

**SUNON®**  
**POWERFUL HVLS FAN**  
**SERIES 10**

Installation Manual

# Caution & Safety

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

1. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards.
2. Do not damage existing wiring and other hidden utilities/devices when cutting or drilling into a wall or ceiling.
3. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
4. Mounting of the suspension system and replacement of parts of the safety suspension system shall be performed by the manufacturer, its service agent, or suitably qualified persons.
5. Do not operate any fan with a damaged cord or plug. Please contact manufacturer and qualified technician for examination and/or repair.
6. Before servicing or cleaning unit, turn off all the power switches to prevent power from being switched on accidentally. When the circuit breaker cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
7. SUNON provides installation guide for mounting fans; however, it is the sole responsibility of the building owner and installer to ensure the safety of the mounting system, that the building structure is sound and that the installation complies with all federal, state, and local codes.
8. While turning on power to the fan, please use it with caution. DO NOT connect the fan to a damaged/dangerous power source. DO NOT attempt to resolve electrical problems by yourself. Please SEND the fan back to authorized service center for examination and/or repair. If there is any question with installation, please contact customer service.
9. When service or replacement of a fan component requires the removal or disconnection of a safety device, the safety device is to be reinstalled or remounted as previously installed.
10. Do not bend the airfoils when installing, servicing, or cleaning the fan. Do not insert foreign objects between rotating airfoils.
11. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
12. SUNON Fans product warranty will not cover equipment damage or failure that is caused by improper installation or use.
13. If unusual oscillating movement is observed, immediately stop using the ceiling fan and contact the manufacturer, its service agent, or suitably qualified persons.
14. Powerful HVLS Fan controller is equipped with a memory function. After disconnecting power, it still remembers the previous operation mode. Once turning on power to the fan, it also keeps previous operation mode.
15. Please use this unit only the manners specified by the company. Please contact customer service if you have questions.

## **Thank you for purchasing SUNON products!**

Please read this manual carefully before use, use the product accordingly and keep the manual in safe place.

In order to protect your rights and interests, please make sure that the dealer records the purchase date, dealer's name, etc. on the guarantee.

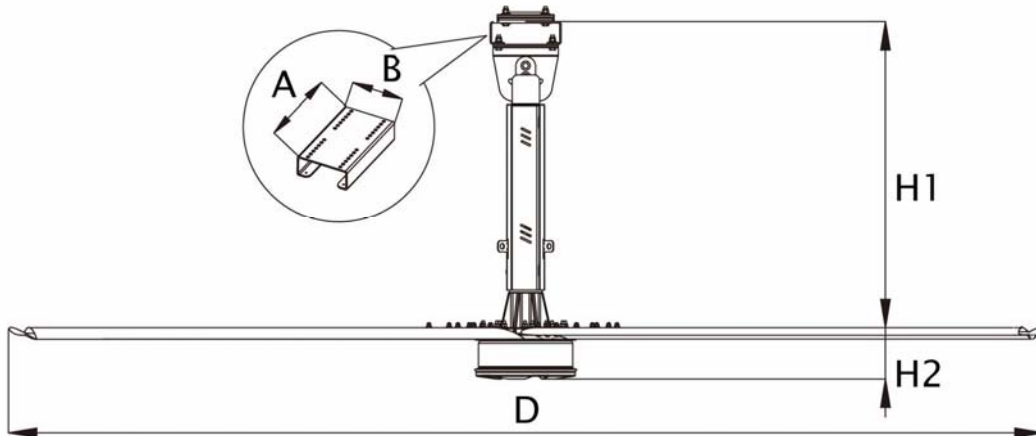
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## Introduction

Thanks for choosing our products, Powerful HVLS Fan is an efficient, economical and stylish choice. It's energy-saving, eco-friendly design brings excellent airflow to space. We assure you this appliance will make your space cozier and occupant comfort in the near future.

## Fan Outline



| D           | A                 | B                  | H1                 | H2                |
|-------------|-------------------|--------------------|--------------------|-------------------|
| 13 ft/4 m   | 1.5 ft<br>/450 mm | 0.82 ft<br>/250 mm | 3.3 ft<br>/1000 mm | 0.6 ft<br>/184 mm |
| 16 ft/5 m   |                   |                    |                    |                   |
| 18 ft/5.5 m |                   |                    |                    |                   |
| 20 ft/6.1 m |                   |                    |                    |                   |
| 24 ft/7.3 m |                   |                    |                    |                   |

# Product Specifications

## Powerful HVLS Fan series 10– 13 ft (4 m)

| Input Voltage (V <sub>AC</sub> ) | Input Frequency (Hz) | Maximum Rated Power (W) | Maximum Rated Current (A) | Maximum RPM (RPM) | Noise (dB(A)) |
|----------------------------------|----------------------|-------------------------|---------------------------|-------------------|---------------|
| 220–240                          | 50/60                | 825                     | 6.3                       | 115               | 50            |

## Powerful HVLS Fan series 10– 16 ft (5 m)

| Input Voltage (V <sub>AC</sub> ) | Input Frequency (Hz) | Maximum Rated Power (W) | Maximum Rated Current (A) | Maximum RPM (RPM) | Noise (dB(A)) |
|----------------------------------|----------------------|-------------------------|---------------------------|-------------------|---------------|
| 220–240                          | 50/60                | 1100                    | 8.0                       | 90                | 50            |

## Powerful HVLS Fan series 10– 18 ft (5.5 m)

| Input Voltage (V <sub>AC</sub> ) | Input Frequency (Hz) | Maximum Rated Power (W) | Maximum Rated Current (A) | Maximum RPM (RPM) | Noise (dB(A)) |
|----------------------------------|----------------------|-------------------------|---------------------------|-------------------|---------------|
| 220–240                          | 50/60                | 585                     | 4.4                       | 65                | 46            |

## Powerful HVLS Fan series 10– 20 ft (6.1 m)

| Input Voltage (V <sub>AC</sub> ) | Input Frequency (Hz) | Maximum Rated Power (W) | Maximum Rated Current (A) | Maximum RPM (RPM) | Noise (dB(A)) |
|----------------------------------|----------------------|-------------------------|---------------------------|-------------------|---------------|
| 220–240                          | 50/60                | 765                     | 5.6                       | 60                | 46            |

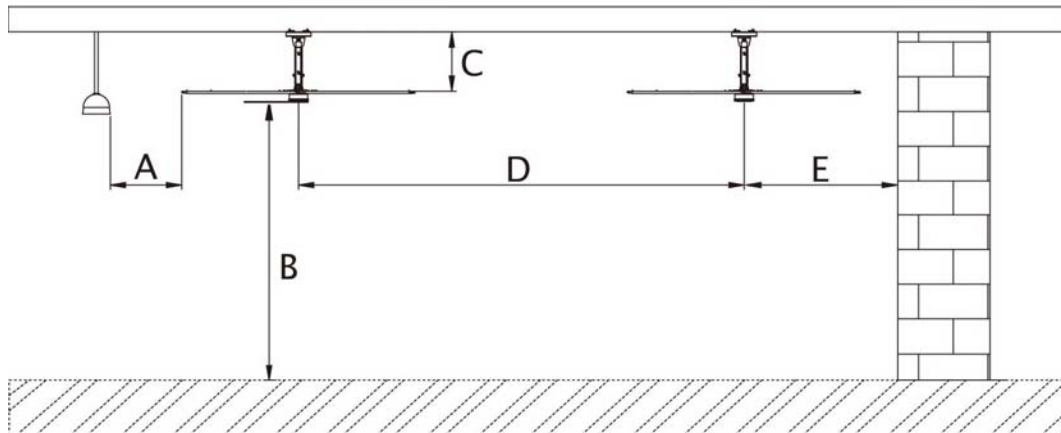
## Powerful HVLS Fan series 10– 24 ft (7.3 m)

| Input Voltage (V <sub>AC</sub> ) | Input Frequency (Hz) | Maximum Rated Power (W) | Maximum Rated Current (A) | Maximum RPM (RPM) | Noise (dB(A)) |
|----------------------------------|----------------------|-------------------------|---------------------------|-------------------|---------------|
| 220–240                          | 50/60                | 1050                    | 8.3                       | 50                | 46            |

## Installation Precautions

1. This HVLS fan need a proper device which can support its weight such as aerial work platform and at least two installation persons.
2. Please switch off all the power supply before installation to avoid the risk of electric shock or lighting shock.
3. All wiring construction must comply with the national electrical codes, standards and the local electrical law, then must be installed by professional technicians or personnel.
4. An earth leakage circuit breaker ( $<30$  mA) should be installed between the appliance and the power switch.
5. The power switch must be fitted with a fuse ( $\geq 20$  A).
6. The hanger must be securely mounted to the ceiling or beam
7. Do not damage electrical wiring and other hidden utilities/devices when installation.
8. To avoid fire or other hazards, make sure that the wires are completely inside, no any wire exposed outside the fan appearance or other parts.
9. Do not bend the airfoils when installing the fan.
10. The HVLS fan model covered by the installation instructions must comply with this installation manual and all national/local electrical codes to avoid personal injury or property damage.
11. Please ensure that this application is equipped with AC single phase 220–240 V, 50–60 Hz before installation.
12. All fan parts must be  $\geq 2$  ft (0.6 m) from all obstructions. The fan installation area must be free of obstructions such as lights, cables, sprinklers, or other building structure components.
13. The distance should be at least 3.3 ft (1 m) from the top of the winglet to the ceiling and no obstructions in this area.
14. The fan must be installed so that it is at least 10ft (3.05m) above the finished floor.
15. Multiple fans must be spaced at a center-to-center distance that is no less than 3x the fan diameter.
16. The fan should not be located near to air supply outlets or exhausting inlets of other HVAC equipment. Air supply outlets/inlets can be configured to deliver air away from the fan and outside the swept area of the fan.
17. If the fan is mounted at the same level or higher than an HVAC diffuser, the distance between the center of the ceiling fan and HVAC equipment need to at least 1.5x the measure of the fan's diameter. If the fan is mounted below an HVAC diffuser, the distance between the center of the ceiling fan and HVAC equipment need to at least 2.5x the measure of the fan's diameter.
18. Pleases see the manufacturer's requirements for the minimum clearance to combustibles.
19. The fan inlet or other return air point that produces negative pressure should be bigger than 1 times the diameter of the ceiling fan. This system will reduce the airflow of the HVLS fan.
20. Proper systems orientation will provide an enhancement to the Indoor Air Quality and occupant comfort. Please refer to the illustration below.

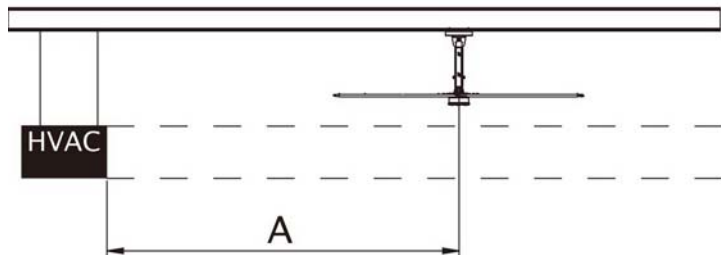
## The Placement & Clearance between fan and obstructions



- A. The tip of airfoil need at least 2 ft (0.6 m) away from light or any equipment and no obstacles.
- B. The Ceiling fan need at least 10 ft (3.05 m) away from floor.
- C. The tip of the airfoil need at least 3.3ft (1 m) away from beam / ceiling and no obstacles.
- D. Spacing between fans at least 3x diameter of the fans apart.
- E. Space from wall at least 1.5x diameter away from the wall.

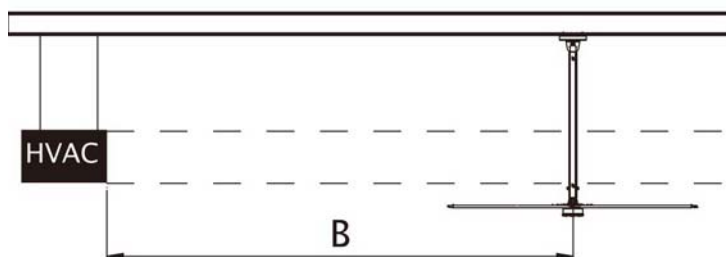
## The Placement & Clearance between fan and HVAC diffuser

- The HVLS fan position need to above the HVAC outlet



A: The distance between the center of the ceiling fan and HVAC equipment need to at least 1.5x diameter.

- The HVLS fan position need to below the HVAC outlet

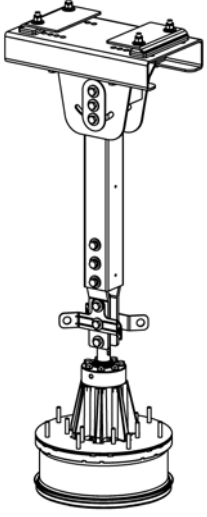
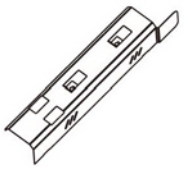
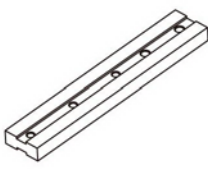

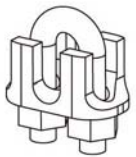
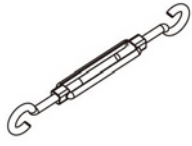

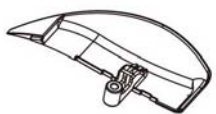
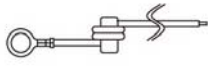
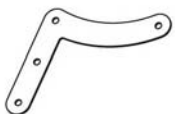


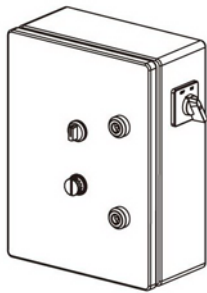

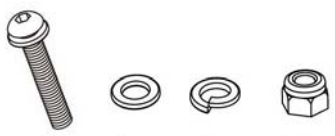

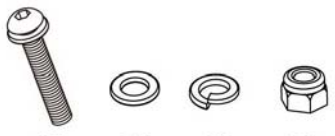
B: The distance between the center of the ceiling fan and HVAC equipment need to at least 2.5x diameter.




# Inside the box

## Main Box

|  |  |   |   |
|--|--|---|---|
| <br>(with Motor)*1 | <br>Extension Tube Shield*2 | <br>Airfoil Strut*7 | <br>Safety Cable*1   |
|  | <br>Wire Rope Clamp*20      | <br>Turnbuckle*4    | <br>Beam Clamp Set*4 |
|  | <br>Winglet*7              | <br>Earth Wire*1  | <br>Retainer*7      |
|  | Main Fan Unit  | Winglet*7   | Earth Wire*1  |

|  |   |  |
|--|---|--|
| <br>J Box*1 | <br>5<br>Extension Tube Shield (M6 16L Bolt Kit) | <br>7 7 7 7<br>Winglet(M6 40L Bolt Kit)      |
|  | <br>14 14 14<br>Airfoil Strut (M10 Bolt Kit)     | <br>21 21 21 21<br>Airfoil (M8 45L Bolt Kit) |
|  |   |  |

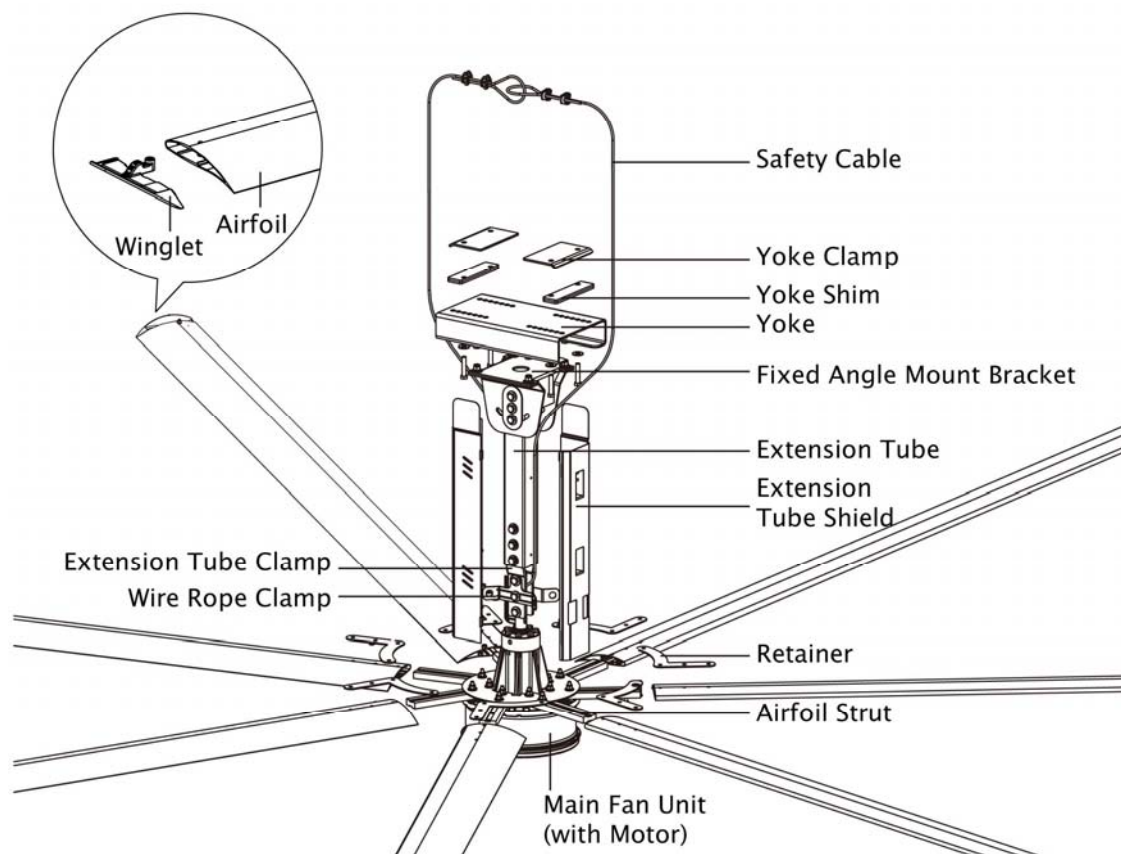
## Airfoil Box

|   |
|---|
| <br>Airfoil*7 |
|---|

## Tools Required for Installation

| Mechanical Installation  | Electrical Installation   |
|--|---|
| <ul style="list-style-type: none"> <li>● Standard wrench/socket set</li> <li>● Standard Allen wrench set</li> <li>● Hydraulic cutter</li> <li>● Galvanized wire Ø6 mm (Trim the wire length according to the situation)</li> <li>● Torque wrench 50~450 kgf.cm (For inspection purpose)</li> <li>● Electronic level</li> </ul> | <ul style="list-style-type: none"> <li>● Phillips screwdriver</li> <li>● Flat head screwdriver</li> <li>● Multimeter</li> <li>● Pair if #14 to #24 AWG strippers</li> </ul> |

## Fan Diagram

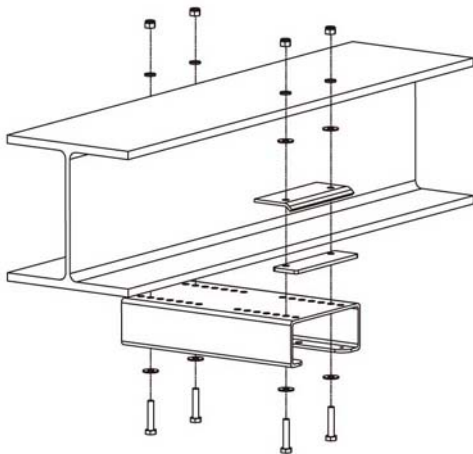
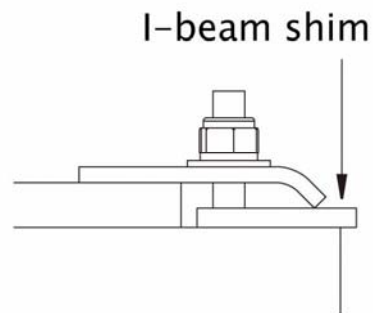
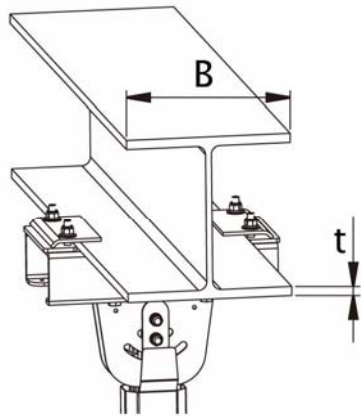


## Pre-Installation Checklist

|  |   |
|--|---|
|  | Equipped with appropriate mounting kit for roof pitch.<br><b>The fan can only be mounted to the I-beam. DO NOT mount the fan directly to a single stringer, truss shelf or light steel shelf. For installation methods not included in this manual, please consult a structural engineer.</b> |
|  | The mounting structure approved by structural engineers. The mounting system must be able to withstand the torque generated by the fan.   |
|  | Having been familiar with the functions of the safety cable. °  |
|  | For the fan installation, the fan blades should be at least 10 ft (3.05 m) above the ground. (Please refer to “The Placement & Clearance between fan and obstructions ” Page 7)   |
|  | For the fan installation, the distance between the blades and other objects/building structure should be at least 2 ft (0.6 m). (Please refer to “The Placement & Clearance between fan and obstructions ” Page 7)  |
|  | The center-to-center distance between two fans should be at least 3 times the diameter of the fans. (Please refer to “The Placement & Clearance between fan and obstructions ” Page 7)  |
|  | When installing the fan, make sure the fan is not affected by high winds from HVAC systems or large garage doors. Please refer to “The Placement & Clearance between fan and HVAC diffuser ” Page 7)  |
|  | The yoke kit size should match the I-beam. (Please refer to “I-Beam” Page 11)   |
|  | The power supply unit complies with the specification of the frequency converter, and the wires pass through the fan installation position.<br><b>For power requirements, please refer to voltage sticker on the fan.</b>   |
|  | The airfoil should not be mix up with other airfoil boxes.  |

## I-beam

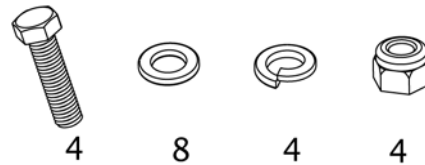
The yoke to I-beam for this HVLS fan is attached in our product. The yoke only can be used within the width of 135–375 mm (B) and thickness of 20 mm I-beam. Within the thickness of 14 mm (t), the yoke only need to use 1 yoke washer. The thickness of 14–20 mm (t), the yoke need 2 washers. We do NOT suggest to install the HVLS Fan on the fabricated I-beam, please consult with structural engineer to make sure your building is approved for fan installation.



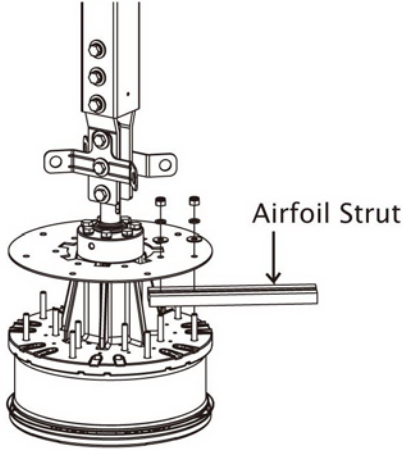

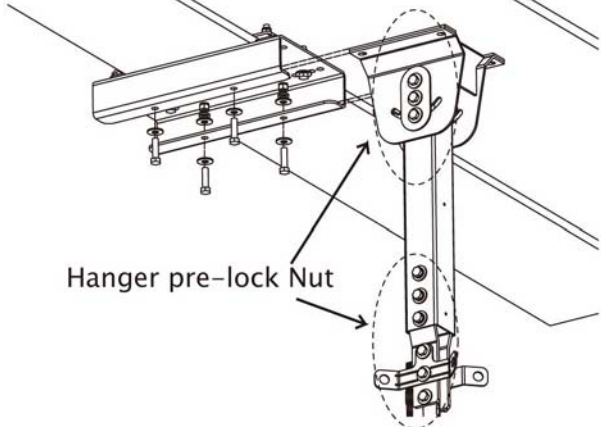
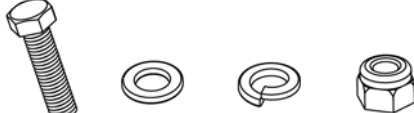
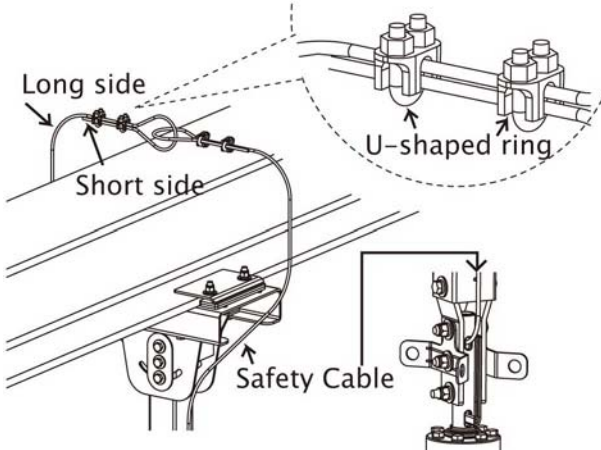

Secure the yoke to the I-beam with attached M12x60L bolt kit.

**\*Recommended Tightening Torque : 42 N.m (420 Kgf.cm).**


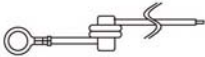

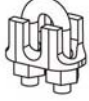
### M12 60L Bolt Kit



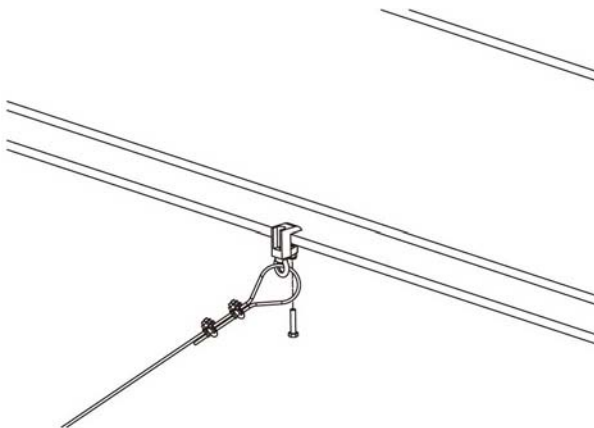
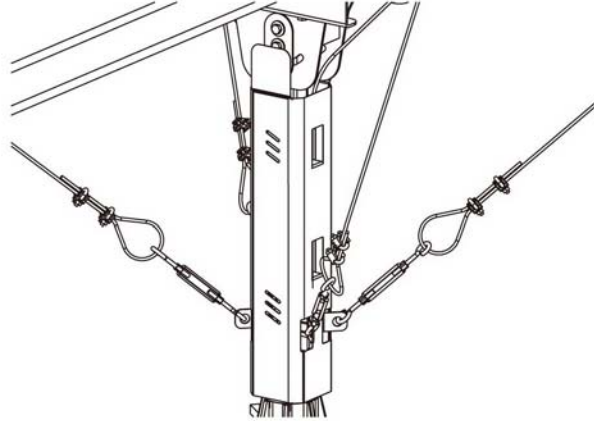

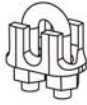
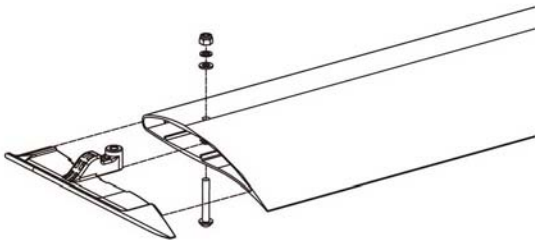




# Installation Method

|   |  |
|---|--|
|  <p>Airfoil Strut</p>  | <p>1. Install the 7 sets of airfoil strut on the motor, this step can be completed on the ground.</p> <p><b>*Recommended Tightening Torque : 24 N.m (240 Kgf.cm)</b></p> <p>M10 Bolt Kit</p>  <p>14      14      14</p>  |
|  <p>Hanger pre-lock Nut</p>   | <p>2-1 Slide the motor, main fan unit to the side of yoke, hanger on the yoke and securely fasten.</p> <p>2-2 Ensure the nuts on the hanger is tightened.</p> <p><b>*Recommended Tightening Torque : 42 N.m (420 Kgf.cm)</b></p> <p>M12 45L Bolt Kit</p>  <p>4      8      4      4</p>  |
|  <p>Long side</p> <p>Short side</p> <p>Safety Cable</p> <p>U-shaped ring</p> | <p>3-1 Route safety cable and wrap it around the I-beam.</p> <p>3-2 The safety cable must be tighten as picture shows, make sure the U-shaped ring inside the wire rope clamp is tighten to the short side.</p> <p><b>*Recommended Tightening Torque : 12 N.m (120 Kgf.cm)</b></p> <p>Safety Cable      Wire Rope Clamp</p>  <p>1      4</p> |

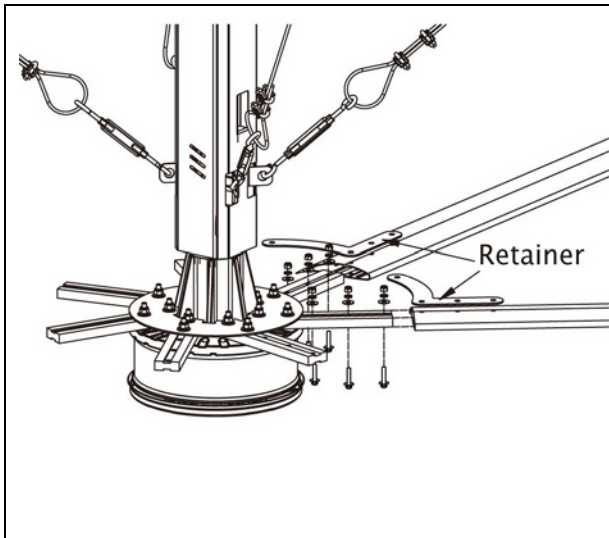
## Installing the Fan

|  |   |
|--|---|
|  | <p>4-1 Secure the earth wire with the shaft of motor.</p> <p>4-2 Connect three motor wires (u \ v \ w) and earth wire to J Box. For waterproofing purpose, please use the waterproof joint.</p> <p>4-3 Secure the extension tube shield with extension tube.</p> <p><b>*Recommended Tightening Torque : 5 N.m (50 Kgf.cm)</b></p> <p>M6 16L Bolt Kit      Earth Wire</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>5</p> </div> <div style="text-align: center;">  <p>1</p> </div> </div> |
|  | <p>5-1 Prepare 4 guy wires with <math>\varnothing 6\text{mm}</math> when installation (The Technicians need to prepare and tailor the guy wires according to the situation).</p> <p>5-2 Looking up from the bottom of ceiling fan, the angle between each wire and I-beam is recommended to be 45-degrees.</p> <p>5-3 The angle of the guy wires should be 45 degrees angle from horizontal surface.</p>  |
|  | <p>6-1 Prepare and secure the beam clamp tightly, you can finish this process ahead on the ground to speed up the efficiency.</p> <p>6-2 The technician needs to prepare the guy wire and tailor it according to the situation.</p> <p><b>*Recommended Tightening Torque : 12 N.m (120 Kgf.cm)</b></p> <p>Beam Clamp Set    Wire Rope Clamp</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>4</p> </div> <div style="text-align: center;">  <p>8</p> </div> </div>                      |

## Installing the Fan

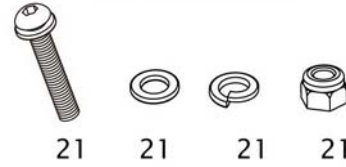
|   |   |
|---|---|
|    | <p>7-1 Attach the beam clamps to the I-beam and securely fasten to the proper position based on step 5.</p> <p>7-2 Pass the guy wire through the ring and secure with wire rope clamp.</p> <p><b>*Recommended Tightening Torque : 24 N.m (240 Kgf.cm)</b></p>   |
|   | <p>8-1 Based on step 7, tighten the guy wire with turnbuckle and wire rope clamp as picture shows.</p> <p>8-2 Adjust the turnbuckle to balance the ceiling fan.</p> <p><b>*Recommended Tightening Torque : 12 N.m (120 Kgf.cm)</b></p> <p>Turnbuckle      Wire Rope Clamp</p>   <p>4                      8</p>  |
|  | <p>9-1 Insert the winglet into the airfoil then tighten up.</p> <p>9-2 Please Process this step on the ground.</p> <p><b>*Recommended Tightening Torque : 5 N.m (50 Kgf.cm)</b></p> <p>M6 40L Bolt Kit</p>     <p>7                      7                      7                      7</p> |

## Installing the Fan



- 10-1 Insert airfoil to airfoil strut.  
10-2 Place retainer over the airfoil and spans to the next airfoil.  
**\*Recommended Tightening Torque :  
12 N.m (120 Kgf.cm)**

M8 45L Bolt Kit





## Fan Connection

### Warning

- To avoid the risk of electric shock, please make sure that the wiring is in good electrical condition and all electricity supply should be disconnected. Above wiring should be implemented by a qualified electrician.
- To avoid the risk of electric shock, please make sure that all wires are insulated properly before the fan is turn on.
- Powerful HVLS Fan warranty will not cover the equipment damage or failure caused by improper installation.
- Powerful HVLS Fan installation should follow national electrical code and standard.

### Power Requirements

This appliance connecting to AC single phase 220–240 V. Please see the voltage sticker on this HVLS fan, avoid any voltage transform in case of danger/damage during installation.

| Airfoil Dimension | Input Condition        | Rated Current |
|-------------------|------------------------|---------------|
| 13 ft (4.0 m)     | 220–240 V~ 50/60 Hz 1Ø | 6.3 amp       |
| 16 ft (5.0 m)     | 220–240 V~ 50/60 Hz 1Ø | 8.0 amp       |
| 18 ft (5.5 m)     | 220–240 V~ 50/60 Hz 1Ø | 4.4 amp       |
| 20 ft (6.1 m)     | 220–240 V~ 50/60 Hz 1Ø | 5.6 amp       |
| 24 ft (7.3 m)     | 220–240 V~ 50/60 Hz 1Ø | 8.3 amp       |

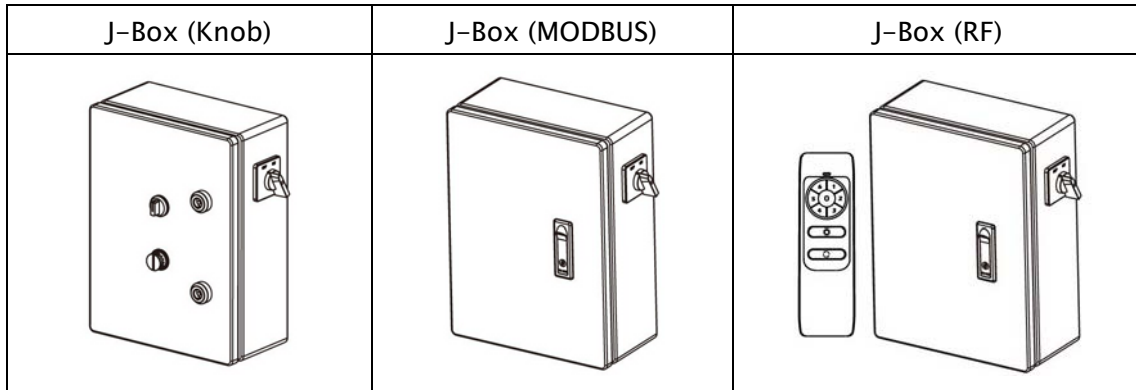
### Recommended Wire Specification

The minimum specification for the motor wire is PVC covered, single PVC insulated wire 2.0mm<sup>2</sup> / 4 core.

The minimum specification for the power wire is PVC covered, single PVC insulated wire 3.5mm<sup>2</sup> / 3 core.

# J-BOX

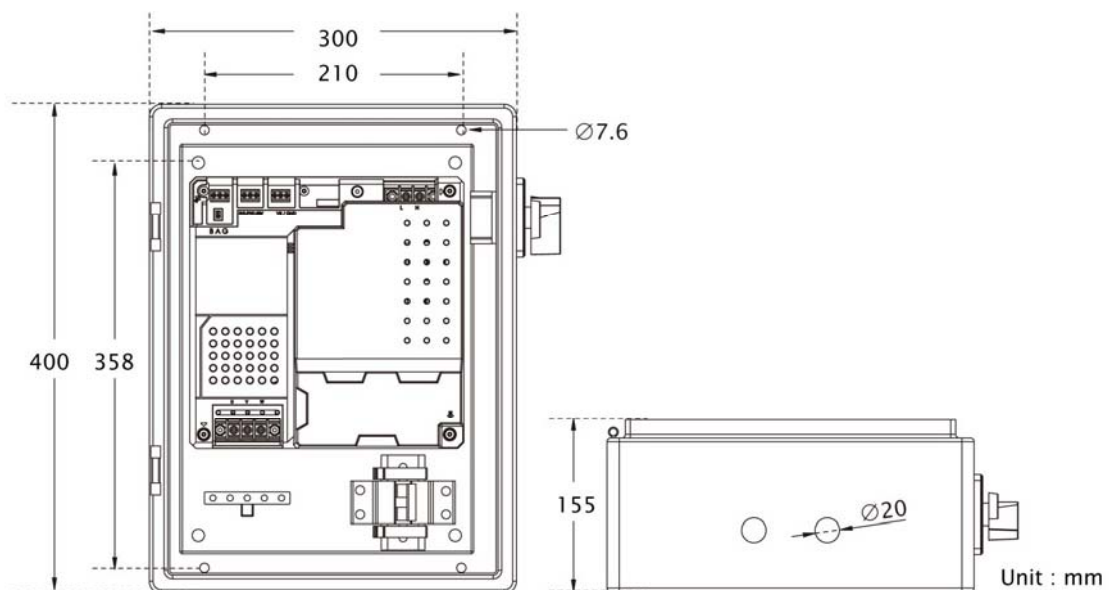
## Control Mode



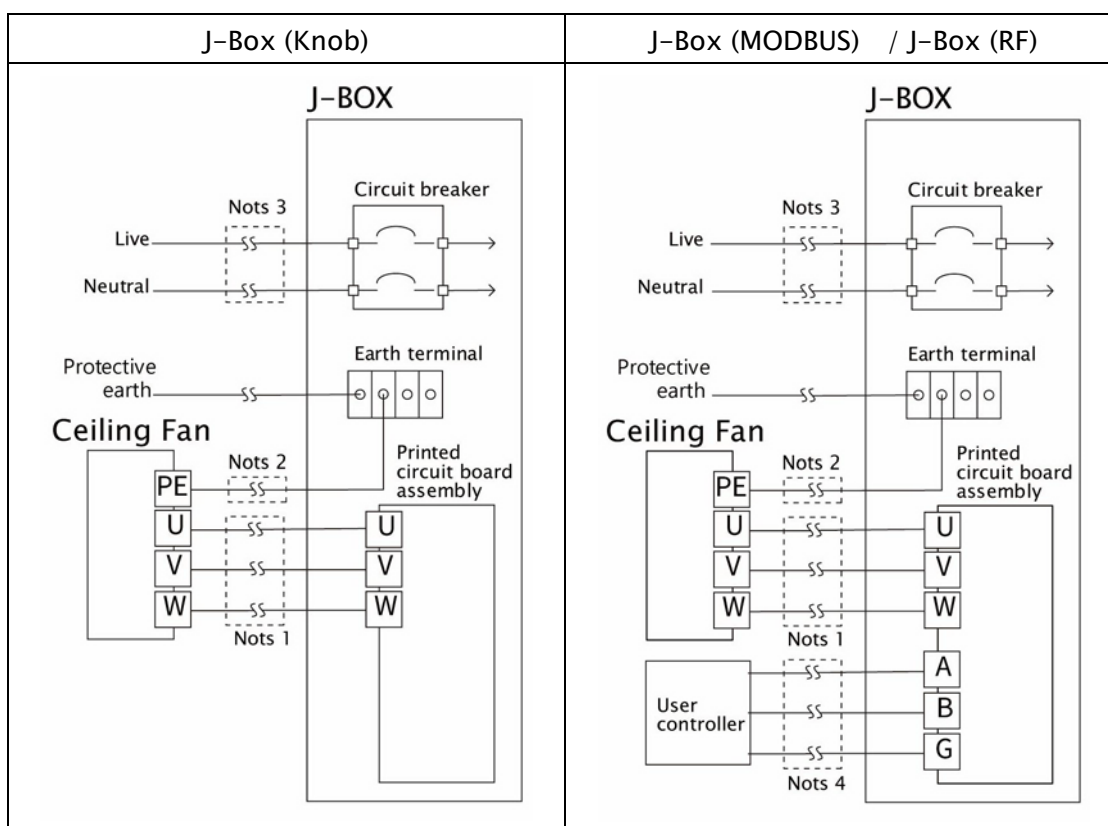
## Installation Instructions

1. Install the j-box in a location where authorized personnel can operate it.
2. J-box should be installed in a safe area to avoid unintentional damage.
3. When installing the j-box, make sure that the opening direction of panel is to the left, and do not interfere with the operation of the j box.
4. Ensure the body of the j-box is securely mounted at the selected location.
5. Before installing or repairing the j-box (and ceiling fan), ensure the breaker power distribution is switch off.
6. Do not install the j-box outdoors or in a damp place which may be near water.

## J-Box Dimensions



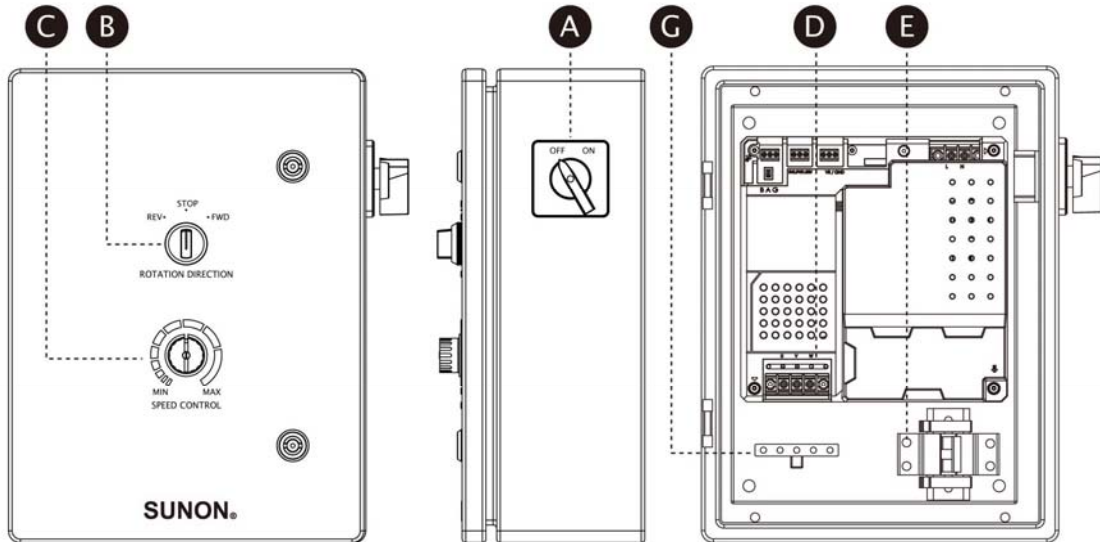
## Wiring Diagram




- Notes 1 : The length should not exceed 30M, so as to avoid poor performance.
- Notes 2 : The motor earth wire must be connected to the earth terminal on the J box to avoid high frequency electrical noise from the building wiring.
- Notes 3 : Within the rated voltage of the J box, the J box is suitable for direct connection with the input power supply, but is susceptible to rapid changes in the supply voltage; abnormal input voltage may cause damage to the J box. Power wire must NOT be close to the motor wire (U,V,W), in order avoid electromagnetic coupling which cause capacitance effect.
- Notes 4: Driving HVLS fan, please connect RS-485 communication port with customer devices for the MODBUS version. In addition, this wiring doesn't apply for Remote Control version.

# J-Box (Knob)

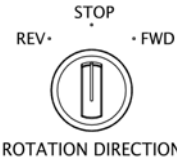
## Panel Description



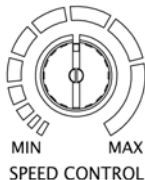
### A. Power Switch

| Name | Status | Function         |  |
|------|--------|------------------|---|
| OFF  | Input  | Power OFF status |   |
| ON   | Input  | Power ON status  |   |


### B. Rotation Direction

| Name | Status | Function |  |
|------|--------|----------|---|
| REV  | Input  | Reverse  |   |
| STOP | Input  | Stop     |   |
| FWD  | Input  | Forward  |   |

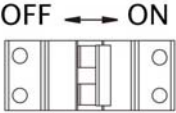
### C. Speed Control

| Name | Status | Function   |  |
|------|--------|------------|---|
| MIN  | Input  | Speed down |   |
| MAX  | Input  | Speed up   |   |

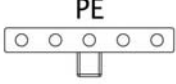
#### D.Motor Drive Interface

| Name | Status | Function                                      |  |
|------|--------|---|---|
| U    | Output | Motor drive, connect to red wire from motor   |   |
| V    | Output | Motor drive, connect to white wire from motor |   |
| W    | Output | Motor drive, connect to black wire from motor |   |

#### E.Break

| Name | Status | Function          |  |
|------|--------|-------------------|---|
| L    | Input  | Power supply      |   |
| N    | Input  | Neutral conductor |   |

#### G.Earth terminal

| Name | Status | Function         |  |
|------|--------|------------------|---|
| PE   | Input  | Protective earth |   |

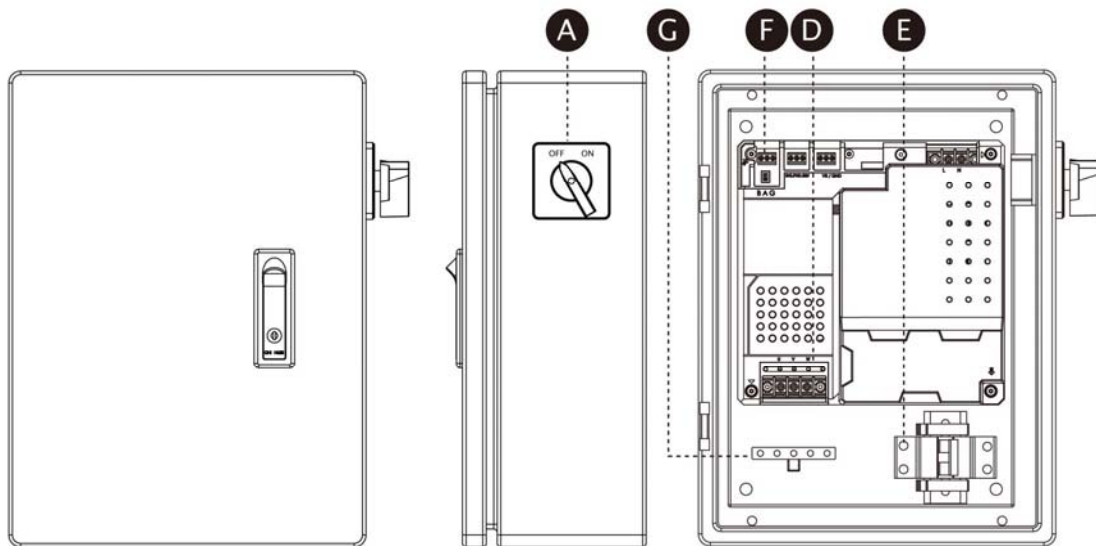
# J-Box (MODBUS) / J-Box (RF)

## Connection Setting

|                |                        |
|----------------|------------------------|
| Protocol       | MODBUS/RTU over MODBUS |
| Baud Rate(bps) | 9600                   |
| Data bits      | 8                      |
| Parity bits    | none                   |
| Stop bits      | 1                      |

For command table, please contact your service agent.

## Panel Description



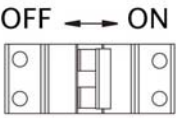
### A.Power Switch

| Name | Status | Function         |  |
|------|--------|------------------|--|
| OFF  | Input  | Power OFF status |  |
| ON   | Input  | Power ON status  |  |

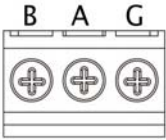
### D.Motor Drive Interface

| Name | Status | Function                                      |  |
|------|--------|---|--|
| U    | Output | Motor drive, connect to red wire from motor   |  |
| V    | Output | Motor drive, connect to white wire from motor |  |
| W    | Output | Motor drive, connect to black wire from motor |  |

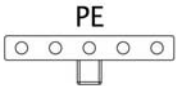
### E.Break

| Name | Status | Function          |  |
|------|--------|-------------------|---|
| L    | Input  | Power supply      |   |
| N    | Input  | Neutral conductor |   |



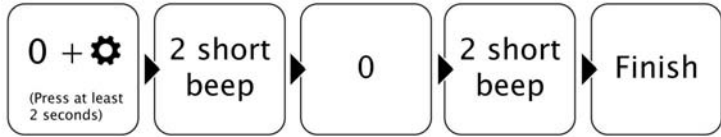
### F.MODBUS Interface

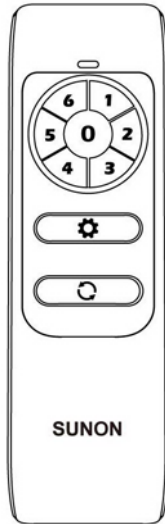
| Name | Status        | Function  |  |
|------|---------------|---|---|
| B    | Input/ Output | Receiver non-inverting input on the bus side, electrically isolated |   |
| A    | Input/ Output | Receiver inverting input on the bus side, electrically isolated     |   |
| G    | --            | Ground, electrically isolated                                       |   |

### G.Earth Terminal

| Name | Status | Function         |  |
|------|--------|------------------|---|
| PE   | Input  | Protective earth |   |

## RF Remote Control

| BUTTON   | FUNCTION  |
|--|---|
| 1-6  | Press each button to turn on the fan then you can set up the air volume. The number stands for air volume from low to high in numerical order ( 1 lowest to 6 highest volume). Press each button and the fan will give a short beep, you activate the fan successfully. |
| 0  | Press the button to turn off the fan, it will give a short beep after the fan receive successfully.   |
|   | Press the button to switch the fan direction, it will give 2 beeps after the fan receive successfully.  |
| 0 +   | Press this two button at same time to enter pairing process. After pairing process is completed, direction of the fan will be initialized to ventilation (Downward airflow).  |
| <p><b>Remote Control Pairing</b></p> <ul style="list-style-type: none"> <li>- Only needed for first time setup</li> <li>- Make sure the wiring of ceiling fan installed by above instructions and turn on the power.</li> <li>- After turn on the power, it must enter the pairing process in one minute.</li> <li>- Please follow the pairing steps as below.</li> </ul> <div style="text-align: center;">  </div> <p>If you fail to pairing, please turn off the power and restart above process 5 minutes later.<br/>Please repeat remote control paring process if the Remote Control or the drive inside the JBOX is changed.</p> |   |



### Battery Installation

- Remove the battery cover and install two AAA batteries.
- Remove the batteries when not used a long time. Please recycle the used batteries.
- 

### Operation precautions

1. Make sure the fan blades are standstill before you turn on the fan every time.
2. Press “0 “to turn off the fan, DO NOT touch the fan and fan blade once its standstill.
3. Once you press any buttons, the fan will receive the final order and spin direction. DO NOT touch the fan and blades during the procedure.



## Troubleshooting

- ▲ **WARNING** - Any fan component replacement, removal or disconnection of a safety device, all safety device must be reinstalled as formerly setting.
- ▲ **WARNING**- Please use this unit accordance with the manufacturer’s instructions. If you have any question, please contact the manufacturer.
- ▲ **WARNING**- Turn the power off before maintaining or cleaning unit in case the power from being accidentally switched.

## General Troubleshooting

Issues can be resolved before reaching out the service. Refer to the tips below before contacting Customer Service.

| Symptom   | Possible Solutions   |
|---|--|
| Abnormal sound from the fan.<br>Airfoil noise occurs when airfoils are not tightened to the specified torque. | Turn off the fan power, and then tighten the airfoil fasteners to 50 kgf.cm. If the abnormal sound still occurs, please confirm if the airfoils are not contacting each other. If they are, please contact Customer Service.   |
| The fan is standstill.  | Verify the following :<br><ol style="list-style-type: none"> <li>1. Power supply is fully functional.</li> <li>2. Press the remote control, make sure all buttons and light signals are functional.</li> <li>3. Verify the 2 short beeps after power set-up is functional.</li> <li>4. Please make sure if the pairing of Remote Control is successful.</li> <li>5. If the fan still does not start, please contact Customer Service.</li> </ol> |

## Maintenance

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

1. Turn the power off before maintaining or cleaning unit in case the power from being accidentally switched.
2. Any fan component replacement, removal or disconnection of a safety device, all safety device must be reinstalled as formerly setting.
3. Please schedule annual maintenance or take few minute per week to ensure the fan's safety and efficient operation.
4. Ensure the fan spin direction is proper, the ceiling fan should rotate in a counterclockwise direction (View from the ground).
5. Please use a gentle cleaner or degreasing agent when dusting the motor. **DO NOT** use chlorine-based cleaning products in case the toxic/fatal fumes exposure.
6. Check all the connections such as safety cables, mounting parts is tighten. Also make sure the mounting system is securely tighten. Any wobbling problems should not happen when you switch on the fan. If any wobbling problem is noticed, make sure the mounting structure is strong enough to support the fan and the wire, make sure you used and tighten your wires, if the wires were not installed, SUNON suggests you to do the wire installation, please contact Customer Service if wobbling persists.
7. If the screws are loosened during maintenance, please re-apply the anaerobic adhesive.
8. If you have any questions, please contact Customer Service.

**WARNING - Please DON'T use the damaged or lacking fan components, please contact Customer Service.**

## Powerful HVLS Fan series 10 Model List

### Taiwan

| Airfoil Dimension | J-Box (Knob)    | J-Box (MODBUS ) | J-Box (RF)      |
|-------------------|-----------------|-----------------|-----------------|
| 13 ft (4.0 m)     | BCTG1CB157A-01S | BCTG1CC157A-01S | BCTG1CA157A-01S |
| 16 ft (5.0 m)     | BCTG1CB197A-01S | BCTG1CC197A-01S | BCTG1CA197A-01S |
| 18 ft (5.5 m)     | BCTF1CB216A-01S | BCTF1CC216A-01S | BCTF1CA216A-01S |
| 20 ft (6.1 m)     | BCTF1CB240A-01S | BCTF1CC240A-01S | BCTF1CA240A-01S |
| 24 ft (7.3 m)     | BCTF1CB288A-01S | BCTF1CC288A-01S | BCTF1CA288A-01S |

### Europe

| Airfoil Dimension | J-Box (Knob)    | J-Box (MODBUS ) | J-Box (RF)      |
|-------------------|-----------------|-----------------|-----------------|
| 13 ft (4.0 m)     | BCEG1CB157A-01S | BCEG1CC157A-01S | BCEG1CA157A-01S |
| 16 ft (5.0 m)     | BCEG1CB197A-01S | BCEG1CC197A-01S | BCEG1CA197A-01S |
| 18 ft (5.5 m)     | BCEF1CB216A-01S | BCEF1CC216A-01S | BCEF1CA216A-01S |
| 20 ft (6.1 m)     | BCEF1CB240A-01S | BCEF1CC240A-01S | BCEF1CA240A-01S |
| 24 ft (7.3 m)     | BCEF1CB288A-01S | BCEF1CC288A-01S | BCEF1CA288A-01S |

### All other regions

| Airfoil Dimension | J-Box (Knob)    | J-Box (MODBUS ) | J-Box (RF)      |
|-------------------|-----------------|-----------------|-----------------|
| 13 ft (4.0 m)     | BCNG1CB157A-01S | BCNG1CC157A-01S | BCNG1CA157A-01S |
| 16 ft (5.0 m)     | BCNG1CB197A-01S | BCNG1CC197A-01S | BCNG1CA197A-01S |
| 18 ft (5.5 m)     | BCNF1CB216A-01S | BCNF1CC216A-01S | BCNF1CA216A-01S |
| 20 ft (6.1 m)     | BCNF1CB240A-01S | BCNF1CC240A-01S | BCNF1CA240A-01S |
| 24 ft (7.3 m)     | BCNF1CB288A-01S | BCNF1CC288A-01S | BCNF1CA288A-01S |

# Warranty

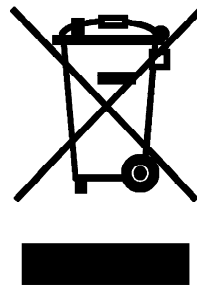
|                  |   |
|------------------|---|
| Purchase Date    | DD MM YY  |
| Serial Number    |   |
| Retailer's Stamp | <p>We offer 1 year warranty of our product starting from your purchase date.</p> <p>The following scenarios are excluded from our warranty service. Repairing request will be accepted, but the customer will be charge for cost and service fee.</p> <ol style="list-style-type: none"> <li>1. Damage of improper installation.</li> <li>2. Damage of retrofit.</li> <li>3. Damage of force majeure: Nature, actions of third parties</li> <li>4. Damage of misuse, abuse, accident.</li> <li>5. Damage of improper transportation.</li> <li>6. The warranty document, purchase date or purchase confirmation (like invoice) from authorized dealer cannot be provided by the customer.</li> </ol> |

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.



## **SUNON®**

Sunonwealth Electric Machine Industry Co., Ltd.  
80673 No. 30, Ln. 296, Xinya Rd., Qianzhen Dist.,  
Kaohsiung City 806, Taiwan (R.O.C.)  
e-mail : [sunon@sunon.com](mailto:sunon@sunon.com)  
[www.sunon.com](http://www.sunon.com)

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