



Installation & Owner's Manual

English

This manual applies to the following model:

SRV 45

Manufacturer:

ClairiTech Innovations Inc.
1095 Ohio Rd
Boudreau-Ouest (N.-B.)
Canada E4P 6N4

READ AND SAVE THESE INSTRUCTIONS

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Introduction

Congratulations on purchasing your new SRV45 system! This advanced ventilation unit ensures effective indoor air quality management all year round. It helps create a healthier environment by continuously improving the air quality in your space.

Main features:

- Air quality monitoring (IAQ index, temperature, humidity and pressure)
- Fine Particulate Matter filtration (PM2.5, PM10)
- Wi-Fi connectivity for remote control and data access
- Collaboration with other HCS ventilation systems

This installation and Owner's manual will help you become familiar with the functions and operation of your SRV45 and ensure the efficient installation of your new ventilation system.

Caution

This manual presents the suggested installation method. Any structural modifications required for installation must comply with current construction, health and safety standards.

Caution

This unit is intended for general ventilation only. Do not use to exhaust hazardous or explosive material and vapors.


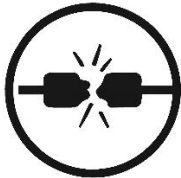






Caution

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.

Caution

Children should be supervised to ensure that they do not play with the appliance.

Please read the following safety information carefully:

Safety precautions for installation and operation of the SRV45 unit			
	Unplug or disconnect the unit from the power supply before servicing.		To avoid overheating or damage, do not place the unit's power cord near a heating appliance.
	Do not route power cable under furniture or appliances. To avoid tripping hazards, keep power cable away from front walkways.		Handle the unit with care when removing it from its packaging to avoid damage to components.
	To prevent the risk of fire or explosion, do not store explosive or highly flammable substances near the unit.		To avoid risk of electric shock or injury, do not attempt to open the unit during operation.
	To prevent the risk of fire, avoid directing the unit's airflow towards an open flame or any source of ignition.		When cutting or drilling into walls or ceilings, do not damage electrical cables and other hidden accessories.

Service and Warranty

For Customer Assistance

To aid in answering questions if you call for service or warranty purposes, please record below the model and serial number located on the side of the unit.

Product Name:
Model#:
Date of Manufacturing:
Date of Purchase:
Serial#:
Dealer Name (If Any):

Please Note the above information before contacting us.

For the Following Inquiries:

- Service
- Parts
- Accessories
- Additional Customer Information

Please contact us by:

Phone: 1-888-533-1348

Email: support@clairitech.com

Website: www.humidex.com

IMPORTANT

To properly validate your warranty, you must complete and return the warranty card within 90 days. If your device is not registered, proof of purchase will be required if it requires service after approval from our Service Department.

You can also register your warranty online <http://www.clairitech.com/support/register>.

Consumer Limited Warranty

ClairiTech Innovations Inc. warrants to the first consumer that this product, when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its discretion, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for the period(s) set forth below. The defective part must be returned to the manufacturer ClairiTech Innovations Inc. All transportation charges are the sole responsibility of the purchaser.

This warranty does not cover any appearance items of the product nor if the items or product have been damaged, defaced, subjected to improper voltage, abnormal service or handling, has been altered or modified in design or construction or was installed and has been rendered inoperable for an extended period of time.

In order to enforce the rights under this limited warranty, the purchaser must fill out and return the warranty card within 90 days.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of ClairiTech Innovations Inc.

The warranties described herein shall be the sole and exclusive warranties granted by ClairiTech and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period described herein, shall constitute complete fulfillment of all liabilities and responsibilities of ClairiTech to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, and strict liability or otherwise. In no event shall ClairiTech be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer, unless approved by ClairiTech in writing. Nor shall ClairiTech be liable or in any way responsible for any incidental or consequential economic or property damage.

Warranty Period for this product:	Five (5) years on parts and electrical from date of purchase Two (2) years on all electronic components
Additional Items Excluded from Warranty Coverage (If Any):	Appearance items of the product, Exterior vent and any printed material.
Where to obtain service:	From the Manufacturer (Refer to Page 4).

This warranty is non-transferable and applies to residential use only.

To obtain supply, accessory, or product information, contact us.

Refer to Page 4 for Contact Information.

Pre-Installation

Included Components

Before installing your SRV45 system, make sure you have the right accessories. The following items should be included in the accessory box. If parts are missing, contact our customer service at US 1-888-533-1348, Can. 1-800-416-9111.

SRV45 Unit	
1 Owner's Manual	4x #8 x 9/16" screws
1 Warranty Card	4x #8-15 x 2" screws
1 ventilation duct 6" (length 8")	4x #8 x 1-1/4" Yellow Plug Anchors
Intake vent	

Tools Required for Installation

- Electric reciprocal or hole saw 6 1/4"
- Drill with a 1/4" concrete bit
- Phillips or Robinson Screw Driver (Phillips)
- Measuring Tape
- Hammer
- Pencil

For concrete, cinderblock or brick installation, use a hammer drill with chiseling ability 1/2" x 16" long and a chisel bit 1" thick.

Pre-Installation Checklist

- Make sure the installation area is well ventilated and has access to an electrical outlet.
- Check that there are no obstacles near the system location.

Installation tips

- 1) The system must be installed approximately 6 ft (72 in) above the floor.
- 2) The system must be installed at least 8 ft from a combustion appliance.

IMPORTANT – What Not to Do

- 1) DO NOT INSTALL the system under the ceiling.
- 2) DO NOT INSTALL the system near an air exchanger, air conditioning, etc.
- 3) DO NOT INSTALL the system within 8 ft (96 in) of a heat source (radiator, furnace, etc.).
- 4) DO NOT INSTALL the system in isolated or obstructed areas to avoid reducing air supply.

Ideal installation system location

Choosing the right location to install the SRV45 system is essential to ensure optimum performance and improved indoor air quality. This system is specifically designed to bring fresh air from outside to inside, without any extraction function. It is therefore crucial to install it in a location that allows efficient air intake, while minimizing environmental disturbance.

- The system must be installed on an exterior wall to allow direct intake of fresh outdoor air into the room.
- Install the SRV45 system at a height of 6 feet (72 in) from the floor. This height promotes better fresh air distribution within the room, prevents stagnation zones near the floor or ceiling, and ensures even air circulation.
- Keep away from excessive heat sources, which could distort air quality sensor readings and affect overall performance.
- Maintain a minimum distance of 8 feet from any heating or combustion appliance to avoid thermal interference and ensure reliable indoor environment readings.
- Avoid areas exposed to direct drafts, such as open windows or frequently used doors. Excessive exposure to wind or airflow can distort Air Quality Index (AQI) readings and reduce the system's efficiency.
- Make sure it's close to an electrical outlet. Also, make sure the location is covered by your home Wi-Fi network. A weak Wi-Fi signal can cause connection difficulties and limit access to the unit's connected features.



Warning

The system must not be installed in a location where air circulation could be obstructed by blinds, curtains or any similar items, in order to avoid dust accumulation. Such obstacles can also hinder the proper airflow circulation in the room, reducing the system's efficiency.

A well-chosen location will allow outdoor air to be efficiently introduced, filtered and distributed within the indoor space, while ensuring optimal performance of the SRV45 system.

Installation of SRV45 System

The installation of the SRV45 system must be carried out carefully to ensure proper operation, user safety and optimal performance. Follow the steps below carefully for a successful installation.

1. **Choose the duct location:** Select an exterior wall and mark a spot at a height of 6 feet (72 in) from the ground.
2. **Drill the duct hole:** Use a suitable drill bit to drill a 6¼" circular hole through the exterior wall. Before drilling, ensure there are no electrical wires or hidden utilities behind the chosen area.
3. **Insert the duct:** Insert the provided ventilation duct into the wall opening, ensuring a snug and airtight fit.
4. **Secure the SRV45 unit to the interior wall:**
 - Mark the screw hole positions.
 - Drill the holes and insert wall plugs if needed.
 - Attach the SRV45 unit to the wall using the provided screws.
 - Connect the unit directly to the mains power supply (120V AC).
5. **Final check:** Ensure the unit is firmly mounted, the duct is properly inserted and sealed, and the system is stable and secure.

Installing the Exterior Vent grille

- **Positioning:** Once the ventilation duct has been inserted through the wall, place the exterior grille at the outer end of the duct, on the exterior wall side.
- **Applying a Sealant (recommended) :** Apply a bead of silicone sealant around the inner edge of the grille to ensure a tight air- and water-proof seal between the grille and the wall surface.
- **Mounting:** Secure the grille to the wall using the provided screws , or use screws suitable for your wall type (bricks, rendering, etc.). Ensure that the grille is firmly flush against the wall to prevent any air or water infiltration.

Preparing the SRV45 for installation

Drill hole duct

Now that the location has been chosen, it's time to cut an opening for the air duct. First measure the height required for the system and mark the hole location. The system should be no more than 70" to 72" above the floor.

From the inside, drill a pilot hole about 1/4" in diameter, in the center of where you want to drill the 6 1/4" hole.



On the outside, find the pilot hole.





With the hole saw, using the pilot hole as a guide, drill a 6 1/4" hole.



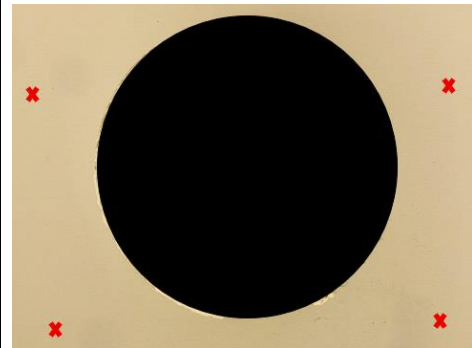
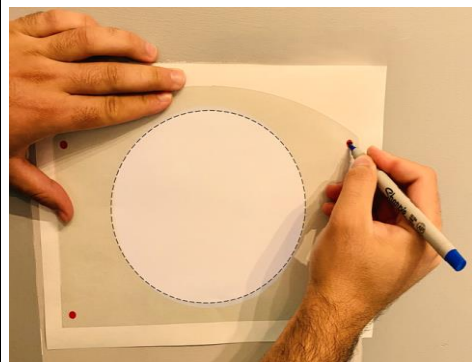
Brick or concrete wall: There are two ways to drill into brick or concrete. The first: using a hammer drill, make holes (about 5/8") spaced about 1" apart, following the outline of the 6 1/4" circle. Then, complete the opening by chiseling out the remaining material. The second: If a hammer drill is not available, use a chisel instead. Since brick is brittle, begin by creating a pilot hole and carefully expand it by chiseling outward until you reach the full 6 1/4" diameter. Work slowly and evenly to avoid damaging the wall surface.

Attach duct and Exterior Vent grille

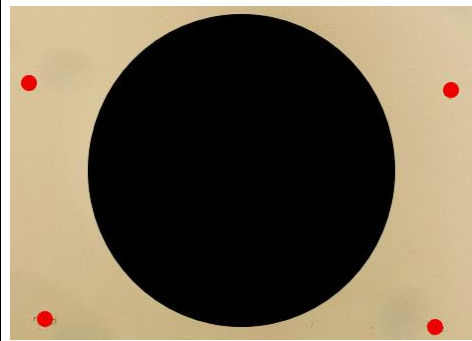
<p>Once the 6 1/4" hole is drilled, insert the provided vent pipe into the wall hole, making sure it fits tightly.</p>	
<p>Attach the exterior grille to the wall using the provided screws.</p> <p>Note: It is recommended to apply a bead of silicone sealant around the inner edge of the grille to ensure a reliable air- and water-tight seal between the grille and the exterior wall.</p>	

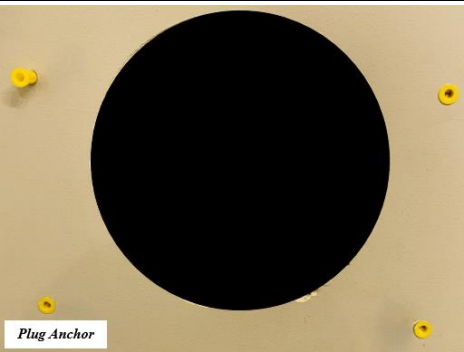
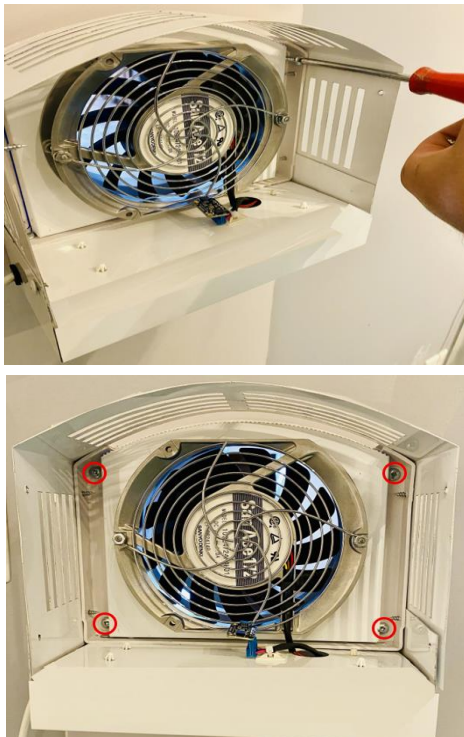

Mounting the System to the Wall

Marking the Mounting holes: Use the template provided in the packaging to accurately mark the positions of the four holes on the wall.



Drilling the wall: Drill the 4 holes at the marked positions.



<p>Installing the plug anchors: Insert the yellow plug anchors into the drilled holes.</p>	
<p>Attaching part n°1 : Position Part no.1 against the wall, align the holes, and securely fasten it using the provided screws.</p>	
<p>Installing part n°2: Place the cover (Part no.2) onto the system to close it properly.</p>	

SRV45

Final Fixation: Tighten the side screws on both the left and right sides to firmly secure the cover.



Once the system is fully installed, plug it into a 120 V outlet.

System operation

First-Time Operation (SRV45 only)

When you power on the system for the first time (SRV45 only), it will run at low speed. The unit begins detecting the parameters of the incoming air, such as temperature, humidity, pressure, and air quality index. All these parameters are used to regulate the operation of the unit.

The unit will continue to operate at low speed until a speed setting is defined. The user can select the preferred speed through the mobile app: low, medium, intermediate, or high.

Operating SRV45 with HCS myHome Unit

If the SRV45 unit is connected to a HCS myHome system, it follows the logic of the HCS myHome unit, which is considered the main unit. In this case, the SRV45's speed is automatically synchronized with the HCS myHome system.

Up to three SRV45 units can be paired with a single HCS myHome, providing optimal comfort throughout the entire home. Up to 115 ft was tested in open conditions without obstacles and interference. For reliable performance in real-world applications, an installation range of 33 – 50 ft is recommended.

Air Quality

The SRV45 unit is equipped with an air quality sensor, which continuously monitors the air conditions in your room. If the unit detects a decline in air quality, it will automatically adjust the airflow to low speed in order to limit the intake of polluted air, until the levels return to normal.

Connecting the SRV45 system to a myHome HCS unit

Pairing the SRV45 system with the HCS unit

To pair the SRV45 system with the HCS unit, make sure that both devices are connected to the same Wi-Fi network. Then follow the steps below:

1. Unplug the HCS unit

2. Activate pairing mode on the SRV45

Press the green Button-LED located on the SRV45 system 5 times.

3. Confirmation of pairing mode

The green Button-LED on the SRV45 will flash 5 times consecutively, indicating that the system is in pairing mode.

➤ Wait approximately 2 minutes for detection.

4. Re-plug the HCS unit

5. Check pairing status

Observe the green Button-LED on the SRV45 system:

- If it flashes 5 times, pairing was successful.
- If it flashes only once, pairing has failed.

6. If pairing fails

Repeat the procedure starting from step 1.

Mobile application SRV45

The SRV45 system can be controlled directly from the SRV45 mobile app, available in the Google Play Store for Android devices and the Apple Store for Apple devices. Once installed, the app will guide you through its various functions and show you how to connect your SRV45 unit to your mobile phone.

The mobile app will enable you to monitor conditions, modify your SRV45 unit's settings and notify you of any problems or updates.

Wi-Fi internet connection and mobile application

The SRV45 system comes with innovative new features that let you monitor your indoor air quality, view outdoor conditions, receive notifications and software updates related to your system, and more. To access these features, the SRV45 system must be connected to the Internet. If you have a Wi-Fi internet connection in your home, you can download the SRV45 mobile app and configure your system for this application. You only need to do this once. Your system will then be able to connect to your internet and access the information it needs.

The QR code below will take you directly to the mobile app download page. Or you can search for the app in the App Store with keywords like « Clairitech » or « SRV45 ».



Frequent problems

To ensure optimal, long-lasting, and uninterrupted operation of the SRV45 ventilation system, it is essential to follow a set of best practices. These guidelines cover key areas such as installation, operating environment, connectivity, and routine maintenance of the system.

Careful installation

- Install your SRV45 system according to the instructions in this guide, strictly following the recommended orientation, duct location and installation height.
- Ensure that the unit is securely mounted to the wall and that the ventilation duct is unobstructed.
- Avoid installing the system near heat sources, high humidity areas, or strong air drafts, as these conditions may distort the air quality sensor readings.

Clean and suitable environment

- Keep the area around the unit clear of any obstructions to ensure proper air circulation.
- Do not place furniture, curtains or bulky items in front of or near the system.
- Avoid using chemical products or air fresheners near the unit, as they can interfere with the air quality sensor.

Stable and reliable connection

- Ensure strong Wi-Fi coverage in the room where the system is installed. A weak signal may cause delays in data updates or in the execution of remote commands.
- Regularly check that the unit is properly connected to both the mobile app and the Internet to benefit from all its features (notifications, history, updates...).

Regular maintenance

- Clean the filter every 6 months to ensure optimal air quality and maintain system performance.
- Regularly check the condition of the ventilation grilles and the fan , and clean them if necessary to prevent dust buildup that could obstruct airflow.

Performance monitoring via mobile application

- Regularly check the data in the SRV45 mobile app to monitor real-time changes in indoor air quality and adjust system usage accordingly.

Updates and support

- Enable automatic updates in the app to benefit from the latest improvements, new features and security patches.
- If you encounter any issues or unresolved malfunctions, contact technical support through the app or the official website.

Do not attempt to service your SRV45 yourself. If you are unsure about any function of the device, please refer to **page 4** for our contact information and reach out to our technical support team.

Troubleshooting

Warning

Make sure to unplug the system from the power supply before performing any maintenance or servicing on the unit to ensure your safety and prevent any risk of electric shock.

If the system does not work properly, please follow the instructions below.

Problem	Possible causes	Possibles solutions
Unable to detect the system	<ul style="list-style-type: none"> The SRV45 system is not connected. The SRV45 system is out of range. 	<ul style="list-style-type: none"> Check that the outlet is powered and make sure the power cord is properly plugged in.
Unable to establish a Wi-Fi connection with the SRV45 system	<ul style="list-style-type: none"> Weak Wi-Fi signal strength. 	<ul style="list-style-type: none"> Move the unit closer to the router or reboot it.
Incorrect date and time	<ul style="list-style-type: none"> Incorrect profile information in the SRV45 mobile app. Incorrectly set time zone. Incorrect daylight-saving time setting. 	<ul style="list-style-type: none"> Update your profile information in the SRV45 mobile app. Correct the time zone in the SRV45 mobile app settings. Adjust the daylight-saving time in the SRV45 mobile app.
Device remains locked in "Wi-Fi configuration" mode	<ul style="list-style-type: none"> Network connection failed. 	<ul style="list-style-type: none"> Restart your router, ensure the Wi-Fi password is correct, and make sure the signal strength is sufficient.
The unit restarts frequently	<ul style="list-style-type: none"> Power surge or unstable power supply. 	<ul style="list-style-type: none"> Check the power outlet.
Mobile application does not detect the unit	<ul style="list-style-type: none"> Unit not connected to Wi-Fi. 	<ul style="list-style-type: none"> Restart the unit and ensure it is properly connected to the network.
Displayed data is inconsistent	<ul style="list-style-type: none"> Faulty sensor or interference caused by a nearby heat source. 	<ul style="list-style-type: none"> Check the environment around the unit, and keep it away from any disturbing sources.
Abnormal vibration noise	<ul style="list-style-type: none"> Improper tightening of the unit to the wall or mechanical imbalance. 	<ul style="list-style-type: none"> Tighten the mounting screws again and ensure the unit is straight.

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Mobile application not responsive	<ul style="list-style-type: none">• Update required.	<ul style="list-style-type: none">• Update the application via the App Store or Google Play.
Unit does not switch on	<ul style="list-style-type: none">• Loose power connection.	<ul style="list-style-type: none">• Check the power cord and ensure it is properly plugged.
Insufficient ventilation performance	<ul style="list-style-type: none">• Clogged filter.	<ul style="list-style-type: none">• Replace the filter.
Low air flow	<ul style="list-style-type: none">• Low fan speed.	<ul style="list-style-type: none">• Set a higher speed.
AQI data still too low, even in polluted areas	<ul style="list-style-type: none">• Blocked air inlet.	<ul style="list-style-type: none">• Check that nothing is blocking the air intake.

If, after performing all troubleshooting techniques and restarting the system, your problem is still not resolved, please call customer service at 1-888-533-1348.

Technical specifications

SRV45

Technical data

Model	SRV45
Sound pressure (dBA) @3ft	55
Air flow (CFM)	45
Power supply	120 VAC / 60Hz
Room size (ft2)	500
Control	Mobile application
Speeds	Low, Medium, Intermediate, High
Weight (lb) (<i>Without duct</i>)	3.2
Functions	Improving indoor air quality
Power consumption (W)	9.13
Maximum current consumption (A)	0.135
Filter	MERV8

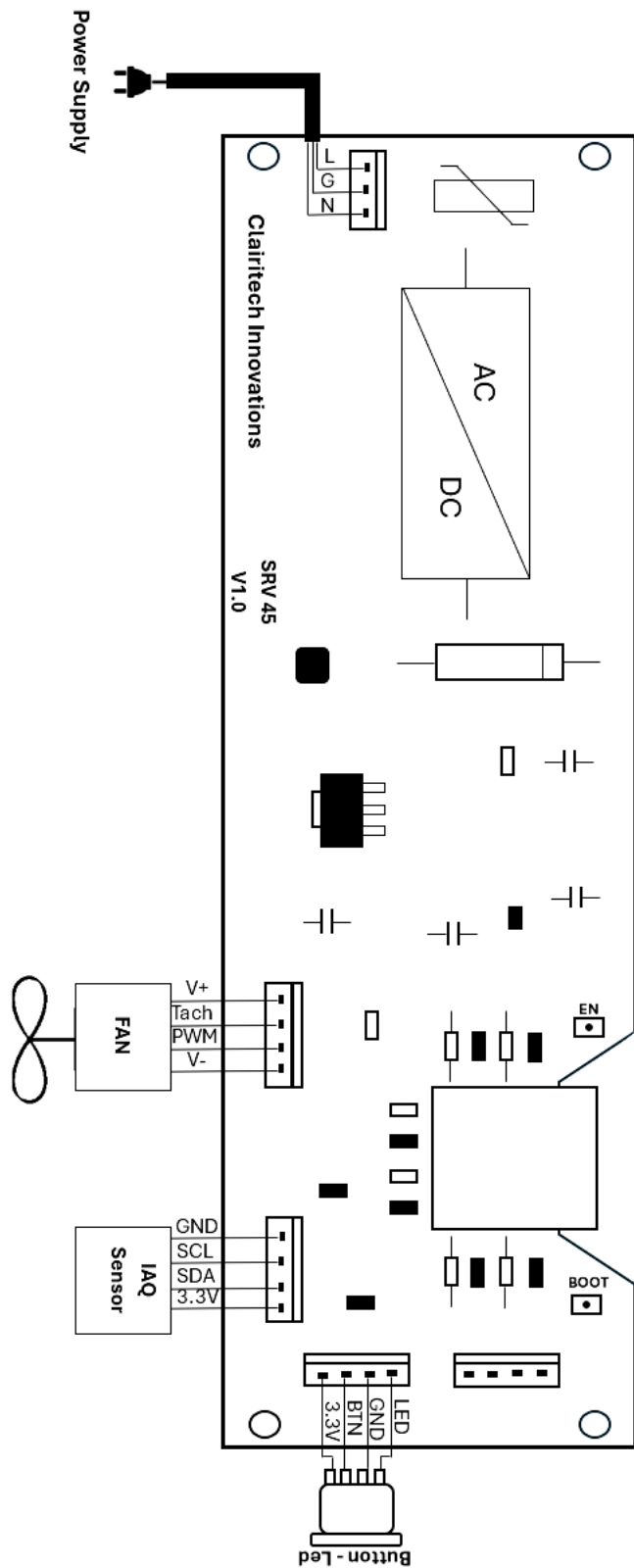
* This model requires a 120 VAC electrical outlet.

Mode	Low (1)	Medium (2)	Intermediate (3)	High (4)
Air flow (CFM)	11	23	34	45
Power consumption (W)	4.11	5.67	7.15	9.13
Sound pressure (dBA) @3ft	29	44	50	55
Voltage (V)	120			
Current (A)	0.067	0.089	0.109	0.135

Dimensions

Model	Height (in)	Width (in)	Depth (in)	Weight (lb)
SRV45	8.9	9.5	4.6	3.2

Electrical diagram



Return and Exchange Policy

Clairitech Innovations Inc. values its relationship with you and offers you the option to return most products you purchase directly from Clairitech Innovations Inc., as set forth in detail below:

Policy

Return period of 30 days for unused products and accessories:

Unless you have a separate agreement with Clairitech Innovations Inc., or subject to the provisions below, all equipment and accessories that have not been used, in new condition and in their original packaging may be returned to Clairitech Innovations Inc. within 30 days of the date of purchase for a refund of their purchase price, less shipping and handling charges, resupply fee and applicable taxes, if already paid.

Return period of 15 days for defective or damaged products and accessories:

Requests for a refund and/or exchange for defective or damaged merchandise can be made within 15 days of receipt of the merchandise. After 15 days, the manufacturer's warranty applies.

Note: Any product returned to Clairitech Innovations Inc. without the prior permission of Clairitech Innovations Inc. will be considered an unauthorized return; the customer will not receive any refunds or credit notes for the product and Clairitech Innovations Inc. will not return the product to the customer.

Damaged products and accessories:

If you have received damaged items, please contact us by phone or email before destroying or discarding the product and/or packaging. Failure to comply could see your request denied.

Fees

Unless the product is defective or the return is a direct result of Clairitech Innovations Inc., the refund or credit does not include any shipping and handling charges shown on your packing slip or invoice; you are responsible for those and for any damages incurred during the return shipment.

Procedure

1. Before returning a product, you must first obtain a Return Authorization Number from Clairitech Innovations Inc. Customer Service before the end of the applicable return period. Proof of purchase will also be required.

To contact Clairitech Innovations Inc. Customer Service, please call **1-888-533-1348** or [Email Us](#).

Any product returned to Clairitech Innovations Inc. without the prior approval of Clairitech Innovations Inc. will be considered an unauthorized return; the customer will not receive any credit or refund for the product and Clairitech Innovations Inc. will not return the product to the customer.

2. Pack the product in its original package.
3. Insert all the documents received concerning the order to be returned. Remember to keep a copy of all the documents provided.
4. To obtain a full refund, the products must be returned in perfect condition, in their original packaging and with all documents, parts and accessories.
5. The return costs must be prepaid; we will not accept deliveries paid at reception.
6. For your protection, we advise you to provide the shipping service.
7. Five days after the date of issue of the return authorization number Clairitech Innovations Inc. Customer Service, you must send the product to the following address:

ClairiTech Innovations Inc

1095 ch. Ohio Rd

Boudreau-Ouest, NB, E4P 6N4, Canada

8. Upon receipt of your authorized and compliant return, Clairitech Innovations Inc will issue a credit or refund equal to the purchase price paid, less shipping and handling charges, restocking charges and applicable taxes subject to this policy.
9. For assistance, please call **1-888-533-1348** or [Email Us](#)
10. For any questions regarding warranty terms please call **1-888-533-1348** or [Email Us](#)

NO RETURNS ARE POSSIBLE AFTER 30 DAYS FOLLOWING THE DATE OF THE BILLING DATE.

CLAIRITECH INNOVATIONS SHALL NOT BE LIABLE FOR, OR ANY CHARGE OF, A CONSUMER ORDER ERROR.