
bathfan Select S Series

Ceiling Mount Exhaust Fan with Metal Casing



Table of contents

1	Introduction	1
1.1	Product Description.....	1
1.2	Intended Use	1
1.3	Document Description	1
1.4	Fantech Warranty	1
1.5	Product Overview	1
1.6	Type Designation	2
2	Safety	2
2.1	Safety definitions.....	2
2.2	Safety Instructions	2
2.3	Personal protective equipment	3
3	Installation.....	3
3.1	To Set the Product Speed.....	3
3.2	To Set the Product Speed.....	4
3.3	To Set the Product Speed.....	4
3.4	To Set the Product Speed.....	5
3.5	To Mount the Product	5
3.6	To Plan the Duct Run.....	6
3.7	To Attach the Duct	6
3.8	To Manage the Duct Run.....	7
3.9	To Mount the Radiation Damper.....	7
4	Electrical connection.....	8
4.1	To do before the electrical connection	8
4.2	To connect the product to the power supply	8
4.3	Motor Protection.....	8
4.4	Wiring Diagrams.....	8
4.5	To Attach the Ceiling Grille.....	10
5	Operation.....	11
5.1	To Start the Product	11
5.1.1	To Stop the Product	11
5.2	Sequence of Operations	11
6	Troubleshooting.....	12
6.1	To Adjust the Humidity Sensor.....	12
6.2	To Replace the Blower Assembly	12
7	Maintenance.....	13
7.1	To Maintain the Product	13
8	Technical data.....	13
8.1	Technical Data Overview.....	13
8.2	Product Dimensions.....	13

1 Introduction

1.1 Product Description

This product is a ceiling mount exhaust fan with a metal casing.

This fan has rotating parts and personnel must exercise safety precautions during installation, operations, and maintenance.

1.2 Intended Use

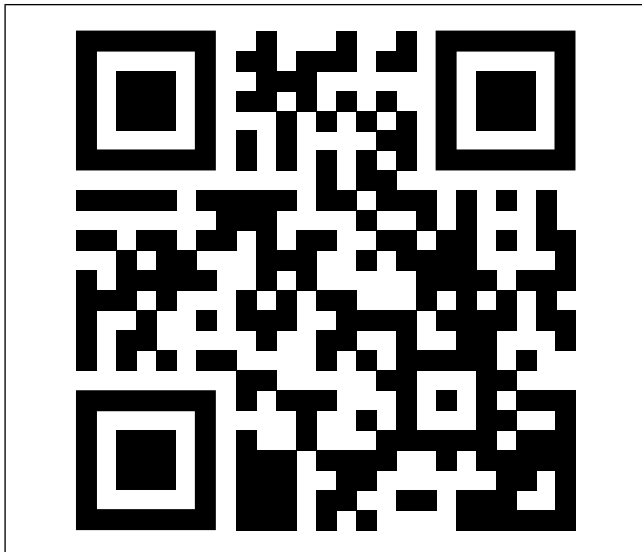
Use this product only in the manner intended by Fantech. If you have any questions, please contact a Fantech representative.

1.3 Document Description

This document contains instructions for installation, operation and maintenance of the product. The procedures must be done by approved personnel only.

Speak to a Fantech representative for more information on how to install the product in different installation locations.

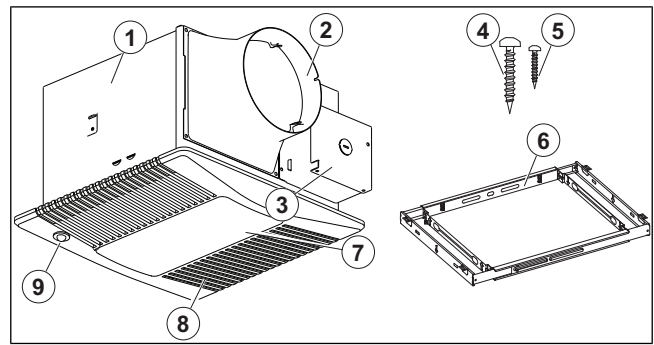
1.4 Fantech Warranty



Make a scan of the code above to access Fantech's warranty in English, French, or Spanish. This product has a 5 year warranty.

If additional support is needed to retrieve the warranty, visit fantech.net; call (800) 747-1762 (US), (800) 565-3548 (Canada), or +52 55 1328-7328 (Latin America); email support@fantech.net; or mail us at 10048 Industrial Blvd, Lenexa, KS 66215 United States or at 50 Kanalfläkt Way, Bouctouche, NB E4S 3M5 Canada.

1.5 Product Overview



1. Casing, quantity 1
2. Duct Connector, quantity 1
3. Junction Box, quantity 1
4. B Screw, quantity 6 – Self-tapping 1 inch (25mm)
5. A Screw, quantity 1 – Self-tapping 1/4 inch (6mm)
6. EZ Mounting Frame, quantity 1
7. Light (On Select Models)
8. Ceiling Grille
9. Occupancy Sensor (On Select Models)

1.6 Type Designation

Product Name	Model Name	bathfan Series
Duct Collar Dimensions in inches (mm)	bathfan Select SC50-80-110, #484313	6 (152)
	bathfan Select SC50-80-110L, #484314	
	bathfan Select SC50-80-110H, #494140	
	bathfan Select S110-130-150, #484315	
	bathfan Select S110-130-150L, #484316	
	bathfan Select SC110-130-150H, #484317	
	bathfan Select SC110-130-150LH, #484318	
	bathfan Select SC110-130-150LHO, #484319	
Motor Type	DC: Direct Current, 1-phase	

2 Safety

2.1 Safety definitions

Warnings, cautions and notes are used to point out specially important parts of the manual.



Warning

If you do not obey these instructions, there is a risk of death or injury.



Caution

If you do not obey these instructions, there is a risk of damage to the product, other materials or the adjacent area.

Note:

Information that is necessary in a given situation.

2.2 Safety Instructions



Warning

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

- Use this unit only in the manner intended by the manufacturer. If you have any questions, contact your manufacturer's representative.
- 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.

- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. 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.
- When cutting or drilling into wall and ceiling, do not damage electrical wiring and other hidden utilities.
- Ducted exhaust fans must always be vented to the outdoors.
- If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI (Ground Fault Circuit Interrupter) – protected branch circuit.
- Never place a switch where it can be reached from a tub or shower.
- TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCTWORK.
- Make sure the product is correctly grounded.
- To Reduce The Risk Of Fire Or Electric Shock, Do Not Use This Fan With Any Solid-State Speed Control Device.
- Do not mount this product in kitchens.
- 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.

- Do not install this product in a ceiling with a thermal insulation value more than R40.



Caution

To decrease the risk of product malfunction or damage to the product or surrounding finishes and walls, read and obey the caution instructions that follow before you do work on the product:

- For General Ventilating Use Only. Do Not Use To Exhaust Hazardous Or Explosive Material and Vapors.
- This product is designed for installation in ceilings up to a 12/12 pitch (45 degree angle).

Make sure the duct connector points up.

- Do not let unwanted objects enter the product (drywall spray, construction dust, and more).

Note:

Ducting has a strong effect on the air flow, 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 recommended. Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated air flow.

2.3 Personal protective equipment

Use personal protective equipment during all work on the product.

- Approved eye protection
- Approved protective helmet
- Approved hearing protection
- Approved protective gloves
- Approved protective shoes
- Approved work clothing

3 Installation

3.1 To Set the Product Speed

Note:

For only the bathfan Select SC50–80–110 and the SC50–80–110L products.

Legend for Diagram	
English Terminology	Meaning
CONTROL BOX	Control Box
S	Low Airflow Knob
T (min)	Time Delay Knob
SWITCH POSITION	Switch Position
AIRFLOW (CFM)	Airflow, Cubic Feet per Minute
DUCT DIAMETER	Duct Diameter
Max	Maximum
OFF	Off

Note:

Good to know information about the Low Airflow Knob (S):

- When the S knob is set between OFF–30 CFM, the low airflow speed will not operate.
- Can be set between 30 CFM and the applicable switch setting from [Figure 1](#).

Note:

Good to know information about the Time Delay Knob (T (min)):

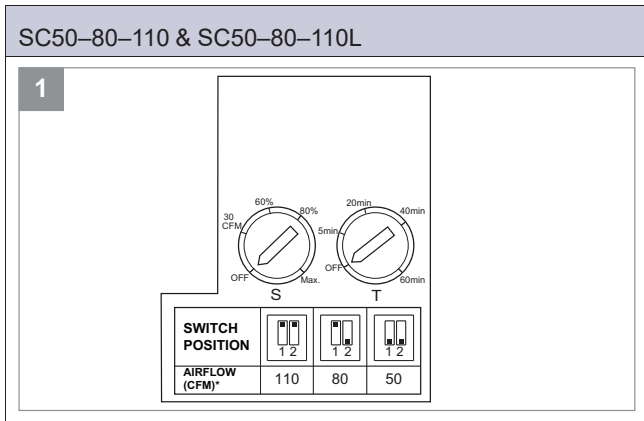
- Can be set between 5–60 minutes
- When the T Knob is set between OFF–5 minutes, the time delay setting will not operate.

Note:

The toggle switch will adjust the upper fan speed from 110, 80, or 50 Cubic Feet per Minute (CFM).

To Set the Speed

- 1 To adjust the preselected high airflow speed, change the control switches according to [Figure 1](#).
- 2 To adjust the preselected low airflow speed, change the Low Airflow Knob as necessary.
- 3 To adjust the preselected time delay sensor, change the Time Delay Knob as necessary.



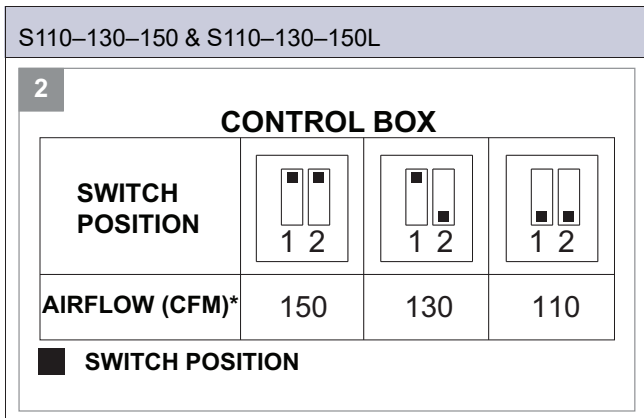
3.2 To Set the Product Speed

Note:
For only the bathfan Select S110-130-150 and the S110-130-150L products.

Legend for Diagram	
English Terminology	Meaning
CONTROL BOX	Control Box
SWITCH POSITION	Switch Position
AIRFLOW (CFM)*	Airflow, Cubic Feet per Minute

Note:
The toggle switch will adjust the upper fan speed from 150, 130, or 110 Cubic Feet per Minute (CFM).

- To adjust the preselected airflow, adjust the control switches according to Figure 2.



* The CFM is the air volume measured with 6 inch duct.

3.3 To Set the Product Speed

Note:
For only the bathfan Select SC50-80-110H.

Note:
This product uses a humidity sensor. It operates at the selected low airflow speed continuously and will automatically increase to the set high speed when the product detects the conditions that follow:

- Humidity above the set position (30-80% relative humidity)
- Fast changes in humidity

When the selected period of delay time ends, the product returns to the selected low airflow speed.

Legend for Diagram	
English Terminology	Meaning
CONTROL BOX	Control Box
S	Low Airflow Knob
H	Humidity Sensor Knob
T	Time Delay Knob
SWITCH POSITION	Switch Position
AIRFLOW (CFM)	Airflow, Cubic Feet per Minute
Max	Maximum
OFF	Off

Note:
Good to know information about the Low Airflow Knob (S):

- When the S knob is set between OFF-30 CFM, the low airflow speed will not operate.
- Can be set between 30 CFM and the applicable switch setting from Figure 3.

Note:
Good to know information about the Time Delay Knob (T (min)):

- Can be set between 5-60 minutes
- When the T Knob is set between OFF-5 minutes, the time delay setting will not operate.

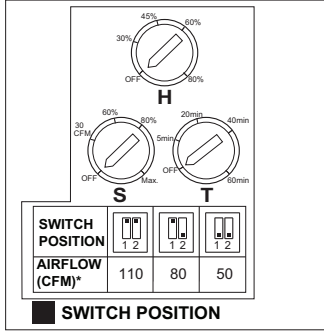
Note:
The toggle switch will adjust the upper fan speed from 110, 80, or 50 Cubic Feet per Minute (CFM).

To Set the Speed

- To adjust the preselected high airflow speed, change the control switches according to .
- To adjust the preselected low airflow speed, change the Low Airflow Knob as necessary.
- To adjust the preselected humidity sensor, change the Humidity Sensor Knob as necessary.
- To adjust the preselected time delay sensor, change the Time Delay Knob as necessary.

SC50-80-110H

3a



- When the H knob is set between OFF-30%, the humidity sensor will not operate

Note:

Good to know information about the Time Delay Knob (T):

- Can be set between 5-60 minutes
- When the T Knob is set between OFF-5 minutes, the time delay setting will not operate.

Note:

The toggle switch will adjust the upper fan speed from 110, 130, or 150 Cubic Feet per Minute (CFM).

3.4 To Set the Product Speed

Note:

For only the bathfan Select SC110-130-150H, SC110-130-150LH, and the SC110-130-150LHO products.

Note:

This product uses a humidity sensor. It operates at the selected low airflow speed continuously and will automatically increase to the set high speed when the product detects the conditions that follow:

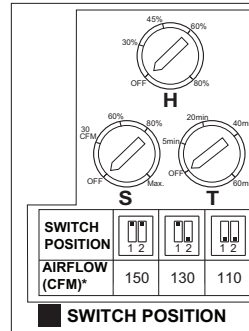
- Humidity above the set position (30-80% relative humidity)
- Fast changes in humidity

When the selected period of delay time ends, the product returns to the selected low airflow speed.

- 1 To adjust the preselected high airflow speed, change the control switches according to Figure 3.
- 2 To adjust the preselected low airflow speed, change the Low Airflow Knob as necessary.
- 3 To adjust the preselected humidity sensor, change the Humidity Sensor Knob as necessary.
- 4 To adjust the preselected time delay sensor, change the Time Delay Knob as necessary.

SC110-130-150H, SC110-130-150LH, & SC110-130-150LHO

3b



* The CFM is the air volume measured with 6 inch duct.

Legend for Diagram	
English Terminology	Meaning
CONTROL BOX	Control Box
S	Low Airflow Knob
H	Humidity Sensor Knob
T	Time Delay Knob
SWITCH POSITION	Switch Position
AIRFLOW (CFM)	Airflow, Cubic Feet per Minute
Max	Maximum
OFF	Off

Note:

Good to know information about the Low Airflow Knob (S):

- When the S knob is set between OFF-30 CFM, the low airflow speed will not operate.
- Can be set between 30 CFM and the applicable switch setting from Figure 3.

Note:

Good to know information about the Humidity Sensor Knob (H):

3.5 To Mount the Product

Note:

Before this product is mounted, and if applicable, Fantech recommends to install a Ceiling Radiation Damper (#98599) to this product. To see how to install a radiation damper to this product, refer to section 3.9 To Mount the Radiation Damper.

Note:

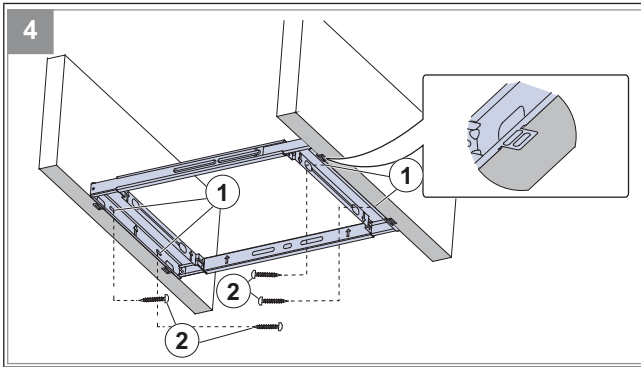
This product is type IC (Inherently Protected).

Note:

To make sure the product can be set correctly anywhere between the framing, an EZ mounting frame has been supplied.

- 1 Before installation, remove the product from the packaging and set the packaging aside.
- 2 Align the EZ Mounting Frame as necessary to mount the product between the framing.

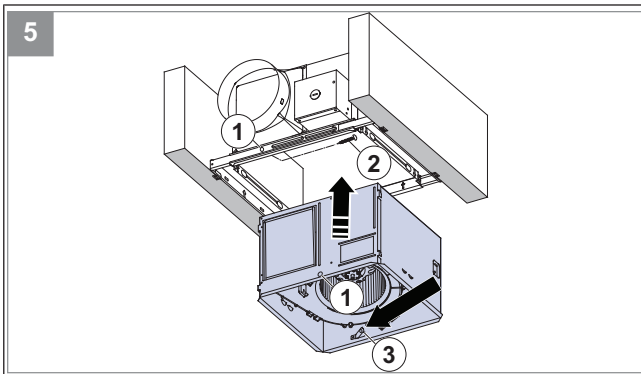
- 3 Using (6) B screws, install the EZ mounting frame onto the framing through the applicable holes.



1. Screw Hole
2. B Screw

To Engage the Product Casing with the Duct Connector Casing

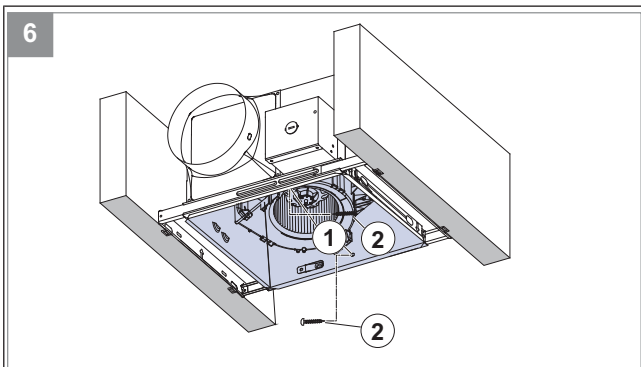
- 1 Using (1) A screw, attach duct connector to the frame.
- 2 To engage the product casing with the duct connector casing, pull the locking tab (3) located on the duct connector casing opposite of the duct collar.
- 3 Push the product casing into duct connector casing.
- 4 Release the locking tab (3) so the product casing stays in place.



1. Screw Hole
2. A Screw
3. Locking Tab

To Finalize the Process

- 1 Using (2) B screws, lock the product casing to the frame.



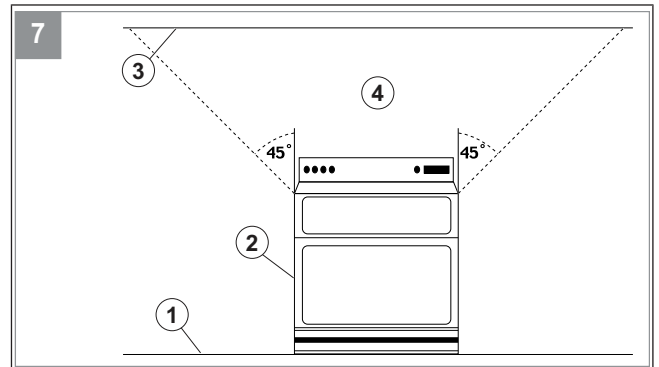
1. Screw Hole
2. B Screw

3.6 To Plan the Duct Run



Warning

Do not install the product above or inside the area within 45 degrees on either side of any kind of cooking equipment. Refer to Figure 7.



1. Floor
2. Cooking Equipment
3. Ceiling
4. Cooking Area

3.7 To Attach the Duct



Caution

To keep pressure losses to a minimum, and promote sufficient airflow, observe the following:

- Where possible, use short and straight duct run lengths.
- Do not install the product with existing duct.
- Do not install smaller than recommended duct on the product.

Note:

For quiet operation, and to maximize performance, Fantech recommends the following:

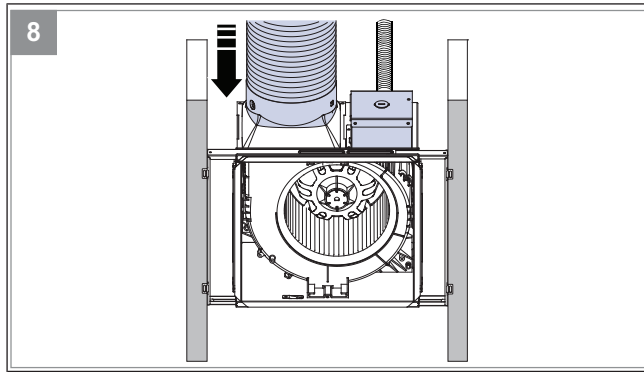
- Use insulated flexible duct for quiet operation
- If rigid duct is used, use 1–3 feet (0.3–0.91 meters) of insulated flexible duct.
- Insulate the duct to minimize energy losses.
- If installing in an unconditioned space, attach insulation to the product to prevent condensation

Note:

3/8 inch (10mm) strain relief is not included.

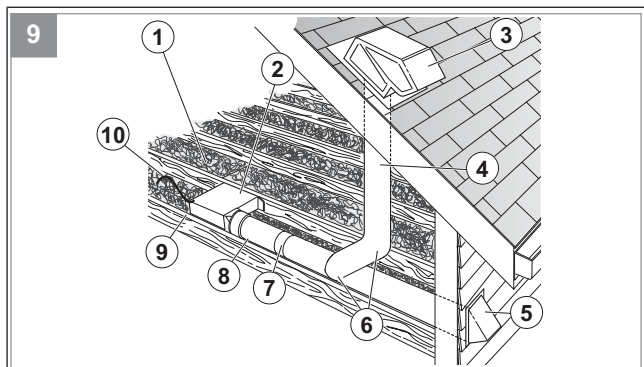
- 1 Remove cover of the junction box and set aside.
- 2 Refer to the [4.4 Wiring Diagrams](#) section.
- 3 Attach a trade sized 3/8 inch (10mm) strain relief to the junction box knockout hole.
- 4 Position the wires of the junction box through the strain relief.
- 5 Once the wires of the junction box have been correctly connected, replace the junction box cover.

- 6 Using duct tape, attach the duct to the duct connector.
- 7 Examine the duct around the duct connector to make sure the seal is air tight.



3.8 To Manage the Duct Run

- 1 Using duct tape, attach additional ducts to the product to make sure air is released to the outdoors.
- 2 Depending on the shortest & straightest direction to the outdoors, place the duct run either through the roof or through the wall.
- 3 If the duct was installed through the roof, attach an applicable roof cap to the end of the duct run.
- 4 If the duct was installed through the wall, attach an applicable wall cap to the end of the duct run.
- 5 Place insulation around the product's casing.
- 6 With sealant, close all gaps between the framing and the product's casing.



- 1. Insulation
- 2. Product Casing
- 3. Roof Cap
- 4. Vertical Duct Run
- 5. Wall Cap
- 6. Round Elbows
- 7. Duct Tape Attached to Duct Joints
- 8. Horizontal Duct Run
- 9. Sealed Gaps
- 10. Power Cable

3.9 To Mount the Radiation Damper

Note:

This Fantech Ceiling Radiation Damper (#98600) is sold separately.

Note:

This radiation damper is UL classified for use in up to 3 hour rated floor/roof ceiling designs.

Note:

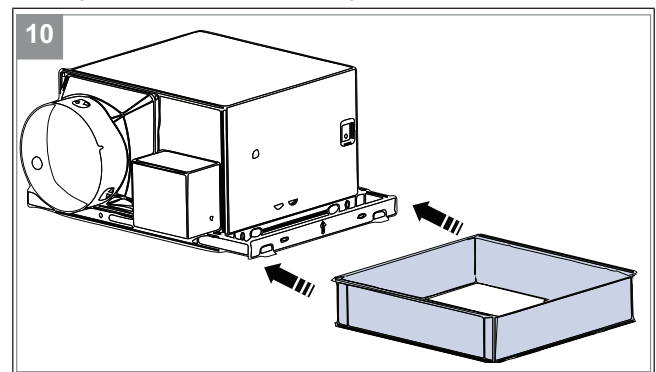
Make sure the arrow on the nameplate of the radiation damper points up.



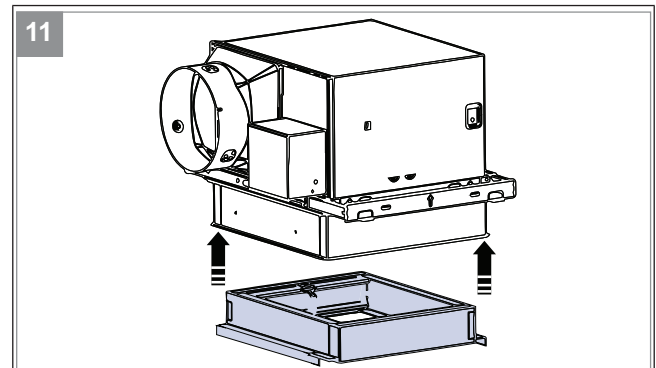
Caution

To avoid damage to exterior finishes and to allow for easier parts replacement, make sure screws are installed from the inside.

- 1 If the product has power, disconnect power at the source.
- 2 Engage the hemmed edges of the radiation damper casing onto the product's casing.

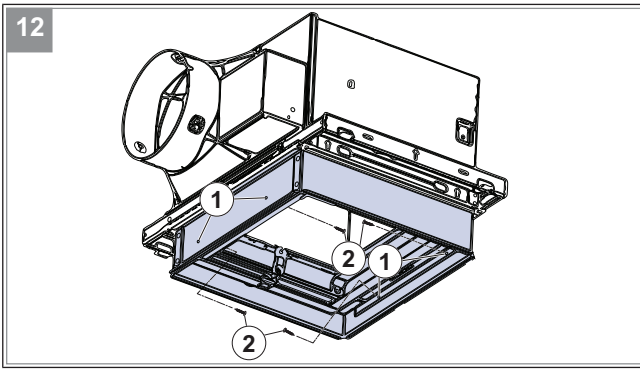


- 3 Align the (4) screw holes of the radiation damper with the (4) screw holes of the radiation damper casing.
- 4 With the arrow on the nameplate in the "up" position, engage the radiation damper with the bottom of the radiation damper casing.



- 5 Using (4) screws provided with radiation damper assembly, attach radiation damper to the radiation damper casing.

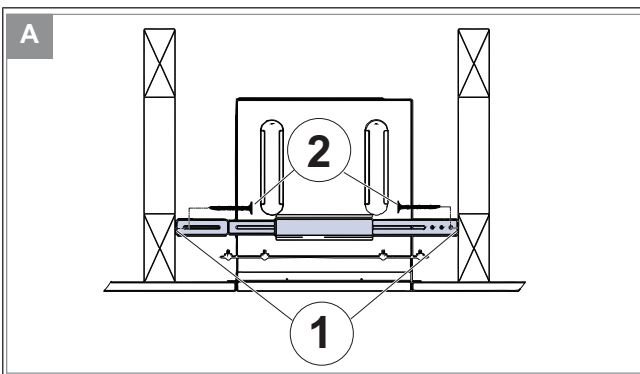
12



1. Screw Hole
2. Provided Screws

Note:

Before this product is mounted, make sure all personnel knows that installing the radiation damper will increase the size of this product. Adjust how this product is installed as specified in the applicable procedure.



1. Screw Hole
2. B Screws

4 Electrical connection

4.1 To do before the electrical connection

- Make sure that the electrical connection agrees with the product specification on the motor name plate.
- Make sure that the environment for electrical connection is clean and dry.
- Make sure that the wiring diagram that is included with the supply of the product agrees with the terminals in the connection box.

4.2 To connect the product to the power supply

- Complete the electrical connection for the motor. Refer to the motor wiring diagram that is included with the product.
- Make sure that the cross section of the protective grounding is equal to or larger than the cross section of the phase conductor.

4.3 Motor Protection

This product has integrated motor thermal overload protection. Reset the motor protection by disconnecting the fan from power supply for 60 seconds.

4.4 Wiring Diagrams



Caution

Do not place the power or light switch where it can be touched from a shower or tub.

Note:

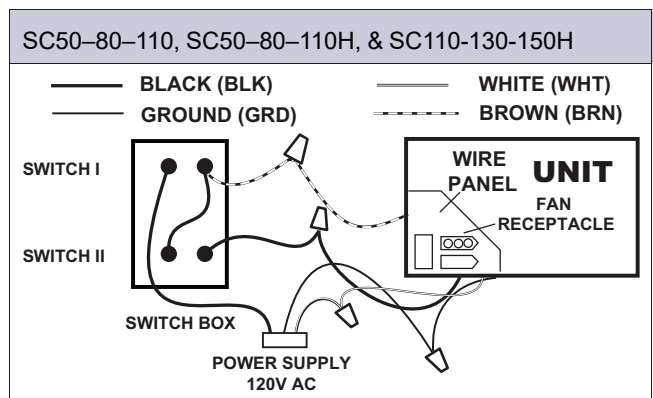
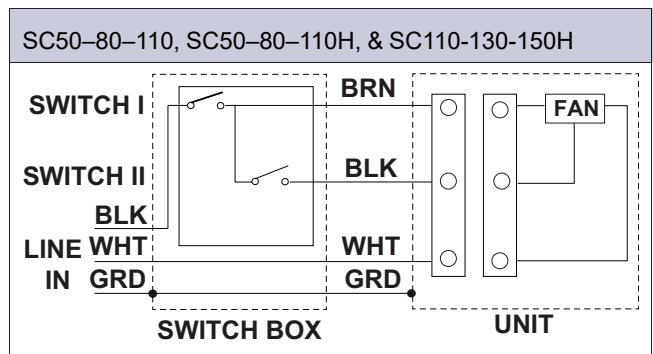
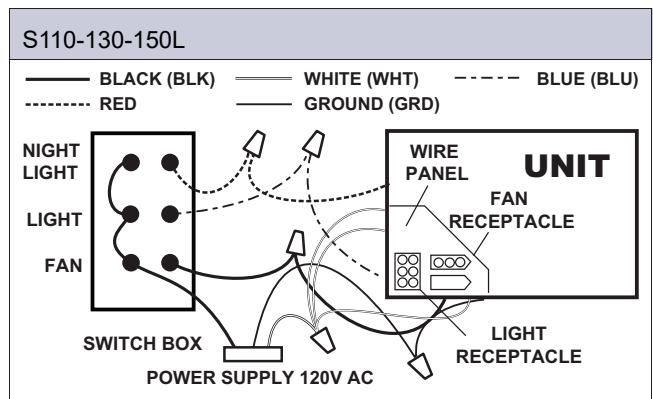
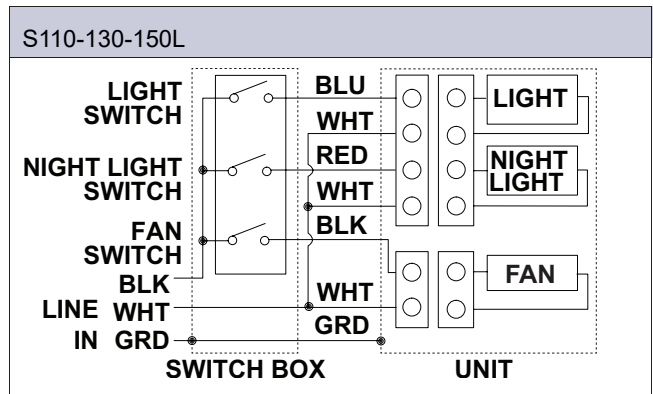
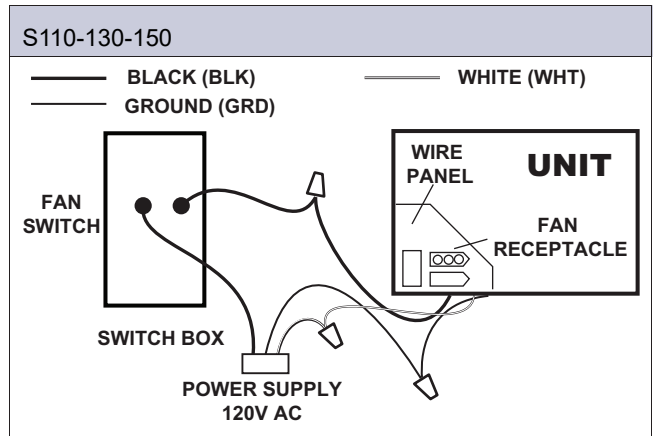
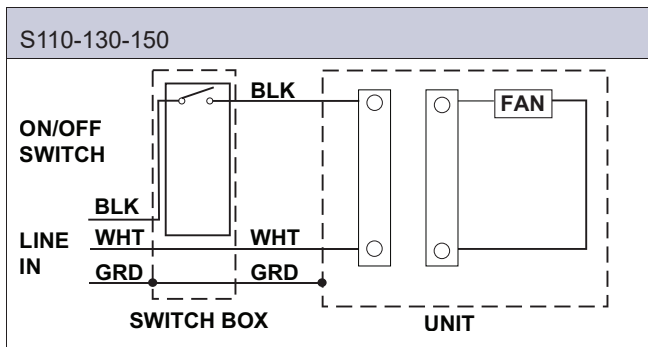
To connect power to this product, use a minimum of 14 American Wire Gauge (AWG) conductor with temperature rating of at least 90° Celsius (190° Fahrenheit).

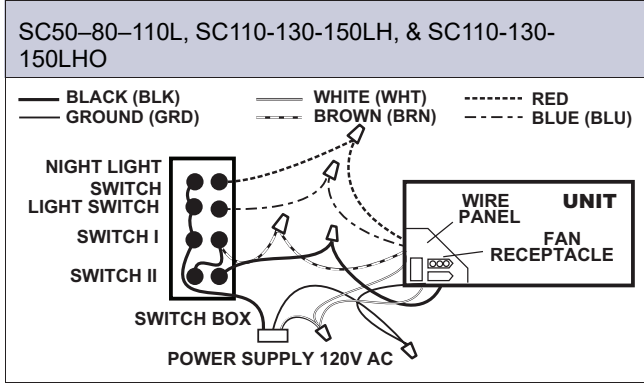
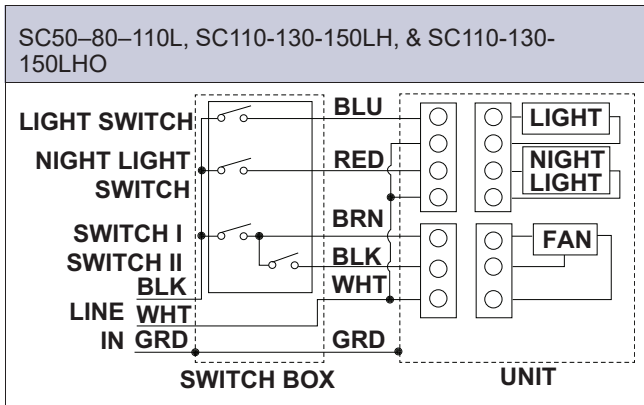
Note:

Refer to the following wiring diagrams to attach the wires of the product to the wires of the house.

Legend for Diagram	
English Terminology	Meaning
ON/OFF SWITCH	On/Off Switch
LINE IN	Line In
LIGHT SWITCH	Light Switch
SWITCH I	Switch 1 — User Adjustable Airflow
SWITCH II	Switch 2 — Certified Airflow Rating
NIGHT LIGHT	Night Light
NIGHT LIGHT SWITCH	Night Light Switch
FAN SWITCH	Fan Switch
SWITCH BOX	Switch Box
POWER SUPPLY 120V AC	120 Voltage Alternating Current Power Supply
UNIT	Unit
FAN	Fan
LIGHT	Light
FAN RECEPTACLE	Fan Receptacle
WIRE PANEL	Wire Panel
LIGHT RECEPTACLE	Light Receptacle
BLACK (BLK) (Line)	Black (Line)
WHITE (WHT) (Neutral)	White (Neutral)
GROUND (GRD)	Ground
BROWN (BRN) (Line)	Brown (Line)
RED (Line)	Red (Line)
BLUE (BLU) (Line)	Blue (Line)

- 1 Take 120 Volt Alternate Current (AC) housing wires to the location of the product.
- 2 Using UL-approved connectors only, attach the wires of the product to the wires of the house.





4.5 To Attach the Ceiling Grille

Note:
 Steps 1–2 are only for the bathfan Select SC110-130-150LHO product. Skip to the following step for all other bathfan Select products.

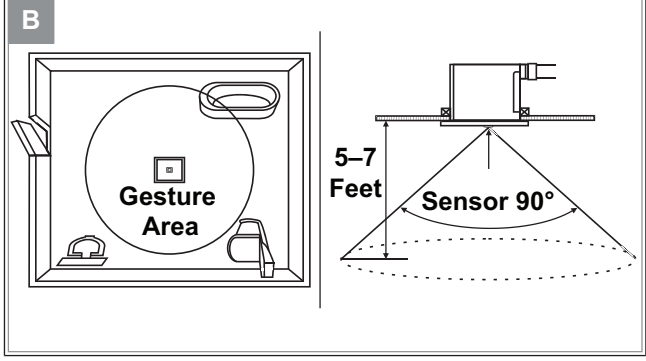
Note:
 This product uses an occupancy sensor. It operates at the selected low airflow speed continuously and will automatically increase to the set high speed when the product detects motion.
 After the set time, the product returns to the selected low speed airflow.
 The product will start sensing motion once the product's wires have been attached.

Legend for Diagram	
English Terminology	Meaning
Gesture Area	Gesture Area
5–7 Feet	5 to 7 feet (1.5 to 2.1 meters)
Sensor 90°	Sensor 90°

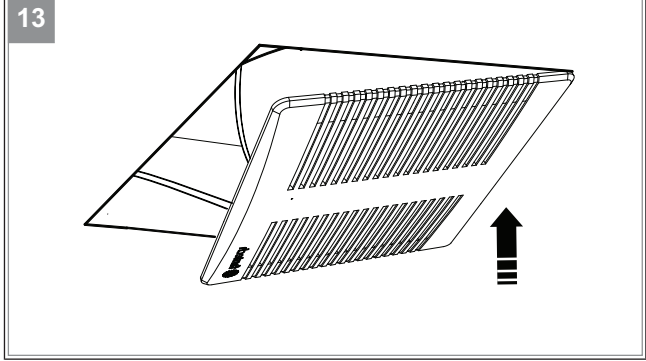
Note:
 The Occupancy Sensor detects motion within 5 to 7 feet (1.5 to 2.1 meters) and within a 90 degree cone radius.

Note:
 Once the occupancy grille has been attached to the product's control module, if the automatic switches are set to operate, this product will operate at the certified airflow rate for twenty minutes.

- 1 Set the switch(es) to the OFF position.
- 2 Attach the plug from the occupancy sensing ceiling grille into the product's control module.



- 3 Make a cut around the casing of the product.
- 4 For products with a light; attach the light plug from the ceiling grille onto the wire panel.
- 5 Align the ceiling fan grille with the casing of the product.
- 6 Attach (2) grille springs into the correct holes of the product.
- 7 Push the ceiling fan grille into the casing of the product correctly.



5 Operation

5.1 To Start the Product

Note:

To operate this product with automatic features (continuous flow, humidity sensing, and time delay features), and to operate this product at the set user-adjusted airflow rate, observe the steps that follow:

- 1 Set Switch I to the ON position and set Switch II to the OFF position.
- 2 After a soft start (5–10 seconds), make sure that the product works as intended.

Note:

To operate the product manually with one switch, Switch I and switch II may be wired to the same switch.

Note:

To operate this product manually with a switch (where ON designates high speed), and to operate this product at the set certified airflow rate, observe the steps that follow:

- 1 Set the ON/OFF / Fan switch (or both Switch I and Switch II) to the ON position.
- 2 After a soft start (5–10 seconds), make sure that the product works as intended.

5.1.1 To Stop the Product

- 1 Set the switch(es) in the OFF position.

5.2 Sequence of Operations

Continuous Flow Feature

Note:

For only the bathfan Select SC50–80–110 and the SC50–80–110L products.

This feature sets the speed of the product's airflow to the low airflow speed and holds the low airflow speed continuously if switch I is set to the ON position and if switch II is set to the OFF position.

Note:

For only the bathfan Select SC50–80–110H, SC110–130–150H, and the SC110–130–150LH products.

This feature sets the speed of the product's airflow to the low airflow speed and holds the low airflow speed continuously if switch I is set to the ON position, if switch II is set to the OFF position, and if relative humidity is below the set level.

Note:

For only the bathfan Select SC110–130–150LHO product.

This feature sets the speed of the product's airflow to the low airflow speed and holds the low airflow speed continuously if switch I is set to the ON position, if switch II is set to the OFF position, if relative humidity is below the set level, and if the occupancy sensor does not detect motion.

Time Delay Feature

Note:

For only the bathfan Select SC50–80–110, SC50–80–110L, SC50–80–110H, SC110–130–150H, SC110–130–150LH, and SC110–130–150LHO products.

This feature keeps the product at the certified airflow rate (high speed) for an extended interval of time (5–60 minutes) after switch II is set to the OFF position. The time delay knob can also be set to the OFF (OFF–5 minutes) position to disable this feature.

Humidity Feature

Note:

For only the bathfan Select SC50–80–110H, SC110–130–150H, SC110–130–150LH, and SC110–130–150LHO products.

This feature activates and holds the certified airflow rate (high speed) when relative humidity reaches the set level (30–80%). The humidity sensor knob can also be set to the OFF (OFF–30%) position to disable this feature.

Note:

When the humidity sensor knob is set between 30–80%, the amount of time that it takes the product to return to the low airflow speed is based upon the set level of the time delay knob:

Condition 1 – If the time delay knob is set in the OFF (OFF–5 minutes) position, the product will return to the low airflow speed in **5 minutes.**

Condition 2 – If the time delay knob is set between 5–60 minutes, the product will return to the low airflow speed in **5–60 minutes.**

Occupancy Feature

Note:

For only the bathfan Select SC110–130–150LHO product.

This feature activates and holds the certified airflow rate (high speed) for 5 minutes after motion is no longer detected. When switch I is ON, the product will automatically start sensing motion.

Note:

When the occupancy sensor no longer detects motion, the amount of time that it takes the product to return to the low airflow speed is based upon of the set level of the time delay knob and the humidity sensor knob:

Condition 1 – If both the time delay knob is set in the OFF (OFF–5 minutes) position and if the humidity sensor knob is set in the OFF (OFF–30%) position, the product will return to the low airflow speed **immediately.**

Condition 2 – If the time delay knob is set in the OFF (OFF–5 minutes) position and if the humidity sensor knob is set between 30–80%, the product will return to the low airflow speed in **5 minutes.**

Condition 3 – If the time delay knob is set between 5–60 minutes and if the humidity sensor knob is set between 30–80%, the product will return to the low airflow speed in **5–60 minutes.**

6 Troubleshooting

Problem	Cause	Solution
The product operates too often when environmental conditions change.	Changing of seasons, temperature, or other conditions.	The Humidity Sensor Knob may need to be adjusted. To adjust the Humidity Sensor Knob, refer to the 6.1 To Adjust the Humidity Sensor section.
The product's blower needs to be replaced.	The blower assembly no longer works.	A new product will need to be purchased. To mount the blower assembly, refer to the 6.2 To Replace the Blower Assembly section.
The product no longer works, and I want to replace the product.	The product no longer works.	To install a product where the old product is, observe the steps that follow: <ol style="list-style-type: none"> 1. Make a cut on the ceiling where the old product is. 2. Remove the product. 3. Working backwards from the 3 Installation section, install the new product.

6.1 To Adjust the Humidity Sensor

Note:

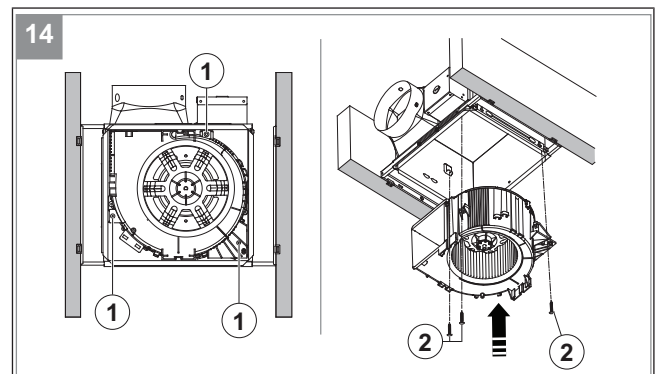
If the product operates too often when environmental conditions change, due to changing of seasons, temperature, or other conditions, the Humidity Sensor Knob may need to be adjusted. To adjust the Humidity Sensor Knob, observe the steps that follow.

- 1 If the product has power, disconnect power at the source.
- 2 If the ceiling grille has been attached, remove the ceiling grille temporarily.
- 3 Adjust the Humidity Sensor Knob as necessary.
- 4 Reconnect the power to the power supply.
- 5 Test the product by starting the shower or another humidity source. Do this until the product starts.
- 6 Repeat the steps above as necessary.
- 7 When satisfied with the function of this product, reattach the ceiling grille.

6.2 To Replace the Blower Assembly

- 1 If the product has power, disconnect power at the source.
- 2 Remove the ceiling grille from the product's casing and set aside.
- 3 If applicable, remove the (4) screws that attach the radiation damper to the damper casing.
- 4 If applicable, remove the radiation damper and set aside.
- 5 Detach the blower assembly cable from the product.
- 6 Remove the (3) screws that attach the blower assembly to the product casing.
- 7 Remove and correctly dispose of the old blower assembly.

- 8 Align the opening of the new blower assembly with the opening of the product casing.
- 9 Using the (3) supplied blower assembly screws, mount the new blower assembly inside of the product casing.
- 10 Attach the blower assembly cable to the product.
- 11 If applicable, using the (4) removed screws, reattach the radiation damper.
- 12 Reattach the ceiling grille to the damper casing.



1. Screw Hole
2. Supplied Screws

7 Maintenance



Warning

Set the installed switch(es) in the OFF position before you do the maintenance unless the instructions tell you differently. Make sure that the switch(es) is not accidentally set in the ON position.

7.1 To Maintain the Product



Caution

If the product suddenly starts to make loud noises, or starts to vibrate in an unusual way, stop the product immediately. Contact a Fantech representative as the product will need to be replaced.

Note:

For quiet operation, long life, and to maximize performance, observe the following:

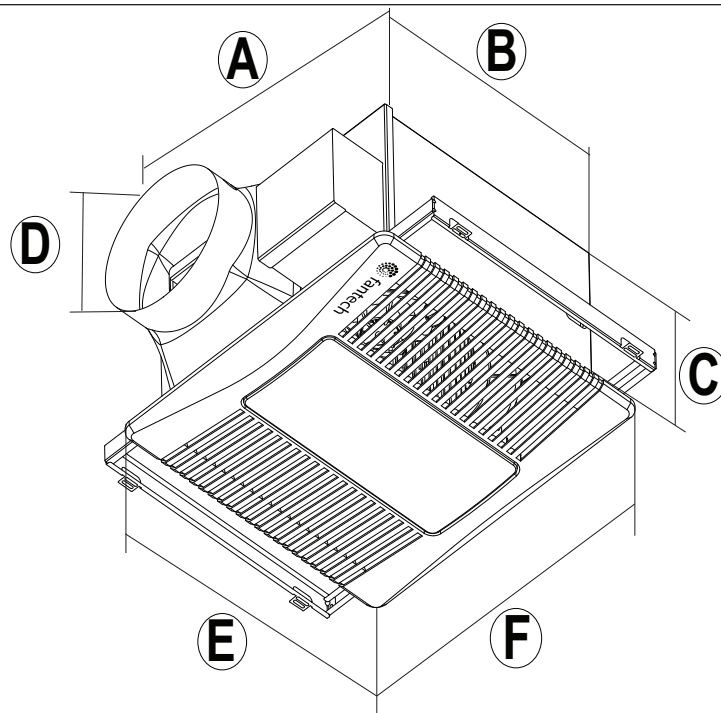
- Remove grille before carefully cleaning interior of product with a vacuum with a soft brush attachment or a soft cloth.
- No other maintenance is required.

8 Technical data

8.1 Technical Data Overview

Voltage, Motor Power, Frequency	Refer to the motor nameplate on the blower assembly.
Motor data	Refer to the motor nameplate or the technical documentation from the motor manufacturer.

8.2 Product Dimensions



Note:

Dimensions are given in inches (mm).

	A	B	C	D	E	F
bathfan Select SC50-80-110, #484313						
bathfan Select SC50-80-110L, #484314						
bathfan Select SC50-80-110H, #494140						
bathfan Select S110-130-150, #484315						
bathfan Select S110-130-150L, #484316	11-3/8 (289)	10-1/2 (267)	7-5/8 (194)	6 (152)	13 (330)	13-3/4 (349)
bathfan Select SC110-130- 150H, #484317						
bathfan Select SC110-130- 150LH, #484318						
bathfan Select SC110-130- 150LHO, #484319						



fantech[®]
a systemair company

USA

(800) 747 1762

support@fantech.net

Canada

(800) 565 3548

support@fantech.net

Latin America

+52 55 1328 7328

support@fantech.net

© Copyright Fantech

All rights reserved

Fantech reserves the rights to alter their products without notice. This also applies to products already ordered, as long as it does not affect the previously agreed specifications.