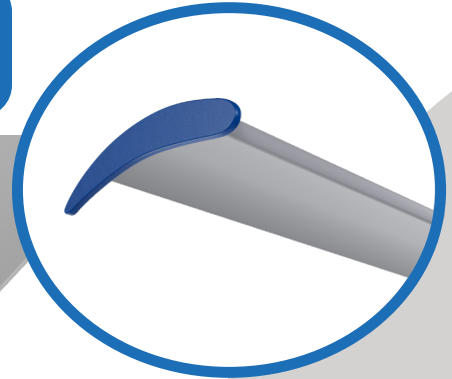


MRCOOL® Cool Blade Industrial HVLS Fan

Installation & Owner's Manual

MODELS:
MCFAN16PBGR
MCFAN24XBGR



Read this manual carefully before installation and keep it where the operator can easily find it for future reference.

Due to updates and constantly improving performance, the information and instructions within this manual are subject to change without notice.

Version Date: September 17, 2025
Please visit www.mrcool.com/documentation
to ensure you have the latest version of this manual.



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Safety Precautions

Read Before Using

Incorrect usage may cause serious damage or injury.

The symbols below are used throughout this manual to indicate instructions that should be followed closely or actions that should be avoided to prevent death, injury, and/or property damage.


WARNING

Indicates the possibility of personal injury or loss of life.


CAUTION

Indicates the possibility of property damage or serious consequences.

 WARNING

- 1. Read this manual carefully before installation in order to prevent potential damage or injury.
- 2. Nonprofessionals are not allowed to repair, inspect, or replace parts.
- 3. In order to reduce the risk of electric shock, do not carry out wiring work within 1 minute of switching the power on or off. (The capacitor will also retain power for a short time after power is switched off.)
- 4. When replacing or moving the power supply, cut off the power and wait for all indicators to be off for 1 minute before operation.
- 5. If there is unusual oscillating movement, immediately stop the ceiling fan and contact MRCOOL®, or a qualified service professional. The way the fan is attached to the ceiling, by hooks or other devices, must be fixed with strength enough to withstand 4 times the weight of the ceiling fan.

 CAUTION

- 1. Use the correct controller according to the product model. Do not use an unmatched controller, as this may cause damage to the motor or controller.
- 2. Confirm whether the power is connected according to the marks, and ensure there are no obstacles within the operating range of the product before operation.
- 3. After operation, check whether the rotation direction of the product is correct (clockwise, when viewed from below).
- 4. This product should not be operated in a freezing, corrosive, explosive, or severely dusty environment.
- 5. The installation and maintenance must be carried out by professionally trained or experienced personnel with electrical certifications.

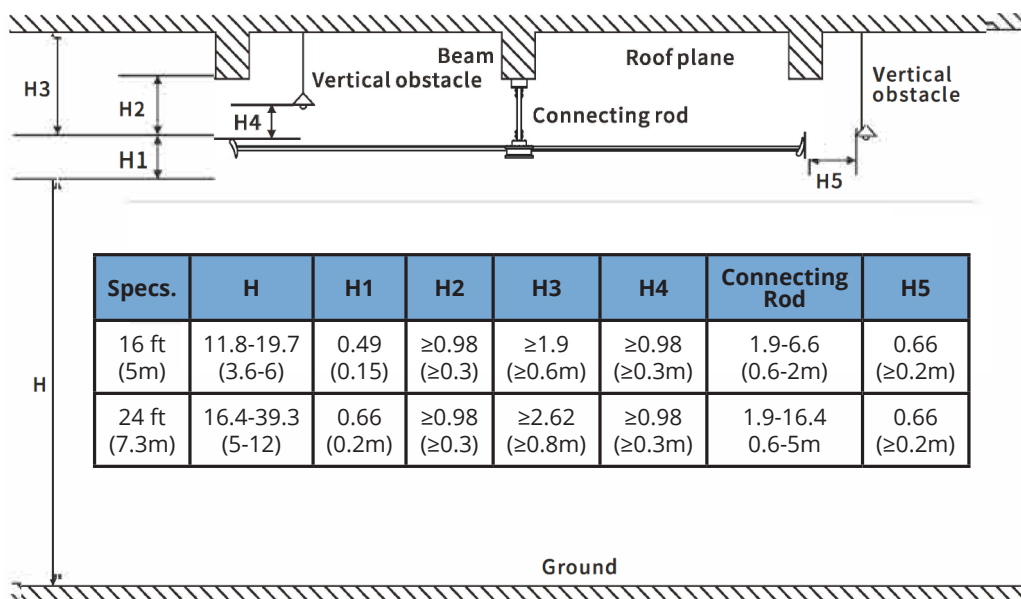
2.1 Product Summary

The MRCOOL® Industrial HVLS fan, with permanent magnet frequency conversion, is specifically developed to save energy, reduce consumption, and create a comfortable work environment. The independently-designed permanent magnet motor delivers a small, lightweight size, high efficiency, low noise levels, and variable frequency speed regulation. This new type of ceiling fan is widely used for ventilation and cooling in industrial plants, logistics warehouses, waiting rooms, exhibition halls, gyms, and supermarkets. The fan can produce a large amount of airflow to create effective overall air circulation.

2.2 Technical Parameters

	MCFAN16PBGR	MCFAN24XBGR
Diameter-ft (m)	16 (5)	24 (7.3)
Power (kW)	0.75	1.5
Voltage (V)	1PH 220-240	1PH 220-240
Frequency (Hz)	50/60	50/60
Air Volume (m³/min)	10000	15500
Rotating Speed (rpm)	80	60
Number of Blades (Pcs)	5	6
Noise (dB(A))	38	38
Motor Weight (kg)	22	42
Fan Weight (kg)	62	113
Coverage Area-ft² (m²)	1640 (500)	5577 (1700)
Mounting Bracket	I-beam/square steel/concrete	I-beam/square steel/concrete

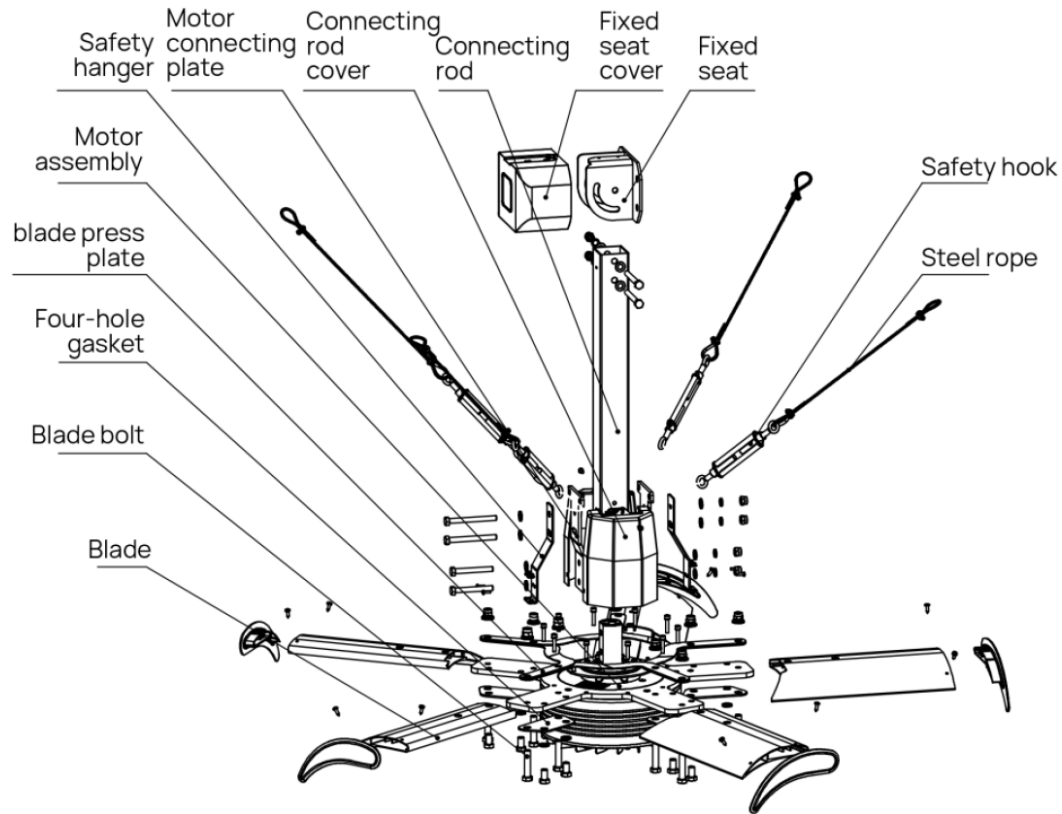
2.3 Installation Data



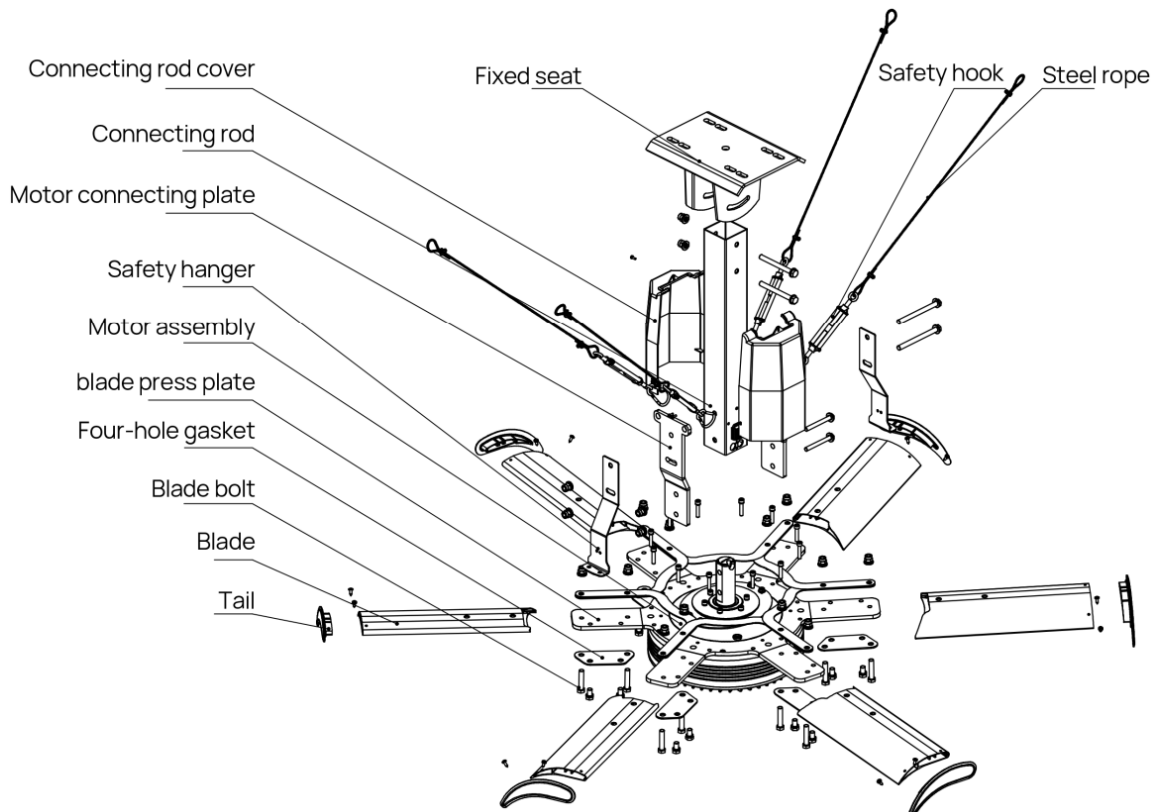
2 UNIT OVERVIEW

2.4 Exploded View Unit Diagrams

MCFAN16PBGR



MCFAN24XBGR



2.5 Packing Lists

MCFAN16PBGR

General Accessories	
Name	Quantity
Motor	1
Controller	1
M12x50 Hex Bolt (Full Thread)	10
M12x16 Hex Bolt (Full Thread)	10
M12 Hex Nylon Nut	10
Φ12 Standard Spring Washer	20
Four-Hole Gasket	5
Blade	5
Blade Press Plate	5
Tail Wing	5
M5*10 Self-Tapping Screw	10
60*60 Connecting Rod	1
6-6 Quick-Connect Terminal	1
M3*16 Philip's Head Screw	2
Connecting Rod Cover	2
M4*12 Cross Stainless Steel Screw	6
Motor Connecting Plate	2
Safety Hanger	2
M10x100 Hex Bolt	4
M10x80 Hex Bolt	2
Φ10 Flat Washer	12
Φ10 Spring Washer	6
M10 Hex Nylon Nut	6
Φ6 Steel Rope	1
M6 Slide Retainer	18
M8 Turnbuckles Hook	4
Locking Pin	4
16AWG*4 Cable	20
18AWG*2 Cable	20

Concrete Structure	
Name	Quantity
RC Structure	1
Fixed Base Cover	1
M12x100 Expansion Screw	4
M12x100 Expansion Screw Hook	2
4*10 Knurled Hand Screw	2

I-Shaped Steel Structure	
Name	Quantity
Press Plate	2
M10X60 Hex Bolt (Full Thread)	4
Ø10 Large Washer	8
Ø10 Spring Washer	4
M10 Hex Nylon Nut	4

Square Steel Structure	
Name	Quantity
Press Plate	1
M10X150 Hex Bolt (Full Thread)	4
Ø10 Large Washer	8
Ø10 Spring Washer	4
M10 Hex Nylon Nut	4

Installation Tools	
Name	Quantity
13-16 Open End Wrench	2
14-17 Open End Wrench	2
Cross Screwdriver	1
Slotted Screwdriver	1
5mm Inner Hex Spanner	1

2 UNIT OVERVIEW

MCFAN24XBGR

General Accessories	
Name	Quantity
Motor	1
Controller	1
M12x50 Hex Bolt (Full Thread)	12
M12x16 Hex Bolt (Full Thread)	12
M12 Hex Nylon Nut	12
Φ12 Standard Spring Washer	24
Four-Hole Gasket	6
Blade	6
Blade Press Plate	6
Tail Wing	6
M5*10 Self-Tapping Screw	12
80*80 Connecting Rod	1
6-6 Quick-Connect Terminal	1
M3*16 Philip's Head Screw	2
Connecting Rod Cover	2
M4*12 Cross Stainless Steel Screw	6
Motor Connecting Plate	2
Safety Hanger	2
M12x140 Hex Bolt	2
M12x130 Hex Bolt	2
M12x100 Hex Bolt	2
Φ12 Flat Washer	12
Φ12 Spring Washer	6
M12 Hex Nylon Nut	6
Φ6 Steel Rope	1
M6 Slide Retainer	18
M10 Turnbuckles Hook	4
Locking Pin	4
14AWG*4 Cable	30
18AWG*2 Cable	30

Concrete Structure	
Name	Quantity
L-Plate 2pcs/set	2
M12X45 Hex Bolt (full thread)	4
Ø12 Large Washer	8
Ø12 Spring Washer	4
M12 Hex Nylon Nut	4
M12x100 Expansion Screw	10
M12x100 Expansion Screw Hook	4

I-Shaped Steel Structure	
Name	Quantity
Press Plate	2
M12X60 Hex Bolt (Full Thread)	4
Ø12 Large Washer	8
Ø12 Spring Washer	4
M12 Hex Nylon Nut	4

Square Steel Structure	
Name	Quantity
Press Plate	1
M12x160 Hex Bolt (Full Thread)	4
Ø12 Large Washer	8
Ø12 Spring Washer	4
M12 Hex Nylon Nut	4

Installation Tools	
Name	Quantity
13-16 Open End Wrench	2
14-17 Open End Wrench	2
Cross Screwdriver	1
Slotted Screwdriver	1
5mm Inner Hex Spanner	1

3 16-FT FAN INSTALLATION

- 16 ft. Fan Installation Steps

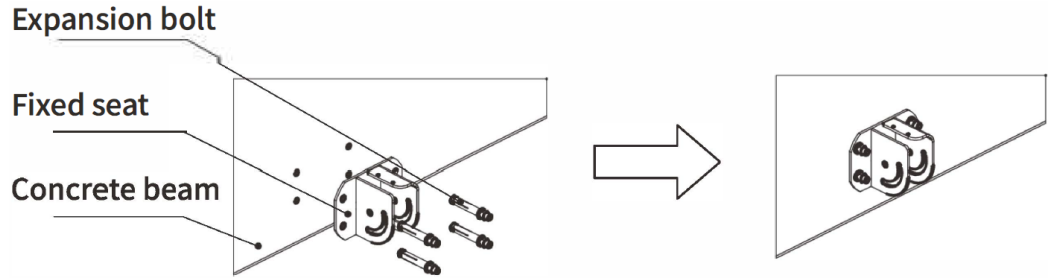
Step 1:

Determine the installation position of the fan, and mark it with the fixed seat. Drill the mounting hole with a 12mm drill bit (hole depth >3.15" (80mm)), then install the M10X80 expansion bolts to secure the fixed seat.

Accessories Needed:	
Name	Qty.
Fixed Seat	1
Expansion Bolt	4

NOTE

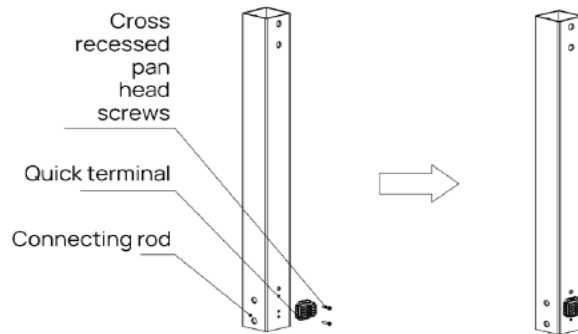
Install expansion bolts securely.



Step 2:

Install the quick terminal on the connecting rod, then fasten the screw and lock it tightly.

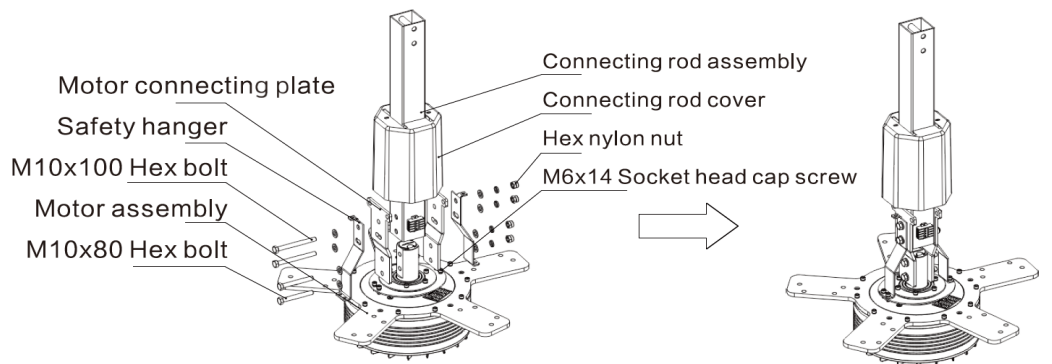
Accessories Needed:	
Name	Qty.
Connecting Rod	1
Quick Terminal	1
Cross Recessed Pan Head Screws M3x16	2



Step 3:

Install the connecting rod on the motor and twist the screw without tightening.

Accessories Needed:	
Name	Qty.
Motor Assembly	1
Connecting Rod Assembly	1
Motor Connecting Plate	2
Safety Hanger	2
Connecting Rod Cover	1
M5X10 Slotted Screw	2
M6X14 Hex Bolt	4
M10X100 Hex Bolt	2
M10X80 Hex Bolt	2
M10 Hex Nylon Nut	4
Ø10 Large Washer	8
Ø10 Spring Washer	4



NOTE

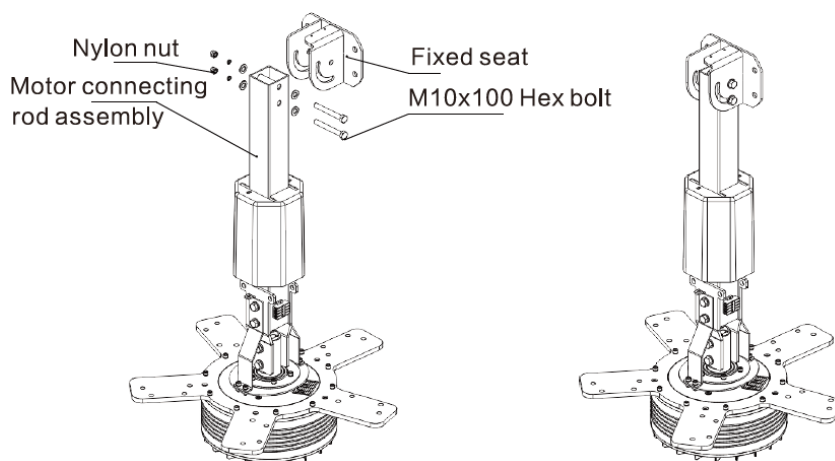
Ensure the blade bracket on the motor assembly is installed in the correct direction. (See the figure above.)

3 16-FT FAN INSTALLATION

Step 4:

Install the connecting rod motor assembly on the fixed seat and screw it without tightening.

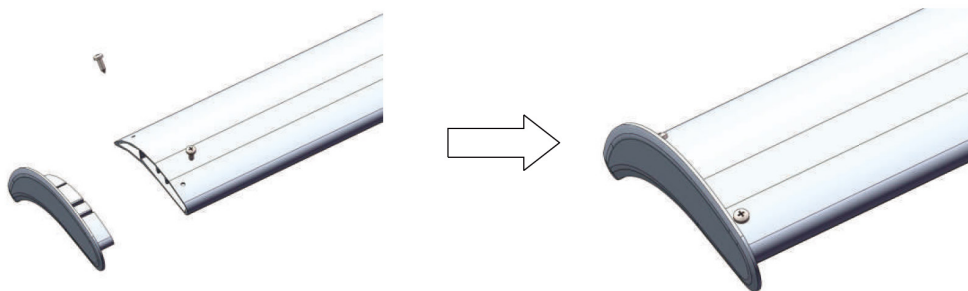
Accessories Needed:	
Name	Qty.
Motor Connecting Rod Assembly	1
M10X100 Hex Bolt	2
M10 Hex Nylon Nut	2
Ø10 Large Washer	4
Ø Spring Washer	2



Step 5:

Install the blade tail on the blade and lock it.

Accessories Needed:	
Name	Qty.
Blade	5
Tail plane	5
ST4.8X10 Self Tapping Screw	10



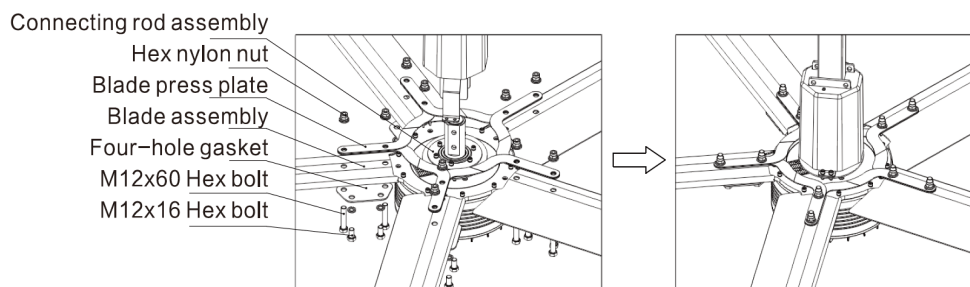
Step 6:

Install the tail blade assembly on the motor. Install the screws and pull the blade outward from the center of the motor. Install the blade screws without tightening.

Accessories Needed:	
Name	Qty.
Blade Assembly	5
Four-Hole Gasket	5
Blade Press Plate	5
M12X50Hex Bolt (Full Thread)	10
M12X16 Hex Bolt (Full Thread)	10
M12 Hex Nylon Nut	10
Ø12 Spring Washer	20

NOTE

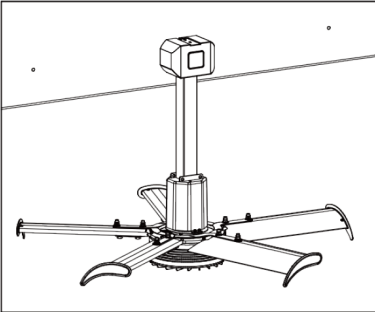
Before tightening the fan blade screws, pull the blade outward from the center of the motor. Adjust the levelness of the motor and the verticality of the connecting rod before tightening the screws and check whether all the screws are tightened.



3 16-FT FAN INSTALLATION

Step 7:

Adjust the levelness of the motor and the verticality of the connecting rod, tighten the connecting rod and blade screws, install the fixed base cover and tighten the screws.



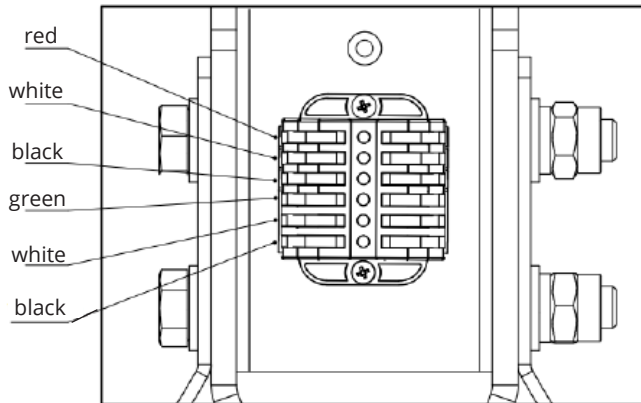
NOTE

Before tightening the fan blade screws, pull the blade outward from the center of the motor. Adjust the levelness of the motor and the verticality of the connecting rod before tightening the screws and check whether all the screws are tightened.

Step 8:

Arrange the power cable from the ceiling fan to the controller and insert the motor lead wire and the fan power cable into the wiring clip: From bottom to top red, white, black, green, white, black.

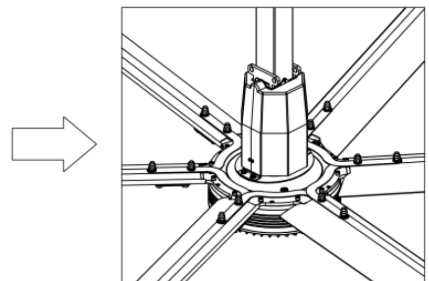
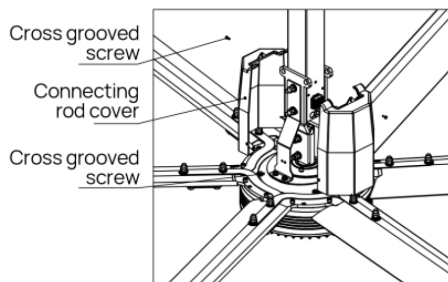
Accessories Needed:		
Name	Qty.	
Cable 12AWGX4X20m	1	
Cable 18AWGX2X20M	1	



Step 9:

Install the connecting rod cover, screw and lock it as shown.

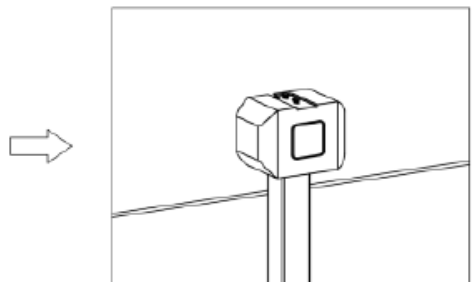
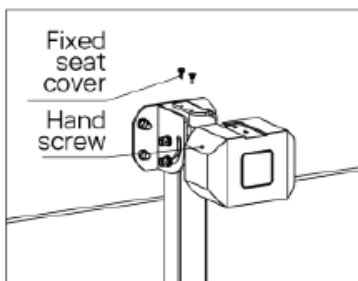
Accessories Needed:		
Name	Qty.	
Connecting Rod Cover	2	
M4X12 Cross Screw	6	



Step 10:

Install the fixed seat cover as shown and lock it with the head screw.

Accessories Needed:		
Name	Qty.	
Fixed Seat Cover	1	
Hand Screw M4	2	



3 16-FT FAN INSTALLATION

Step 11:

Determine the position of the expansion bolt hook, drill the mounting hole with a 14mm drill bit (hole depth > 80mm), install the M12X100 expansion bolt hook with the opening upward and tighten the expansion screw hook.

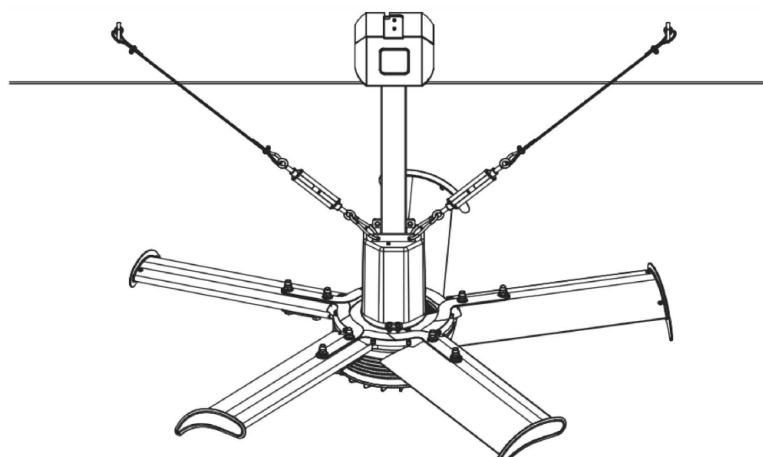
Accessories Needed:	
Name	Qty.
Expansion Bolt Hook	4



Step 12:

Fix the steel rope on the elastic hook with the steel rope clamp and fix the other end on the steel rope hook. Install the hook on the connecting plate of the ceiling fan motor. Once the end of the steel rope is fixed on the expansion screw hook with the steel rope clamp, adjust the tension of the steel rope with the elastic hook (until the steel rope is just straight).

Accessories Needed:	
Name	Qty.
M6 Steel Rope Clamp	8
30m Steel Rope	1
Elastic Hook	2
Steel Rope Hook	4



NOTE

The included angle between the steel rope and the connecting rod is greater than 30° and less than 45°. The steel rope clamp should be securely installed and the steel rope can be adjusted by the elastic hook.

3 16-FT FAN INSTALLATION

Step 13:

Select the location to install the controller. Connect the motor and the main power to the controller as required. Check whether there are obstacles that would interfere with operation. Control the fan according to the operation manual of the controller.

NOTE

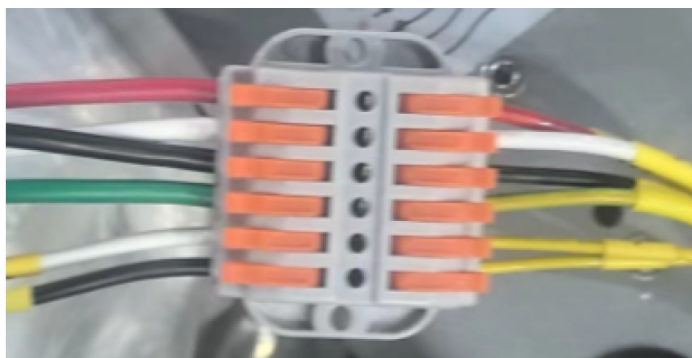
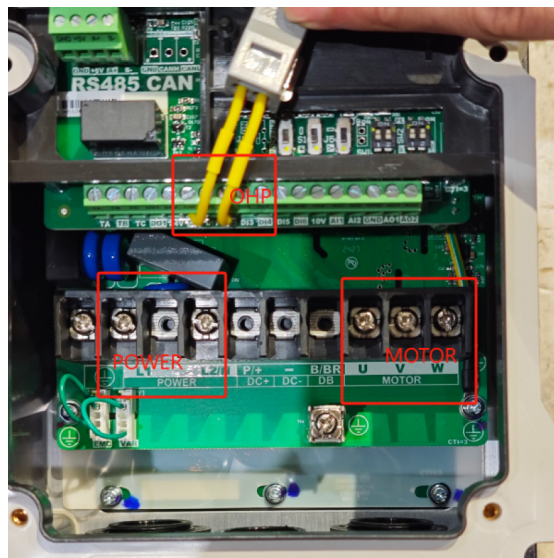
The phase sequence of the motor connected to the controller cannot be out of order.

Accessories Needed:

Name	Qty.
Permanent Magnet Motor Controller	1
Rubber Sheathed Cable	2

NOTE

Do not connect the main power directly to the ceiling fan. Confirm whether the power voltage matches the controller voltage. After connecting the wire, pull to verify that the wire is secure. When connecting the fast terminal, the power cord should be peeled 13/16" (10mm) and inserted into the card slot at a depth of 5/8" (17mm).



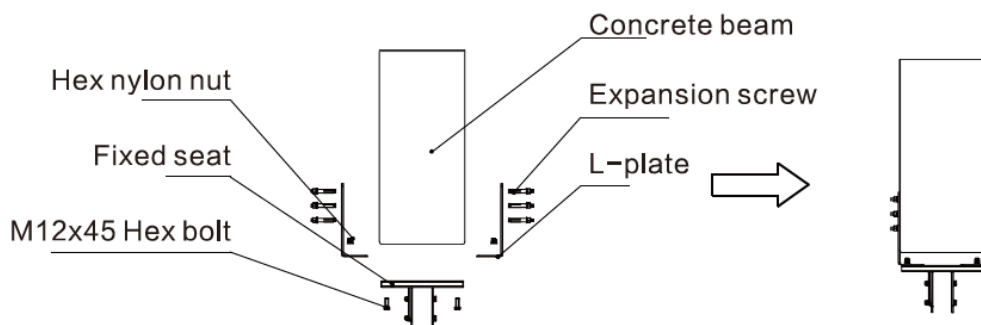
4 24-FT FAN INSTALLATION

- 24 ft. Fan Installation Steps

Step 1:

Determine the installation position of the ceiling fan, and mark it with the fixed seat L-plate. Drill the mounting hole with a 14mm drill bit (hole depth >80mm), install the M12X100 expansion screw, install the L-plate on the expansion screw, adjust for levelness of the L-plate, tighten the expansion screw and install the fixed seat under the L-plate and tighten it.

Accessories Needed:	
Name	Qty.
Fixed Seat	1
L-Plate	2
M12X45 Hex Bolt (Full Thread)	4
Ø12 Large Washer	8
Ø12 Spring Washer	4
M12 Hex Nylon Nut	4
M12X100 Expansion Screw	10



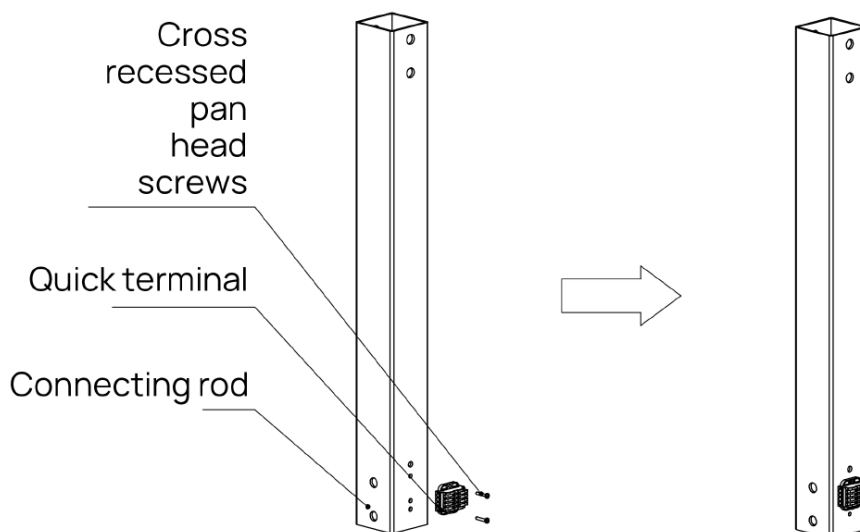
NOTE

Both the L-plate and the fixed seat shall be installed horizontally and symmetrically at both ends.

Step 2:

Install the quick terminal on the connecting rod, screw and lock it tightly.

Accessories Needed:	
Name	Qty.
Connecting Rod	1
Quick Terminal	1
Cross Recessed Pan Head Screws M3x16	2

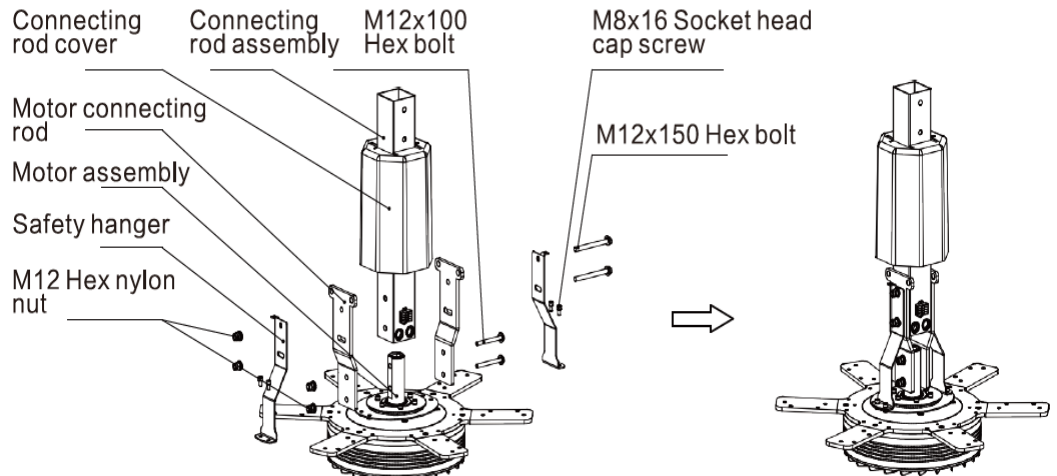


4 24-FT FAN INSTALLATION

Step 3:

Install the connecting rod on the motor, install the connecting rod screws and safety hanger screws, and screw them without tightening fully.

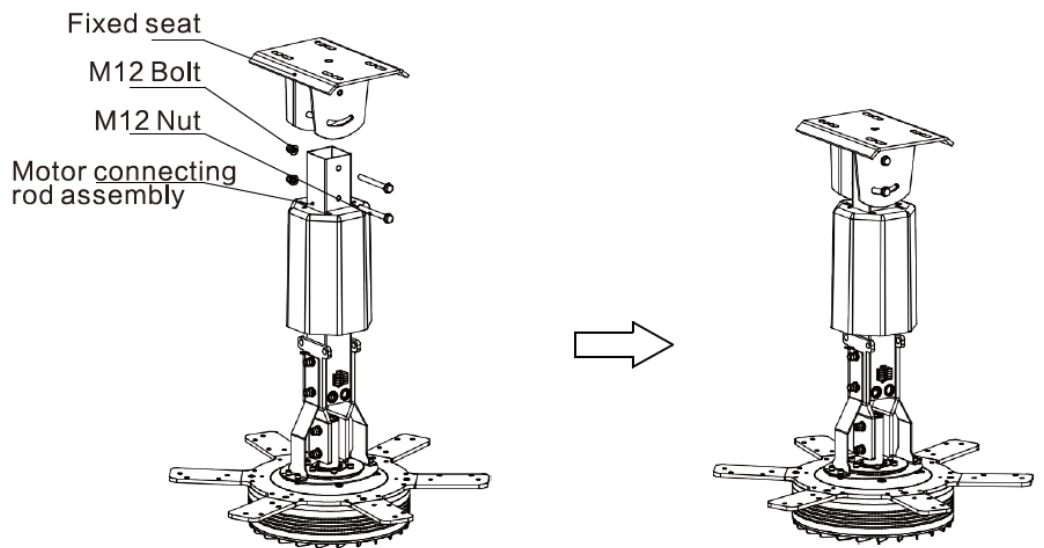
Accessories Needed:	
Name	Qty.
Motor Assembly	1
Connecting Rod Assembly	1
Motor Connecting Plate	2
Bracket Connecting Plate	2
Connecting Rod Cover	2
M5X10 Cross Recessed Screw	2
M8X20 Socket Heat Cap Screw	4
M12X150 Hex Bolt	2
M12X100 Hex Bolt	2
Ø12 Large Washer	8
Ø12 Standard Spring Washer	4
M12X100 Hex Bolt	4



Step 4:

Install the mounted motor connecting rod assembly on the fixed seat and screw it without tightening.

Accessories Needed:	
Name	Qty.
Motor Connecting Rod Assembly	1
M12X130 Hex Bolt	2
Ø12 Large Washer	4
Ø12 Standard Spring Washer	2
M12 Hex Nylon Nut	2

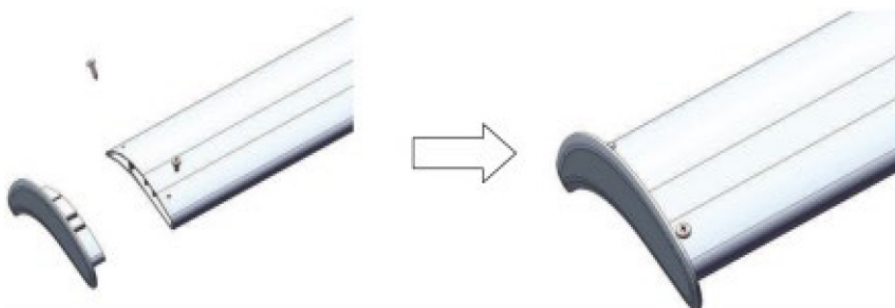


4 24-FT FAN INSTALLATION

Step 5:

Install the blade tail on the blade and lock it.

Accessories Needed:	
Name	Qty.
Blade	6
Tail Plane	6
ST4.8x16 Self Tapping Screw	12



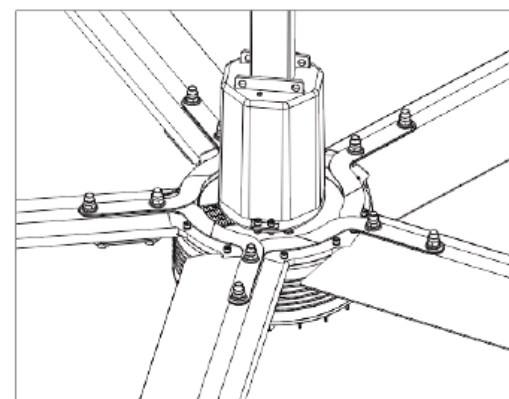
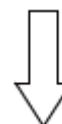
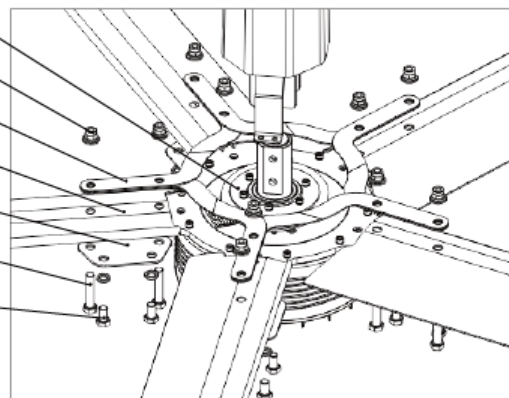
Step 6:

Install the tail blade assembly on the motor, install the screws and pull the blade outward from the center of the motor. Screw the blade without tightening.

Accessories Needed:	
Name	Qty.
Blade Assembly	6
M12X50 Hex Bolt (Full Thread)	12
M12X16 Hex Bolt (Full Thread)	12
Blade Press Plate	6
Four-Hole Gasket	6
M12 Hex Bolt	12
Ø12 Spring Washer	24
Ø12 Flat Washer	12

Connecting rod assembly

Hex nylon nut
Blade press plate
Blade assembly
Four-hole gasket
M12x60 Hex bolt
M12x16 Hex bolt

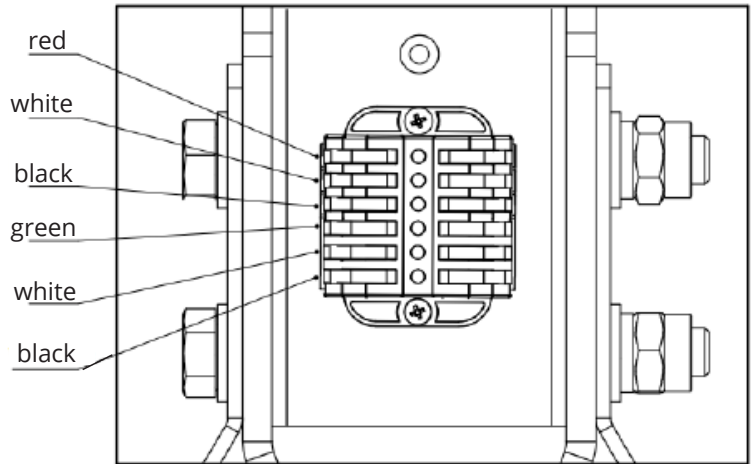


4 24-FT FAN INSTALLATION

Step 7:

Arrange the wiring from the ceiling fan to the controller, insert the motor lead wire and the fan power wire into the wiring clip. Arrange from bottom to top according to the diagram: red, white, black, green, white, black.

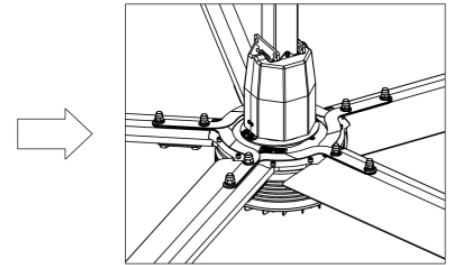
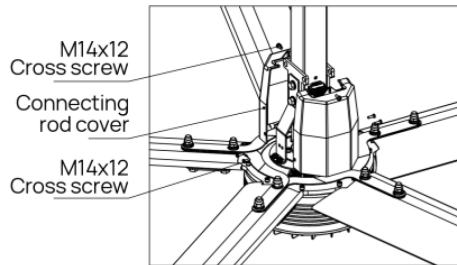
Accessories Needed:	
Name	Qty.
Cable14AWGX4X30M	1
Cable18AWGX2X30M	1



Step 8:

Install the connecting rod cover, screw and lock as shown below.

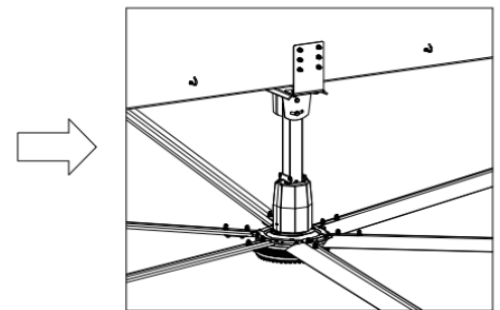
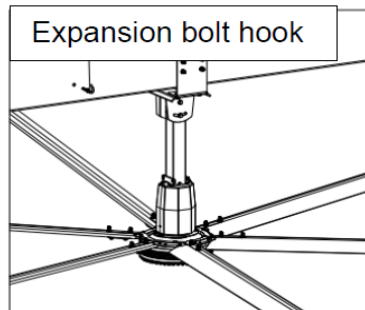
Accessories Needed:	
Name	Qty.
Connecting Rod Cover	2
M4X12 Cross Screw	6



Step 9:

Determine the position of the expansion bolt hook, drill the mounting hole with a 14mm drill bit (hole depth 80mm), install the M12X100 expansion bolt hook with the opening upward and tighten the expansion screw hook.

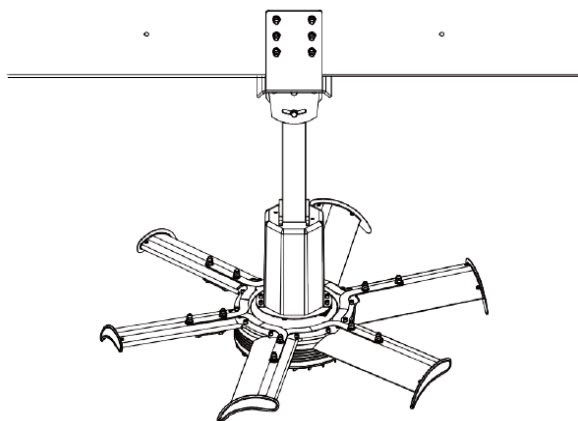
Accessories Needed:	
Name	Qty.
Expansion Bolt Hook	4



4 24-FT FAN INSTALLATION

Step 10:

Adjust the levelness of the motor and the verticality of the connecting rod, tighten the connecting rod and blade screws, install the fixed seat cover, and tighten the screws.



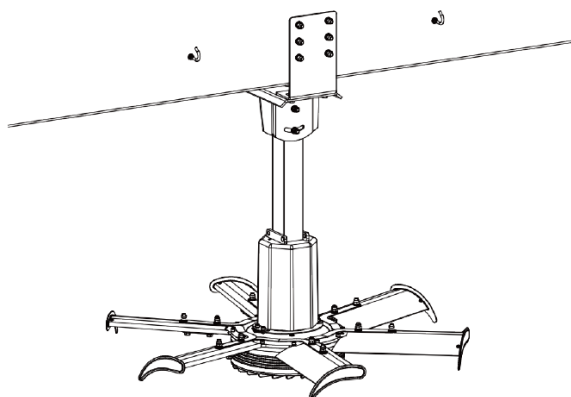
NOTE

Before tightening the blade screws, level the blade outward from the center of the motor. Adjust the levelness of the motor and the verticality of the connecting rod before tightening the screws and check whether all the screws are tightened.

Step 11:

Determine the position of the expansion screw hook, drill the mounting hole with a 14mm drill bit (hole depth >80mm), install the M12X100 expansion screw hook with the opening upward and tighten the expansion screw hook.

Accessories Needed:	
Name	Qty.
Expansion Screw Hook	4



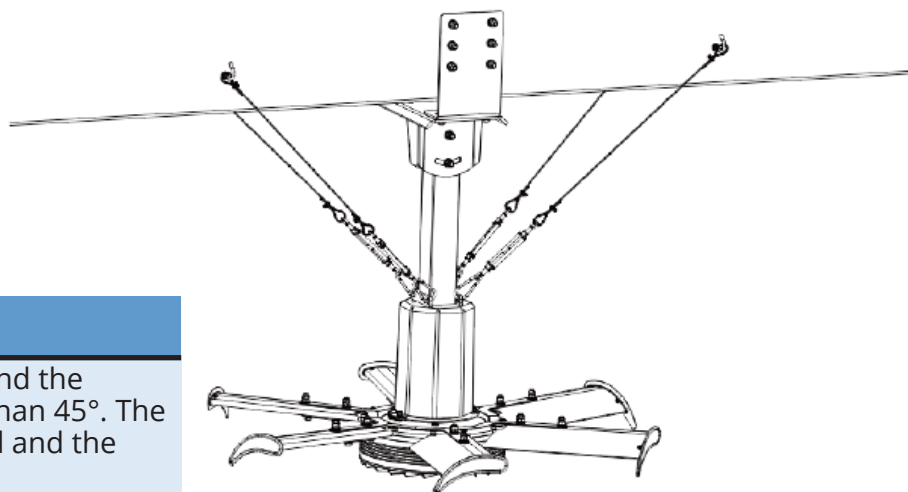
Step 12:

Fix the steel rope on the O end of the turn buckle with the steel rope clamp. Install the end of the turn buckle on the connecting plate of the fan motor, fix the end of the steel rope on the expansion screw hook with the steel rope clamp, and adjust the tightness of the steel rope with the turn buckle until the steel rope is straight.

Accessories Needed:	
Name	Qty.
M6 Steel Rope Clamp	16
6X10S+FC-6 30m Steel Rope	1
Elastic Hook	4
Steel Rope Hook	4

NOTE

The included angle between the steel rope and the connecting rod is greater than 30° and less than 45°. The steel rope clamp should be securely installed and the steel rope can be adjusted by the turn hook.



4 24-FT FAN INSTALLATION

Step 13:

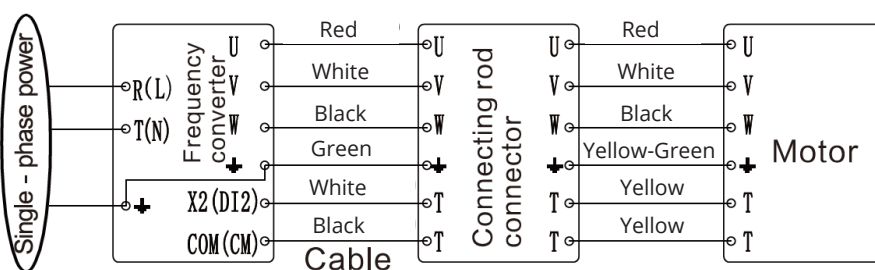
Select the location to install the controller. Connect the motor and the main power to the controller as required. Check whether there are obstacles around the fan to affect its operation and operate the fan according to the operation manual of the controller.

NOTE

The phase sequence of the motor connected to the controller cannot be incorrect.

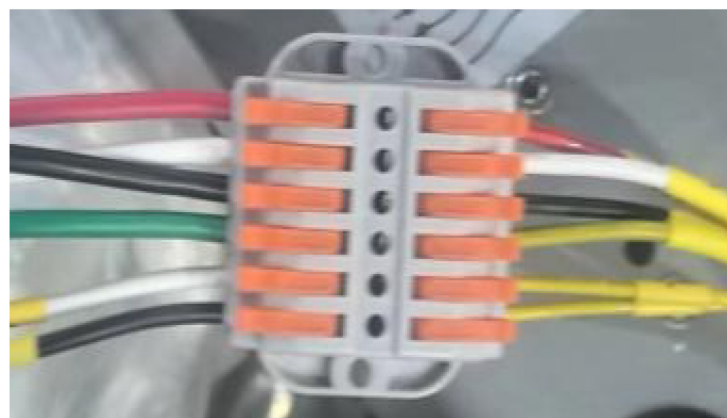
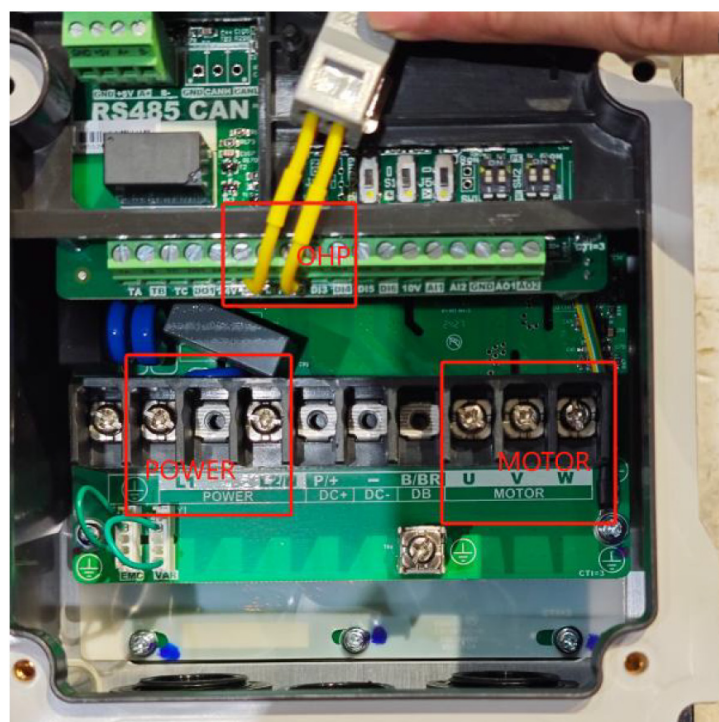
Accessories Needed:

Name	Qty.
Permanent Magnet Motor Controller	1
Rubber Sheathed Cable	2



NOTE

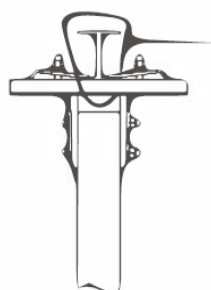
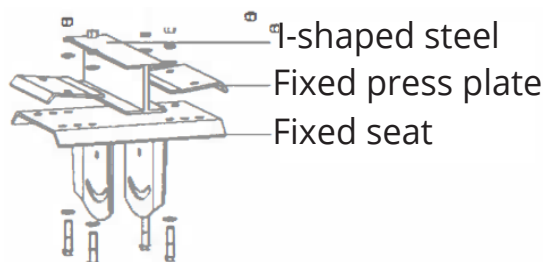
Do not connect the main power directly to the ceiling fan. Confirm whether the power voltage matches the controller voltage. After connecting the power cord, pull to verify the power cord is reliable. When connecting the fast terminal, the power cord should be peeled 10mm and inserted into the card slot at a depth of 17mm.



5 CONTROL PANEL OPERATION

Steel I-Beam Installation Diagram:

(The images reference the 16 ft. fan.) The expansion screw hook is not required and the end of the steel rope can be tied to the I-beam with the steel rope clamp.

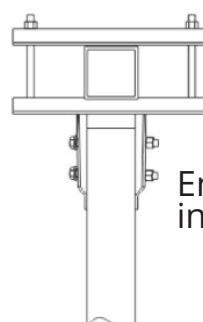
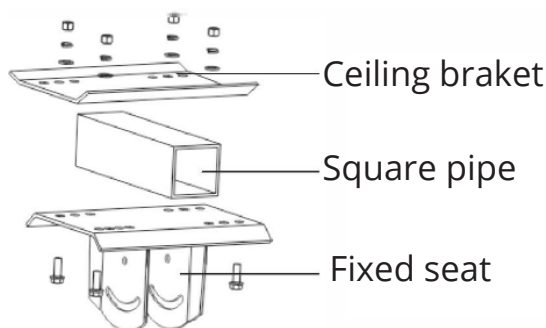


Put steel rope through the hanger and the steel I-beam and tighten with turn buckle.

Ensure levelness when installing the bracket.

Steel Square-Beam Installation Diagram:

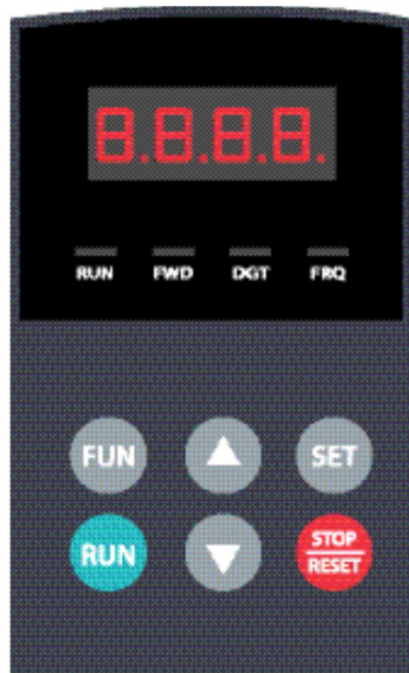
(The images reference the 16 ft. fan.) The expansion screw hook is not required and the end of the steel rope can be tied to the square steel beam with the steel rope clamp.



Ensure levelness when installing the bracket.

- Control Panel Operation

The panel covers three sections: data display section, status indicating section, and keypad operating section.



LED shows running frequency, flashing target frequency, function code, parameter value, or fault code.

4 LEDs indicate working status.

- RUN is lit when running.
- FWD is lit when working forward.
- FRQ is lit when showing.

- Press "FUN" for function code, and "SET" for original parameters.
- Up and down arrow keys can be used to select function codes and parameters. Press "SET" again to confirm.
- In keypad control mode, the up and down keys can also be used for dynamic speed control.
- "RUN" and "STOP/RESET" keys control start and stop.
- Press "STOP/RESET" key to reset inverter to fault status.

-Troubleshooting

Fault Code	Description	Causes	Solutions
Err0	Refusal to Allow User to Modify Function Code	Refusal to allow user to modify the function code during the running process	Please modify the function code during its stopped status
Err1	Wrong Password	Entering the wrong password when it is invalid (do not enter the password when you are attempting to modify the function code)	Please enter the correct password
OC	Over-Current Protection	- Acceleration time is too short - Short circuit is at output side - Locked rotor - Parameter tuning is not correct - Excessive load	- Prolong acceleration time - Check whether the motor cable is damaged - Check if the motor is overloaded - Reduce V/F compensation value - Measure parameter correctly
OC1	Over-Current 1		
OC2	Over-Current 2		
OE	DC Over-Voltage Protection	- Power voltage is too high - Load inertia is too large - Deceleration time is too short - Motor inertia rises too quickly - A negative effect of dynamic braking - Parameter of rotary speed loop PID is abnormally set	- Check whether the rated voltage is correct - Add braking resistance (optional) - Increase deceleration time - Enhance the dynamic braking effect - Set the parameter of rotary speed loop PID correctly - Change to V/F control for centrifugal fan
PF1	Input Phase Loss	Phase loss with input power	- Check if the power input is normal - Check if the parameter setting is correct
OL1	Inverter Overload	Load too heavy	- Reduce load - Increase the capacity of the inverter
LU	Under Voltage Protection	Input voltage on the low side	- Check if supply voltage is normal - Check if the parameter setting is correct
OH	Radiator Overheat	- Environment temperature is too high - Radiator is too dirty - Installation location is improper for ventilation - Fan is damaged - Carrier wave frequency or compensation curve is too high	- Improve ventilation - Clean the air inlet, outlet, and radiator - Install as required - Change fan - Decrease the carrier wave frequency or compensation curve
OL2	Motor Overload	Load too heavy	- Reduce load - Check mechanical devices - Increase the capacity of the inverter
ESP	External Fault	External emergency stop terminal function	Check the external terminal fault signal
Err3	Current Fault Before Operation	There is a current alarm signal before operation	- Check whether the cable is securely connected - Contact MRCOOL®
Err2	Parameter Measurement Error	Motor is not connected during parameter	Connect the motor correctly
Err4	Current Zero Deviation Fault	- Cable is loose - Current detection device is damaged	-Check and connect the cable again -Contact MRCOOL®

6 TROUBLESHOOTING

Fault Code	Description	Causes	Solutions
PF0	Output Phase Loss	- Motor wire is loose - Motor is broken - Inverter has a fault	- Check the motor connecting wire carefully - Check the motor for faults - Contact MRCOOL®
AErr	Line Disconnected	- Analog signal is disconnected - Signal source is broken	- Change the signal line - Change the signal source
EP3	Inverter Under-Load	Equipment is broken	Repair the equipment
EP/EP2			
nP	Pressure Control	- Pressure is too high when feedback is negative - Pressure is too low when feedback is positive - Inverter enters into dormancy status	- Decrease the minimum frequency of PID - Reset the inverter to normal status
Err5	PID Parameters are Set Incorrectly	PID parameters are set incorrectly	Set the parameters correctly
SLP	Dormancy Protection	Dormancy mode	When the pressure is normal, the unit automatically exits dormancy mode
GP	Earth Fault Protection (S2/T2 does not have GP protection)	- Motor cable is damaged & short-circuited to the ground - Motor insulation is damaged & short-circuited to the ground - Frequency converter has a fault	- Replace the cable - Repair the motor - Contact MRCOOL®
PG	Encoder Fault	- Encoder installation fault - Encoder fault - Encoder line number setting fault	- Check the installation and connection - Check encoder - Set F851 correctly
PCE	PMSM Maladjustment Fault	- Motor parameter measurement is incorrect - Load is too heavy	- Measure motor parameters correctly - Decrease the load
OH1	PTC Overheat Protection	External relay protection	Check external heat protection equipment
Er44	Master Loses Slave's Response	Communication fault between master and slave	- Check wiring - Check baud rate - Check communication parameter settings
CE	Communication Timeout Error	Communication fault	- PC/PLC does not send command at a fixed time - Check whether the communication line is connected reliably
EEEP	EEPROM Read/Write Fault	- Interference in the area - EEPROM is damaged	- Remove interferences - Contact MRCOOL®
Err6	Watchdog Fault	Watchdog timeout	Please check watchdog signal
CE 1	Keypad Disconnection Protection	Keypad disconnection	Check communication line
Er55	Drop Load Protection	Drop load	Check external device

6.2 Motor Malfunction

Description	General Inquiries	Solutions
Motor is Not Running	- Is the wiring correct - Is the setting correct? - Is the load too big? - Is the motor damaged? - Has malfunction protection occurred?	- Connect to power - Check wiring - Check malfunction - Reduce load
Wrong Direction of Running Motor	- Is the U,V,W wiring correct? - Are parameter settings correct?	- Correct wiring - Ensure the parameters are set correctly
Motor is Turning but a Speed Change is Not Possible	- Is the wiring correct for lines with given frequency? - Is the setting correct for running mode? - Is the load too large?	- Correct the wiring - Correct settings - Reduce load
Motor Speed is Too High or Too Low	- Is the rated motor valued correctly? - Is the drive ratio correct? - Are the inverter parameters set incorrectly? - Have you checked the inverter output voltage is abnormal?	- Check the motor nameplate data - Check the setting of drive ratio - Check the parameter settings - Check V/F for characteristic value
Motor Running is Unstable	- Is the load too large? - Is it too big with load change? - Has there been phase loss?	- Reduce load - Reduce load change - Increase capacity - Correct wiring
Power Trip	Is the wiring current too high?	- Check the input wiring - Select matching air switch - Reduce load - Check for inverter malfunction



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MRCOOL® Cool Blade Industrial HVLS Fan

The design and specifications of this product and/or manual are subject to change without prior notice.
Consult with the sales agency or manufacturer for details.