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**SKY FAN™**

**Operating Instructions**

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**P/N 100180 (110 VAC)**

**P/N 100186 (230 VAC)**

## **Thank you for purchasing this SKY FAN™**

- **As you will notice from the table of contents, the manual for your new product is quite extensive.**
- **To guarantee perfect and successful work with this machine, please take some time to read the manual carefully.**
- **And finally, we believe you will enjoy years of great wind effects if you care for and maintain your SKY FAN™.**

**CITC**

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# 1. Set of Equipment Supplied

- Sky Fan™
- Bracket/Stand
- Operating Instructions Booklet

# 2. Accessories and Parts

- Universal DMX Relay for On/Off control only  
110VAC: P/N 250041; 230VAC P/N 250042
- Wireless Remote Control (P/N 250010, 110VAC only)
- Double C-Clamp w/Safety Cable (P/N 250120)
- DMX Turret (110VAC: P/N 250350; 230VAC P/N 250355)

Call your sales representative for information on the following:

- Bracket yoke for mounting or hanging 360 orbital movement
- Lighting System
- Wind Stabilizer
- Multi-Mini tube attachment
- Skywalkers: skywalker characters and tubes are now available in many different styles and colors, including a custom-made option. Strong urethane Rip-Stop nylon. Each leg requires one fan. Custom designs available.

100180	<b>SKY FAN™ FOR PUPPETS, DANCERS, SKYWALKERS™</b>
260010	<b>UNCLE SAM SKY WALKER™</b> - 2 legs, (needs 2 fans) 25' (7.6m)
260011	<b>SPECIAL SKYWALKER LETTERING SEWN ON</b>
260015	<b>TUXEDO SKYWALKER™</b> - 2 legs, (needs 2 fans) 25' (7.6m)
260020	<b>SINGLE SKYWALKER™</b> - 1 leg, (needs 1 fan) 15' (4.6m)
260021	<b>FLAME SKYWALKER™</b> - 1 leg w/ lettering 15' (4.6m)(needs 1 fan)
260022	<b>WAVING SKYWALKER™</b> - with letters sewn 10' (3m) (needs 1 fan)
260025	<b>SANTA SKYWALKER™</b> - 2 legs, (needs 2 fans) 25' (7.6m)
260030	<b>ONE COLOR SKYWALKER™</b> - Single tube up to 25' (7.6m) (40' (12.2m) available) (needs 1 fan)
260031	<b>CRAZY SKYWALKERS (6)</b> 10'x5" (3m x 13cm) tubes with manifold for each fan (needs 1 fan)
260035	<b>TWO HAND SKYWALKER™</b> - single tube up to 25' (7.6m) (needs 1 fan)
260040	<b>CUSTOM DESIGN SKYWALKER™</b> 2 legs with arms 25' (7.6m) (needs 2 fans)
260050	<b>CUSTOM DESIGN SKYWALKER™</b> 1 leg with arms 15' (4.6m) (needs 1 fan)

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Please check whether all the products you ordered are supplied.

### 3. Description of the Sky Fan™

Perfect for inflatable moving tall characters, this fan boasts ribbed sides for a snug fit, double handles for adjusting from either side, an extra long cord for long distance applications and the quietness needed to advertise without the noise normally associated with animated tubes in the sky. This rugged black housing is built to last and comes with a variable speed motor and the capability of adding lights, fog, or extra effects that may even lead up to confetti popping out of the 25' high (7.6m) SkyWalkers™.

### 4. Safety instructions

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

- Never open the machine without disconnecting power lead first!  
**Risk of electrical shock-** This device is supplied with a grounding conductor. To reduce risk of electrical shock, connect only to properly grounded, grounding type receptacles. Never remove the third prong from the plug.
- This machine requires a 110VAC circuit for operation. The Sky Fan™ draws approximately 4 amps at 110 VAC (2 amps at 230VAC). If you have any doubts about the capacity or grounding of your existing circuits, consult a qualified electrician.
- Be sure area around fan is dry before applying electrical power.
- Make sure that your unit is pointed in a direction that leaves a 10ft (3m) open area out in front. Place the front of the machine away from direct contact with electrical instruments and people.

### 5. Operating the SKY FAN™

#### 5.1 Selecting the Location

Secure a good location for the machine to rest solidly on the floor with adequate overhead clearance for the Skywalker.

#### 5.2 Electrical Power Requirements

This machine requires a separate 110VAC (or 230VAC) circuit for operation. The Sky Fan™ draws approximately 4 amps at 110 VAC and 2 amps at 230VAC. If you have any doubts about the capacity or grounding of your existing circuits, consult a qualified electrician.

#### 5.3 Operating the machine

1. Check to see that the power switch on the handle is in the off position. Plug in the cord to a grounded outlet with sufficient amperage.
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. Attach the stand with the supplied bolts. 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. Use a wrench to tighten securely on both ends. You must loosen both ends to make adjustments. 270 degree movement is possible.
4. Turn on the fan to speed desired, aiming the airflow the direction you want, allowing adequate overhead clearance for the Skywalker. Your fan is designed to be left on continuously without overheating or failure. 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 Transporting the Sky Fan™**

When shipping or transporting to another location (not boxed), set the fan on the floor. Do not place the fan on the stand while in transit, unless supported. Damage may occur or you may misalign the fan unit if it bounces on the stand. Have the fan lying down on the floor with the stand up or legs off the floor. This will prevent the turning blade inside from becoming out of round or rubbing.

#### **5.5 Optional DMX Control**

With DMX control, you will be able to turn the fan on when the slider control reaches approximately 30%. (See section 5.8).

#### **5.6 Rest Period**

Your fan is designed to be left on continuously without overheating or failure. 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.

#### **5.7 Troubleshooting**

**DMX doesn't work:** turn off control knob on fan.

**Fan knob doesn't work:** Turn off DMX control

**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:** turn off DMX. Check extension cord for low gauge. Turn off any other loads sharing the same circuit or test in dedicated outlet.

## 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 5% position the fan will turn on.**

0 – 5%	= Off
6– 100%	= Air Volume Control 1 – 100%

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

1. 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.
2. Keeping your unit clean is essential. Use of Filter Foam would be advised if the air is full of lint or dirt.
3. Wipe down all vent inlets with a clean dry cloth.
4. Never use water around the electrical connections
5. Inspect the cord for damage before each use.
6. Never operate with extension cords that are under 12 awg.

## 7. Technical Data

Sky Fan™ Technical Data P/N 100180 (230V P/N 100186)	
Weight	40 lbs / 18 kg
Dimensions	17 3/4" dia. by 22"h (45cm x 56cm)
Dimensions on stand	18" x 18" x 27" (46 x 46 x 69 cm)
Shipping Weight	44 lbs (20kg)
Shipping Box Size	22" x 24" 24" (56cm x 61cm x 61cm)
DMX	Optional Universal DMX
Fan blade type	Triple wide blade
Housing	Fiberglass-reinforced molded black plastic housing
Motor	2/3 hp high performance motor
Speed	Adjustable
Stand Adjustment	Variable tilt 270 degrees
Attachment of dancers or puppets	Bungee holder with ridge (included) holds bungee, Velcro and all type Skywalker™ dancers
Noise level	Quiet design allows for indoor use
Electrical Supply	110 VAC, 4 A, or 230 VAC 2 A
Fuse	10 A – 250v
Limited Warranty	One Year
Rev: 8/18/03	

## **8. Limited Warranty Conditions for the SKY 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, do not forget to remove any liquid from the fluid bottle. 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:**

**CITC  
RMA # XXXXXXX  
2100 196<sup>th</sup> Street SW Suite #138  
Lynnwood, WA 98036  
Tel: (888) 786-CITC or (425) 776-4950  
Fax: (425) 776-5129  
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