wi-Fi and user account information
- Remove any stored settings or configurations
- Return the device to its original out-of-box state

Refer to the **Healthy Air Monitor Quick Start Guide** for instructions on setting up the device after a factory reset.

Troubleshooting

CLEARING ROUTER SETTINGS

If you purchase a new Wi-Fi router or change the security settings on your existing router, the router settings on the Healthy Air Monitor need to be cleared so the new Wi-Fi router settings can be entered. To do this, press the button on the Healthy Air Monitor for 5 seconds until the ring light starts blinking blue. Refer to the **Healthy Air Monitor Quick Start Guide** for instructions on connecting the Healthy Air Monitor to your Wi-Fi network.

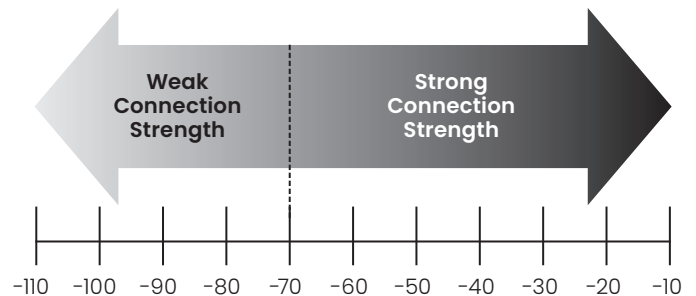
REMOVING THE HEALTHY AIR MONITOR FROM A USER ACCOUNT

The Healthy Air Monitor can only be registered to one account. If you need to remove the Healthy Air Monitor from an existing account so it can be registered to a new account, it can be done by holding the button on the device for 15 seconds. This will remove the Healthy Air Monitor from any account that it is currently registered to. Refer to the **Healthy Air Monitor Quick Start Guide** for instructions on registering the Healthy Air Monitor to a new account.

WI-FI CONNECTIVITY

If the sensor is experiencing connection issues, verify the following:

1. Connect the Healthy Air Monitor to a Wi-Fi network to verify the latest firmware is installed. The latest firmware will automatically install once connected to Wi-Fi.
2. Within the AprilAire app, note the RSSI value located within the Healthy Air Monitor Settings. The RSSI value should be greater than -70 dBm (see illustration below).
 - a. If the RSSI value is less than -70 dBm, relocate the sensor and check the RSSI value again.
 - b. If the RSSI is greater than -70 dBm and connection issues persist, contact AprilAire customer support at 800.334.6011.



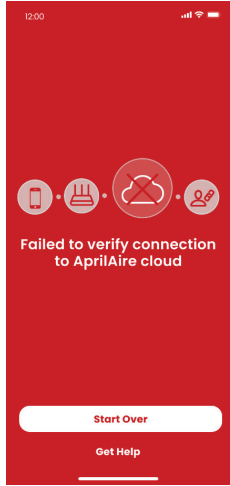
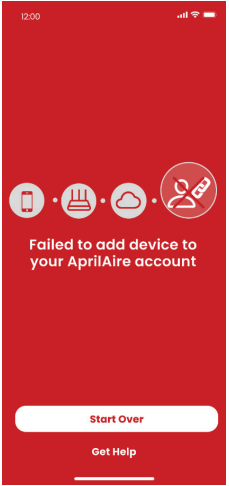
BUTTON OPERATIONS

TABLE 6: BUTTON LOGIC

Device Network State	Press	5 second hold	15 second hold	30 second hold
Provisioned & Connected to Cloud	Turn Night Light On/Off	No Action	- Initiate Unprovisioning (see TABLE 1 on page 2) - Once complete, initiate Provisioning	Initiate Factory Reset (first step is to Unprovision)
Provisioned & No Cloud Connection	Turn Night Light On/Off	Initiate BLE Provisioning	Initiate BLE Provisioning	No Action
Not Provisioned	Turn Night Light On/Off	Initiate BLE Provisioning	No Action	Initiate Factory Reset

PROVISIONING

TABLE 7: PROVISIONING TROUBLESHOOTING

Failure to connect to Wi-Fi network	Failure to connect to AprilAire cloud	Failure to connect to AprilAire account
 This page will prompt the specific failure that occurred. For example, it will inform if the password for the Wi-Fi network was incorrect.	 This failure may indicate that the monitor is already connected to an AprilAire account. Alternatively, the monitor itself may still be registered to a previous account. If so, pressing and holding the button on the monitor for 30 seconds will factory reset, allowing you to complete the setup successfully.	 This failure may indicate that the monitor is already linked to an existing AprilAire account. Press and hold the device button for 15 seconds to unregister the monitor, then try setup again. Alternatively, the issue may be due to a temporary cloud outage. If so, wait a few minutes and restart the process.

IC Warning

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-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.

法语警告语句

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes : (1) Cet appareil ne doit pas causer d'interférences. (2) Cet appareil doit accepter toutes les interférences, y compris celles susceptibles de provoquer un fonctionnement indésirable de l'appareil.

FCC and ISED Compliance Statements

Contains FCC ID: 2AC7Z-ESPS3MINI1

Contains IC: 21098-ESPS3MINI1

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's License-exempt RSS standard(s). 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Interference Statement – Part 15.105 (b)

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 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.

To comply with FCC and Innovation, Science and Economic Development Canada's RF exposure limits for general population/uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.

Limited Warranty

Terms of Coverage

Your AprilAire® Healthy Air Monitor is expressly warranted to be free from defects in materials or workmanship for three (3) years from date of purchase.

What Is Covered

The exclusive obligation of AprilAire under this Limited Warranty shall be, at the sole discretion of AprilAire, to supply, without charge, a replacement for any component or product which is found to be defective. A defective part will be replaced pursuant to this Limited Warranty with a genuine AprilAire part. A defective product will be replaced pursuant to this Limited Warranty with a new AprilAire product of equal or similar features and functionality if the original product has been discontinued or is no longer available.

Not Covered by the Limited Warranty

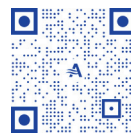
- Consumable or maintenance products, such as, but not limited to: Air Filters, Evaporative Humidifier Water Panels, Steam Canisters, or Steam Humidifier Electrode Wires.
- Products purchased from third parties that were previously used, such as previously-used products purchased from eBay, similar third party/auction sites, or individuals selling used products.
- Labor charges, shipping costs, removal fees, service fees, or reinstallation costs.
- Materials furnished by the installer.
- Damage caused by misuse, abuse, improper installation, or failing to install, use, or maintain the product in accordance with the instructions provided.
- Damage to HVAC equipment caused by improper installation(s) or misapplication installation(s).
- Modifications, changes, repurposing, or alterations to the AprilAire product.
- Extended warranties or satisfaction guarantees offered by third parties.
- Cosmetic damage or normal wear and tear, including, but not limited to: scratches, peeling finish, or dents that do not impede the mechanical functionality of the product.
- Damage caused by acts of nature, including but not limited to: fire, collision, flood, wind, power surge, lightning strike, or mold.
- Damage caused during transit.
- Damage caused during installation due to failure to follow local, state, or federal laws, statutes, codes, or ordinances.
- Damage caused by defects in materials furnished by the installer.

Limit of Liability

IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE FOREMENTIONED EXPRESS WARRANTY PERIOD. APRILAIRE LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OTHER THAN DAMAGES FOR PERSONAL INJURIES, RESULTING FROM ANY BREACH OF THE FOREMENTIONED IMPLIED WARRANTIES OR THE ABOVE LIMITED WARRANTY IS EXPRESSLY EXCLUDED. THIS LIMITED WARRANTY IS VOID IF DEFECT(S) RESULT(S) FROM FAILURE TO INSTALL THE PRODUCT ACCORDING TO THE APRILAIRE INSTALLATION INSTRUCTIONS. IF THE LIMITED WARRANTY IS VOID DUE TO MISAPPLICATION OR IMPROPER INSTALLATION, ALL DISCLAIMERS OF IMPLIED WARRANTIES SHALL BE EFFECTIVE UPON INSTALLATION.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation(s) may not apply to your situation. This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Register Your AprilAire® Product



Thank you for choosing AprilAire. Register your product at aprilair.com/warranty to receive important updates and notifications, and to streamline the process in the unlikely event you file a claim.

Your warranty registration information will not be sold or shared outside of this company.

Make a Warranty Claim

For questions regarding the Limited Warranty or to initiate a claim, contact AprilAire Customer Service at 1.800.334.6011 Monday through Friday, 7:00 a.m. to 5:00 p.m. Central Time.

At the sole discretion of AprilAire, you may be required to: return the product not later than thirty (30) days after the warranty period to the place of purchase or (if directed) to AprilAire, contact a professional contractor to provide warranty service, submit a product for testing related to a warranty claim, and/or send pictures of the original product with the serial number (if applicable) to AprilAire Technical Support for inspection as a condition to reviewing a claim and/or receiving a replacement product under this Limited Warranty.

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