

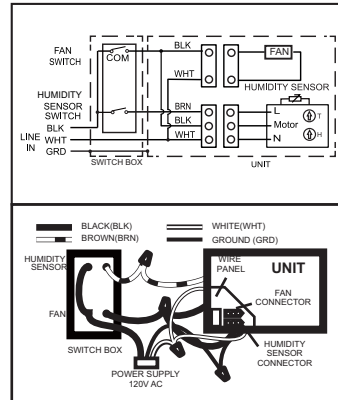
### READ ALL SAFETY WARNINGS BEFORE PROCEEDING.

#### WIRING: Power must be disconnected during installation.

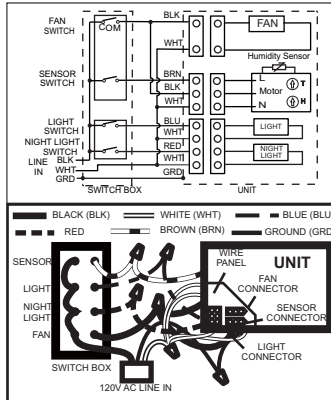
1. Run electrical as directly as possible from the wall switch to the unit.
2. Using approved connectors, connect cables wires according to the model and diagram below to the junction box.
3. Do not allow cable to touch side of unit after installation.

#### WIRING DIAGRAMS:

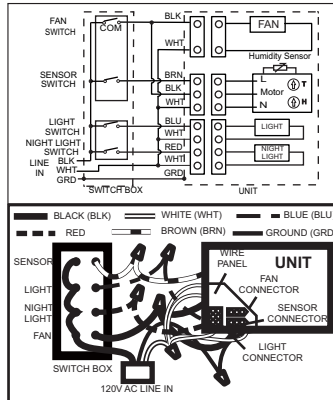
OD80H OD110H



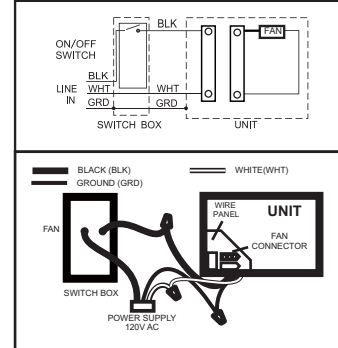
OD80LH OD110LH



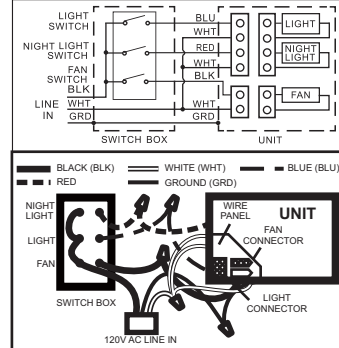
OD80LLH OD110LLH



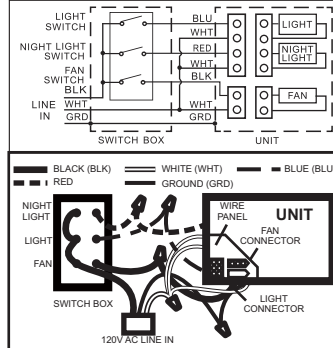
ODU814H



ODU814LH



ODU814LLH



#### INSTALL GRILLE

Model OD80H OD110H ODU814H

Install ceiling material to complete the ceiling construction. Then cut the opening around the fan housing. Insert the sensor connector into the base connector in the unit and then install the

Model OD80LH OD80LLH OD110LH OD110LLH ODU814LH ODU814LLH

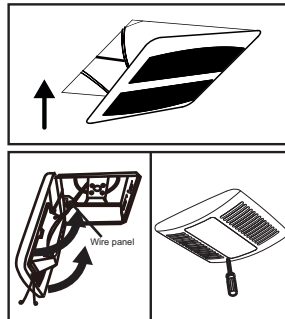
Insert the light connector from the grille assembly into the base connector in the unit and then install the grille. To attach the grille assembly to the fan housing, pinch the grille springs on the sides of the grille assembly and position the grille into the housing with the grille springs in the appropriate slots. Push the grille assembly towards the ceiling to secure.

#### Removing Lens:

Carefully pryout the light lens by inserting a small, flathead screwdriver between the grille and lens.

#### Installing Light Bulbs:

Install the 23W, GU24 Fluorescent lamp or 10W LED lamp and 4W Incandescent Lamp for Night Light.



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#### SAFETY INSTRUCTIONS

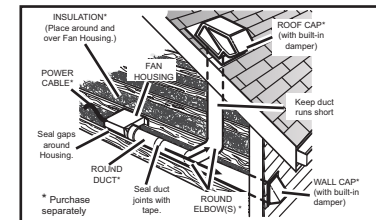
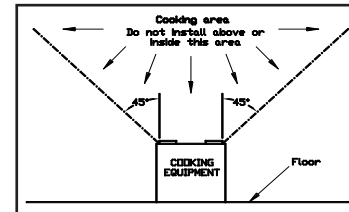
#### WARNING:

**“WARNING - To Reduce The Risk Of Electric Shock, Do Not Use This Fan With Any Solid-State Speed Control Device.”**  
**WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSON, OBSERVE THE FOLLOWING:**

- a) Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- b) 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.

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

- a) Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- b) When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- c) Ducted fans must always be vented to the outdoors.
- d) 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.



- a) "Do not install fan above or inside a 45-degree angle projected outwards from the cooking equipment element closest to the fan. See instruction sheet for clarification;" or
- b) "Not for use in cooking area - see installation instructions;"

Recommended to put insulation around and the fan housing to minimize the building heat loss. Seal all the 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 flow.

**" Do Not Mount In A Ceiling Thermally Insulated To A Value Greater Than R40"**

**"CAUTION - For General Ventilating Use Only. Do Not Use To Exhaust Hazardous Or Explosive Materials And Vapors."**

**WARRANTY OWNER:** Orbit Industries, Inc., warrants to the original consumer purchaser that it's products will be free from defects in materials or workmanship for a period of one year from the date of original consumer purchase. **THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

During this one year period, Orbit, will at its option, repair or replace, without charge, any products or part which is found to be defective under normal use and service. **THIS WARRANTY DOES NOT EXTEND TO FLUORESCENT LAMP STARTERS OR TUBES, FILTERS, DUCT, ROOF CAPS, and OTHER ACCESSORIES FOR DUCTING.**

This warranty does not cover (a) normal maintenance and service or (b) any products or parts which have been subject to misuse, negligence, accident, improper maintenance of repair (other than by Orbit), faulty installation or installation contrary to recommended installation

Date of installation: \_\_\_\_\_ Installer: \_\_\_\_\_

Model number \_\_\_\_\_ Product Description: \_\_\_\_\_

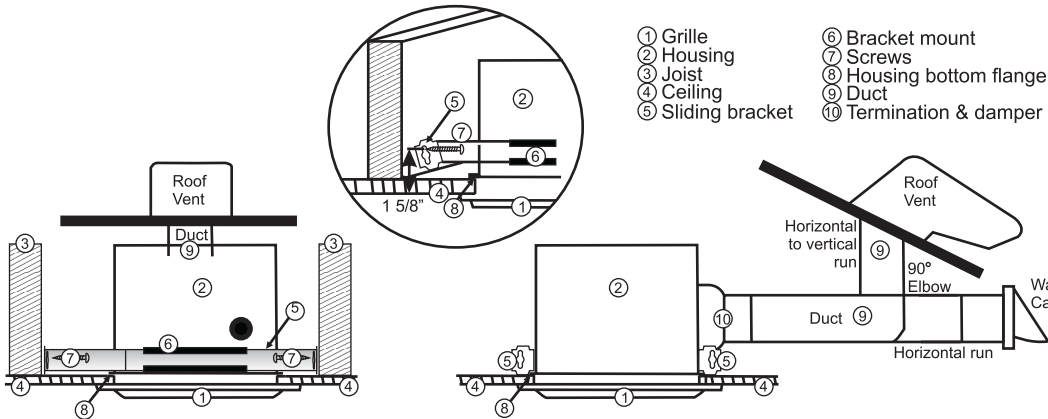
Orbit Industries, Inc. 2100 S. Figueroa St. Los Angeles, CA 90007 Tel: (213) 745-8884 Fax: (213) 745-2015 1-800-90-ORBIT



READ ALL SAFETY WARNINGS BEFORE PROCEEDING.

4" & 6" Termination (duct)  
Rough Opening:  
11-1/4" L X 10-1/2" W  
Housing Dimension:  
11-1/4" L X 10-1/2" W X 7-5/8" H

Carefully position fan  
for shortest duct run and  
fewest elbows to achieve  
maximum performance



New Construction

1. Remove grille from housing before installation.
2. Insert pair of sliding brackets in each bracket mount.
3. Locate housing between ceiling joists and truss so bottom flange will fit flush to the ceiling joist.
4. Loosely screw to joist through the mounting bracket KEYHOLE slots (screws not provided).
5. Optional side mount to ceiling joist and use one side of the bracket for more stable support.

Existing Construction

1. For new fan installation position the housing in the attic next to the ceiling joist or truss.
2. Trace housing bottom edge on ceiling material for cutout.
3. Confirm the opening, then cut hole 11-1/4" X 10-1/2" of the housing inside edge.
4. Place housing inside opening (attic) of the ceiling.
5. To attach follow steps 3, 4, 5 for New Construction.

DUCTING Always vent to the outdoors.

1. NEVER USE SCREWS to connect duct to termination - USE TAPE ONLY making sure to not obstruct damper.
2. Termination duct pipe must exhaust outside the home.
3. Rigid sheet metal duct and the shortest path to the outside is recommended.

GRILLE

1. Grille can be installed after ceiling has been completed.
2. Pinch springs together then insert them carefully through the interior slots in the housing.

OPERATION

HUMIDITY SENSOR OPERATION

The humidity sensing fan uses a sophisticated humidity sensor that responds to: (a) rapid to moderate (user adjustable) increases in humidity or (b) humidity above a user adjustable set point (50%-100% relative humidity). The humidity sensor may occasionally turn the fan ON when environmental conditions change. If the fan continuously responds to changing environmental conditions, adjustment "H" (humidity) may be required. The fan is factory set for about 75% (ambient temperature of 77 °F).

READ ALL SAFETY WARNINGS BEFORE PROCEEDING.

SENSITIVITY ADJUSTMENT

The "H" has been factory set for most shower applications. However, if the fan is in a tub area or is being used for dampness H "+" may need to adjust to maximum setting. If the control is responding too often to changing environmental conditions, adjust H "-" to lower the setting.

To adjust the "H":

1. Disconnect power at service entrance.
2. Through the grille, locate the slot marked "H".
3. Carefully rotate the "H" adjustment toward "+" or "-".
4. Turn on power and check operation by turning on the shower or other humidity source until the fan turns ON.
5. Repeat above steps if necessary.

Humidity sensor has a deviation values when the temperature changes.

TIMER ADJUSTMENT (For model OD80H OD110H OD80LH OD110LH OD80LLH and OD110LLH )

The humidity sensing fan has a timer "T" that can be adjusted from 5 to 60 minutes (factory setting is 20 minutes). This "T" controls the length of time that the fan remains ON after the sensor has stopped sensing a rise in humidity and the humidity level is below the user adjusted set point.

To adjust Timer "T":

1. Disconnect power at service entrance;
2. Through the grille, locate the slot marked "T";
3. Carefully rotate the "T" and adjust to desired setting (from 5 to 60 minutes).
4. Check by turning ON the Humidity switch until the fan turn ON.
5. Turn the Humidity Switch OFF and time the unit.

Model ODU814H ODU814LH ODU814LLH

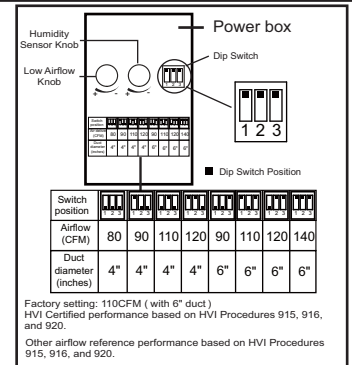
The control box, located inside the fan housing, has three separate adjustments:

- (1) The Low Airflow Knob adjusts the airflow from 30CFM up to the air flow rate of the high fan speed determined by the dip switch setting.
- (2) The Humidity Sensor Knob set user adjustable setpoint.
- (3) The Dip Switch will adjust the fan speed setting from 80 to 120 CFM using a 4" duct or 90 to 140 CFM using a 6" duct.

Note: Both 4" & 6" duct adaptors are included.

Fan run continuously at a low speed (adjustable by low airflow knob) and automatically boost up to high speed when humidity above a user adjustable setpoint (50%-100% relative humidity).

After delay timer (20 minutes) returns fan to the default low speed.



SERVICE PARTS

PART	PART NAME	Qty.
1a	Grille Assembly (includes part 2)	1
1b	Grille Assembly (includes part 2)	1
2	Grille Spring	2
3	Power box	1
4	Motor Plate	1
5	Motor	1
6	Blower Wheel	1
7	Wire Panel / Harness Assembly	1
8	Wiring plate	1
9	Housing	1
10	Bar Hanger Kit	4
11	Damper / Duct Connector	1
12	Lens	1
a	Nut, Hex Lock	4
b	Washer	4
c	Screw	1
d	Isolator	4
e	Screw	1

\* Blower Assembly includes part 6, 5, d, 4, c, b, a.

Replacement installation:

Remove the screw (part c), then take out the motor plate (part 4) from the housing (part 9) by pushing down the rib in the plate while pulling out on the side of the housing. Replace the broken parts.

WARNING: Power must be disconnected before servicing.

