
FX FAN™

Operating Instructions

P/N 100141 (110 VAC)

P/N 100142 (230VAC)

Thank you for purchasing this FX Fan™.

- o As you will notice from the table of contents, the manual for your new fan is quite extensive.**
- o To guarantee perfect and successful work with this machine, please take some time to read the manual carefully.**
- o And finally, we believe you will enjoy many years of dependable, trouble-free service if you properly install and maintain this powerful piece of machinery called the FX Fan™.**

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1. Set of Equipment Supplied

- ❑ **1 FX Fan™ (100VAC: P/N 100141) (230VAC: P/N 100142)**
- ❑ **1 Stand (P/N TBA)**
- ❑ **Operating Instruction Booklet**

2. Accessories and Parts

- ❑ **Higher S-Stand (P/N TBA)**
- ❑ **C-Clamp w/Baby Spud and Safety Cable (P/N 250140)**
- ❑ **Floor plate with baby spud (P/N 250130)**
- ❑ **Variac for remote speed control (obtain locally)**
- ❑ **Universal DMX for on/off control only
(110V: P/N 250041) (230V: P/N 250042)**
- ❑ **DMX Turret (110V: P/N 250350) (230V: P/N 250355)**
- ❑ **FX Fan™ Parts**
 - **Grill (P/N 600170)**
 - **FX Fan™ Motor (P/N 6001710)**
 - **Frame (P/N 600172)**
 - **Blade (P/N 6001730)**
 - **Speed Control (P/N 600174)**
 - **Switch (P/N 600175)**
 - **Switch Holder (P/N 600176)**
 - **Power Cord (P/N 600177)**

Please check whether all the products you ordered are supplied.

3. Description of the FX Fan™

With new reinforced blades, this professional fan weighs only 27 lbs (12.3kg), wind will easily reach to 100' (30.5m) away. The FX Fan™ increases cfm's as it increases distance (2000 cfm – 50,000 cfm). The quiet vortex action of the shroud makes it possible to focus the wind directly to your target. It also comes with variable speed, and an instant “High” button, for short powerful spurts of wind at 3450 rpm. Comparable in power to the 18” (46cm) stage fans, yet blows further, and is a quarter of the size and one third the weight. Vary output remotely with dimmer control switch.

The FX Fan™ represents an upscale, Hollywood-proven alternative; a mid-priced product compared to the Mole. It's ½ size, and ¼ price, while providing 70% of the output. It weighs 27 lbs instead of 71 lbs, is inexpensive to repair and maintain.

The FX Fan™ has been designed and manufactured by Hollywood special effects experts. It is easy to ship, store and set-up. The air chamber is a molded venturi shape, which focuses the wind. The improved single piece 3-bladed fan and the front grill is a readily available low-cost part. The 4amp AC motor is controlled by a variac. An in-line switch is mounted on a heavy-duty powder-coated welded tubular steel frame. The FX Fan™ balances beautifully on a versatile mounting yoke, which surrounds the unit for protection and attaches to Baby or Junior receivers. 21”H x 18”W x 13”D (53cm x 46cm x 33cm). Limited one year warranty on parts and labor.

The FX Fan™ goes from full stop to full power in 2 seconds. The 11” (28cm) blade and the motor combine for a maximum of 3500 RPM – enough force to tip a C Stand. At 70% of the Mole fan's output, and the much greater mobility on the set, the FX Fan™ can be boomed right into a set – used closer, more accurately, and delivering more air right where you need it. Two fans can even be mounted above and below to provide a narrow, tall wind stream.

4. Safety instructions

WARNING: Read and understand all labels and operating instructions before attempting installation.

- o **RISK OF ELECTRICAL SHOCK-** This fan is supplied with a grounding conductor. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. To reduce risk of electrical shock, connect only to a properly grounded, grounding type receptacle.
- o In the event of a malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for the electric current. Install electrical hookup in accordance with all local codes and ordinances. **Warning:** Check with a qualified electrician if you are in doubt whether the fan is properly grounded.
- o To reduce risk of electric shock, disconnect power before servicing this fan.
- o **SAFETY CABLE-** When suspending the fan using the C-Clamps, be sure to attach the safety cable around the pipe grid and go through the frame of the FX Fan™ and attach the cable to itself. It is mandatory to use a safety cable when suspending this unit!

- o **C-Clamp-** Be sure the Baby Spud has a solid unscrewable connection to the Spud. When tightening the baby spud in place, always use the washer and cotter key. Tighten the side lock bolt on the knurled area of the baby spud. Never loosen this lock bolt to swivel the fan. Always swivel with the loosening of the swivel bolt on the side of the C-Clamp and spin the entire spud/baby spud together. Tighten the swivel bolt when in place.

5. Operating the FX Fan™

5.1 Unpacking the FX Fan™

Unbox unit and check for shipping damage. CITC warrants against factory breakage, however, shipping damage is not covered under warranty.

5.2 Electrical Power Requirements

Check to see that the rotating dial is in the off position. Plug in the cord to a grounded outlet with sufficient amperage. The voltage requirement for this fan is acceptable to almost all types of single-phase electrical supply. Current consumption is 5 amps at 110vac and 3 amps at 230 VAC. Make sure you are using an adequate extension cord.

5.3 Running the FX Fan™

1. Attach the stand with the supplied knobs. Spin the entire fan body to the position you want the air to flow, tightening the lock-down nuts on the spindles to stop it from moving. Tighten securely on both ends. You must loosen both ends to make adjustments. 360 degree movement is possible in both directions.
2. Slowly turn on the power by turning the knob clockwise and check to see if the fan is moving easily without rubbing the housing. Sometimes in shipping the fan may be damaged due to mishandling or jarring of the unit. Contact your shipper and CITC if damage has occurred in transport.
3. Pressing the yellow button will run the fan at full speed as long as the button is depressed.
4. Turn on the fan to speed desired, aiming the airflow the direction you want, allowing 100' (30m) of open air space for air movement in front of the fan. Your fan is designed to be left on continuously without overheating or failure, **as long as there is a slow down period that allows the motor to cool slowly**. Always keep air moving over the motor with a slow rpm of the fan at least 10 minutes after long periods of being on the high torque speeds. This protects the motor from excessive heat buildup.

5.4 Controlling the FX Fan™ from a dimmer

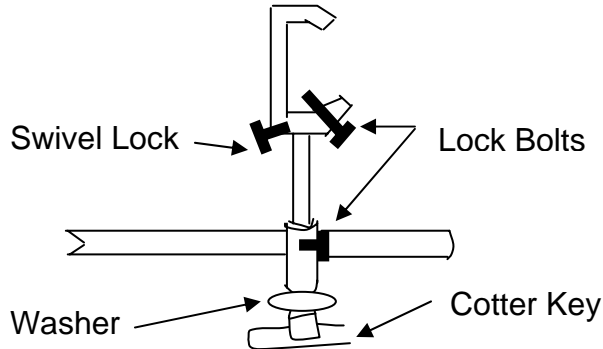
You can control the speed of the fan from a lighting dimmer board as well. For this sort of operation, we recommend that you set the fan at 100% on its dial, and use the dimmer board to control the speed. You should check with your dimmer board manufacturer to verify that it will work with inductive motor loads, as some phase control dimmers won't hold a stable setting working into an inductive load. You will notice this particularly at partial settings, around 50-70%, on the dimmer. If this occurs, connecting a small

incandescent lamp (100w) on the same dimmer in parallel with the fan will usually cure the problem.

You can set the fan at a lesser speed, and use the dimmer to further reduce the speed. For instance, you could set the fan at 60%, and 100% on the dimmer will produce 60% on the fan, 50% on the dimmer will produce 30% on the fan, and so forth.

5.5 Hanging the FX Fan™

1. For hanging, use baby-spud C-Clamp with a washer, cotter key and **safety cable**.



Place the baby spud, C-Clamp onto the attachment on the edge of either of the legs, placing the washer on, then the cotter key through the pin and tightening the lock screw with a wrench. Because the unit needs the C-clamp, rotation horizontally can be made by loosening the swivel lock bolt and rotating the unit. **Never loosen the tightening screw on the FX Fan™ stand leg while hanging.**

2. **Attach the safety cable around the pipe grid** and through the handle of the FX Fan™ and attach the cable to itself. You may now adjust the position of the FX Fan™ with the wrench, spinning or tilting as desired. Do not loosen any of the anchor bolts for movement without the safety cable attached first.

5.6 Optional Universal DMX Control

With optional Universal DMX control, you will be able to turn the fan on when the slider control reaches approximately 50%. (See section 5.8).

5.7 Troubleshooting

Fan rubs when turning: call CITC for instructions. Do not remove cover.

Motor jumps or is unsteady: check extension cord for low gauge. Turn off any other loads sharing the same circuit or test in dedicated outlet.

Fan starts slowly: Check extension cord for low gauge. Turn off any other loads sharing the same circuit or test in dedicated outlet.

Optional Remote DMX doesn't work: turn on control knob on fan.

5.8 Notes on optional Universal DMX operation

Each DMX'd unit will occupy a unique DMX address on the DMX chain. By adjusting the dip switches on the side of the machine near the DMX cable plug-ins, the user may assign one address to the machine, giving you on/off and volume control with one DMX channel (there is no timer on this DMX).

Step 1). Attach the DMX cable to the upper "in" female connector located on the end of the fan.

Step 2). The DMX address is configured by adding the dip switch numbers together to total the number required. For example, DipSwitch 1 + 6 = 33. Your DMX channel would be 33.

| | | | | | | | | | |
|------------|---|---|---|---|----|----|----|-----|-----|
| Dip Switch | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Channel # | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 |

When you move the slide control or digital control to approximately the 50% position the fan will turn on.

| | |
|----------|-------|
| 0 – 50% | = Off |
| 51– 100% | = On |

"Input" and "Output" designations on the DMX plugs are arbitrary (i.e., you can use the input plug for output and visa-versa). It is not necessary to attempt converting your DMX line's connector to female/male to match the appropriate socket on the plug. As long as it is looped in/out, it will work.

6. Service and Maintenance

Care of your FX Fan™ will give you years of service. Note: cleaning your unit is going to pay off in constant good performance.

- Because air passes through the wiring and blades, it is important not to feed fog or wet fluids through this unit. It will damage the circuitry.
- Keeping your unit clean is essential. Use of Filter Foam would be advised if the air is full of lint or dirt. (Filter foam P/N TBA.)
- Wipe down all vent inlets with a clean dry cloth. Do not use gasoline, thinners or other chemicals to clean fan.
- Never use water around the electrical connections
- Inspect the cord for damage before each use. Do not use if power supply cord becomes frayed or brittle
- Never operate with extension cords that are under 12 awg.
- Do not use near furnaces, fireplaces, stoves or other high temperature heat sources.
- The motor of your FX Fan™ needs no oiling.

7. Technical Data

| FX Fan™ P/N 100141 (230V P/N 100142) | |
|--------------------------------------|---|
| Weight | 27 lbs (12 kg) |
| Size (with stand) | 15" x 18" x 22" (38 cm x 46 cm x 56 cm) Stand holds fan 24" (61cm) high |
| Shipping Weight | 42 lbs. (19.1 kg) |
| Shipping Box Size | 21" x 21" x 26" (54 cm x 54 cm x 66 cm) |
| DMX | Optional Universal DMX (on/off) |
| Wind Speed | 0 – 27 mph (0 – 44 km/hr) |
| Wind Volume | 0 – 50,000 cfm |
| Wind Range | Reaches to 100' (30m) |
| Blade | New unbreakable 11" (28cm) |
| RPM | Variable 0 – 3450 |
| Color | Black |
| Positioning | 360 degrees |
| Electrical Supply | 110VAC, 5 A, 60 Hz 230 VAC, 3 A, 50 Hz |
| Limited Warranty | One (1) year |
| Rev. 8/1/03 | |

8. Limited Warranty Conditions for the FX Fan™

- 1. Subject to the following conditions we will repair any defect or fault in the unit if it is caused by a proven factory fault and has been advised immediately after appearance and within 30 days of delivery to the end user. Insignificant deviations of the regular product quality does not guarantee replacement rights, nor do faults or defects caused by water, by generally abnormal environment conditions or Force Majeure.**
- 2. Limited Warranty Service will be done in the following way: Faulty parts will be repaired or replaced (our choice) with correct parts. Faulty units have to be shipped to us or sent to us at customer's expense. The RMA# has to come with the faulty unit.**
- 3. The customer loses all rights for limited warranty services, if any repairs or adjustments are done to the units by unauthorized persons and/or if spare parts are used, which are not approved by us. Also non-compliance with the instructions in this manual or mistakes by incorrect handling/treating of the machine, any faults and damages caused by undue force will lead to a loss of limited warranty.**
- 4. Freight costs to CITC when under the limited warranty services are the responsibility of the customer. CITC will pay freight upon return.**
- 5. Limited warranty services do not cause an extension of the limited warranty time or the start of a new limited warranty time. The warranty of replaced parts ends with the limited warranty time of the whole unit.**
- 6. If a defect/fault can not be repaired by us in a satisfactory time, we will, within 30 days after sale of the unit, our choice either:**
 - Replace the whole unit for free or**
 - Refund the lesser value or**
 - Take back the whole unit and refund the purchase price, but not more than the usual market price at the time of refund.**
- 7. Further claims, especially for damages, losses etc. outside the unit are excluded.**

If you should send the unit for service, obtain your RMA# first by calling CITC. Obtain your RMA # by calling CITC. Payment arrangements for repair must be made before receiving RMA # in case unit is not covered under Limited Warranty.

Send unit to:

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