



MODEL: DSQR70BNOR

# INSTALLATION MANUAL AND USER GUIDE

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## Bathroom Ventilation Fan with Light

### READ AND SAVE THESE INSTRUCTIONS

This residential series bathroom fan uses state-of-the-art technology providing superior, long-life performance for your room ventilation needs.

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## GENERAL SAFETY INFORMATION AND WARNINGS

**For your safety and to ensure proper performance of the unit, it is very important to read these instructions carefully before installation. Failure to comply with the instructions contained herein could result in personal injury or property damage. We recommend that you keep this booklet for future reference. All units should be installed by a licensed electrician.**

1. Electrical service supply must be 120V 60Hz.
2. Do not install where the air temperature will exceed 40° C (104° F).
3. Do not bend or kink the power wires.
4. Follow all local safety and electrical codes, as well as requirements for NEC (National Electrical Code) and OSHA (Occupational Safety and Health Act).
5. Always disconnect the power supply prior to servicing the fan, motor or junction box.
6. Protect the electrical wires from sharp edges, oil, grease, hot surfaces, chemicals, or other objects.
7. Do not install the unit where ducts where the airflow can be severely restricted.
8. There should always be an adequate air supply to the vented area.
9. This ventilating fan is approved for use over a bathtub or shower when installed in a GFCI (Ground Fault Circuit Interrupter)-protected circuit. The control device should not be installed within reach of the bathtub or shower.
10. Do not use to exhaust hazardous or explosive vapors.
11. Disconnect the appliance from the power supply before servicing.
12. Do not use this fan with any solid-state control device. Such as a remote control, dimmer switch, or certain timers. Mechanical timers are not solid state devices.
13. This unit must be properly grounded.
14. Do not install in a cooking area. (See Fig.A)

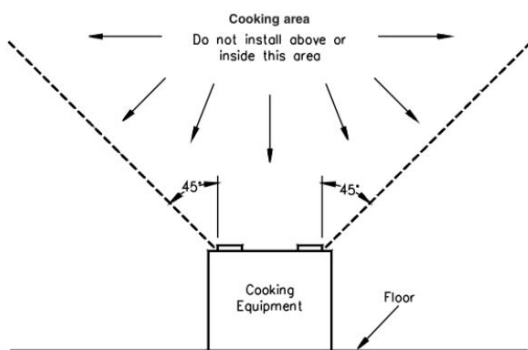


Fig.A

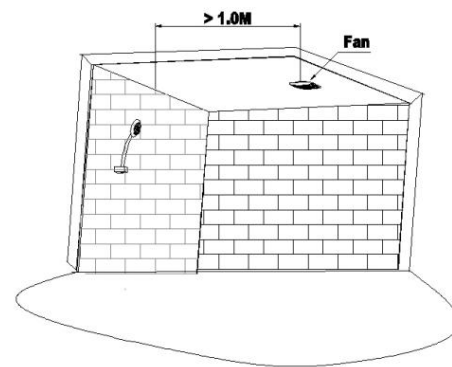


Fig.B

15. To reduce risk of fire and to properly exhaust air, be sure to duct air outside - Do not vent exhaust air into spaces within walls or ceilings or into attics, crawl spaces, or garages.
16. The fan is intended to be mounted at least 7 feet (2.1m) above the floor.

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

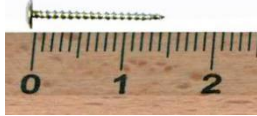


17. Use this unit in the manner intended by the manufacturer. If you have any questions, please call Customer Support at (888) 930-8528.
18. Installation work must be carried out by qualified person(s) in accordance with all local and safety codes, including the rules for fire-rated construction.

19. Sufficient air supply is required for proper combustion and the exhaustion of gasses through the chimney (flue) of fuel burning equipment to prevent back-drafting. See the standards of NFPA (National Fire Protection Association) and ASHRAE (American Society for Heating Refrigeration and Air Conditioning Engineers) and the local building code authorities.
20. Do not install in a ceiling with insulation greater than R40.
21. Exercise care not to damage existing wiring when cutting or drilling into walls or ceilings.
22. Prior to servicing or cleaning this unit, shut off power supply at the panel and lock to prevent the power from being turned on. If the panel cannot be locked, clearly mark the panel with a warning tag not to turn on the power.
23. If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application. When the fan is going to install in the bathroom, the fan and the tub need to be more than 1.0 meter between each other, the fan required to install at the other side of the tub in ceiling. Acceptable for use over a bathtub or shower when installed in a GFCI protected branch circuit. (See Fig.B)
24. The product is not intended for connection to rigid metal conduit. For flexible conduit use only.
25. Duct work should be installed in as straight a line as possible, with minimum bends.
26. Duct work size must be a minimum of the discharge and should not be reduced.
27. This unit is equipped with a built-in thermal cut-off for safety and to prolong the life of the motor.

#### LIST OF INCLUDED PARTS AND ACCESSORIES

NOTE: Unpack and carefully remove unit from carton. Refer to the supplies and parts list to verify that all parts are present. Please email Customer Support at [support@strategicretailsolutions.com](mailto:support@strategicretailsolutions.com) to request missing or replacement parts.

Part #	Part Name/Photo	Qty
1	 Bath fan housing	1
2	 Bath fan glass globe	1
3	 Light harness plug	1

Part #	Part Name/Photo	Qty
4	 Long wood screw (M4*30)	4
5	 Grille and shade mounting hardware (Finial cap and Finial nut)	1
6	 Lock nut	1

## LIST OF ADDITIONAL TOOLS/SUPPLIES REQUIRED FOR INSTALLATION

- ☑ Safety glasses
- ☑ 4-in. round duct, elbows if needed, installation tools and other supplies including foil duct tape or 4-in. clamp to secure to fan housing
- ☑ Switch(es) to operate fan and lights
- ☑ Phillips screwdriver
- ☑ Tape measure
- ☑ Utility knife or saw for cutting drywall
- ☑ Wire cutter/stripper
- ☑ Wire nuts
- ☑ Ladder
- ☑ Hammer
- ☑ Drill bits and Electric drill
- ☑ Flathead screwdriver
- ☑ Wood screws

## PLANNING INSTALLATION

When installing the ventilation fan in a new construction site, install the main body of the fan and ductwork during the rough-in construction of the building. The grille should be installed after the finished ceiling is in place. Use the dimensions provided in this manual to determine the required hole size for the ceiling. The ducting from this fan to the outside of the building has a strong effect on the airflow, noise and energy-use of the fan. Use the shortest, straightest duct routing possible for best performance and avoid installing the fan with smaller ducts than specified in this manual. Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated airflow. Do not install the ventilation fan in areas where the ductwork will require configurations as shown in Fig. 1 below.

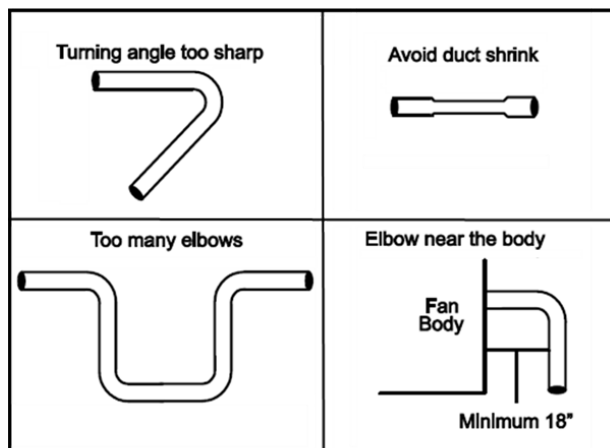


Fig. 1

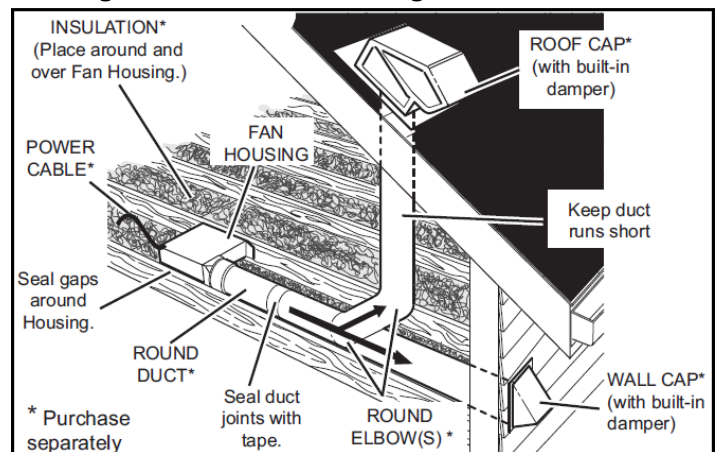


Fig. 2

Recommended installation includes insulating around ductwork and the fan housing to minimize heat loss (see Fig. 2 above). Seal all gaps around the housing with caulk or other similar material to inhibit air leakage to the exterior of the thermal envelope of the building. Rigid sheet metal duct and the shortest path to the outside will minimize static pressure losses and promote adequate air flow.

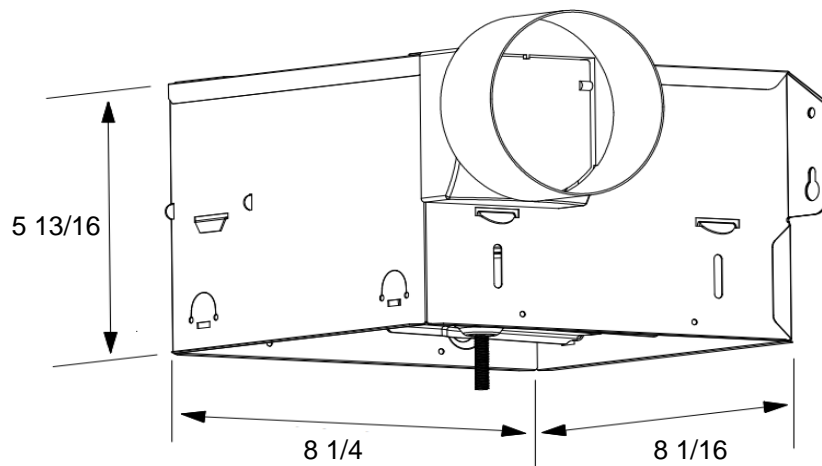


## SPECIFICATIONS

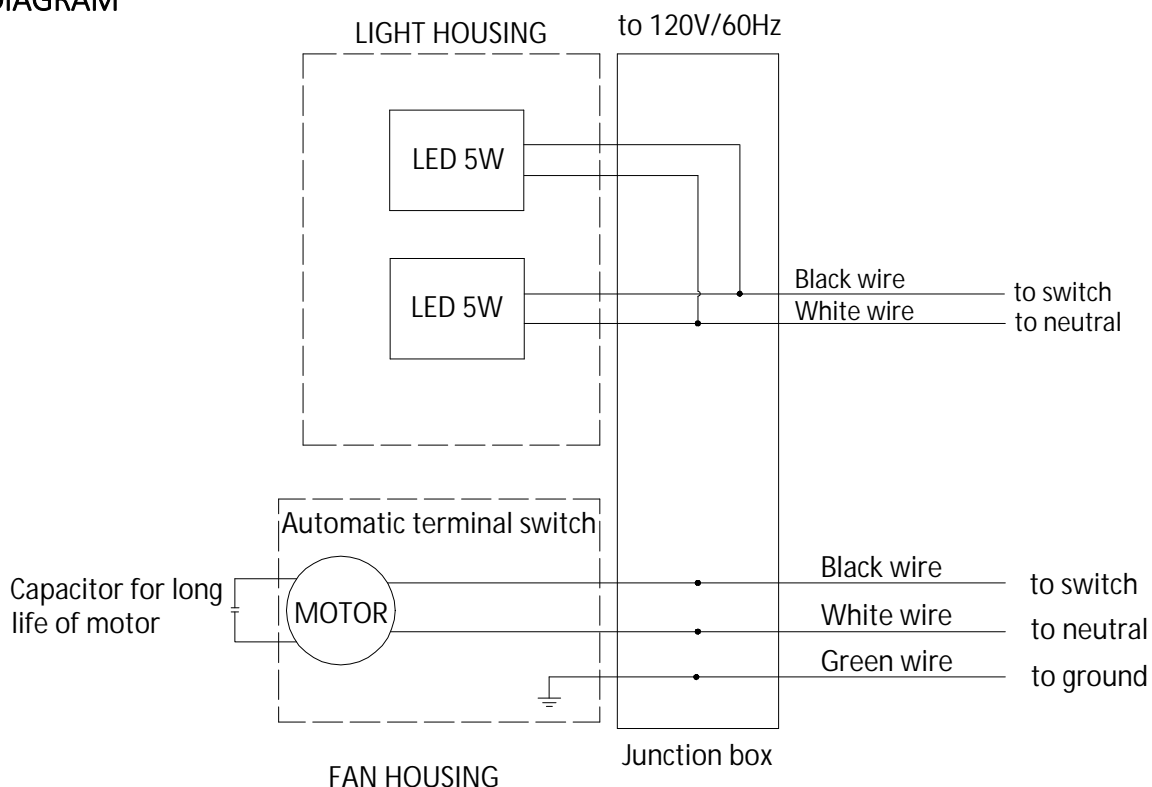
Model No.	Air CFM	V	Hz	Duct Diameter	Noise (Sones)
DSQR70BNOR	70 CFM	120	60	4 in. (10 cm)	1.5

## DIMENSIONS

Ceiling Opening – D	Ceiling Opening – W x L	Housing Dimension – W x L	Housing Dimension - D	Grille Dimension
6 1/4 in. (15.8 cm)	8 7/16 in. x 8 3/16 in. (21.5 cm x 20.8 cm)	8 1/4 in. x 8 1/16 in. (21 cm x 20.5 cm)	5 13/16 in. (14.8 cm)	12 in. x 12 in. (30.5 cm x 30.5 cm)



## WIRING DIAGRAM



## FAN HOUSING INSTALLATION (DIRECT JOIST MOUNTING OR SUSPENSION BRACKET JOIST MOUNTING)

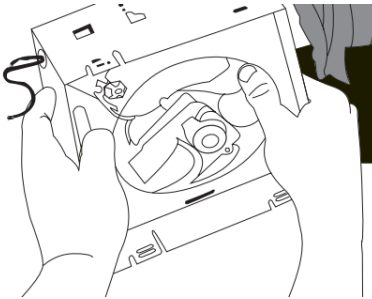
- Check the area above installation location to be sure that:
  - a. Ductwork can be run and there is sufficient area for proper ventilation;
  - b. Wiring can be run to the planned location (wires from the power supply to the unit should be 12-18 AWG);
  - c. There will be accessible to ductwork and wiring for inspection and future maintenance;
  - d. No wiring or other obstructions will interfere with installation.

For installation in existing construction:

- Installing the fan housing in an existing building requires access (attic or crawl space) in the planned installation location above the existing ductwork and wiring.
- Inspect existing ductwork and wiring before proceeding with installation.

**Step 1:** Turn off power source. Review all safety precautions.

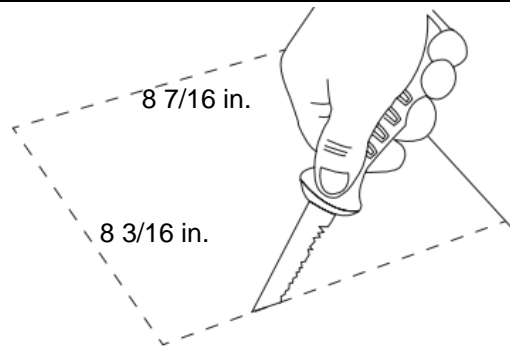
**Step 2:** Remove the existing fan.



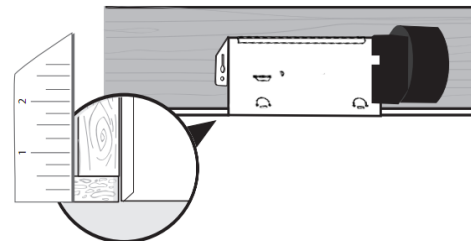
**Step 3:** Measure the opening to ensure it is large enough to accommodate the new fan housing. (8 7/16 in. x 8 3/16 in.)



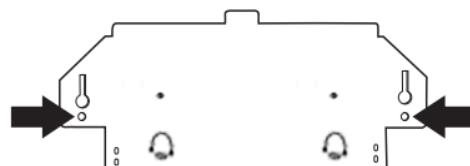
**Step 4:** If this fan is not replacing an old fan, be sure cut a 8 7/16 in. x 8 3/16 in. opening for the bath fan housing.

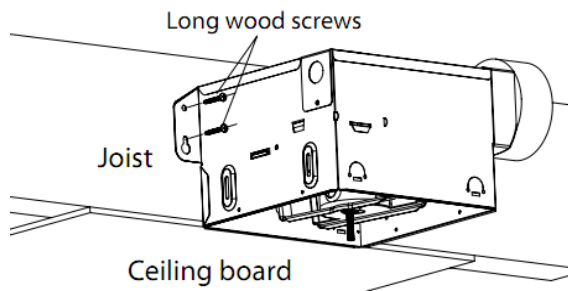


**Step 5:** Place the bath fan housing next to a ceiling joist or wall stud. The fan housing should be level and perpendicular to the joist or stud. Allow for thickness of the ceiling board used in your application. Do NOT flush mount to joist. Bottom of fan housing should be flush with ceiling board.



**Step 6:** Mount fan housing to the joist or stud using long wood screws (M4\*30) where indicated by arrows outside fan housing.

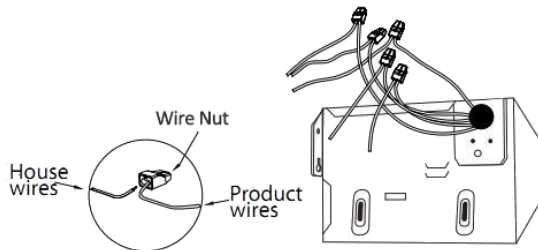




**Step 7: Disconnect the power supply before proceeding with Step 7.** Run 120V 60Hz house wiring (with ground) from wall switches to fan location. Remove junction box cover and, using wire nuts, connect house wires to unit wires. Refer to Wiring Diagram on page 4.

**Note:** 12AWG is the minimum conductor to be used for branch-circuit wiring.

**CAUTION:** If you electrical wires do not match the colors listed, you must determine what each house wire represents before connecting. You may need to consult an electrical contractor to determine safely.



#### Wire Nuts instructions:

**WARNING:** Wiring must comply with all applicable electrical codes. Turn OFF power before removing or installing connectors. COPPER TO COPPER ONLY. Do not use aluminum wire.

**CAUTION:** Accessory part (Wire nuts) should meet installation instructions below.

**NOTE:** The connector is reusable on solid wires of the same wire gage or smaller. Do not reuse the nut on stranded wires.

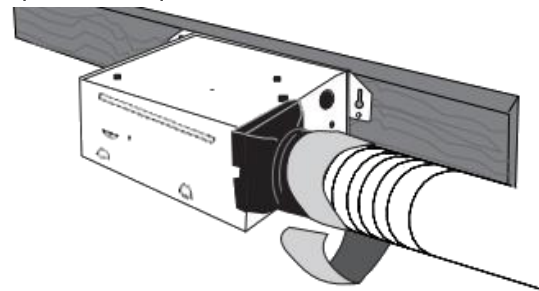
- Strip wires 3/8"-1/2"
- Grip the wire firmly and push the stripped end of the wire into the open port of the nut. Use only one conductor per port.
- Verify the stripped end of the wires is fully inserted

to the back of the nut.

**NOTE:** Important wire information. Maximum temperature rating 105°C (221°F). 600 volts maximum for building wire and 1000 volts maximum for building wire and 1000 volts maximum in signs and lighting fixtures. The acceptable wire range includes: solid 12-18 AWG.

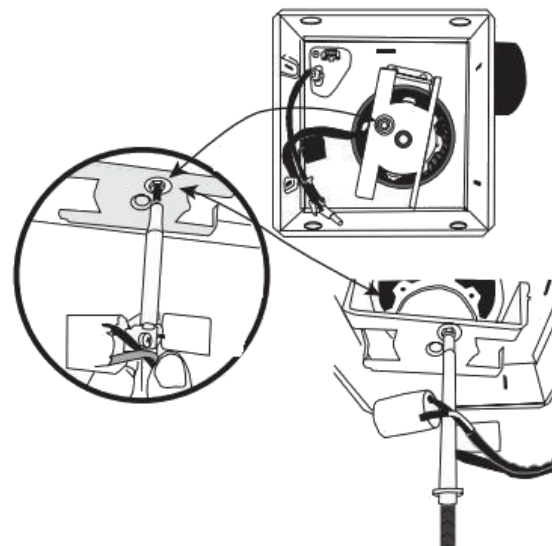
- **Green wires** are ground wires. House ground may be green or bare.
- **White wires** are neutral. They carry power back to the service panel.
- **Black wires** are hot. They carry power from the panel to the fan.

**Step 8:** Install a circular 4 in. duct and secure it with duct tape or clamps.



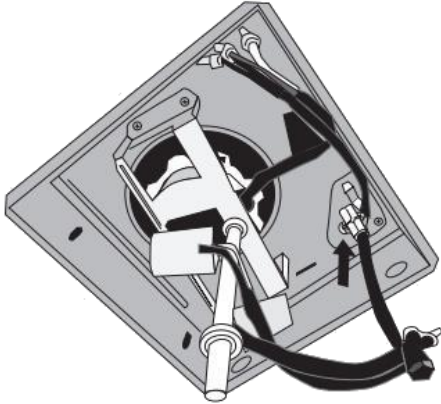
Finish ceiling work. (Ceiling hole should be aligned with edge of fan housing.)

**Step 9:** Then thread Light harness plug onto screw in fan housing as shown.

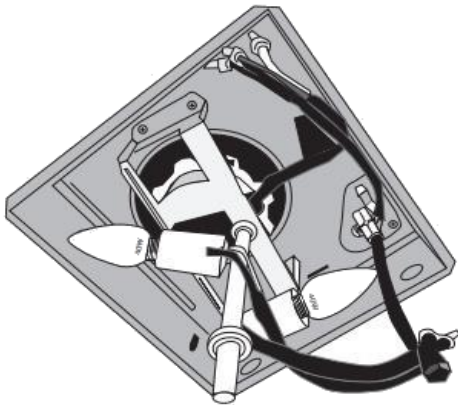


**Step 10:** Connect the Light harness plug into the white

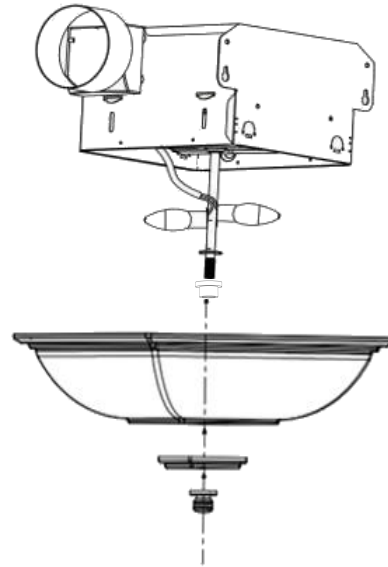
receptacle in the fan housing.



**Step 11:** Install two (lamp base E12) bulbs.



**Step 12:** Place bath fan shade onto the Light harness plug. Secure bath fan shade to rod with finial cap and finial nut.



Turn on electricity at breaker box after finishing installation.

## CLEANING AND MAINTENANCE THE VENTILATION FAN

Cleaning the unit periodically is advisable since dust, molds, grease, and other dirt particles can affect the conductivity of the air in the unit.

### **WARNING:**

Disconnect power supply before servicing. See SAFETY INFORMATION before proceeding. Routine maintenance should be done at least once a year.

### **CAUTION:**

Never use solvents, thinner or harsh chemicals for cleaning the fan.

Do not allow water to enter the motor.

Do not immerse resin parts in water over 140°F.

- 1) Carefully unscrew finial cap and finial nut to remove from the bath fan grille.
- 2) Clean glass shade with a soft towel or paper towels and glass cleaner (avoid harsh detergent) in a sink.
- 3) Clean inside of unit with a vacuum cleaner. Do not use liquid cleaner, as the motor should not come in contact with any liquid.
- 4) Dry the bath fan shade and grille with a soft towel or paper towels.
- 5) Put the grille back in place.

## WARRANTY

Liftbridge Kitchen & Bath fan Model DSQR70BNOR is covered by a 3-year limited warranty. The manufacturer warrants the bath fan motor and all other parts/components on this bath fan present at the time of shipment from the factory to be free from defects in workmanship and material for 3 years after the date of purchase by the original purchaser, when properly installed and under normal conditions of use. To obtain warranty service you must register your product as directed below. This warranty does not cover products that have been abused, altered, damaged, or misused. The manufacturer DISCLAIMS all other implied or express warranties including warranties of merchantability and/or fitness for a particular purpose. As some states do not allow exclusions or limitations on an implied warranty, the above exclusions and limitations may not apply. This warranty gives you specific rights, and you may have other rights that vary from state to state.

THIS WARRANTY IS LIMITED TO REPAIR OR REPLACEMENT OF DEFECTIVE PARTS ONLY, AND ANY COSTS RELATED TO SAME SHALL NOT EXCEED THE USER'S COST OF THE PRODUCT. MANUFACTURER ALSO RETAINS THE OPTION OF REFUNDING PURCHASE PRICE AS FULL SETTLEMENT OF ANY WARRANTY CLAIM.

Any changes related to installation, repair, replacement, or damages related to same are excluded.

## CUSTOMER SUPPORT

For Customer Support please call us at **(888)930-8528**, or email **support@strategicretailsolutions.com**. Please provide your bath fan model number when contacting Customer Support.

## PRODUCT REGISTRATION

To warranty your fan, complete registration by using either of the following methods:

Fill out the registration form on our website, at [www.strategicretailsolutions.com/#productreg](http://www.strategicretailsolutions.com/#productreg)

or

Fill out the warranty registration below and mail it to this address:

Strategic Retail Solutions

Attn: Bath Fan Registration

P.O. Box 528

Sheboygan, WI 53082

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### LIFTBRIDGE KITCHEN & BATH FAN WARRANTY REGISTRATION

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: (    ) \_\_\_\_\_ Date of Purchase: \_\_\_\_\_

Model Number: \_\_\_\_\_ DSQR70BNOR