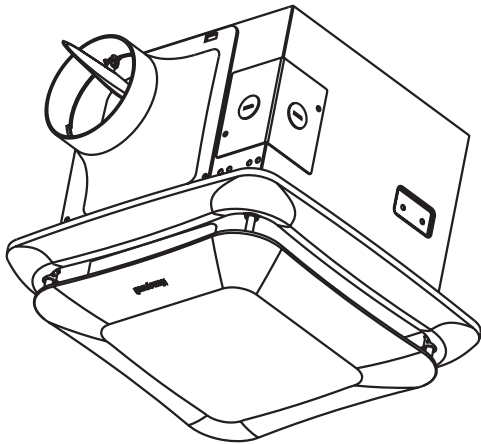


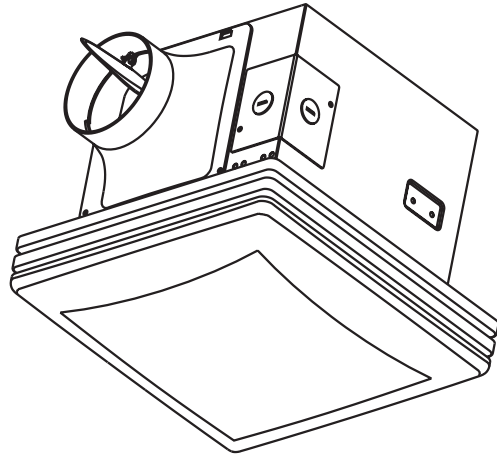
INSTALLATION INSTRUCTIONS

Quiet Ventilation Fan/ Light/Nightlight



Models QV50L/QV80L/QV110L/QV150L

Quiet Decorative Ventilation Fan/Light/Nightlight



Models QDV70L/QDV80L/QDV90L/
QDV110L/QDV130L/QDV150L

READ AND SAVE THESE INSTRUCTIONS

TABLE OF CONTENTS

GENERAL SAFETY INFORMATION.....	2
DESCRIPTION.....	3
COMPONENT PARTS.....	3
DIMENSIONS.....	4
SPECIFICATIONS.....	4
INSTALLATION.....	5
CLEANING & MAINTENANCE.....	7
TROUBLE SHOOTING GUIDE.....	7
SERVICE PARTS.....	8
WARRANTY.....	9

GENERAL SAFETY INFORMATION

1. Do not install this ventilating fan where air temperature may exceed 104°F (40°C).
2. Make sure that the electric service supply voltage is 120V, 60Hz.
3. Follow all local electrical and safety codes, as well as the National Electrical Code (NEC) and the Occupation Safety and Health Act (OSHA).
4. Always disconnect the power source before working on or near the fan, motor or junction box or light fixture.
5. Protect the power cord from sharp edges, oil, grease, hot surfaces, chemicals or other objects.
6. Do not kink the power cord.
7. This unit is approved for use over a bathtub or shower when installed in a GFCI protected branch circuit.
8. This unit must be grounded.
9. This unit is U.L. Listed. Type I.C. Inherently protected.
10. These models are UL listed for tub and shower enclosures.
11. Provide suction parts with proper ventilation.
12. Do not install the unit where ducts are configured as shown in Fig.A.

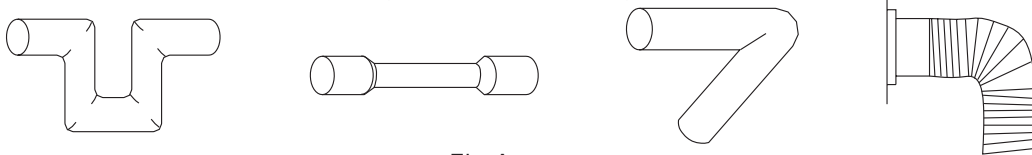


Fig.A

⚠️ ⚠️ WARNING:

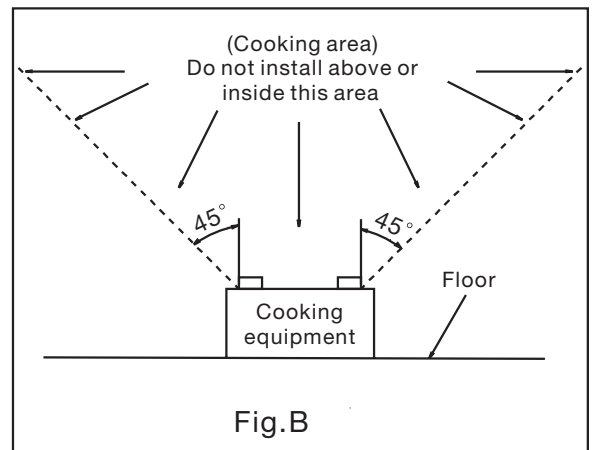
TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

1. Use this unit only in the manner intended by Lonon USA, LLC. If you have questions, please contact Lonon USA, LLC at the address or telephone number listed in the warranty.
2. Before servicing or cleaning unit, switch the 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 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.
5. When cutting or drilling into wall or ceiling, make sure not to damage electrical wiring and other hidden utilities.
6. Ducted fans must always be vented to the outdoors.
7. NEVER place a switch where it can be reached from a tub or shower.
8. Please note that solid state controls may cause harmonic distortion that can cause motor humming noise.
9. To reduce the risk of fire or electric shock, do not use this fan with any solid-state speed control device.
10. Not to be in a ceiling thermally insulated to a value greater than R40.
11. Fluorescent models only: Do not use a dimmer switch to control the light of this unit.
12. Motor and grille assembly must be installed with housing assembly that are marked (on their cartons) to indicate the suitability with this model. Other housing assembly cannot be substituted.
13. To reduce the risk of fire use only these 18 watt fluorescent lamps and 4 watt maximum type C incandescent lamp nightlight.

GENERAL SAFETY INFORMATION (Continued)

⚠ CAUTION:

1. For general ventilating use only. **Do not use to exhaust hazardous or explosive materials and vapors.**
2. This product is designed for ceiling installation only. This product is designed for installation in ceilings up to a 12/12 pitch. Ductwork must point up. **DO NOT MOUNT THIS PRODUCT ON A WALL.**
3. The light fixture assembly must be mounted to the fan housing assembly included with this product. Do not mount the light fixture assembly to a wiring outlet box.
4. To avoid motor bearing damage and noisy and / or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
5. Please read specification label on product for further information and requirements.
6. Not for use in cooking area (Fig. B).





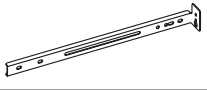
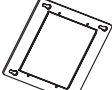
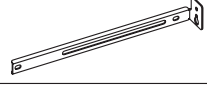
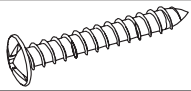
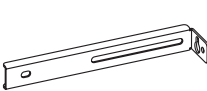
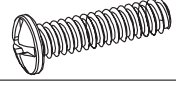
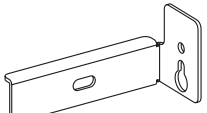
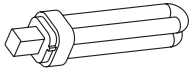
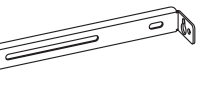

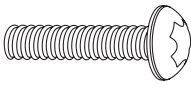
DESCRIPTION

Thank you for selecting this high quantity Honeywell ventilation fan. Honeywell ventilation fans were designed with your comfort in mind. With many different features, Honeywell fans fit your needs whether your bathroom is big or small, needs a light, no light or even a nightlight, Honeywell fans have the features you need.

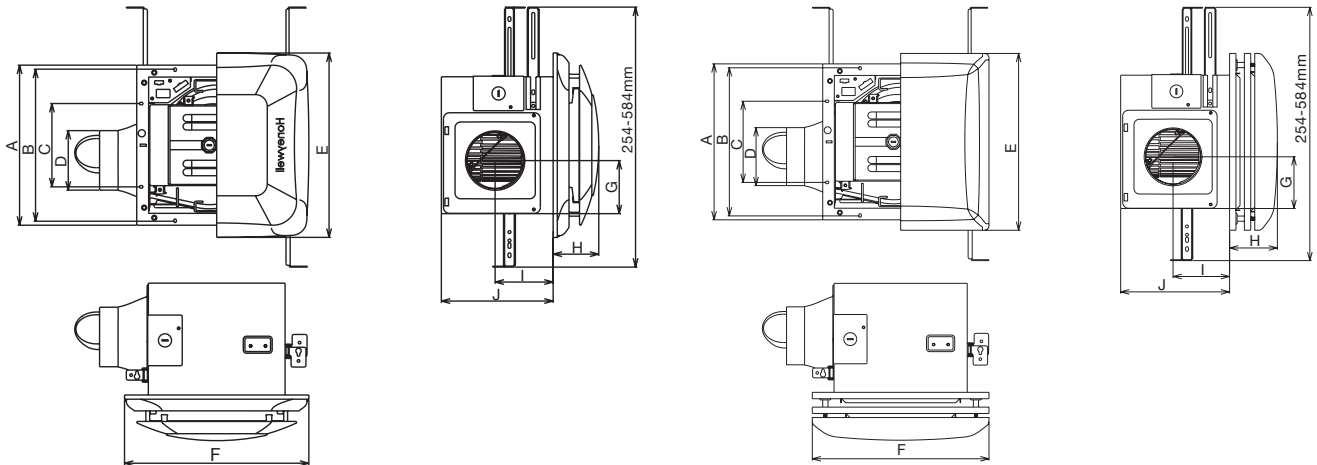
Honeywell ceiling mounted ventilation fans use a high-capacity sirocco fan driven by a capacitor motor. The sirocco fan reduces the noise level.

- Honeywell ventilation fans incorporate a thermal cut off for safety.
- The grille unit can be quickly detached from the main unit for cleaning.
- A damper for preventing air backdraft is incorporated into every fan.
- The motor is designed to have an extended service life with reduced energy consumption.
- The light unit is an energy efficient lighting device which uses two 18W compact fluorescent lamps.

COMPONENT PARTS

Part name	Picture	Quantity	Part name	Picture	Quantity
Grille		1	Glass sub-1 (glass grille)		1
Suspension bracket A (12.6inches/320mm)		1	Grille sub-2		1
Suspension bracket B (9.5inches/240mm)		1	Screw A ST4X30		8
Suspension bracket C (6.3inches/160mm) QV110L/150L not supplied		1	Screw B M4X10		2
Suspension bracket D (2.95inches/75mm) QV110L/150L not supplied		1	18 W fluorescent lamp		2
Suspension bracket E (5.3inches/135mm) QV50L/80L not supplied		1	4 W Night lamp		1
			Screw E M5X20		4

DIMENSIONS



Model No.	A	B	C	D	E	F	G	H	I	J
QV50L QV80L QV90L	10 9/16"	10"	5 1/2"	4"	12 3/16"	12 3/16"	3 1/2 1/2"	3 1/8"	4 1/8"	7 7/8"
QV110L QV130L QV150L	12 5/16"	11 7/16"	6 3/8"	6"	13 3/4 3/4"	13 3/4 3/4"	4 5/16"	3 1/8"	4 1/8"	7 7/8 1/2"
QDV70L QDV80L QDV90L	10 9/16"	10"	5 1/2"	4"	12 3/16"	12 3/16"	3 1/2 1/2"	3 1/8"	4 1/8"	7 7/8"
QDV110L QDV130L QDV150L	12 5/16"	11 7/16"	6 3/8"	6"	13 3/4 3/4"	13 3/4 3/4"	4 5/16"	3 1/8"	4 1/8"	7 7/8 1/2"

SPECIFICATIONS

Model No.	Power Supply	Power consumption*(W)			Air Movement 0.1" WG (CFM)	Noise (sone)	Duct Diameter (inch)	Weight (lb.)
		Fan Unit	Light Unit					
			Light	Night Light				
QV50L	120V/60Hz	17.0	36.0	4.0	50	<0.3	4	9.9
QV80L	120V/60Hz	21.0	36.0	4.0	80	0.3	4	9.9
QV90L	120V/60Hz	24.0	36.0	4.0	90	0.5	4	9.9
QV110L	120V/60Hz	33.0	36.0	4.0	110	0.9	6	12.5
QV130L	120V/60Hz	36.0	36.0	4.0	130	0.8	6	12.5
QV150L	120V/60Hz	39.0	36.0	4.0	150	0.9	6	12.5
QDV70L	120V/60Hz	21.0	36.0	4.0	70	<0.3	4	15.32
QDV80L	120V/60Hz	23.0	36.0	4.0	80	0.5	4	15.32
QDV90L	120V/60Hz	24.0	36.0	4.0	90	0.5	4	15.32
QDV110L	120V/60Hz	32.0	36.0	4.0	110	0.3	6	19.29
QDV130L	120V/60Hz	35.0	36.0	4.0	130	0.6	6	19.29
QDV150L	120V/60Hz	41.0	36.0	4.0	150	1.0	6	19.29

*At 0.0" Static pressure (Pa).
Specifications are based on HVI standard.

INSTALLATION (The housing is in the middle of joists)

S1. Select the suspension bracket and insert them into the housing according to the table-1 as below.

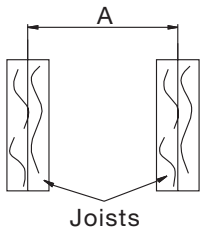


table-1

The joists center distance A	Insert the suspension bracket method	Remark
16 inches	Refer to Fig.1 insert	This method is not fit the products QV110L/130L/150L QDV110L/130L/150L
19.2 inches or 24 inches	Refer to Fig.2 insert	

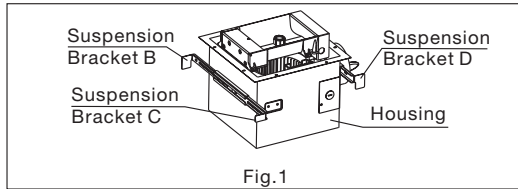


Fig.1

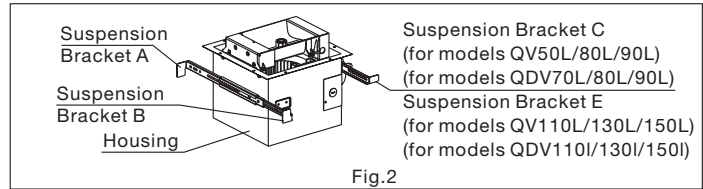


Fig.2

S2. Choose the location for your fan in the ceiling. For best possible performance, use the shortest possible duct run and minimum number of elbows. Mark the keyhole slot on both suspension brackets and keep the distance B for the thickness of the ceiling board (Fig.3).

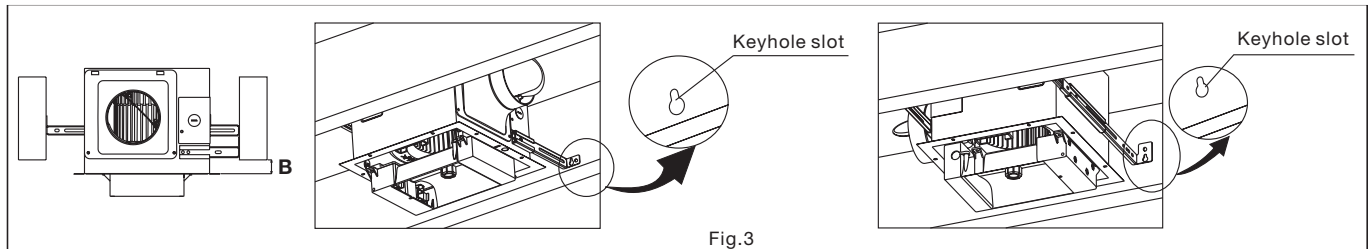


Fig.3

S3. Set housing aside and drive the screw A (ST4×30) partially into joists at the top of both keyhole marks (Fig.4). Hang housing from the screw A and drive the screw A tight. To ensure a noise-free mount, drive other screw A through the round holes of suspension brackets. Secure the suspension brackets to the housing by screw B (M4×10) (Fig.5).

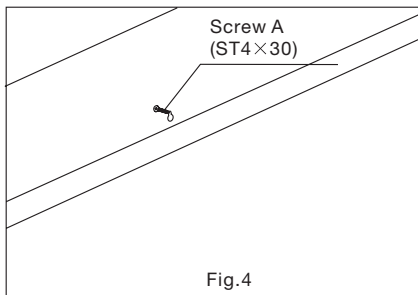


Fig.4

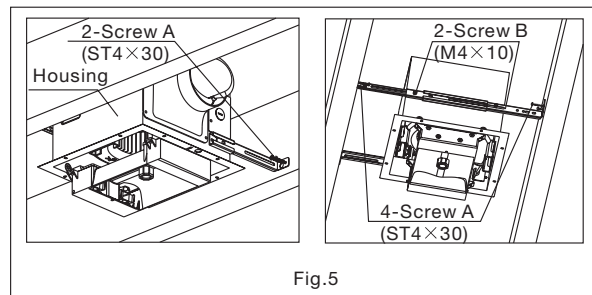


Fig.5

S4. Remove the wiring cover and the knockout hole, make the electrical cable through the knockout hole, and connect the house power wires to wires of the product according to the wiring diagram. Then secure the circular duct (4 inches duct for QV50L/80L/90L、QDV70L/80L/90L and 6 inches duct for QV110L//130L/150L、QDV110L/130L/150L) with duct tape (Fig.6).

Wiring Diagram

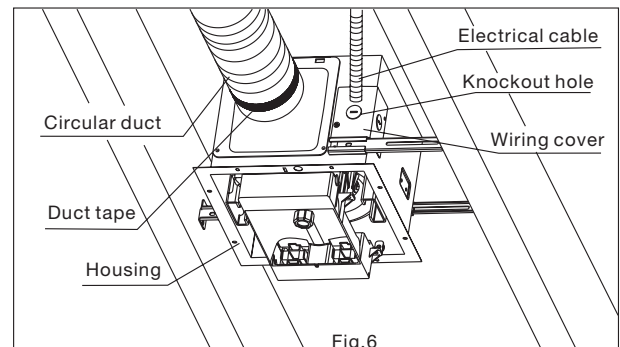
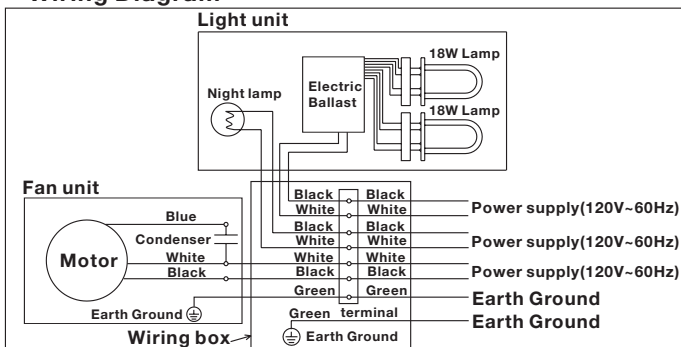
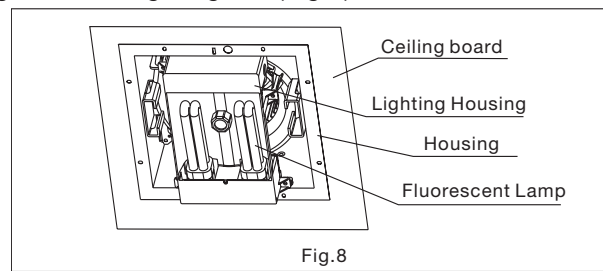
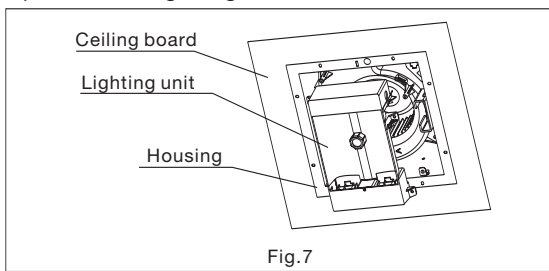


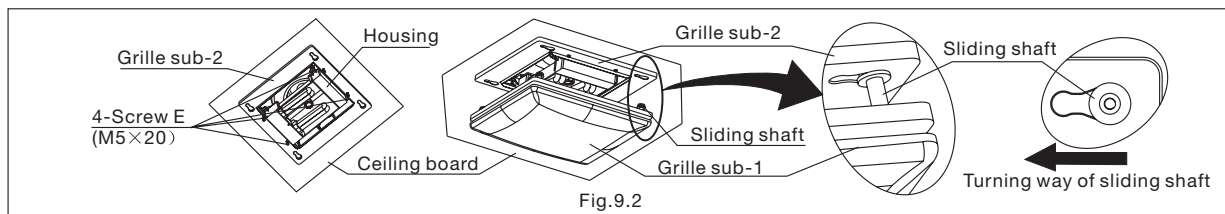
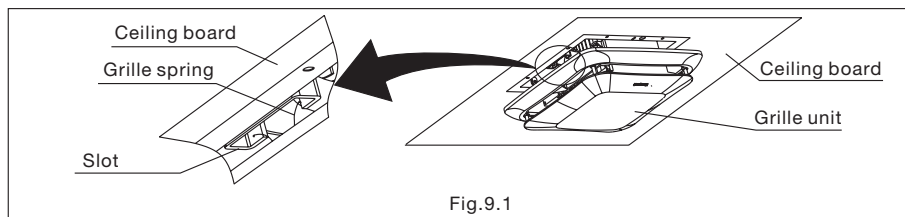
Fig.6

INSTALLATION (The housing is in the middle of joists)(Continued)

S5. Finish the ceiling work, ceiling hole should be kept for the product (Fig.7). Then insert the 18 watt fluorescent lamps into the lighting unit and screw the 4 watt nightlight into the lighting unit (Fig.8).



S6. For models QV50L/80L/90L/110L/130L/150L, insert the grille springs into the slots of the casing and mount the grille unit. Finish the installation work (Fig.9.1).
For models QDV70L/80L/90L/110L/130L/150L, secure the grille sub-2 to the housing by screw E (M5×20). Insert the sliding shaft to the grille sub-2, then turn the grille sub-1 along the arrow mark and finish the installation work (Fig.9.2).

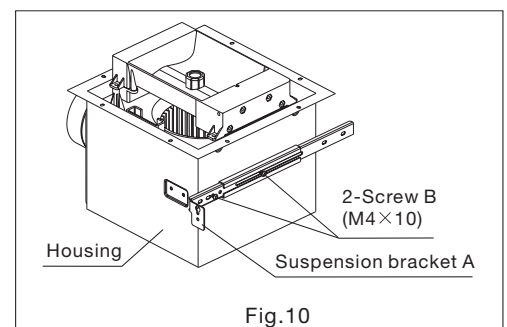


INSTALLATION (I-joists mounting)

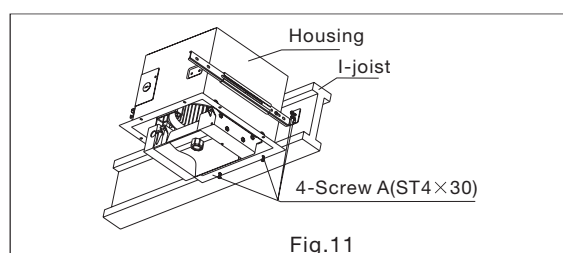
S1. Insert the suspension bracket A into the housing and secure it to housing by screw B (M4×10) according to the distance C in table-2 (Fig.10).

Table-2

4 kinds of I-joist inches(mm)		The suspension bracket A can accommodate different kinds of I-joist.
C1	9/16 (14.3)	
C2	11/16 (17.5)	
C3	31/32 (24.6)	
C4	1 17//32 (38.9)	



S2. Choose the location for your fan in the ceiling. For best possible performance, use the shortest possible duct run and minimum number of elbows. Lock the flange of the product and the suspension bracket A tightly to the I-joist by screw A (ST4×30) (Fig.11).



S3. Please follow S4 to S6 of installation, (page 5, page 6), to finish the installation work.

CLEANING & MAINTENANCE

WARNING

1. Disconnect power source before working on unit.
2. The lamp's glass is fragile. Please handle with care. To remove lamp, grasp at base and move back and force to loosen.
3. Do not pull hard on the lamp or you may break the glass.
4. 4W night lamp has threaded base. Remove by turning counterclockwise.

CAUTION

1. Never use petrol, benzene, thinner or any other such chemicals for cleaning the ventilating fan.
2. Do not allow water to enter motor.
3. Metal and electrical parts should never be immersed in water.
4. Do not immerse resin parts in water over 140°F (60°C).
5. Allow bulb and lamps to cool before replacing.

CLEANING

Squeeze grill springs and pull grille down carefully. Use non-abrasive kitchen detergent wash, and wipe grille dry with new cloth.

Remove bulbs, if necessary. Remove dust and dirt on fan body using vacuum cleaner. Using a cloth dampened with mild dish soap, remove any dirt from fan body. Wipe dry with new cloth.

Replace bulbs and grille.

MAINTENANCE

The motor is permanently lubricated and never needs oiling. If the motor bearings are making excessive or unusual noises, replace the motor with the exact service motor. You must replace the impeller at the same time.

REPLACEMENT OF LAMP

Remove grille. Disconnect the connectors of light unit from fan unit. Change the 18W fluorescent bulb or the 4W incandescent lamp, connect the connectors and replace the grille.

TROUBLE SHOOTING GUIDE

Problem: Fan does not come on.

Solution:

- Honeywell ventilation fans are extremely quiet. To confirm that the fan is running, place your hand near the vents to feel the air movement.
- Turn power on, replace fuse, or reset breaker.
- Check all plug connections to be sure they are secure.
- Check the wiring to make sure it matches the wiring diagram.

Problem: Light does not come on.

Solution:

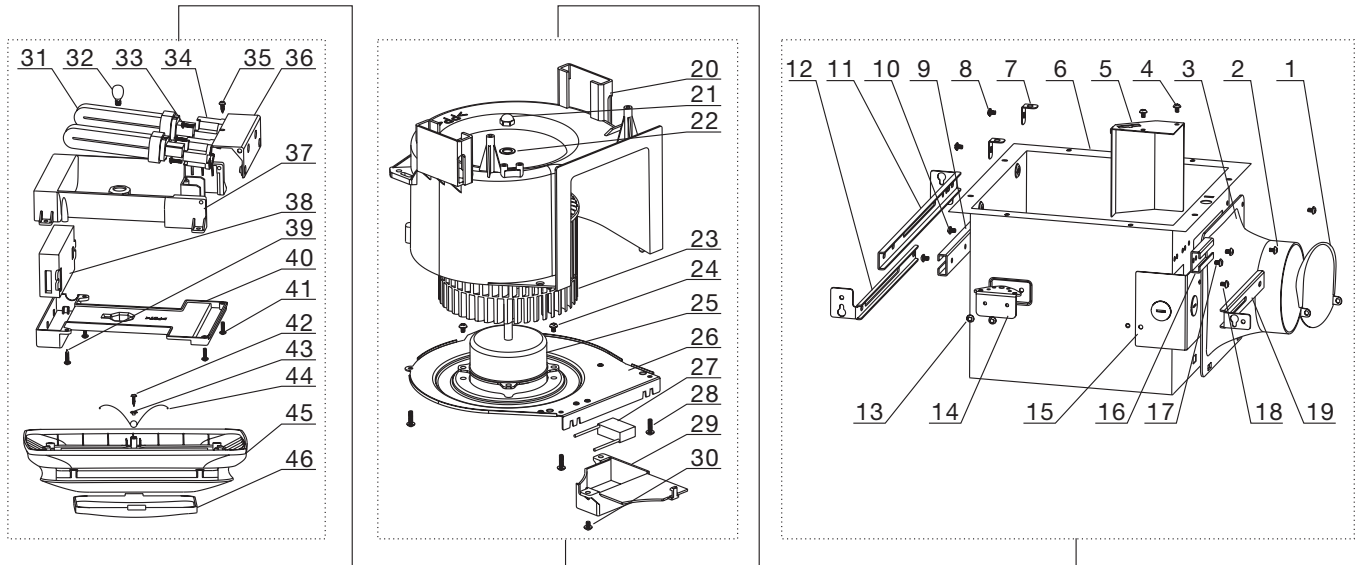
- Replace the light bulb with a new bulb.
- Turn power on, replace fuse, or reset breaker.
- Check all plug connections to be sure they are secure.
- Check the wiring to make sure it matches the wiring diagram.

Problem: Fan is noisy.

Solution:

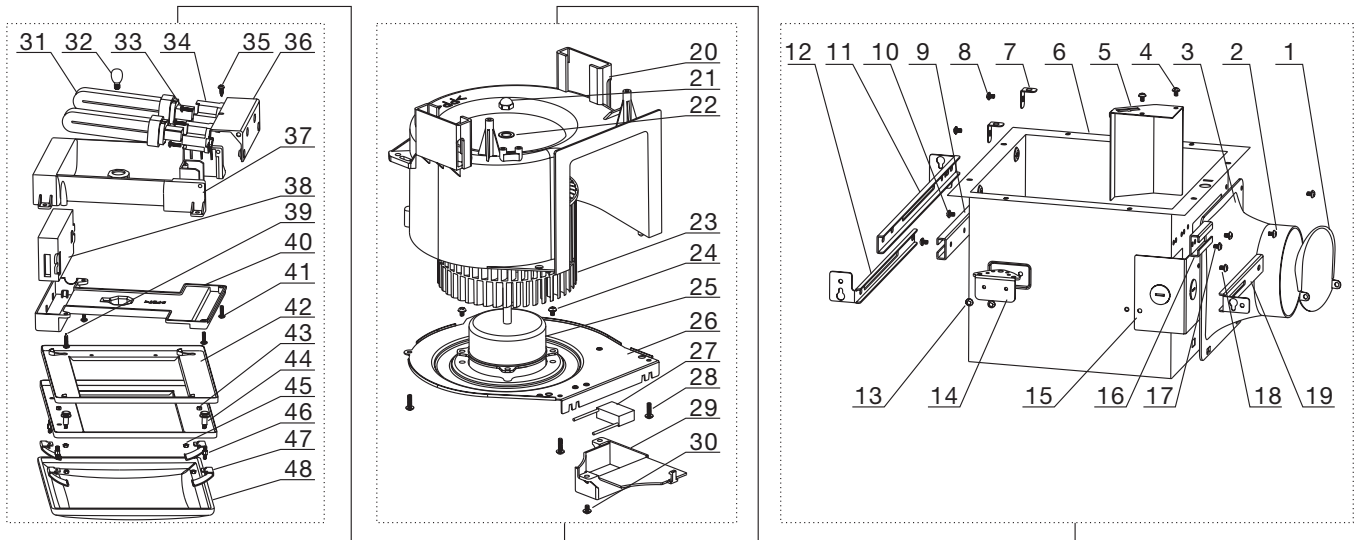
- Check and tighten all fasteners.
- Check the flapper to make sure it moves freely.

SERVICE PARTS (FOR QV50L/80L/90L/110L/130L/150L)



No.	Part name	No.	Part name
1	Damper	24	Motor setting screw
2	Adaptor setting screw	25	Motor
3	Adaptor	26	Motor support
4	Wiring box setting screw	27	Condenser
5	Wiring box	28	Casing setting screw
6	Housing	29	Condenser box
7	Ballast box support	30	Condenser box setting screw
8	Ballast box support setting screw	31	Fluorescent lamp
9	Bracket cover A	32	Night lamp
10	Bracket cover A setting screw	33	Lampholder setting screw
11	Suspension bracket A	34	Lampholder
12	Suspension bracket B	35	Lampholder cover setting screw
13	Casing support setting screw	36	Lampholder cover
14	Casing support	37	Ballast box
15	Wiring cover	38	Ballast
16	Bracket cover B	39	Ballast box cover setting screw A
17	Bracket cover B setting screw	40	Ballast box cover
18	Wiring cover setting screw	41	Ballast box cover setting screw B
19	Suspension bracket C	42	Spring hook setting screw
20	Casing	43	Spring hook
21	Blower wheel setting nut	44	Grille spring
22	Blower wheel setting washer	45	Grille
23	Blower wheel	46	Lamper cover

SERVICE PARTS (FOR QDV70L/80L/90L/110L/130L/150L)



No.	Part name	No.	Part name
1	Damper	25	Motor
2	Adaptor setting screw	26	Motor support
3	Adaptor	27	Condenser
4	Wiring box setting screw	28	Casing setting screw
5	Wiring box	29	Condenser box
6	Housing	30	Condenser box setting screw
7	Ballast box support	31	Fluorescent lamp
8	Ballast box support setting screw	32	Night lamp
9	Bracket cover A	33	Lampholder setting screw
10	Bracket cover A setting screw	34	Lampholder
11	Suspension bracket A	35	Lampholder cover setting screw
12	Suspension bracket B	36	Lampholder cover
13	Casing support setting screw	37	Ballast box
14	Casing support	38	Ballast
15	Wiring cover	39	Ballast box cover setting screw A
16	Bracket cover B	40	Ballast box cover
17	Bracket cover B setting screw	41	Ballast box cover setting screw B
18	Wiring cover setting screw	42	Grille sub-2
19	Suspension bracket C	43	Nut (M5)
20	Casing	44	Sliding shaft
21	Blower wheel setting nut	45	Nut (M5)
22	Blower wheel setting washer	46	Bolt
23	Blower wheel	47	Glass grille hook
24	Motor setting screw	48	Glass grille

*These instructions may be printed in English ("the English version") and one or more other languages ("other versions"), in which case the English version shall prevail if there is any inconsistency between the English version and any one or more of the other versions.

WARRANTY

LONON USA, LLC LIMITED WARRANTY

Product Name:	Model Number:
Date of purchase:	Dealer:
Date of installation:	Builder/ Installer:

Warranty Period (from date of original purchase) ("Warranty Period"): Five (5) years for the motor; One (1) year for other parts.

LIMITED WARRANTY. Lonon USA, LLC ("LONON") gives this limited warranty ("this Warranty") to the original purchaser of the Product ("Buyer"), subject to the following terms: LONON warrants that the Product will be free from original defects in materials and workmanship for the Warranty Period, PROVIDED (i) that the Product has been properly stored, installed, serviced, maintained and operated; (ii) that the Product has not been altered or repaired in any way which, in LONON's reasonable judgment, will affect its performance or reliability; and (iii) that the Product has not been improperly installed or subjected to misuse, negligence, or accident, or incorrectly used in combination with other articles. Save where provided otherwise in this Warranty, Buyer assumes all risks and liability for results of use of the Product. Where applicable, warranties on purchased parts are limited to the terms of the warranties extended by LONON's supplier(s). Without prejudice to the limitations and exclusions below, **THIS WARRANTY SHALL BE VALID ONLY IF THE PRODUCT IS PURCHASED AND INSTALLED IN THE UNITED STATES.**

WARRANTY SERVICE. All claims under this Warranty shall be made in writing and delivered to LONON at the address set out below within 15 days after discovery of the defect and prior to the expiration of the Warranty Period. Buyer shall be barred from any remedy if Buyer fails to make such claim within such period. Within 30 days after receipt of a timely claim, LONON shall have the option either to inspect the Product while in Buyer's possession or to request Buyer to return the Product to LONON at Buyer's expense for inspection by LONON. Subject to the terms of this Warranty, LONON will, during the Warranty Period, at its option replace or repair, free of charge, the Product or part thereof which LONON determines is defective under normal use and maintenance.

This Warranty does not cover and LONON is not responsible for : (i) normal maintenance and service; (ii) any Product which has been subjected to misuse, improper maintenance or modification, neglect, electrical current fluctuations, negligence, accident, improper or faulty operation or installation or installation contrary to the installation instructions, use of parts or supplies other than LONON's that cause damage to the Product, defacement, alteration, or removal of a product serial number; (iii) the cost of removal of the defective Product or part, damages due to removal, or any expenses incurred in shipping the defective Product or part to or from LONON's service centre, or the installation of the repaired or replacement product or part; (iv) any glass component, light bulb, fluorescent lamp, starter, tube, filter, duct, roof cap, wall cap or other ducting accessories even where the Product is equipped with any of the same.

Subject to the above warranty, to the maximum extent permitted by applicable law: (i) LONON and its suppliers provide the Product as is and hereby disclaim all other warranties and conditions whether express implied or statutory, including without limitation implied warranties or conditions of merchantability and of fitness for a particular purpose, and any responsibility for any loss of revenues or profits, inconvenience, expense for substitute equipment or service, storage charges, or loss or corruption of data; (ii) implied warranties, when applicable, shall commence upon the same date as the express warranty provided above, and shall, except for warranties of title, extend only for the duration of the express warranty above; (iii) LONON assumes no liability on account of any recommendations, opinions or advice as to the choice, installation or use of the Product, and any such recommendations, opinions or advice given are accepted at the original purchaser's own risk and shall not constitute any warranty or guarantee concerning any matter; (iv) in no event shall LONON and its suppliers be liable for any special, incidental, punitive, indirect, or consequential damages whatsoever arising out of or in any way related to the use of or inability to use the Product for whatever reason and based on whatever cause of action;

WARRANTY (Continued)

(v) the entire liability of LONON and its suppliers in relation to the manufacture and supply of the Product is limited to the amount actually paid by the original purchaser for the Product. Damages are limited to the purchase price of the Product.

This Warranty gives the Buyer specific legal rights. Some states do not allow limitation on how long an implied warranty lasts, or exclusion of or limitation on incidental or consequential damages. The extent to which the above limitations and exclusions are valid may vary from state to state.

No agent, dealer, employee or other person is authorized to give any other warranties or assume any other liability on LONON's behalf in connection with the Product except in writing signed by an authorized officer of LONON.

Notwithstanding any past practice or dealings or any custom of the trade, the supply of the Product does not include the provision of any technical advice or system design, which may be provided at LONON's sole option and subject to additional charges.

This Warranty may be printed in English ("the English version") and one or more other languages ("other versions"), in which case the English version shall prevail if there is any inconsistency between the English version and any one or more of the other versions.

FOR ASSISTANCE: PLEASE CONTACT

Lonon USA, LLC

Customer Service Centre:

4320 Winfield Road, Suite 200 Warrenville, IL 60555

Opening hours: Mon. - Fri. (except public holidays): 8:00 am to 3:30 pm

Toll free service hotline: 1-888-566-6687

IMPORTANT: The original invoice for the purchase of the Product together with this warranty card must be presented in order to qualify for service under this Warranty.

CBT-213L-120S

APPLICATION and PERFORMANCE SPECIFICATION

Description: Electronic ballast for compact fluorescent Lamp (2)T4quad 4pin 13W or (2) T5 linear 13W/14W/28W

• Line Voltage : 120Vac, 60Hz

- Rapid Start
- Series Lamp Connection WS-3

Model	Line		Lamp Type**	No.of lamps	Input Watts*	Nominal Line Amps	Power Factor	Crest Factor	Case ULC #
	Volts	Freq-Hz							
CBT-213L-120S	120	60	13W/6T4/Q/G24q-1 (Quad 4pin/PL-C 13W)	2	29	0.44	0.56	<1.7	#90-5B
			T5 linear 13W		30	0.44			
			T5 linear 14W		30	0.44			
			T5 linear 28W	1	30	0.44			

*ANSI measured wattage,25°C ambient,benchtop,lamps base up ; Enclosed fixture, wattage may change depending on fixture type.

Application and Performance Specification Information Subject to Change without Notification.

Performance:

- Meets ANSI Standard C82.11-1993
- Meets ANSI Standard C62.41-1991
- Meets UL 935
- Meets FCC Part 18 (Class B) for EMI
- Operating Frequency Range: 45-55 kHz

- Abnormal Protection Circuit
- End of lamp life protection Circuit
- Auto-Reset Shutdown Circuit
 - lamp(s) should be replaced at end of lamp life
 - Lamp relights upon insertion in socket

Application:

- Minimum Starting Temperature: 5° F (-15° C)
- Maximum Ambient Temperature: 122° F(50° C)
- Maximum Case Temperature (@ t_c): 158° F(70° C)
- Sound Rated: A

Safety:

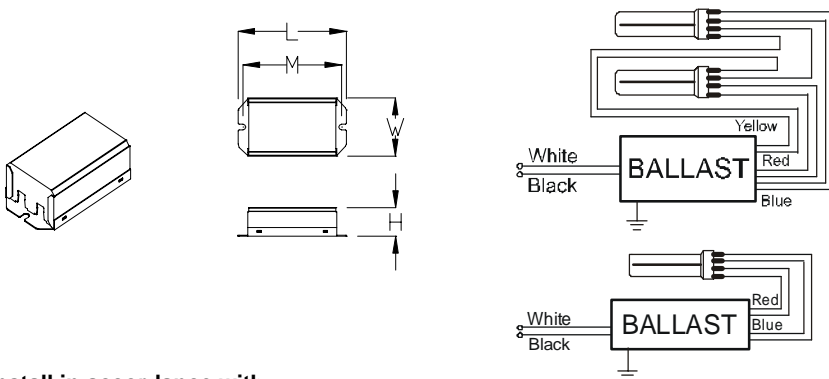
- No PCB's
- UL listed (Class P)
- UL # 221323



Quad, 4-Pin

Physical Parameters

Case:	CM-31(#90-5B)
Overall Length(L):	3.86"(99mm)
Width(W):	2"(52mm)
Mounting(M):	3.5"(90mm)
Height(H):	1.00"(25.4mm)
Weight:	0.55bs(0.25kg)
Qty/Carton:	30
Color:	Black
Can Material:	Metal
	Black 320mm
Wire length:	White 300mm
(±25.4mm)	Blue 240mm*2
	Red 240mm*2
	Yellow 250mm*2



Install in accordance with the National Electrical Code

Ballast must be grounded.

FCC NOTE:

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.450-30MHz.

Warranty:

Universal Lighting China warrants to the purchaser that each electronic ballast will be free from defects in material or workmanship for a period of 3 years from date of manufacture when properly installed and under normal conditions of use.

Call **8621-64808118*218,128** for technical assistance.