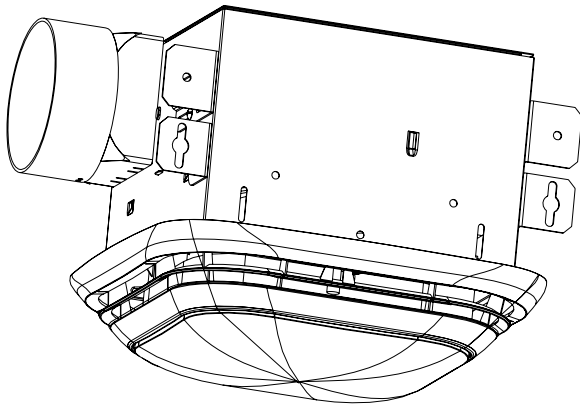
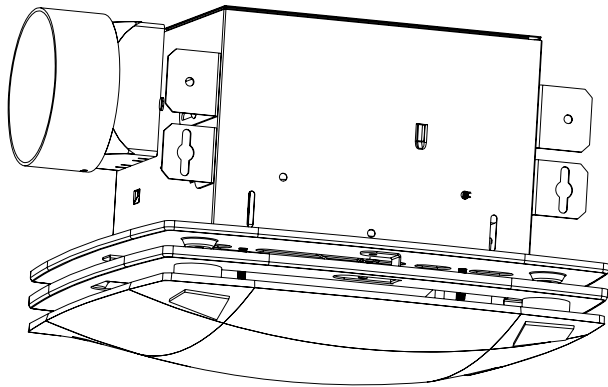


Ventilation Fan/Light/Nightlight



Model V50L/V70L/V80L/V90L
/V100L/V110L Model

Decorative Ventilation Fan/Light/Nightlight



Model DV50L/DV70L/DV80L
/DV90L/DV100L/DV110L

Installation instructions

Before operating this unit, please read and save these instructions carefully.

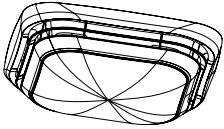

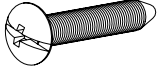
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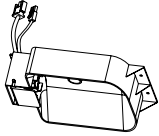
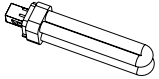

Honeywell International Inc. Makes no representations or warranties with respect to this product.

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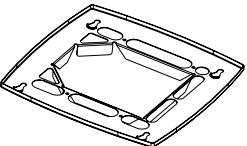
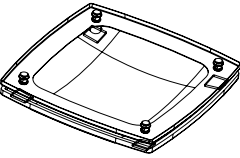

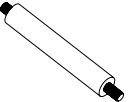

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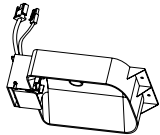
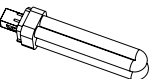



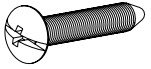
ACCESSORIES(V50L/V70L/V80L/90L/V100L/V110L)

Part name	Picture	Quantity
Grille		1
Screw A M4X10		2
Screw B M4X30		4

Part name	Picture	Quantity
Light unit		1
26W Fluorescent Lamp		1
4W Incandescent Lamp		1

ACCESSORIES(DV50L/DV70L/DV80L/DV90L/DV100L/DV110L)

Part name	Picture	Quantity
Grille pan		1
Glass panel unit		1
Decorative cap		4
Bolt		4
Nut		4

Part name	Picture	Quantity
Light unit		1
26W Fluorescent Lamp		1
4W Incandescent Lamp		1
Screw A M4X10		2
Screw B M4X12		4
Screw C M4X30		4

DESCRIPTION

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 Ventilation Fans are some of the quietest fans ever tested. Steamy mirrors, damp walls and foggy windows can be annoying during daily life but what's more, this excess moisture can lead to the development of problems like mold and mildew, ruined insulation and wood rot. Honeywell fans can help provide a ventilation solution to any room in your house. What's more, Honeywell fans can help clear the air quickly and help remove irritants before they cause problems in your home.

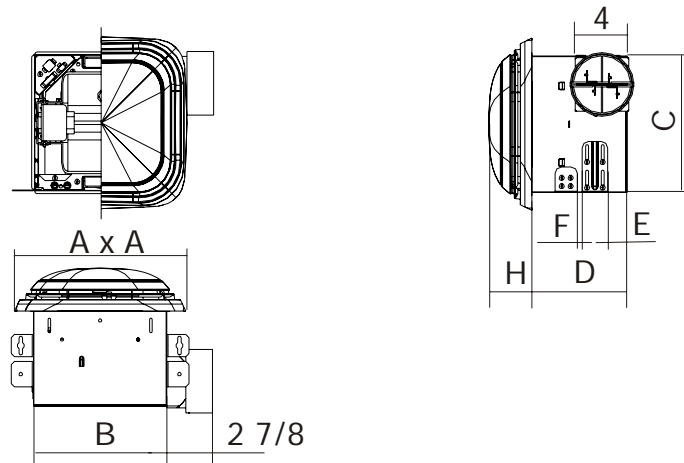
Honeywell ceiling mounted ventilation fans use high-capacity sirocco fan driven by capacitor motor. The sirocco fan reduce the noise level.

The motor is designed to have an extended service life with reduced energy consumption.

Honeywell ventilation fans also 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.

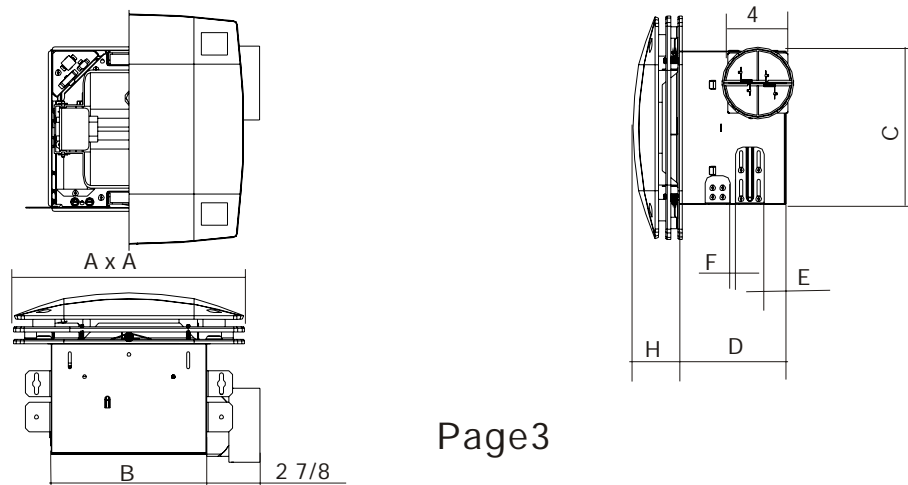
The light unit is an energy efficient lighting device which uses one 26W fluorescent lamp.

DIMENSION(V50L/V70L/V80L/V90L/V100L/V110L)



Model No.	A	B	C	D	E	F	H
V50L V70L V80L V90L	10 5/8	8 1/4	8 1/4	6	1 3/16	5/16	2 1/2
V100L V110L	11 3/8	9 1/2	9 1/2	6 3/4	1 5/8	1/2	2 3/8

DIMENSION(DV50L/DV70L/DV80L/DV90L/DV100L/DV110L)



Model No.	A	B	C	D	E	F	H
DV50L DV70L DV80L DV90L	12 3/16	8 1/4	8 1/4	6	1 3/16	5/16	2 9/32
DV100L DV110L	13	9 1/2	9 1/2	6 3/4	1 5/8	1/2	2 3/8

SPECIFICATIONS(V50L/V70L/V80L/V90L/V100L/V110L)

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				
V50L	120V/60Hz	17.5	26.0	4.0	50	0.8	4	
V70L	120V/60Hz	20.0	26.0	4.0	70	2.0	4	
V80L	120V/60Hz	26.5	26.0	4.0	80	3.0	4	
V90L	120V/60Hz	47.0	26.0	4.0	90	3.5	4	
V100L	120V/60Hz	37.0	26.0	4.0	100	3.0	4	
V110L	120V/60Hz	40.0	26.0	4.0	110	3.5	4	

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

SPECIFICATIONS(DV50L/DV70L/DV80L/DV90L/DV100L/DV110L)

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				
DV50L	120V/60Hz	18.5	26.0	4.0	50	0.8	4	
DV70L	120V/60Hz	22.0	26.0	4.0	70	2.0	4	
DV80L	120V/60Hz	26.5	26.0	4.0	80	3.5	4	
DV90L	120V/60Hz	48.5	26.0	4.0	90	3.0	4	
DV100L	120V/60Hz	37.0	26.0	4.0	100	3.0	4	
DV110L	120V/60Hz	40.5	26.0	4.0	110	3.5	4	

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

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.

GENERAL SAFETY INFORMATION

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.1.



Fig.1

WARNING:

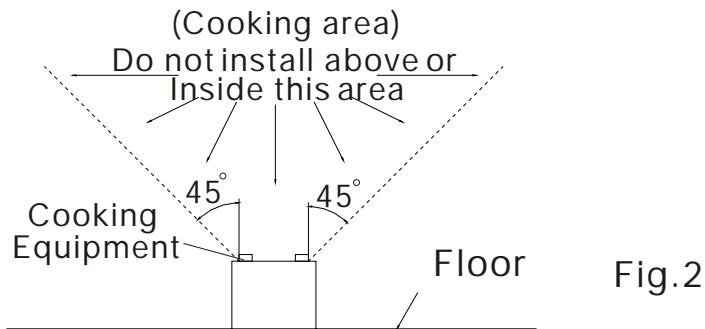
TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

1. Use this unit only in the manner intended by the manufacturer. If you have questions, please contact the manufacturer 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 backdrafting. Follow the heating equipment manufacturer's guideline and safety standards, such as those published by the National Fire Protection Association (NFPA) and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
5. When cutting or drilling into wall or ceiling, 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. 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 26 watt fluorescent lamps and 4 watt maximum type C incandescent lamp nightlight.
GENERAL ELECTRIC: F26DBXT4/SPX27/4P
PANASONIC: FDS26E27/4
LONON: YDW2U26C/120, YDW2U26D/120

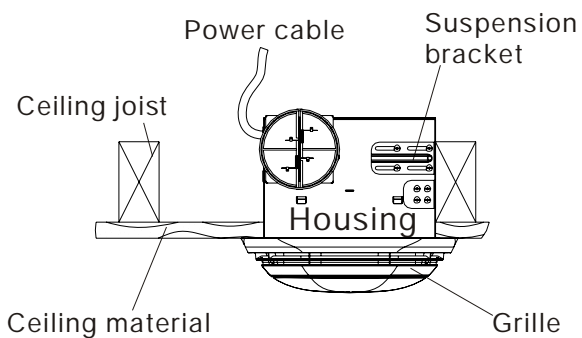
GENERAL SAFETY INFORMATION

⚠ CAUTION:

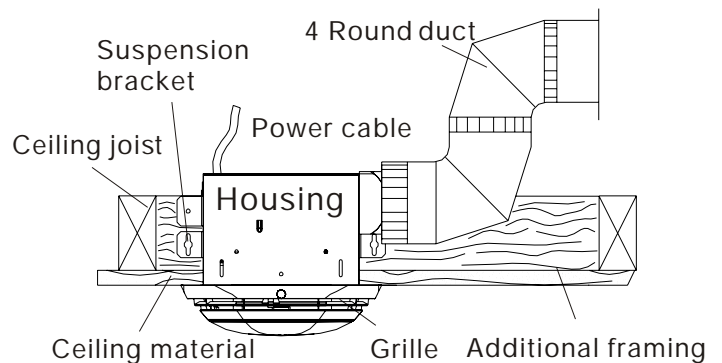
1. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
2. This product is designed for ceiling installation only. This product is designed for installation in ceilings up to a 12/12 pitch. Ductwork must point up. **DO NOT MOUNT THIS PRODUCT ON A WALL.**
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. 2)



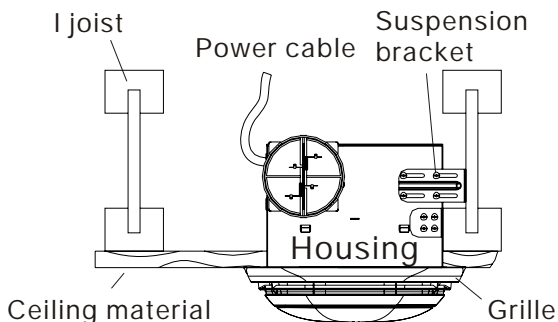
INSTALLATION(joist mounting)(V50L/V70L/V80L/V90L/V100L/V110L)



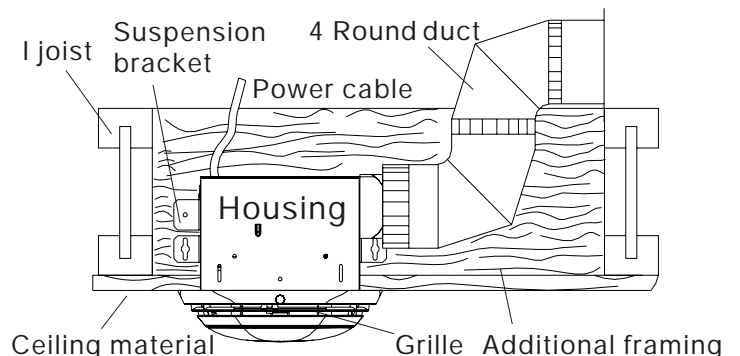
Housing mounted directly to joist
2x4(or larger)
Discharge parallel to joist



Housing mounted to additional framing
2x4(or larger)
Discharge 90 to joist



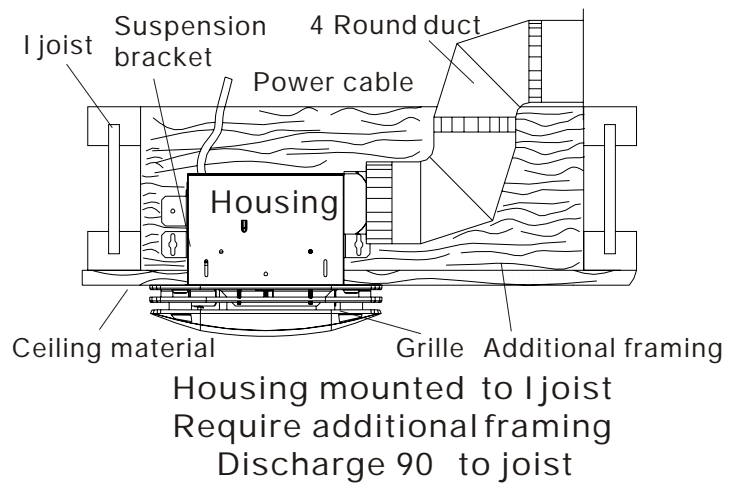
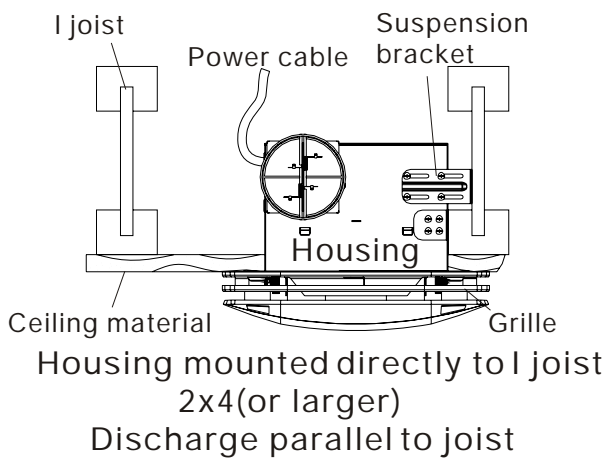
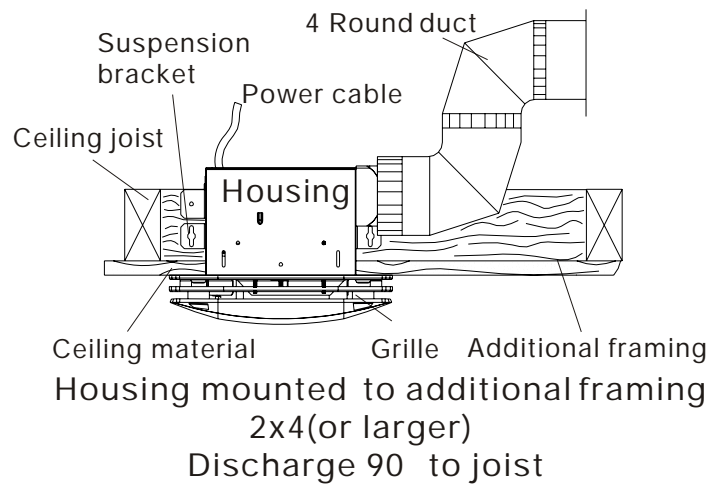
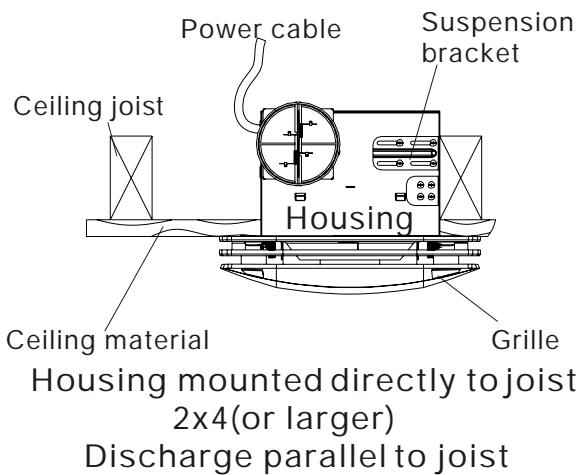
Housing mounted directly to I joist
2x4(or larger)
Discharge parallel to joist



Housing mounted to I joist
Require additional framing
Discharge 90 to joist

*Additional framing must be a 2x6(minimum height), at least 9-inches long.

INSTALLATION(joist mounting)(DV50L/DV70L/DV80L/DV90L/DV100L/DV110L)



*Additional framing must be a 2x6(minimum height), at least 9-inches long.

INSTALLATION(joist mounting)

STEP.1:PLAN THE INSTALLATIONS

The unit operates most quietly and efficiently when located where the shortest possible duct run and minimum number of elbows are needed.(Fig.3)

Plan to supply the unit with proper line voltage and appropriate power cable.

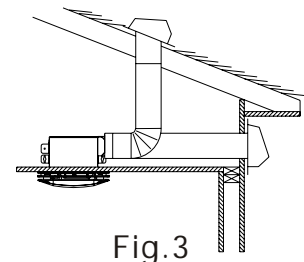


Fig.3

STEP.2:INSTALL THE HOUSING

⚠ NOTE :

THE FOLLOWING INSTALLATION ILLUSTRATIONS SHOW 2X6 JOISTS. IF YOU HAVE A TRUSS OR "I" - JOIST INSTALLATION, MOUNT THE VENTILATOR TO THE ADDITIONAL FRAMING IN THE SAME MANNER.

New Construction (attaching to joist)

1. Choose the location for your fan in the ceiling. For best possible performance, use the shortest possible duct run and a minimum number of elbows.
2. Position mounting brackets against joist so that bottom edge of housing will be flush with finished ceiling.

Additional positioning feature for 1/2", 3/4", 1", & 1-1/4" thick ceiling material:

Holes in corners of housing are labeled with various ceiling material thicknesses. Position housing so bottom edge of joist is visible through a matched set of holes. The housing is now in the proper position for that ceiling material thickness.(Fig.4)

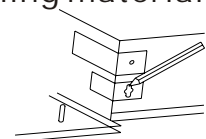


Fig.4

3. Set housing aside and drive nails partially into joist at the top of both keyhole marks.(Fig.5)
4. Hang housing from nails and pound nails tight. To ensure a noise-free mount, pound another nail through the top hole of mounting bracket A. (Fig.6)

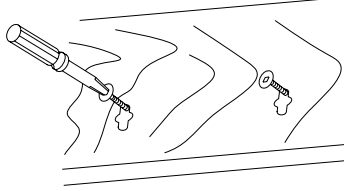


Fig.5

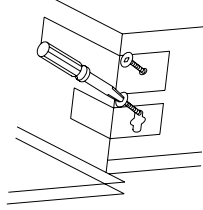


Fig.6

Existing Construction (accessible from above)

1. Choose the location for your fan/light in the ceiling. For best possible performance, use the shortest possible duct run and a minimum number of elbows.
2. In attic, position mounting brackets against joist. Trace outline of housing on ceiling material.(Fig.7)
3. Set housing aside and cut ceiling opening slightly larger than marked.(Fig.8)
4. Place housing in opening so that its bottom edge is flush with finished ceiling. Nail it to joist through keyholes on both sides. To ensure a noise-free installation, drive another nail through the top hole of each mounting bracket.(Fig.9)
5. Additional mounting holes are provided for installations where access from above is inconvenient or not possible. Nail or screw housing directly to joists or framing.(Fig.10)

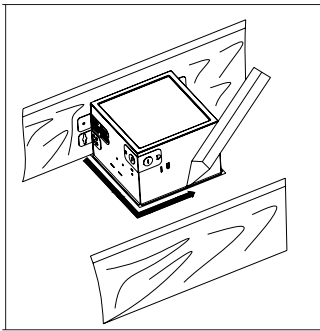


Fig.7

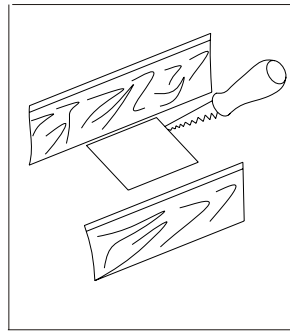


Fig.8

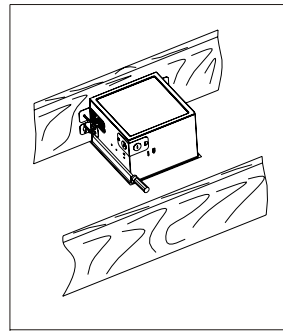


Fig.9

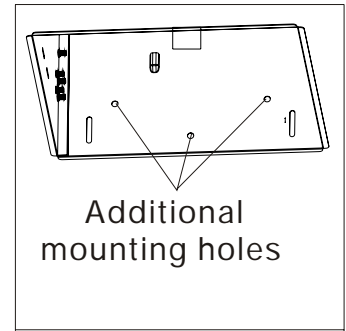


Fig.10

INSTALLATION(joist mounting)

STEP.3:INSTALL THE DUCTWORK

1. Attach damper/duct connector

Snap the damper/duct connector onto housing. Make sure that tabs on the connector lock into slots in housing. Top of damper/duct connector must be flush with top of housing.(Fig.11)

2. Install 4 inch round ductwork

Connect 4" round duct to damper/duct connector and extend duct to outside through a roof or wall cap. Check damper to make sure that it opens freely. Tape all duct connections to make them secure and airtight.(Fig.12)

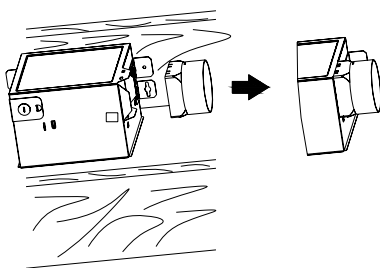


Fig.11

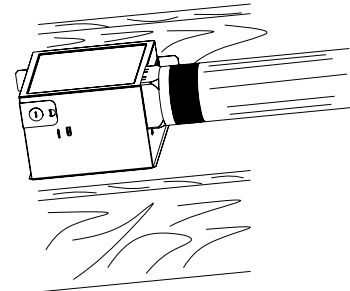
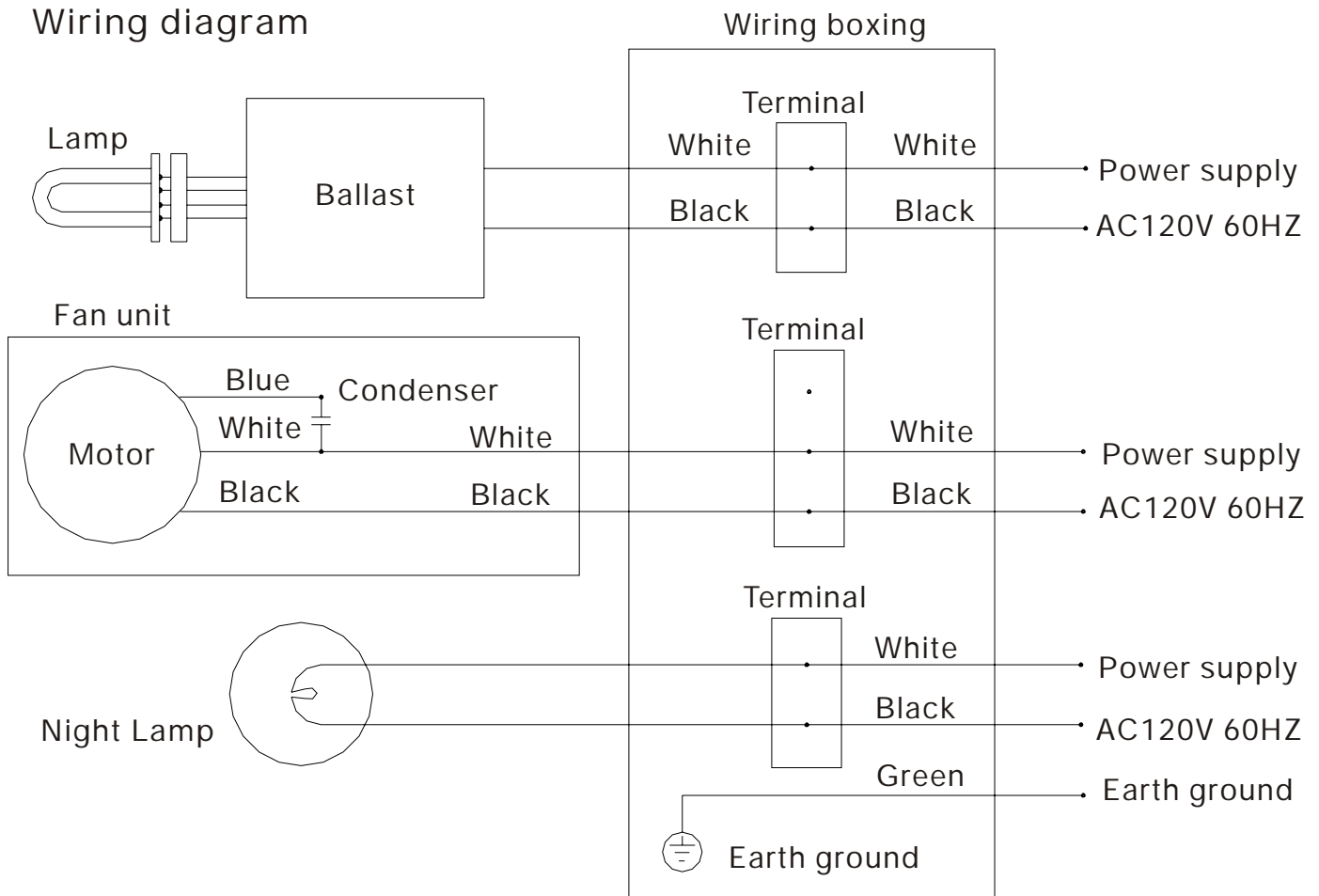


Fig.12

STEP.4:CONNECT WIRING

Run 120VAC house wiring to installation location, Use proper UL Approved connector to secure house wiring to wiring plate. Refer to wiring diagram below. Using wire nuts connect house power wires to ventilating fan wires: black to black; white to white; green to green. (Fig.13)

Wiring diagram



STEP.5:MOUNTING MOTOR UNIT AND ATTACH THE GRILLE

1. Install ceiling material. Cut out around housing.
2. Mounting the motor unit into the housing, and fastness with one M4x16 screw. (Fig.14)
3. Insert the plug connector into the receptacle respectively, and attach the lighting unit to the fan unit with 2 screws (M4X10) . (Fig.15)
4. Insert the fluorescent lamp and screw the night lamp into the lighting unit.
5. Squeeze grill springs and insert them into slot on each side of scroll. Push grill against ceiling. (Fig.16)

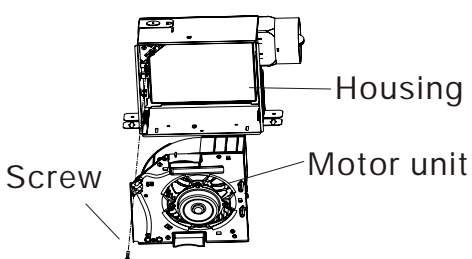


Fig.14

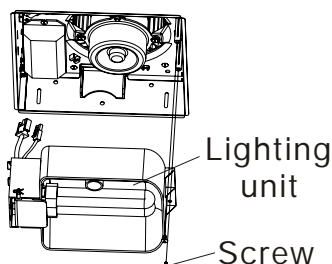


Fig.15

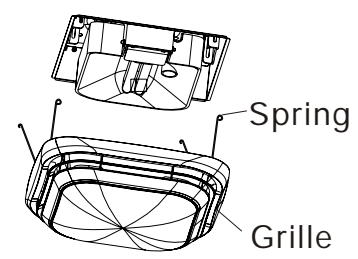


Fig.16

INSTALLATION(joist mounting)

STEP.5:MOUNTING MOTOR UNIT AND ATTACH THE GRILLE

1. Install ceiling material. Cut out around housing.
2. Mounting the motor unit into the housing, and fastness with one M4x16 screw. (Fig.17)
3. Screw the bolt into motor plate. (Fig.18)
4. Insert the plug connector into the receptacle respectively, and attach the light unit to the fan unit with 2 screws (M4X10). (Fig.19)
5. Insert the fluorescent lamps and screw the night lamp into the light unit.
6. Locate the grille unit over the fan housing, Screw the nut into the bolt. (Fig.20)
7. Insert the bolt of Glass panel to four holes of the motherboard, push the panel in the indicated direction, wedge the panel to the motherboard. (Fig.21)

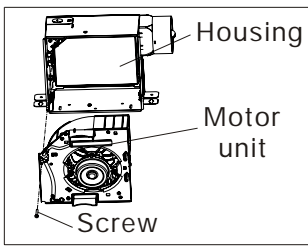


Fig.17

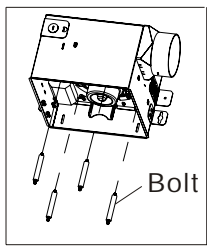


Fig.18

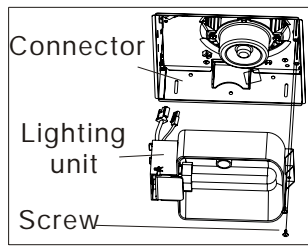


Fig.19

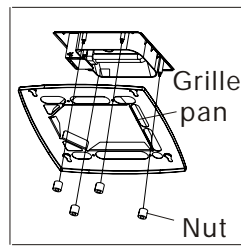


Fig.20

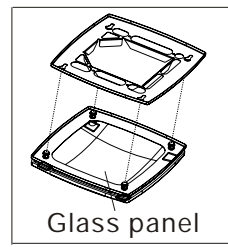


Fig.21

CLEANING & MAINTENANCE

WARNING:

1. Disconnect power source before working on unit.
Routine maintenance must be done every year.
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. The glass panel is fragile. Remove it with care.

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).

CLEANING

Remove decorative caps and machine screw (M4X12) from grille pan unit, and remove glass panel carefully. Remove the grille pan unit from fan body. Glass shade can be wiped clean with a mild detergent solution or glass cleaner and dried with a soft cloth. Grille pan unit may be gently vacuumed and wiped clean with a soft cloth. And wipe grille pan unit dry with new cloth. Never use abrasive cloth, steel wool pads or scouring powders on glass shade or grille pan unit.

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

Replace bulbs, grille pan unit, glass pan and decorative caps.

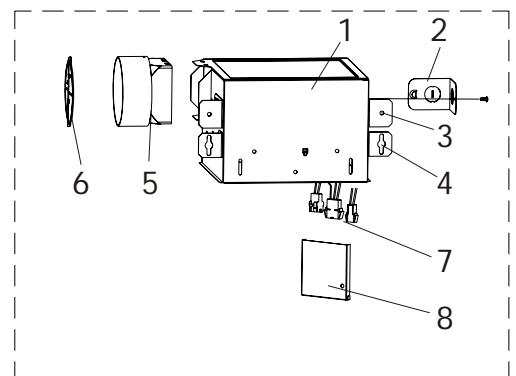
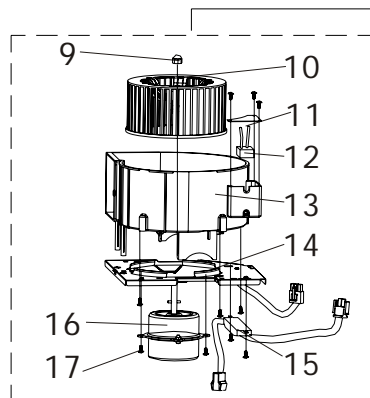
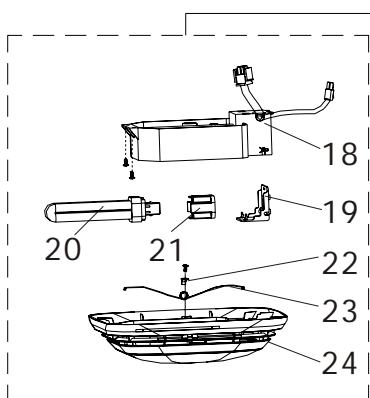
MAINTENANCE

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 decorative caps and machine screw (M4X12) from grille pan unit, and remove glass panel carefully. Remove grille pan unit from fan body. Disconnect the connectors of light unit from fan unit. Change the 26W fluorescent bulb or the 4W incandescent lamp, connect the connectors and replace grille pan unit, glass panel and decorative caps.

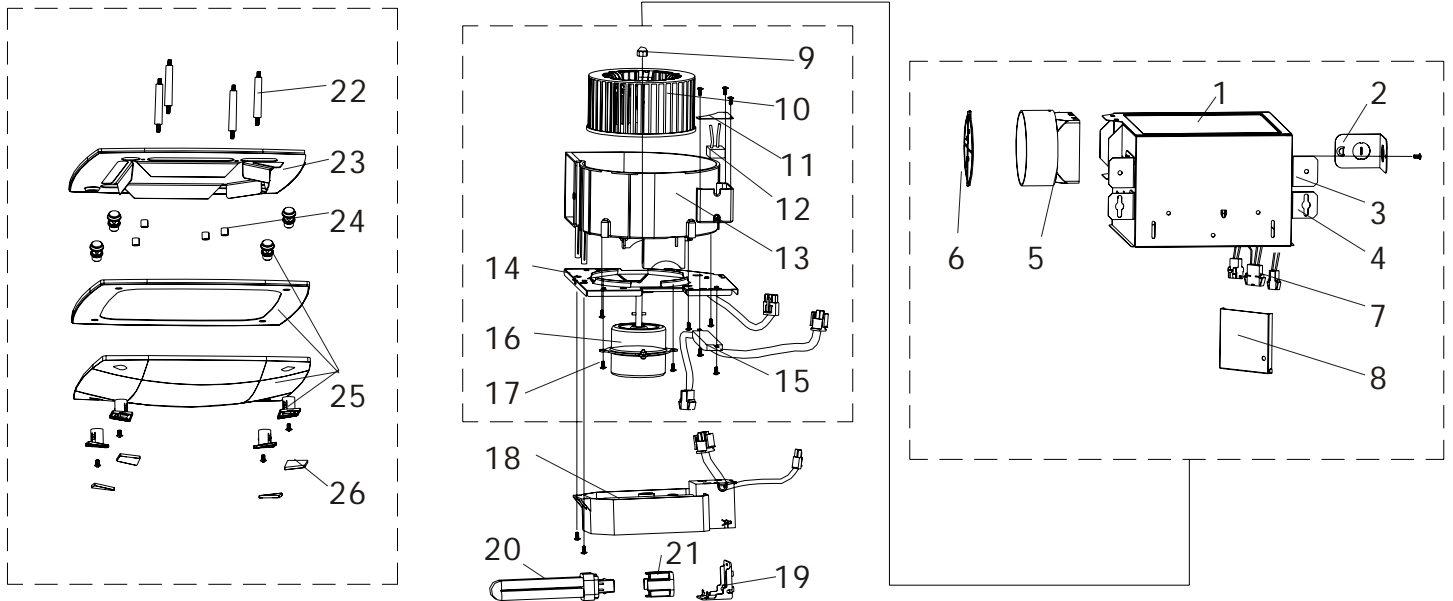
SERVICE PARTS(V50L/V70L/V80L/V90L/V100L/V110L)



No.	Part name	No.	Part name
1	Housing	13	Casing
2	Outlet cover	14	Motor support
3	Mounting Bracket A	15	Ballast
4	Mounting Bracket B	16	Motor
5	Adaptor	17	Screw
6	Damper	18	Reflecting cover unit
7	Female pin connector	19	Compact Fluorescent Lamp setting bracket
8	Wiring cover	20	Compact Fluorescent Lamp
9	Blower Wheel setting nut	21	Lamp holder
10	Blower Wheel	22	Spring hook
11	Condenser box cover	23	Grille spring
12	Condenser	24	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.

SERVICEPARTS(DV50L/DV70L/DV80L/DV90L/DV100L/DV110L)



No.	Part name
1	Housing
2	Outlet cover
3	Mounting Bracket A
4	Mounting Bracket B
5	Adaptor
6	Damper
7	Female pin connector
8	Wiring cover
9	Blower Wheel setting nut
10	Blower Wheel
11	Condenser box cover
12	Condenser
13	Casing

No.	Part name
14	Motor support
15	Ballast
16	Motor
17	Screw
18	Reflecting cover unit
19	Compact Fluorescent Lamp setting bracket
20	Compact Fluorescent Lamp
21	Lamp holder
22	Bolt
23	Grille pan
24	Nut
25	Glass panel unit
26	Decorative cap

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;

WARRANTY

(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;

(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-126L-120S

APPLICATION and PERFORMANCE SPECIFICATION

Description: Electronic ballast for compact fluorescent Lamp (1) Quad 4pin 26W or (1) TwinT5 4pin 24W or (1)T5 linear 24W

• Line Voltage : 120Vac, 60Hz

• Rapid Start

• Lamp Connection: Single Lamp WS-1

Model	Line		Lamp Type**	No. of lamps	Input Watts*	Nominal Line Amps	Power Factor	Crest Factor	Case ULC #
	Volts	Freq-Hz							
CBT-126L-120S	120	60	26W/8T4/Q/G24q-3 (Quad 4pin/PL-C 26W)	1	27	0.39	0.56	<1.7	#90-5B
			24-27W/13T5/T/2G11/PH-RS (Twin T5 4pin/PL-L 24W)		25	0.37			
			T5 linear 24W		24	0.32			

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

**Lamp Type: Quad 4pin T4

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

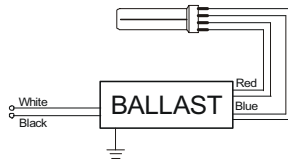
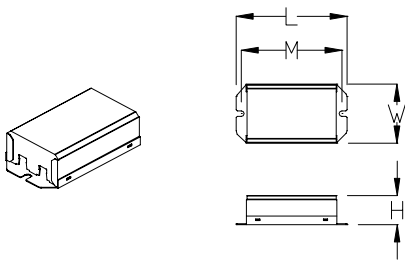
• End of lamp life protection Circuit

• 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

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/White
Can Material:	Metal
	Black 320mm
Wire length:	White 300mm
(±25.4mm)	Blue 240mm*2
	Red 240mm*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 modification 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.