

# PROLITEC

PERFECTLY SCENTED ENVIRONMENTS

## AirQ 890



**AIRQ**  
BY PROLITEC

Original Instructions

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# Contents

## Chapter 1: IMPORTANT SAFETY INSTRUCTIONS

Appliance Precautions  
Fragrance Cartridge Precautions  
FCC Statement – Class B Digital Device

## Chapter 2: About AirQ 890

## Chapter 3: Unpacking

Labels

## Chapter 4: MOVING AND STORAGE INSTRUCTIONS

## Chapter 5: INSTALLATION

General

Location

Service Area

Estimating Cartridge Life

AQ890 Room-Size Table

Appliance Location

## Chapter 6: SCENXUS INSTALLATION

Connecting the Device

Accessing the Portal

Adding the Device to the Portal

Adjusting Settings and Schedules

## Chapter 7: OPERATING INSTRUCTIONS

Features and Controls

Setting Up the Cartridge

Programming the Appliance

USB Programming & Firmware Updates

Setting Scent Intensity

Scent Control

## Chapter 8: USER MAINTENANCE

Cartridge Change

Cartridge Change Maintenance Checklist

General Care

## Chapter 9: Applications

Ambient Scenting

Product Marketing

Odor Control

Aromatherapy and Performance Scenting

## Chapter 10: Frequently Asked Questions

## Chapter 11: Specifications

## IMPORTANT SAFETY INSTRUCTIONS

The most up-to-date version of this manual is available for download at [airqmanuals.com](http://airqmanuals.com)

### IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS

#### Appliance Precautions

1. **WARNING** – When using electric products, basic precautions should always be followed, including the following:
  - Read all the instructions before using the product.
  - Children should be supervised not to play with the appliance.
  - Do not put fingers or hands into the product.
  - The appliance must be operated in an upright or vertical position.
  - The appliance should not be used with the door in the open position. The door is opened only to perform a cartridge or program change.
  - Never put your nose to the output of the AQ890. Within 12 inches of the output, the fragrance is highly concentrated. The improper inhalation of high concentrations of fragrance may cause irritation including watery eyes, headache, cough and upper respiratory discomfort.
  - This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
2. **INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS**
  - The appliance is built to be plugged into an 110VAC or 220VAC power outlet. Must be used only with the approved and included power supply. The UL and CE compliant power supply converts power to 15VDC to power the appliance. The appliance must only be supplied at Safety Extra Low Voltage (SELV), corresponding to the marking on the appliance.
  - If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.
  - Unplug before cleaning.
  - To reduce the risk of electric shock, the appliance should only be plugged into a properly grounded outlet box. If there is any doubt as to whether an outlet box is properly grounded, a qualified electrician should be consulted.
  - It is recommended that the user remove the appliance from the wall to test and reset the GFCI outlet on a regular basis.

## Fragrance Cartridge Precautions

- Use only AirQ by Prolitec fragrance cartridges.
- Read the Consumer Product Safety Information Sheet and the Material Safety Data Sheet provided with each shipment of Cartridges. Insure that these information sheets are available for review by employees.
- Use latex gloves to handle a Cartridge to avoid the liquid getting on hands. The AirQ fragrances are formulated so as to not be harmful in contact with the skin, but the concentrated nature of the fragrances may make the scent difficult to remove from hands and skin.
- Wash your hands after all contact with Cartridges or fragrance.
- While AirQ Air Treatment Agents do not contain ingredients deemed harmful to the skin, if there is skin contact, wash with soap and water. If there is contact with the eyes, irrigate the eye with fresh water for 5 minutes. If there is any eye irritation, consult a physician immediately.

## FCC Statement – Class B Digital Device

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. If not installed and used in accordance with the instructions, this equipment 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.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

## About AirQ 890

Welcome to a whole new world of air treatment from Prolitec, the technology leader in air care with scent. The AQ890 is the most advanced commercial air-treatment system on the market today. It is the world's first fully adjustable commercial air-treatment system engineered to serve indoor spaces.

AQ890 is a patented, computer-controlled, always-on system capable of maintaining a constant, uniform and controlled level of scent or odor neutralizer.

The AQ890 converts fragrances and odor control formulations ("Agents") into ultra-fine droplets for controlled distribution as an aerosol or vapor directly into a room. It is designed for permanent installation on a wall in the area to be treated.

The AQ890 is managed by an on-board computer that is fully adjustable, enabling intensity settings to match space sizes from 200 to 30,000 cubic feet (10-850 cubic meters). The AQ890 is programmable, capable of executing 21 distinct start and stop times, repeatable daily or weekly. Utilizing up to 21 programs and the full range of 50 intensity settings allows you to optimize the fragrance levels depending on peak and non-peak occupancy in the space. This new feature can save you money on fragrance AND service visits.

Typical AQ890 applications include air treatment to enhance or improve indoor air quality including odor cancelling, and ambient scenting in public spaces such as casinos, malls, hotels, theaters, ballrooms, convention centers, hospitals, retirement and assisted living facilities, schools and restrooms. A single AQ890 can do both odor control and ambient scenting at the same time.

The AQ890 with Prolitec odor control formulations and fragrances will cancel a wide range of offensive odors and replace them with pleasant scents available from the Prolitec fragrance catalog or custom developed to meet client requirements.

The AQ890 works by generating ultra fine, ultra-light droplets approximately 1 micrometer ( $\mu\text{m}$ ) in diameter. By comparison, a droplet from a typical pressurized aerosol spray can is 50 microns (50000 nanometers) in diameter or 50 times larger than an AQ890 droplet. In terms of weight and volume of liquid, the comparison is even more dramatic. A 50-micron aerosol droplet is 125,000 times heavier than a 1  $\mu\text{m}$  AirQ droplet.<sup>1</sup> (See also Table 1 below.) This tiny AirQ droplet offers many performance benefits over a conventional aerosol including: completely uniform distribution of the treatment agent; 50 times more exposed surface area; and the absence of any liquid deposits on surfaces.

AQ890 is simple to install and program for specific room size, airflow conditions, and desired scent intensity. Minimal maintenance is required beyond the periodic change of the disposable fragrance cartridge, bi-annual replacement of one battery, and a simple wipe down or dusting of exterior surfaces. Once installed in the right location, AQ890 will outperform any other system, providing completely uniform scent distribution.

The AQ890 advanced technology creates a scent effect with a smaller quantity of fragrance ingredients than any other method. The chemicals employed in making AQ890 fragrances are fully compliant with the most restrictive air-quality and inhalation standards. AQ890 generates no harmful VOCs and uses no ethanol or propellants. Quite simply, used as directed, AQ890 is the greenest, most eco-friendly way to introduce scent into an interior space with no negative impact on indoor air quality. This is not an accident. The scientists and engineers at Prolitec are committed to the highest ecological and human safety standards.

This user guide is easy to read. It is also important to read. AQ890 is a high-performance appliance that, installed and used correctly, will meet the most demanding requirements.

**Table 1. Prolitec AirQ Technology vs. Aerosol Spray Can Technology**

Parameter	Prolitec AirQ Technology	Aerosol Spray Can
Droplet Diameter, $\mu\text{m}$	1	50
Volume per Droplet, $\mu\text{m}^3$	0.52	65,450
Surface Area per Droplet, $\mu\text{m}^2$	3	7,854
Relative Volume per Droplet	1	125,000
Relative Weight per Droplet	1	125,000
Number of Droplets per Equivalent Volume	125,000	1
Surface Area/Volume, $\mu\text{m}^1$	6.00	0.12
Relative Surface Area per Volume	50	1
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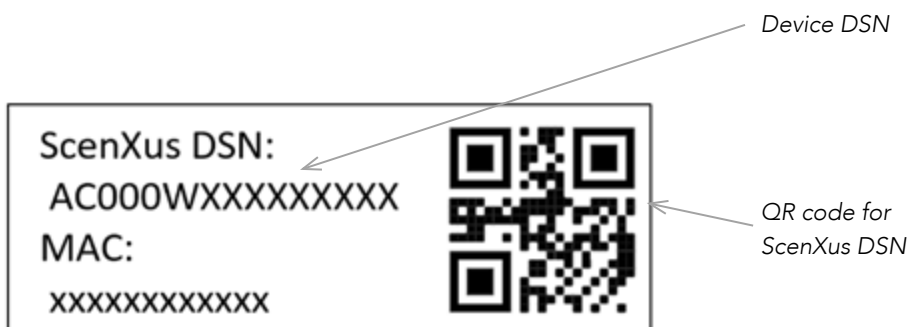
## Unpacking

Remove the appliance from the container. The following items should be included:

1. AQ890 Appliance
2. Power Supply
3. Key



## Labels



## MOVING AND STORAGE INSTRUCTIONS

1. Remove the cartridge.
2. Unplug the appliance.
3. Store at -4°F (-20°C) to 158°F (70°C), 5% to 95% humidity

## Installation

### General

#### Location

The AQ890 is designed for freestanding operation on floor surfaces near a 110 to 240V outlet.

#### Service Area

The service area range of AQ890 is from 200 to 30,000 cubic (10 to 850 cubic meters). Of course this can vary significantly depending on airflow, number of fresh air changes per hour, temperature, humidity and desired service interval. The AQ890 can be adjusted from 1 to 50 to accommodate these variations.

## Estimating Cartridge Life

Estimating how long a cartridge will last and the number of days between services is critical to performing an installation that can be serviced efficiently. This includes determining the number of AQ890s needed for a space. Please refer to AirQ's 'S4 (Sizing, Service & Success) Tool,' available at [AirQTools](#). The chart below can be used as a rough guideline for sizing.

### AQ890 Room-Size Table

Output Level Range	Room Volume Range (all off-cycles)	
	CFT	CM
1-5	1400 - 5800	40 - 160
6-10	6900 - 10800	200 - 310
11-15	11700 - 15300	330 - 430
16-20	16100 - 19200	460 - 540
21-25	20000 - 22800	570 - 640
26-30	23300 - 25800	660 - 730
31-35	26300 - 28400	750 - 800
36-40	28900 - 30700	820 - 870
41-45	31200 - 32800	880 - 930
46-50	33200 - 34500	940 - 980

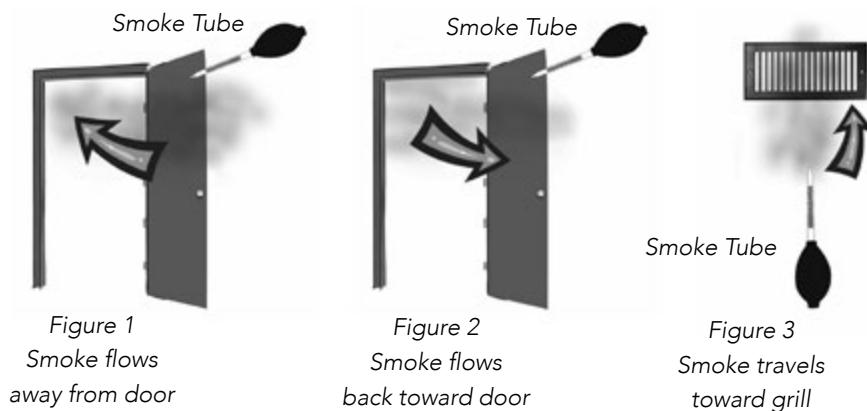
These settings are suggested as a starting point. Start on the lower end of the range and adjust after one hour. Fragrance type, room size, number of fresh air changes per hour, temperature, humidity and user preference will determine the final setting. Best practice is to use AirQ's 'S4 Tool' at [ProlitecCSPTools.com](#).

## Appliance Location

1. Placement of your appliance is the KEY TO OPTIMAL PERFORMANCE. It is important to identify a location where the output of the AQ890 can use, rather than fight, the natural air currents in a room.
2. Air currents in a room are determined by using a SMOKE TEST KIT available from Prolitec or any source of smoke or vapor, such as a candle or match.
3. To conduct a smoke test, stand at the entrance of the room in front of the door and observe the direction of the smoke or vapor. If the smoke drifts into the room your appliance should be installed somewhere near the door.



See Figure 1. If the smoke drifts out of the room, the AQ890 appliance should be placed furthest from the door. See Figure 2. If there is no clear direction that the smoke travels or it travels upward into the air-conditioning return grill, find a position near the air-conditioning supply grill. See Figure 3.

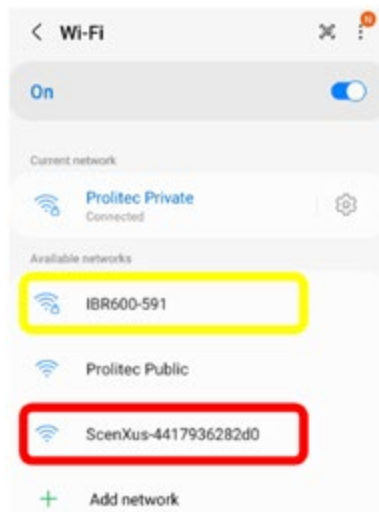
NOTE: The location of the AQ890 MUST NOT be near an HVAC return grill, exhaust fan or vent, or an open door or window through which air is leaving the space. Remember, you want to work with the natural air flow, not against it.



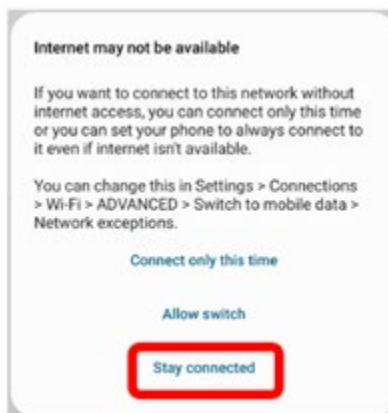
## ScenXus Installation

### Connecting the Device to WiFi

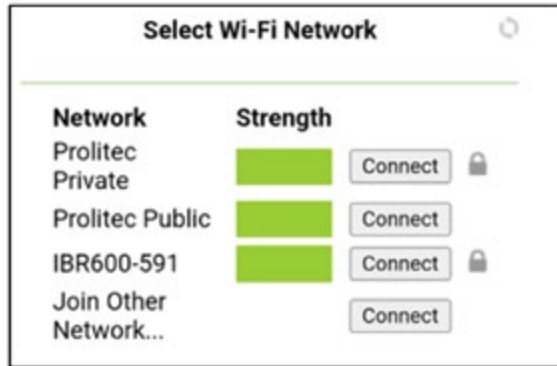
1. Unpack and install the appliance as normal, connecting the device to power.
2. On the appliance LCD screen, the network icon  will blink and the access-point icon  will turn solid.
3. Locate the serial number label and the ScenXus label inside the appliance. Take a photograph for future reference
4. While remaining in the approximate installation location of the appliance, navigate on your smartphone to "settings" and "WiFi settings".
5. Make sure you see both a "ScenXus..." network and the network that will provide internet access to your ScenXus device. If you do not see a "ScenXus..." network, you may need to return your device to AP Mode by pressing the device 'reset' button.



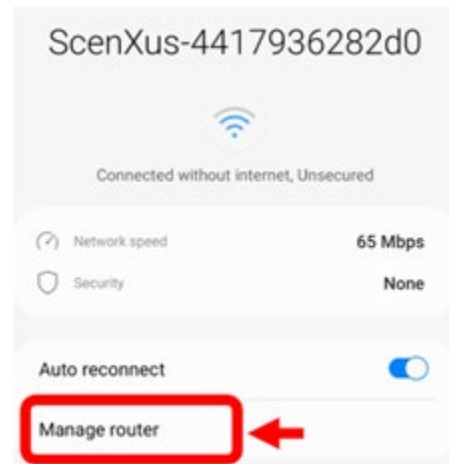
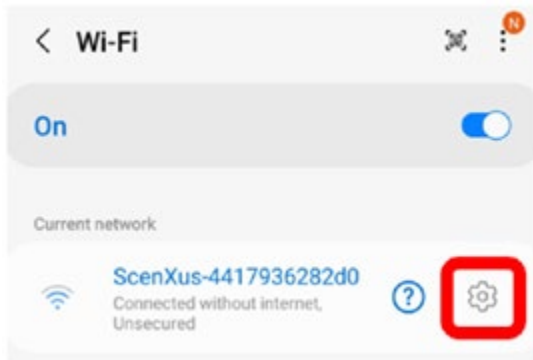
6. Select the network named "ScenXus..." Note: on Android phones, you may need to select "Stay connected," since the ScenXus device doesn't have internet access yet.



7. Networks available for ScenXus will then be displayed.



Note: This is automatic for most iPhones. On most Android phones, you may need to select the settings icon and "manage router" or open a web browser and enter the IP address 10.231.227.81 to see the list of networks.



8. Connect to the network that will provide your ScenXus device with internet access.




- Enter the password for that WiFi network and select "connect".



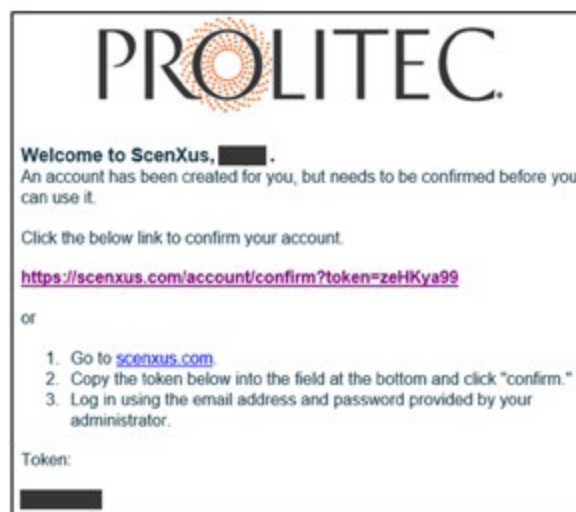
- Wait as your smart phone disconnects from the ScenXus device, the ScenXus device connects to the local WiFi, and the local WiFi connects to the ScenXus cloud via the internet. When complete, you'll see the message, "connection complete".



- The network icon  should turn solid and the WiFi signal strength indicator  should appear.

## Accessing the ScenXus Portal

- Request an account from your admin.
- Check your email for a confirmation code from admin@scenxus.com. Be sure to check your junk and spam folders.



3. Navigate to scenexus.com.



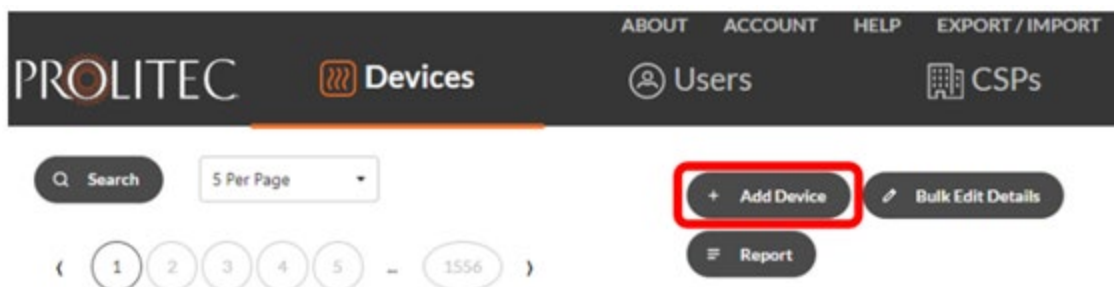
4. Click the "confirm account" link and use the code from the email.



5. Reset the temporary password you received from your admin using the "forgot password" link.

## Adding Device to ScenXus Portal

1. Sign in using your email and password.
2. From the "devices" page, click the "add device" button in the upper right.



3. Enter the appropriate device information. ScenXus DSN, as well as the appliance model number and serial number, can be found on appliance labels. Fragrance type can be found on the cartridge label.

Enter location and time zone details of the device. *Note: do not use "Detect Location" unless the computer you are using is near the device being added.*

4. Click "Add Device" and confirm it was added successfully.

### Add Device

**NAME**

Customer \*      Service Area (Device Name) \*

Customer ID      Store Number

**ID**

Serial # \*      DSN \*

System Configuration \*      Fragrance \*

AQ380 / 500 ml     

**LOCATION**

Latitude      Longitude      Time Zone \*

City \*      State/Province      Country \*

## Adjusting Settings & Schedules

1. From the "devices" page, search for the appliance.
2. Click anywhere on the row to bring up the device details page.

**Device Details**

[Back](#)   [Copy Device Details](#)  
[Reset Fragrance Level](#)

NAME	ID	LOCATION	PRODUCT
CSP Test	Serial # 2206000001	Country United States	Mode 24/7
Customer Prolitec R&D	DSN AC000W028675867	City Milwaukee	Intensity 1
Service Area MFC3	Network IBR600-591	State	Off-Cycle Short (2 Min)
	System Configuration AQ580 / 500 ml	Time Zone America/Chicago	Fan Speed 1
	Fragrance Fresh Clean	Latitude 43.031184	Status Online
		Longitude -88.002049	Fragrance Remaining 100%

**SCHEDULE**

Schedule # Intensity [Edit Schedule](#)

Day	Intensity
M	2
T	2
W	2
T	2
F	2
S	1
S	2

**NOTIFICATIONS** [Add Notification](#)

Method	Recipient	Connected	Disconnected	Low Product Level	Edit	Remove
email	████████@scenxus.com	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Remove</a>

3. Adjust the settings and options by clicking the edit icon.

Mode: 24/7

Off-Cycle: Short (2 Min)

Intensity: [ - ] [ 1 ] [ + ]   Fan Speed: 1

[Cancel](#)   [Confirm](#)

4. Add schedules using the “edit schedules” icon. Edit each desired schedule individually. Be sure to select “enable” to turn on each schedule.

5. Add connectivity and fragrance alerts using the “add notification” icon.

## Resetting Fragrance Level

ScenXus calculates remaining fragrance using the strength setting and the time the appliance has run since a new cartridge was inserted. It is important, therefore, to reset the fragrance level when a cartridge is replaced. This can be done in two ways.

**Manual Reset** – Physically hold the ⏪ & ⏩ buttons for 5 seconds. The screen will flash to verify reset. Using the manual reset is the recommended practice, since it is performed on site at the time of cartridge replacement.

**Reset via ScenXus.com** – In the Device Details page, select the “Reset Fragrance Level” button. Fragrance Remaining should return to 100%.

## Changing Wi-Fi Networks

If a previously connected Wi-Fi network is no longer available, the appliance will return to access-point mode. This allows the connection process to be completed with a new network. To change networks while still connected to a previous network, a Wi-Fi reset must be performed. By holding ⏩ and pressing the reset button, the appliance will forget the previous network and re-enter access point mode.

# OPERATING INSTRUCTIONS

## Features and Controls



## Setting Up the Cartridge


1. Use the key to unlock and open the door of the cartridge housing.
2. Prepare the cartridge.

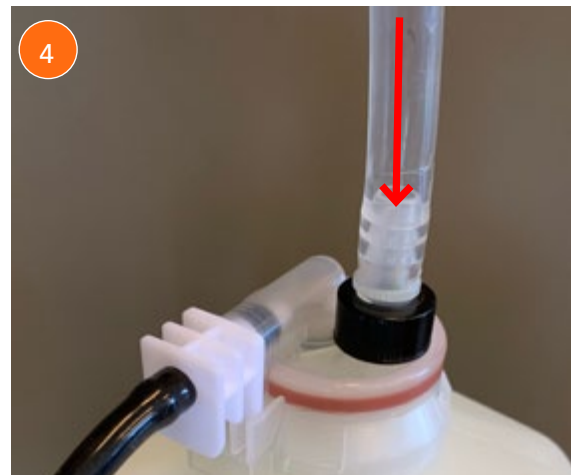
- Remove the big plug from the air-stem port (A) on the back side of the cartridge.
- Remove the black screw cap from the top outlet port (B) of the cartridge.

































3. Insert the airstem into the air-stem port in the cartridge head. Rotate air stem to locked position.



4. Place cartridge in the enclosure.
5. Place and tighten the plume kit tightly on the cartridge outlet port.
6. If the appliance has been previously programmed, activate preferred setting. If not (see [Programming the Appliance](#)), press  so the backlight turns on, close and lock the door.



## Programming the Appliance

1. Unlock and open the door.
2. Turn on the power by pressing  on the control panel.
3. Set the Clock.
  - Press  to cycle through the modes to the options mode. The day of the week will blink.
  - Adjust the day forward or backward using  or .
  - Press  to set the day of the week and the hour will blink.
  - Adjust the hour forward or backward using  or .
  - Press  to set the hour and the minute will blink.
  - Adjust the minute forward or backward using  or .
  - Press  to set the minute and the hour and minute will both blink.
  - Change between 24-hour and 12-hour modes using  or .
  - Press  to set the time mode and the off-cycle will blink.
  - Change between normal (NOC, 7 minutes), short (SOC, 2 minutes), and very short (VSOC, 30 seconds) modes using  or .
  - Press  to set the off-cycle and the fan setting will blink.
  - Adjust the fan speed up or down using  or .
  - Press  to set the fan speed and the day of the week will blink.
4. **24/7** Mode.
  - If you want the appliance to run continuously — 7 days a week, 24 hours a day — press  until 24/7 is displayed above the time. If not, skip to Step 5.
5. **SET PROGRAM** Mode.
  - Press  until SET PROGRAM is displayed above the time. The program number will blink in the lower right corner of the display
  - Adjust the program number forward or backward using  or .
  - Press  to set the program number and the status will blink.
  - Adjust the status between on ("ON") and "off" ("OF") using  or .
  - Press  to set the status and the intensity will blink.
  - Adjust the intensity up or down using  or .

- Press  $\checkmark$  to set the intensity and the day of the week will blink.
- Adjust the day of the week forward or backward using  $\oplus$  or  $\ominus$ .

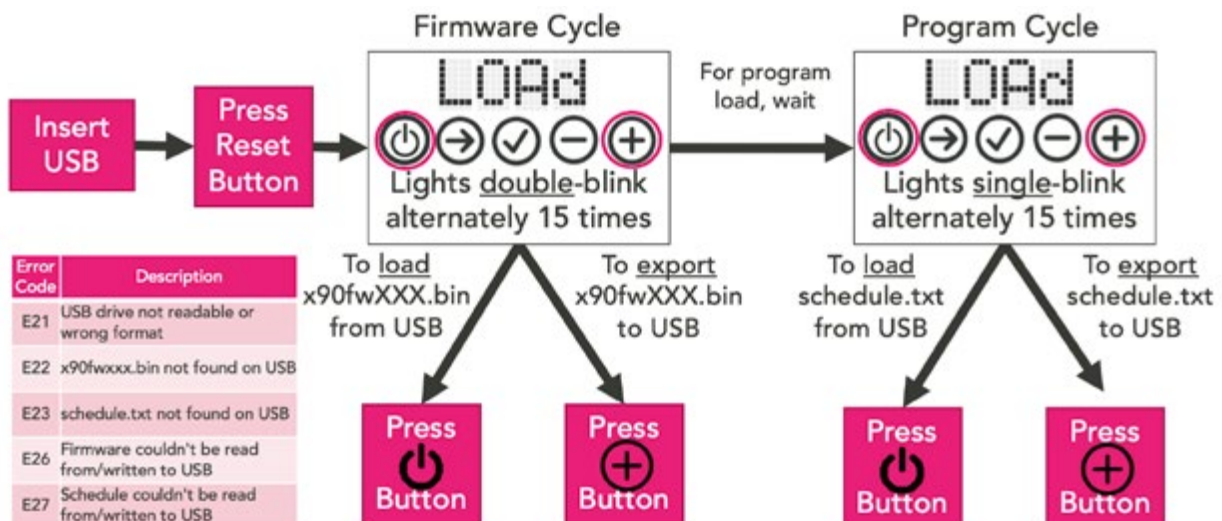
HINT: In addition to individual days, you can also set "all days," "week days," or "weekend days."

- Press  $\checkmark$  to set the day of the week. **START** will display on the far right side and the hour will blink.
- Adjust the start hour forward or backward using  $\oplus$  or  $\ominus$ .
- Press  $\checkmark$  to set the start hour and the minute will blink.
- Adjust the start minute forward or backward using  $\oplus$  or  $\ominus$ .
- Press  $\checkmark$  to set the start minute. **STOP** will display on the far right side and the hour will blink.
- Adjust the stop hour forward or backward using  $\oplus$  or  $\ominus$ .
- Press  $\checkmark$  to set the stop hour and the minute will blink.
- Adjust the stop minute forward or backward using  $\oplus$  or  $\ominus$ .
- Press  $\checkmark$  to set the step minute.

The appliance will automatically switch from set program to run program after 30 seconds of inactivity, or you can press  $\ominus$  until **SET PROGRAM** is displayed above the time. You may review the programs by pressing  $\checkmark$  while the appliance is in run program mode.

### Loading or exporting firmware or schedules with a USB stick

To load or export firmware or schedules, follow the flow chart below. Note: if there are multiple firmware files, the newest version will be loaded. Exported schedules will overwrite existing schedules on USB.



## USB Programming & Firmware Update

The online programming tool can be found at [ProlitecCSPTools.com](http://ProlitecCSPTools.com) (login required). Multiple programs sets can be created, which are unique to the user, and stored in a list. If you don't wish to log in, you can create program sets that won't be stored for later use at [airqsd.com](http://airqsd.com).

1. Create a program set using the **CREATE PROGRAM** button.
  - Each program set will require a name.
  - Each program set can contain 21 unique programs, which can be turned on or off within the set.
  - Programs, identified by number 1-21, include a day or days, on/off times, and intensity settings.
  - The tool will warn the user of overlapping programs.
  - Programs sets need to be saved.
2. Edit an existing program set using the **EDIT** button to the right of the program name.
3. Copy an existing program set using the **COPY** button to the right of the program name. This can be especially useful for quickly duplicating a very similar set of programs.
4. Delete an existing program set using the **DELETE** button to the right of the program name.
5. Export an existing program set using the **EXPORT** button to the right of the program name.
  - A .zip file containing your program set (schedule.txt), the latest firmware (x90fwxxx.bin), and the final instruction for use (readme.txt) will download to your computer.
  - Insert a USB stick. USB drive must be FAT formatted and no larger than 4GB.
  - Copy the files needed (schedule.txt for programs, x90fwxxx.bin for firmware) to the top level directory of the card (not in a folder or .zip file).
6. Insert the USB stick into the appliance, with the label side down.

## Setting Scent Intensity

1. Determine the approximate size of the room in cubic feet or cubic meters by multiplying length x width x ceiling height.
2. Consult the Room-Size Table to give you a level (1 to 50) to set. THIS IS ONLY A STARTING POINT.

Hint: There are many variables to finding the scent level that works: size, airflow, number of fresh air changes per hour, number of people in the space and, most of all, user preferences. Experiment with different levels until you are satisfied. Utilize the S4 Tool.

## Scent Control

If you followed the Room-Size Chart or S4 Tool, you have set the AQ890 to the low end of the range for your room size. If after one hour you feel the scent is not detectable, increase the setting by about 10%. For example, if your start setting was 20, increase it by 10%, or to setting 22. Keep increasing until you and others in the space can detect a slight scent throughout the space.



## The Last Step

1. Set the appliance to either 24/7 or RUN PROGRAM.
2. Make sure the power is on.
3. Close and lock the door, storing the key in a known place.

## USER MAINTENANCE

### Cartridge Change

When the reservoir is empty the cartridge needs to be changed. The change process is simple. Best practice is to wear gloves when manipulating the cartridge.

1. Unlock and open the door of the cartridge housing.
2. Turn off the power by pressing the power button.
3. Grab the cartridge and disconnect air stem and plume kit.
4. Inspect the air stem seal for damage. Replace if damaged.
5. Remove plugs from new cartridge and use them to plug empty cartridge.
6. Deliver empty cartridge to recycling center at a later date.
7. Connect new cartridge to air stem and plume kit, and seat in appliance.
8. If using ScenXus, reset the fragrance level by holding  &  for 4 seconds, or by using the ScenXus portal.

### Cartridge Change Maintenance Checklist Items

Cartridge plume: Use a high-intensity flashlight or your headlamp to confirm that a plume is streaming from the output port. If there is no plume:

- Check that the power is on and the appliance is running.
- Check that the wipers on the air stem are in place and not cracked or broken. Replace if necessary.
- If the appliance is set to **Run Program**, switch it to **24/7** and check for a plume.
- If no plume, set it back to **Run Program** and change the cartridge.
- If still no plume, try another cartridge just to make sure. If no plume, replace the appliance.
- Wipe the unit clean inside and out.

## Changing an Appliance

Appliance malfunctions are not intended to be serviced in the field. If there is no plume after following the procedure outlined above or there is any excessive noise level, then the appliance must be replaced with a new one.

## General Care

- AQ890 is an electronic appliance. Treat it like a laptop.
- Do not place or store AQ890 or its cartridges in extreme heat (more than 130° F) or in freezing temperatures.
- Do not drop AQ890 on the floor. Do not drop it in or position it near water.
- Do not paint or otherwise try to alter the color of the outer cover.
- When shipping, pack in the original box and place it in an outer cardboard box.
- Always keep the plugs in cartridges when not in use.

Always remove the cartridge from the appliance before moving it anywhere. Otherwise leakage can occur, destroy the unit and the warranty is voided.

## Applications

AQ890 is used to enhance indoor air quality by neutralizing odors or introducing and maintaining a scent in the air or both at the same time. This is accomplished by blending ultra-low concentrations of odor neutralizers and fragrance ingredients ("Air-Treatment Agents") into the air. In fact, AQ890 is fully effective with air concentrations of Air-Treatment Agents less than 1 part per million (ppm). This means that for every 1,000,000 molecules of air there is only one molecule of Air-Treatment Agent.

There are four basic applications for AQ890: ambient scenting, product marketing, odor control and aromatherapy. These applications are different in terms of their objectives, but they all employ the same combination of Prolitec's proprietary air-treatment chemistry and AQ890 computer-controlled delivery system.

### Ambient Scenting

Ambient Scenting is the use of a scent alongside other design elements in a space to help create or enhance its ambience. In this application, scent is comparable to visual elements such as graphics, colors, materials, textures and shapes as well as auditory elements like music. With ambient scenting, a carefully selected fragrance is used to enhance themes, animate visuals, make a tree or a flower smell like a tree or a flower, and many other uses. Major brands are using scent to extend and animate their brand by associating a scent experience with a brand, like a hotel chain using ambient scenting to make all their lobbies smell like the same scent.

Indoor air quality and the overall ambience of a space can be substantially improved with the introduction of a pleasant scent. Scent can cause humans to recall a brand with positive feelings and communicate brand values. Scent can create inviting environments that attract retail customers and cause them to stay longer and shop more, improve employee productivity, and make all the occupants feel positive about their experience in the space.

Of all the senses, the sense of smell is the most powerful trigger of memory. Hotels, casinos, retail establishments and other businesses seeking to provide a positive experience that clients will recall and repeat should use scents to enhance indoor air quality. The use of a signature scent to extend the brand image is a powerful tool for the sophisticated marketer.

Typical areas where Ambient Scenting is used:

- Retail Stores
- Hotel Lobbies
- Malls
- Showrooms
- Clubs and Bars

## Product Marketing

Product Marketing is the use of scent as a medium of communication in advertising and promotion of certain products for which scent is a primary element or feature. Presenting the scent of a scented product to customers at the point of sale is the most powerful way to sell any product with a scent including fine fragrances; soaps, detergents and fabric softeners; lotions and potions; scented health and beauty aids; food products like coffee, fruits, and baked goods; and other fresh and aromatic products.

AQ890 is used as an automated presentation and product-sampling system to deliver the exact aroma of a scented product throughout a store or at the point of sale. For example, enabling the client to experience a fine fragrance, personal care or home fragrance is the most effective way to sell it. Scent is the main feature of these products. Using AQ890 to present that scent to a customer is the best way to present and sell the product. In this way, AQ890 delivers a true and complete experience of the scent to clients and passersby without intrusion or sales associate intervention.

Billboards and advertising panels can be equipped with AQ890 to treat the surrounding air space with the scent that is being advertised on the billboard. This is particularly effective in high-traffic areas such as malls, airports and train and subway stations. This is a multi-sensorial approach that draws customers to the display while simultaneously enhancing the visuals and allowing the prospective customer to experience or “sample” the scent of the product.

## Odor Control

One of the most challenging problems in indoor air quality is bad odors. Bad-smelling places have a negative emotional impact on all the occupants of the space. This means both employees and customers.

AQ890 and Prolitec’s proprietary odor-remediation chemistry are capable of blocking the human ability to detect most malodors and replacing these odors with pleasant scents. Prolitec’s proprietary air-treatment chemistry and the accompanying computer-controlled delivery system are rapidly becoming the standard solution for difficult odor issues in several industry sectors.

Typical problem areas that can be addressed by AQ890 include:

- Restrooms
- Garbage-compaction areas
- Areas adjacent to cooking and food preparation
- Swimming pools and adjacent areas
- Workout facilities
- Elevator shafts
- Hotel hallways

The Prolitec approach to odor remediation uses a proprietary and patented neutralizer that inhibits the human olfactory system from detecting the odor and then injecting a small amount of scent to create an ultra-low concentration in the air of less than 1 ppm. This approach is unique and much more effective than traditional approaches that simply douse the odor with a high concentration of scent.

## Aromatherapy and Performance Scenting

It is well known that scent has a powerful impact on human emotion and behavior. The use of scent to influence human emotion is just like Ambient Scenting but with a specific objective for the occupants of the treated space. The use of scent and the essential oils of flowers, herbs and trees to promote health and well being is the well-established branch of alternative medicine known as aromatherapy. It is also recognized that scent can be used to optimize performance in the workplace. The benefits include reduced errors in routine functions, increased employee sense of well being, higher morale, improved customer service and overall improved productivity.

AQ890 and Prolitec aromatherapy chemistry can help make a workspace a more comfortable and appealing place to be. As examples of the positive effect of aromatherapy on the workplace, below are results of several relevant studies:

- A 1991 study demonstrated that “sustained attention tasks” were performed with greater accuracy by the participants in scented rooms compared to those in the non-scented control rooms.<sup>1</sup>
- Another study found that fragrance had a dramatic and positive effect on a proofreader’s efficiency.<sup>2</sup>
- It is commonly known that the Tokyo Stock Exchange diffuses peppermint into the air in the afternoons to make the brokers feel invigorated.

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<sup>1</sup> Dr. Joel Warm and Dr. William Dembar. “Olfactory Stimulation and Sustained Attention.” *Compendium of Olfactory Research*, (Dubuque, Iowa: Kendall/Hunt Publishing Co., 1995) p. 47.

<sup>2</sup> Mark Kilauga et al. “Consumer Panel Study on the Effect of Peppermint and Lavender Fragrances on Proofreading.” *Compendium of Olfactory Research*, (Dubuque, Iowa: Kendall/Hunt Publishing Co., 1995) p. 131

## Frequently Asked Questions (FAQs)

### How does AQ890 work?

AQ890 uses a patented technology to convert liquid fragrance compounds into tiny droplets less than 1/100th the diameter of a human hair. By comparison, an aerosol droplet is 100 times bigger and 1,000,000 times heavier. AirQ droplets present 100 times more surface area to the air being treated, which means much less fragrance is used to create the scent effect. AirQ's tiny droplets are extremely light so they float easily into the air and disperse throughout a space to create an even scent effect.

### What size room will AQ890 handle?

AQ890 is fully adjustable for different size rooms. AQ890 is effective in spaces from 1400 to 34500 cubic feet (40 to 980 cubic meters). The cubic measure is width x length x ceiling height.

### Where can I place AQ890?

AQ890 should be placed in a room where it can take full advantage of the natural air currents in the space as determined by a smoke test or as known by you.

### Do I need to adjust AQ890?

Yes! AQ890 is a powerful machine. AQ890 can handle small and very large rooms. If it is set too high for the room size, it can cause discomfort for some people. Adjusting is simple. Take the time to do it right.

### How do I adjust AQ890?

With the power cord plugged in you can adjust AQ890 up and down using the ⊕ and ⊖ buttons just to the right of the LCD screen. You can see the setting levels (1 to 50) on the right side of the LCD. ALWAYS START WITH THE RECOMMENDED SETTING and adjust upward in small steps.

### How strong should I make the scent?

Less is more. AQ890 allows you to erase odors and use only a small amount of scent. Unlike most other air fresheners, AQ890 is adjustable. Use this important feature. Always start on the lowest settings for the size of the space then adjust upward in small steps.

#### IMPORTANT

ALLOW ONE HOUR TO ASSESS the scent strength after starting or adjusting. It is best to assess strength when you first enter the room from another room.

### How about safety? Is AQ890 safe to use with children and pets?

When used as directed, AQ890 is the safest air freshener available. Of course, it is important to read the Material Safety Data Sheets enclosed with each cartridge, which should be stored in a secure, visible location.

## How does AQ890 differ from aerosol room fresheners?

The more expensive aerosols can produce a very pleasant scent, but only for a few minutes and in very high concentrations just in the area they were sprayed. AQ890 is what is known as a "continuous action" air freshener. AQ890 is programmed to deliver an evenly distributed scent throughout the room.

## Is AQ890 eco-friendly?

Yes, AQ890 is the most eco-friendly air freshener on the market. Unlike aerosols, AQ890 uses no propellants and produces no harmful volatile organic compounds, or VOCs. Unlike many air fresheners, AQ890 uses no ethanol or similar solvents to enhance the evaporation of fragrance chemicals.

## I only want to scent the room at certain times. Do I have to turn it on and off every time?

AQ890 has a tiny on-board computer for fully automatic operations. You can set set up to 21 separate start and stop times. (See [Programming the Appliance](#))

## If I want a different scent, can I switch cartridges?

Yes, simply remove the cartridge and replace it with another.

### IMPORTANT

Always keep plugs in cartridges when not in use. If you have misplaced the plugs from the cartridge being removed from AQ890, you can use the plugs from the new cartridge being inserted.

## Will AQ890 leave deposits on furniture or carpeting?

No, provided you do not direct the output at a surface closer than 12 inches away.

## Will AQ890 fragrances stain surfaces or fabric?

Yes, all air-care fragrances will stain wood and stone and all fabrics if spilled. The best solution is avoidance by replacing the plugs on cartridges after removing them and keeping the plugs on all cartridges when not in use.

## How do I clean up a drip?

If there is a drip, blot it as quickly as possible and then clean with soap and water.

## Specifications

### Dimensions

AQ890 Appliance 25¼" x 6¾" x 7¼" (64.1cm x 17.1cm x 18.4cm)

### Weight

9.6 lbs. (4.4kg) without cartridge

12.8 lbs. (5.8kg) with full 1250mL cartridge

15.4 lbs (7.0kg) with full 2500mL cartridge

### Power Supply

Input — 100 – 240V AC at 0.6A

Frequency — 50/60 Hz

Protection — Switching power supply

Internal Power — 15V DC at 1.2 A

### Approvals

FCC part 15, CE, RoHS Compliant, UL Power Supply

### Working Temperature

0° to 40° C

### Working Humidity

85% or less

### Liquid Capacity

1250 mL cartridges

2500 mL cartridges

### Service Area

Up to 34,500 cu. Ft. (980 m3) served

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