Accessories & Options

BROAN®

Broan SmartSense® Intelligent Ventilation System

READ AND SAVE THESE INSTRUCTIONS

WARNING ⚠️ ⚡

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

1. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer at the address or telephone number listed in the warranty.

2. Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

3. Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.

4. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.

5. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.

6. This unit must be grounded.

7. Do not connect this product as a load on a fan speed control or light dimmer.

8. Read and understand entire instructions before proceeding with installation.

WARRANTY

INSTALLATION

Install controls and wire them as shown. Use following guidelines:

- **IMPORTANT:**
  QTXE080 Ultra Silent™ fan must be wired to SMSC080 SmartSense® control.
  QTXE110 Ultra Silent™ fan must be wired to SMSC110 SmartSense® control.

- Use minimum 75 °C rated electrical wiring.

- Except for required neutral wire, these controls install like normal switches. Make sure electrician knows each control location must have a neutral wire. Neutral wire at switch locations may be code requirement or regular practice in installation municipality; but unless explicitly specified, electrician might not install it.

- Specify deep device electrical boxes where controls will be installed. These controls fit in most North American electrical boxes; however, deep boxes provide extra working space which eases installation. Labor cost savings can offset higher box costs, which is usually less than a dollar over standard depth boxes. Use boxes that have 18 cu. in. minimum volume and are at least 1-1/2 in. deep.

- All controls must be grounded using attached ground wire.

CONTROL OPERATION

HOW SYSTEM WORKS

Broan SmartSense® system is design to provide recommended ventilation for desirable indoor air quality. Related ventilation requirements of *ANSI/ASHRAE Standard 62, "Ventilation for Acceptable Indoor Air Quality" are fulfilled when this system is installed accordingly. Ventilation level, which is based on home square footage and number of bedrooms, is easily set during installation. Power outages do not affect settings, since they are stored in power independent (nonvolatile) memory. Energy usage is optimized by monitoring fan on-time and adjusting automatic ventilation as needed. Indoor air quality is provided 24-hours a day, 7-days a week.

A single Broan SmartSense® system is powerful enough to fulfill ventilation rates for larger homes; however, it is recommended to use multiple installations for homes with multiple bathrooms. Multiple installations provide distributed ventilation throughout the home. Multiple installations are linked and communicate through home's normal power circuits to form an indoor air quality network. In typical multiple installations, Master control is located in master bathroom. Broan and Best by Broan LinkLogic™ enabled range hoods and LinkLogic™ enabled electric dampers can be linked with SmartSense® so their indoor air quality ventilation contribution is included.

Additional features, which are turned off at factory, include Vacation, Disabled, Automatic-Off, and Delayed-Off modes. Vacation mode temporarily disables system until Master fan is manually turned on. Disabled mode removes fan from automatic ventilation usage. Disabled mode does not affect manual operation and its ventilation is credited toward system level requirement, but Broan SmartSense® will not turn it on for automatic ventilation.

If fan is manually left on, Automatic-Off turns it off after 60-minutes. Delayed-Off turns fan off after 20-minutes from when Off paddle is pressed. Fan can be immediately turned off by pressing Off paddle twice.

* American National Standards Institute / American Society of Heating, Refrigerating and Air-Conditioning Engineers

HOW LED WORKS

LED works differently in Run and Program/Feature Selection modes.

Run Mode: LED is off when fan is off. LED is on when fan is on manual ventilation; turned on by pressing On paddle. LED turns on briefly every second (fast-blink) when fan is on automatic ventilation; turned on by Broan SmartSense®.

Program/Feature Selection Mode: LED turns on and off every second (slow-blink) when system is in Program or Feature Selection mode. LED is off when Feature associated with pressed paddle is off. LED is on when Feature associated with pressed paddle is on.

INDOOR AIR QUALITY NETWORK

A single Broan SmartSense® system is powerful enough to fulfill ventilation rates for larger homes; however, it is recommended to use multiple installations for homes with multiple bathrooms. Multiple installations provide distributed ventilation throughout the home.

Multiple installations communicate through a home's electrical power circuits to form an indoor air quality network. Communication pathways are called links. A phase coupler is required if multiple installations are connected to both electrical power phases.

Individual systems in a multiple installation home can operate independently; although, it is recommended to link multiple installations as an indoor air quality network. If single system is installed or independent system operation is desired, proceed with "How To Set System Level" section.

One Broan SmartSense® control is selected as system Master during set up. Any control can be selected as system Master, but typically master bathroom control is chosen. All controls are factory set as system Masters; therefore, installations will operate as independent systems at factory set system level after installation if following set up is not done.

One Master control can link up to 10 Broan SmartSense® and LinkLogic™ devices. SmartSense® controls that are linked to Master control are called Slaves.

HOW TO LINK SMARTSENSE® SYSTEM

1. Unless another control is designated and clearly marked on frame, under decorative plate, or documented on this instruction sheet as Master control, go to master bathroom control.

2. Put Master control in Program mode; press and hold SET button for 3-seconds and then release it.

    Note: In order to help with single person installation, Master control will wait 6-minutes in Program mode for Slave link.

3. LED should be turning on and off every second (slow-blink); if it isn't then repeat step 2.

4. Go to first control to link as a Slave.

5. Press and hold SET button until fan turns on. If fan doesn't turn on in less than 5-seconds, make sure Master is still in Program mode; which is indicated with LED slow-blink.

    Note: At same time Slave turns on, Master fan turns on. Master fan should turn off automatically in less than 15-seconds.

6. Release Slave's SET button.

7. Press Slave's Off paddle to manually turn fan off.

8. If there are more Slave installations then go to next control and repeat steps 5 through 8; otherwise continue with next step.

    Note: In order to help with single person installation, Master control will remain in Program mode for 6-minutes after last Slave is linked.

9. When all Slaves are linked, exit Master Program mode; go to Master control, press and release SET button.

10. Master fan and LED turn on for 1 to 2-seconds and then turn off; this action confirms Program mode exit.

11. If any aforementioned fan and LED actions don't transpire as described, repeat process.

HOW TO SET SYSTEM LEVEL

Installer, homeowner, or building science expert may adjust Broan SmartSense® ventilation system level.

1. System Level is only set in Master control. If home has more than one installation then locate Master control; it is usually in master bathroom or it should be clearly marked or documented.
2. Circle, mark or highlight System Level in Table A using home's square footage and number of bedrooms.
   Note: Building science experts may calculate different rate based on air infiltration measurements.
3. Circle, mark or highlight same System Level in Table B.
4. If home's System Level is 30 then next steps are not necessary, since System Level is set at factory to 30.
5. Put Master control in Program mode; press and hold SET button for 3-seconds and then release it.
6. LED should be turning on and off every second (slow-blink); if it is not then repeat step 5.
7. Press and release (tap) On paddle number of times from Table B. If you tap On paddle too many times, tap Off paddle and System Level will be reduced once for each Off paddle tap.
   In order to reset System Level to 30, immediately after entering Program mode (Steps 5-6), tap On paddle only once and then tap Off paddle only once.
   If you lose On paddle counts, tap Off paddle 9 times or more then tap On paddle twice; System Level will be at 30; proceed with On paddle taps from Table B.
8. Exit Program mode; press and release SET button.
9. After exiting Program mode, LED will fast-blink a number of times.
   LED will fast-blink the same number of times in three sets with a slight pause in between each set.
10. Count number of times LED fast-blinks in a set.
11. Compare number of times LED fast-blinks in a set to number for System Level in Table B.
12. If they are the same then System Level is set accordingly; otherwise, re-adjust System Level starting with step 5.
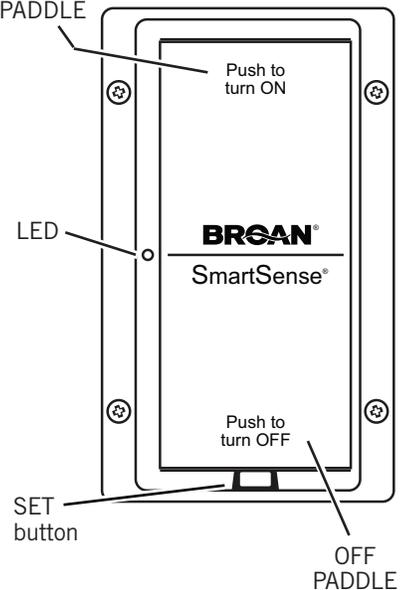
FEATURE SELECTIONS

Vacation Mode: Used only with Master control. Temporarily disables Broan SmartSense® system. Master control will not automatically turn on its fan or any other system fan. After Feature Selection mode exit, Vacation mode is cancelled when Master control On paddle is pressed.
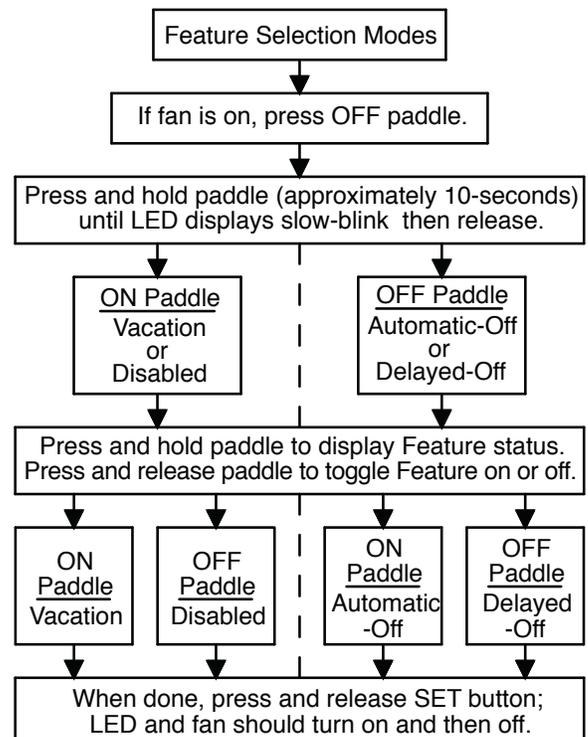
Disabled Mode: Excludes fan from automatic ventilation usage. Does not affect manual operation and its ventilation is credited toward system level accumulation. Master control will not turn it on for automatic ventilation requirement fulfillment. If Master control is put in Disabled mode, it will not turn on any fans for automatic ventilation and recommended indoor air quality ventilation level is not assured.

Automatic-Off: Automatically turns fan off 60-minutes after it was manually turned on.

Delayed-Off: Turns fan off 20-minutes after Off paddle was pressed once. In order to turn fan off immediately, press Off paddle twice.

HOW TO NAVIGATE FEATURE SELECTION MODE

Refer to diagram. First, make sure fan and LED are off by pressing and releasing Off paddle. Vacation/Disabled Feature Selection mode entry is accomplished by pressing On paddle until LED turns on and off every second (slow-blink). Automatic-Off/Delayed-Off Feature Selection mode entry is accomplished using same method with Off paddle. Once either Feature Selection mode is entered, pressing and holding associated paddle displays Feature's status using LED. Press and release associated paddle to toggle feature on or off. When finished, press and release SET button to exit Feature

TABLE A

Floor Area (ft²)	Bedrooms				
	0 - 1	2 - 3	4 - 5	6 - 7	> 7
≤ 1500	30	45	60	75	90
1501 - 3000	45	60	75	90	105
3001 - 4500	60	75	90	105	120
4501 - 6000	75	90	105	120	135
6001 - 7500	90	105	120	135	150
> 7500	105	120	135	150	165

TABLE B

System Level	ON Taps	Fast Blinks
165	9	11
150	8	10
135	7	9
120	6	8
105	5	7
90	4	6
75	3	5
60	2	4
45	1	3
30	ON & OFF or OFF 9x & ON 2x	2

ON PADDLE

Push to turn ON

LED

BROAN®
SmartSense®

Push to turn OFF

SET button

OFF PADDLE

Feature Selection Modes

↓

If fan is on, press OFF paddle.

↓

Press and hold paddle (approximately 10-seconds) until LED displays slow-blink then release.

ON Paddle — Vacation or Disabled

OFF Paddle — Automatic-Off or Delayed-Off

↓

Press and hold paddle to display Feature status. Press and release paddle to toggle Feature on or off.

ON Paddle Vacation | OFF Paddle Disabled | ON Paddle Automatic-Off | OFF Paddle Delayed-Off

↓

When done, press and release SET button; LED and fan should turn on and then off.

Selection mode. Fan and LED will turn on for one to two seconds and then turn off.

1. Make sure fan and LED are off; press and release Off paddle.
2. Put control in Feature Selection mode; press and hold On or Off paddle (approximately 10-seconds) until LED turns on and off every second (slow-blink).
3. Release paddle.
4. Press and hold On or Off paddle with Feature associated; Feature status is displayed when LED is steady. Feature is off if LED is off. Feature is on if LED is on.
5. Release paddle and LED returns to slow-blink.
6. Press and release paddle to toggle Feature on or off.
7. Check Feature status by repeating steps 4 and 5.
8. When done with Feature Selection mode, press and release SET button.
9. Fan and LED turn on for 1 to 2-seconds and then turn off; this action confirms new setting is stored and Feature Selection mode exit.

   Feature Selection mode will automatically exit if any paddle is not pressed within 3-minutes.

HOW TO LINK TO OTHER INSTEON™ (NON-LINKLOGIC™) DEVICES

SmartSense® controls can turn other INSTEON™ enabled devices on and off and other INSTEON™ devices can turn SmartSense® controls on and off.

1. Put controller device in link mode; refer to device's installation instructions.

   If SmartSense control is selected as controller then push and hold On paddle (approximately 10-seconds) until LED turns on and off every second (slow-blink). Release On paddle.
2. Go to controlled device and create link according to device's installation instructions. For SmartSense control, press and hold SET button. Continue holding SET button for 3-seconds then release it. Within 2-seconds, fan and LED turn on; stay on for 1 to 2-seconds and then turn off.
3. If devices and/or controls do not respond as described, repeat process beginning with step 1.

HOW TO REMOVE SMARTSENSE®, LINKLOGIC™, AND INSTEON™ INDIVIDUAL LINKS

Links are two-way communication pathways between devices. It is important to remove both ends of a link. The following "Remove" procedure accomplishes this task.

1. On Master control, push and hold Off paddle.
2. Wait (approximately 10-seconds) until LED turns on and off every second (slow-blink).
3. Release Off paddle.
4. On other control, press and hold SET button.
5. Continue holding SET button for 3-seconds then release it.

   Within 2-seconds, fan and LED turn on; stay on for 1 to 2-seconds and then turn off.
6. If control does not respond as described, repeat process beginning with step 1.

HOW TO CHANGE CONTROL COLOR

An almond paddle/frame assembly is included.

1. Use magnetic #1 Philips screwdriver and remove (4) screws from white paddle/frame.

2. Remove white paddle/frame from control.

   Caution: Do not touch or put anything inside control housing; control damage may result.
3. Place almond paddle/frame on control.
4. Replace (4) screws and lightly tighten them.

   Caution: Do not over tighten screws; frame may crack.

RESTORING POWER TO CONTROL

Control stores all settings in nonvolatile memory; so they are not lost when power is removed. After power loss, control will automatically return fan to its state (on or off) before power was interrupted.

HOW TO RESTORE CONTROL FACTORY SETTINGS

This "Restore" procedure clears control's nonvolatile memory. It returns control to how it was shipped from factory. All Feature selections are turned off and all links are removed. "Restore" procedure should be used cautiously; usually it is used only when first setting up a system or for single unit installations.

Links are unique for each device pair. If one end of the link is removed, it is important to remove the other end. "Restore" only removes links within its control. Other link-end needs to be removed in other device.

CAUTION: Before continuing, choose one of following options: (a) remove links to target "Restore" control using procedure described in "How To Remove Specific Individual Links" or (b) "Restore" all controls in system and "Restore" all other LinkLogic™ and INSTEON™ devices; then links need to be reestablished using "How To Link SmartSense® System" procedure.

1. Remove power from control's microcontroller; either: (a) turn circuit breaker off or (b) pull SET button until it is fully extended.
2. Wait 15-seconds.
3. Press and hold SET button.
4. For option (1a), turn circuit breaker on while SET button is pressed. For option (1b), push in and press SET button in one motion.
5. Continue holding SET button for 3-seconds after power is applied then release it.

   Within 2-seconds, fan and LED turn on; stay on for 1 to 2-seconds and then turn off.
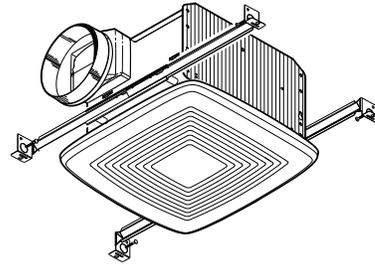6. If control does not respond as described, start process over with step 1.

99044387A
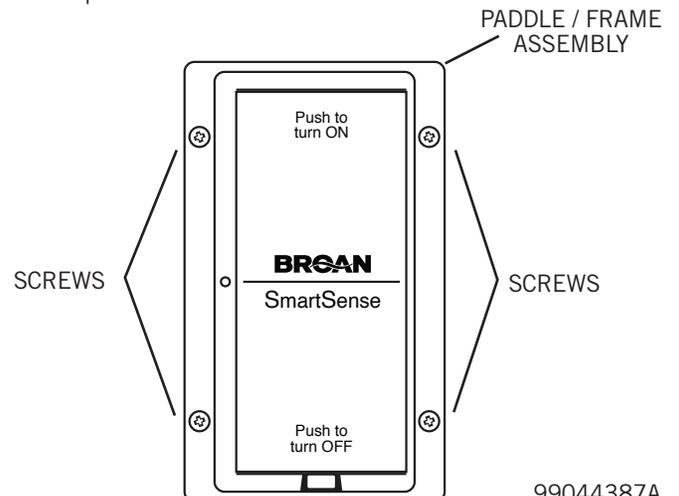
Broan SmartSense®
INTELLIGENT VENTILATION SYSTEM
SSQTXE080 & SSQTXE110

Improve air quality throughout the home automatically and efficiently - a smart solution to home ventilation.

FEATURES

- Removes pollutants such as household cleaners, VOC's, carbon dioxide/monoxide, and off-gassing from building materials, carpets and other furnishings
- Helps remove gases and particles that are not trapped by any filtration unit
- Program a single control for a ventilation rate to match the size of the home
- Automatically adjusts total run-time based on square footage and number of bedrooms
- Optimizes energy usage by monitoring normal fan operation and adjusting automatic ventilation time as needed
- Continuously monitors and as necessary, activates other Broan SmartSense® systems located in different locations within the home – day and night
- No control wiring required – controls communicate over existing home power wires
- Uses less than 40 watts during ventilation cycles – in most installations
- Cost effective and energy efficient ventilation strategy
- Broan Ultra Silent™ fans operate at a barely audible 0.3 (80 CFM fans) or 0.7 Sones (110 CFM fans)
- Easy installation of fans in the ceiling, vented to the exterior using 6-inch duct
- Up to 10 systems can be combined into an air quality network
- Meets ASHRAE 62.2-2007 – related ventilation requirements

LinkLogic® uses INSTEON™, a powerful, wireless home control technology

INSTEON ENABLED

ENERGY STAR

CONTROL
(Recommend deep single-gang electrical box)

80 CFM FAN (Model QTXE080)
110 CFM FAN (Model QTXE110)
(see fan spec sheet)

SSQTXE080

Contains:
1 - 80 CFM Fan
   (Model QTXE080)
1 - SmartSense® Control
   (SMSC080)

SSQTXE110

Contains:
1 - 110 CFM Fan
   (Model QTXE110)
1 - SmartSense® Control
   (SMSC110)

SMSCPLR Phase Coupler (optional)

Required for LinkLogic® on opposite electrical power phases

CONTROL SPECIFICATIONS

Paddle Type:	Rocker action
Color:	White Paddle & Trim Frame Almond Paddle & Trim Frame included
Conditions:	Indoor, 40^0 to 104^0 F, up to 85% relative humidity
Supply Voltage:	120 VAC +/- 10%, 60 Hz, single phase
Max. Load:	480 Watts incandescent, 13A resistive
Certification:	Safety tested for use in USA and Canada (ETL #3017581)

Broan-NuTone LLC   Hartford, Wisconsin   www.broan.com   800-558-1711

REFERENCE	QTY.	REMARKS	Project
			Location
			Architect
			Engineer
			Contractor
			Submitted by **Date**

01C   99044388B

Broan SmartSense®
INTELLIGENT VENTILATION SYSTEM
SSQTXE080 & SSQTXE110

Recommended rooms for fans include:

- One for each Bathroom, Watercloset, or Shower Stall
- Laundry Room
- Rec Room
- Workshop
- Exercise Room
- Home Office
- Playroom

INSTEON™
POWERLINE PHYSICAL LAYER PROPERTIES

Frequency:	131.65 KHz
Modulation:	BPSK
Min. Transmit Level:	3.16 Vpp into 5 Ohms
Min. Receive Level:	10 mV
Phase Bridging:	SMSCPLR Hard Wired or
	INSTEON™ RF Phase Coupler

RECOMMENDED CONTINUOUS VENTILATION RATE IN CFM (cubic feet per minute)

Home Square Footage	Number of Bedrooms				
	0 - 1	2 - 3	4 - 5	6 - 7	> 7
< 1500	30	45	60	75	90
1501 - 3000	45	60	75	90	105
3001 - 4500	60	75	90	105	120
4501 - 6000	75	90	105	120	135
6001 - 7500	90	105	120	135	150
> 7500	105	120	135	150	165

INSTEON ENABLED

ENERGY STAR
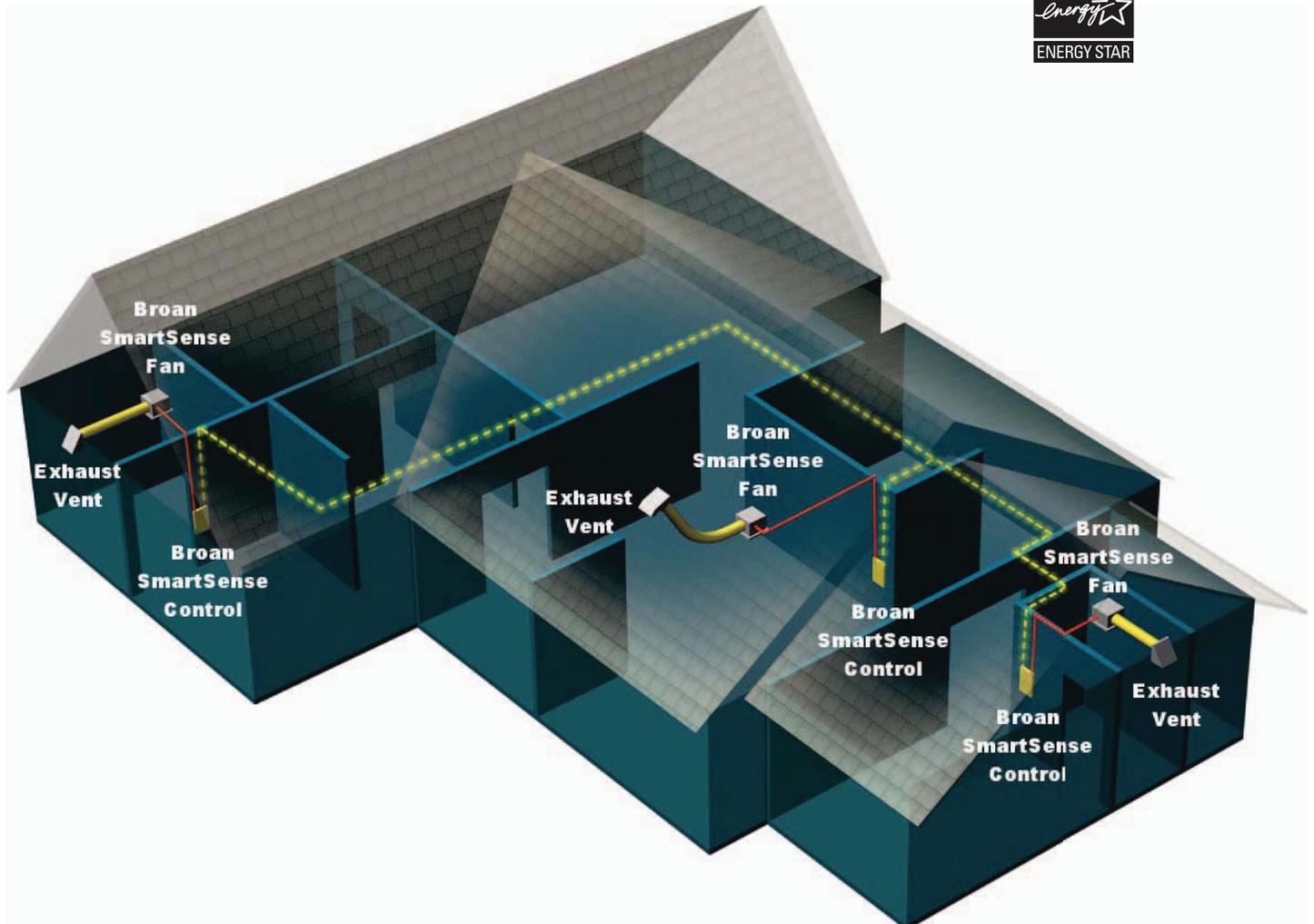
We're here if you need us.

As the industry leader in quality storage options for nearly half a century, it is doubtful that you will ever need to take advantage of ClosetMaid's Free Replacement Policy. However, in the unlikely event that you do discover such a defect – or wish to contact us for any reason – there are three easy ways for you to do so:

Call us toll-free: 1-800-221-0641 (U.S.A. and Canada)

Visit our website: www.closetmaid.com

Contact your ClosetMaid® installing dealer:

Keep this card. And keep coming back to ClosetMaid®.

ClosetMaid® offers the industry's largest selection of storage solutions for keeping your home together and running smoothly – all backed by our Free Replacement Policy. Here are a few examples:
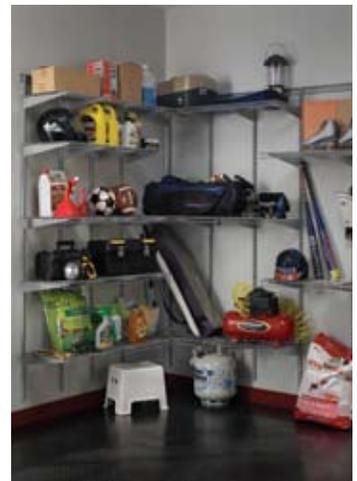
MasterSuite® custom laminate shelving systems

A variety of space-saving, affordable wire shelving

An extensive selection of storage accessories

Storage products for the garage and every room in the house

FREE REPLACEMENT POLICY

If a ClosetMaid® product does not give the user complete satisfaction when installed in accordance with the manufacturer's instructions, it will be exchanged free of charge. Please note that only the unsatisfactory part in a multi-piece product will be exchanged.

EMERSON.

SMARTPHONE CONTROL

MONITOR AND CONTROL | **SET SCHEDULES** | **GET REAL-TIME ALERTS**

GET CONNECTED IN MINUTES.

You'll need:
- LiftMaster Wi-Fi® garage door opener (look for the Wi-Fi logo)
- Wi-Fi-enabled smartphone, tablet or laptop
- Broadband Internet connection
- Wi-Fi signal in the garage
- Your home Wi-Fi network password

1 Use your control panel (located on your wall). Lift the push button and press the learn button.

2 On your Wi-Fi-enabled smartphone, tablet or laptop, go to Settings > Wi-Fi and select the network with the "**MyQ®-**" prefix.

3 Launch the web browser on your Wi-Fi-enabled smartphone, tablet or laptop, enter **Setup.MyQDevice.com** and follow the on-screen prompts. **Make sure to write down the MyQ serial number.**

4 Download the MyQ App, set up an account and add the MyQ serial number to your account.

For more information on how to connect visit, **WiFiHelp.LiftMaster.com**

TAKE COMMAND

If you are like many homeowners, the garage door is the largest and most used entry point to the home. Monitoring who is going in and out of your garage or having the ability to use your smart device to operate the garage door gives peace-of-mind and control.

Give virtual key access to friend, relative, or service person.

Schedule specific hour and minute to close door and/or notify.

Set door to automatically close and/or notify after a set length of time.

Quick Setup Guide

Use the Genie Aladdin Connect® app to control this garage door system.**

Other home automation system apps may also control this Genie garage door opener system. Check our website for updates pertaining to compatible third party systems.

1 Download the app

Download the Genie Aladdin Connect® app from the Apple App Store or Google Play app store. You may also scan the codes below.

Available on the App Store

GET IT ON Google play

Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.

2 Follow app instructions

The Genie Aladdin Connect® in-app instructions will guide you through the setup process. For hep at any time contact The Genie Company at 1-866-599-4995 or visit our website: www.geniecompany.com/aladdinconnect

Visit **www.geniecompany.com/aladdinconnect** For installation and programming videos or Scan the QR code to the left.

3 Install WARNING placard

⚠ WARNING

Place included unintended operation warning placard next to garage door openers wall button.

Location of Aladdin Connect® programming button and LED.

PRESS DOWN ON TOP OF LENS TO REMOVE
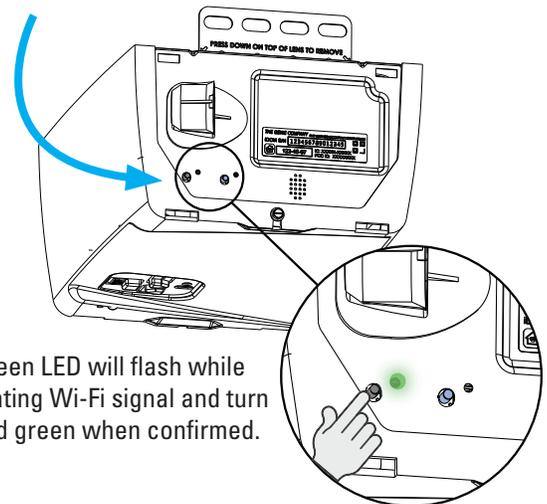
*Green LED will flash while locating Wi-Fi signal and turn solid green when confirmed.

IMPORTANT SAFETY INSTRUCTIONS
WARNING

TO REDUCE THE RISK OF SEVERE INJURY OR DEATH, READ AND FOLLOW ALL INSTRUCTIONS.

1. NEVER let children operate or play with the door controls.
2. Install the entrapment WARNING label next to the wall button or console, in a prominent location.
3. NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.
4. NEVER GO UNDER A STOPPED, PARTIALLY OPEN DOOR.
5. The Aladdin Connect™ operating system is designed for unattended operation. The door could move unexpectedly.

SAVE THESE INSTRUCTIONS

GENIE
THE BRAND YOU TRUST

** Use of this product, the software embedded within this product and the related application software is subject to the Terms and Conditions available at: www.geniecompany.com/aladdinconnect