



Installation Instructions

AC Gearmotor Fan

Important Note: The wall switch provided must be used with this motor, the warranty will be voided if not followed. Power supply should be turned off prior to any contact with the electrical wires. It is recommended that an electrician be hired to install your fan. Make sure the fan mounting bracket is attached securely to the ceiling in a robust manner - strong enough to hold this larger than normal fan. Observe all local and national electrical codes. The controller is preset by us for this motor – do not open the box and change any setting or the warranty will be voided. This is a two person job.

Instructions:

- 1) Mount the electrical controller box onto the wall. Connect the controller **input** wires to the household supply wires, which is 110 voltage 60 Hz.
- 2) The controller converts the 110 voltage to 220 3 phase voltage, and needs a 14/4 wire run up to the ceiling fan. Connect your 14/4 wire to the controller **output** wire and then run the wire up to the fan mount area.
- 3) Mount the C channel mounting bracket to the ceiling with suitable lag screws. The mounting bracket is pre-drilled for 16” centers, so position it to allow for screwing into a stud at each end of the mount, after running the 14/4 supply wires through the large hole on the top of the mount. Drill a pilot hole in the studs before screwing the lag screws into them. If you have a sloped ceiling, then position the mount up and down with the ceiling to allow for the fan to swing down to horizontal. Be sure you mount this securely to the ceiling! The C channel mount may be cut shorter if desired
- 4) Place the fan unit with the wires facing up on a 5 gallon bucket, to prepare the fan for hanging. Run the wire from the motor through the down rod, and then attach the down rod to the motor connector with the bolt and lock nut provided.
- 5) Attach the fan to the ceiling by aligning the down rod into the center of the C channel ceiling mount, and push a bolt through the aligned holes. Tighten bolt firmly with the lock nut provided.
- 6) Stand clear of fan and turn on the power supply to the controller box, then turn on the power at the controller box with the speed dial set at 0, to check operation. The fan will turn slowly at 0. Check operation at speed. The unit is set up at the factory to take about 10 seconds to get to high speed, to protect the motor.
- 7) Attach the blades, which were previously attached for testing at our factory, and are now numbered to fit your fan. ***Wear protective eyewear for this step.*** Find blade #1 and position it to the corresponding #1 hole on the inner ring. Using the self-tapping screws (provided), attach blade to the outer ring first, then attach it to the inner ring –firmly but do not strip the hole. Next, attach blade #10 to the opposite side of fan, for balancing reasons. Continue with blade #2, then #11, etc.
- 8) After the blades are attached, tighten each of the 6 spoke nuts one turn to minimize vibration noise. Hold each spoke from turning with a Vice Grip, then turn the nut with a socket wrench one turn. Repeat if necessary. This step will minimize any loud noises created by vibration.

Some wobble is to be expected with a fan this size, but you can use the balancing kit (provided) to minimize this. The powerful geared fan motor will make a slight gear-meshing noise when operating, and this is normal.

Call our helpline for assistance at 972-834-5555.

Thank you for purchasing our windmill Ceiling Fan!

AC Gearmotor WCF Dated 12/2019