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Operations & Maintenance Manual
For Commercial Use Only



WINDSHEAR™ DOWNDRAFT
MODEL NO: 98784 (115V) & 98785 (230V)



Long Term Buyer Protection Limited Warranty

Tornado Industries, LLC. (Tornado) warrants to the end/user customer that the Tornado product(s) will be free from defects in material and workmanship for the duration(s) described below. This limited warranty DOES NOT cover machines and/or components subject to normal wear and tear, damage that occurs in shipping, failures resulting from modification, accident, unsuitable operating environment, misuse, abuse, neglect, or improper maintenance by you. For full details, contact your Authorized Tornado Distributor, Service Center, or the Tornado Technical Service Department. Tornado sales and service representatives are not authorized to waive or alter the terms of this warranty, or to increase the obligations of Tornado under the warranty.

10 Years*

Plastic water tanks and Rotationally-molded bodies

2 Years*

Parts on all Tornado cleaning equipment

1 Year*

Labor on all Tornado cleaning equipment

1 Year*

Warranty on batteries, one year prorated

All battery warranties are handled directly by the battery manufacturer, on a one year prorated basis

Terms subject to change without notice

1. Except all Windshears™ Blowers, Storm, TV2SS, Side and Downdraft, Insulation Blowers, CV 30, CV 38, CK14/1 PRO, CK 14/2 PRO, SWM 31/9, CK LW13/1, CK LW 13/1 ROAM, CV 38/48 Dual, PV6, PV10, PV6 ROAM, Wall Mount Vacuum and all chargers are warranted for 1 (one) year for both parts and labor.
2. All non-wear item parts purchased after warranty expiration are warranted for 90 days.
3. Warranty starts from the date of sale to the consumer or, at Tornado's discretion, 6 months after the dealer purchased the unit from Tornado, whichever comes first.
4. The EB 30 is warranted for a period of 90 days for both parts and labor.
5. The warranty on engines used on propane powered equipment is limited to motor manufacturer's warranty.
6. Ride-on Scrubbers are warranted for 24 months, parts, 6 months labor or 1,000 hours, whichever occurs first.

Note: Tornado, The Latest Dirt, Floorkeeper, Carpetkeeper, Carpetrinser, Carpetrinser/Dryer, Headmaster, Taskforce, PAC-VAC, T-Lite, Glazer, Windshear, Max-Vac and Trot-Mop are trademarks of Tornado Industries

Website: www.tornadovac.com

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Fax 817-551-0719

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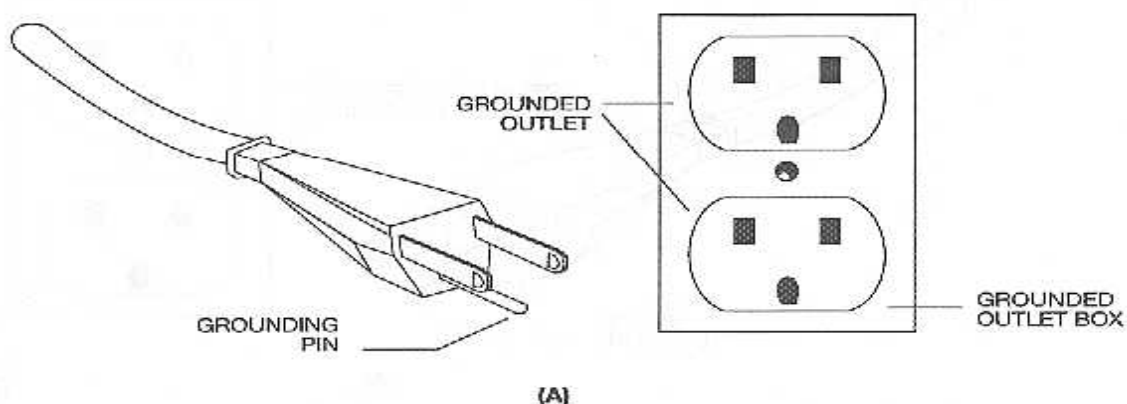
NOTES

GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk electric shock. This machine is equipped with a cord having an equipment -grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING: Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 120-volt circuit, and has a grounding plug that looks like the plug illustrated in sketch A.



Specifications

CATALOG NO.	98784	98785
SERIES	F	F
VOLTS	115	230

For Best Performance

Keep machine clean and in good operating condition.

- Have machine checked periodically by your Authorized Dealer.
- Use only authorized service centers for parts or service.
- Store machine carefully in dry area.
- For optimum drying performance and safety, study and follow your operators manual.

Your new Tornado unit is a high quality, precision-made product. All parts used in the manufacturing of this unit have passed rigid quality control standards prior to assembly. Please safeguard the original receipt / invoice. If you experience any problems with your unit during the warranty period, the original receipt / invoice will act as proof of purchase. Contact Tornado for any warranty inquiries.

IMPORTANT SAFETY INSTRUCTIONS

READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE USING THIS UNIT

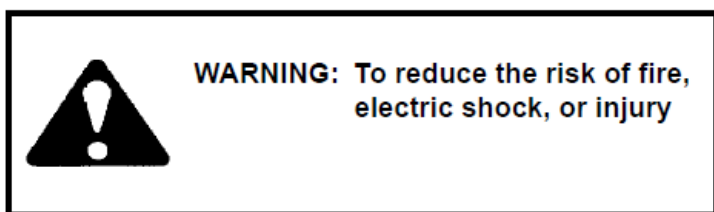
Read and understand this owner's manual and all labels on the unit before operating. Safety is a combination of common sense, staying alert and knowing how your unit works. Use this unit only as described in this manual.

Use only manufacturer's recommended attachments. To reduce the risk of personal injury or damage to your unit use only Tornado recommended accessories.

IMPORTANT SAFETY INSTRUCTIONS FOR COMMERCIAL USE ONLY

WHEN USING AN ELECTRICAL APPLIANCE, BASIC PRECAUTIONS SHOULD ALWAYS BE FOLLOWED INCLUDING THE FOLLOWING:

READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE



1. Do not leave machine when plugged in. Unplug from outlet when not in use and before servicing.
2. Use indoors only. Do not use outdoors, do not expose to rain.
3. Do not allow to be used as a toy. Use caution when operating near children.
4. Use only as described in this manual. Use only manufacturer's recommended attachments.
5. Do not use with damaged cord or plug. If machine is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a Tornado Service Center.
6. Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners. Do not run machine over cord. Keep cord away from heated surfaces.
7. Do not unplug by pulling on cord. To unplug, grasp the plug not the cord.
8. Do not handle plug or machine with wet hands.
9. Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
10. Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
11. Turn off all controls before unplugging.
12. Use extra care when cleaning on stairs.
13. Do not use to pick up flammable or combustible liquids, such as gasoline or use in areas where they may be present.
14. Connect to a properly grounded outlet only. See Grounding Instructions.

Save These Instructions

Operating Instructions

1. Plug in to a standard outlet with the correct voltage and amperage for the unit.
2. Place the dryer in the desired operating position.
3. Set the switch at the desired speed: low or high.
4. Check for proper operation before leaving the unit unattended. Do not move or carry the dryer when it is running.

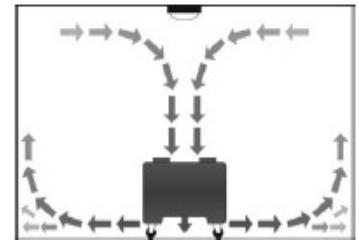
5 AMP Resettable Circuit Breaker

The Downdraft™ Fan features a 5 amp circuit breaker that will “trip” if more than 5 amps of electrical current is drawn through the cord.

Operating Positions

The Downdraft™ Fan is designed to operate in multiple positions for any type of drying.

1. **Face Down** – Set the Downdraft™ Fan on the four caster wheels to direct air straight down. Turn each caster to a 45° angle to the housing for best airflow.
2. **Tilt Back** – Tilt the Downdraft™ Fan backward on the four curved molded legs at an angle to direct air for elevated drying.
3. **Upright** – Set the Downdraft™ Fan square with the handle on the top to direct air across a room.
4. **Tilt Forward** – Tilt the Downdraft™ Fan forward on the “standing legs” at an angle to direct airflow along the flow in front of the dryer.
5. **Stack for Storage** – the Downdraft™ Fan interlock and stack for easy ge and transport.



Maintenance

Periodic Maintenance

1. Check power cord for any breaks, separations or cuts.
2. Make sure the ground pin or grounding prong is intact or the machine will be unsafe to operate.

Trouble Shooting

If the dryer will not run

1. Check electrical cord; is it firmly seated in wall outlet
2. Check if dryer circuit breaker is tripped, reset if necessary.
3. Check to see if building circuit breaker is tripped. If circuit is overloaded, move cord to a different outlet.
4. If using an extension cord, make sure it is in good condition, proper gauge and firmly connected.

SAVE THESE INSTRUCTIONS

Warranty Registration Form

Please provide additional information on
Tornado equipment: (Check choices below)

- | | |
|---|---|
| ☐ Automatic Scrubbers | ☐ Sweepers |
| ☐ Propane Floor Machines | ☐ Rotary Floor Machine |
| ☐ High Speed Burnishers | ☐ Carpet Vacuums |
| ☐ Carpet Extractors & Spotters | ☐ Wet/Dry Vacs |
| ☐ Steam Cleaners | ☐ Jumbo Vacs |
| ☐ Ride-On Equipment | ☐ Pressure Washers |

See complete product info at www.tornadovac.com

Selling Dealer: (Required) _____

Please Print Clearly

Company/Institution	
Contact Name	Title
Address	City/State/Zip Code
Phone	Fax
Date of Purchase	Email

See white metal plate or sticker on unit for this information.

MACHINE TYPE/MODEL NUMBER:	MACHINE SERIAL NUMBER:
1. _____	1. _____
2. _____	2. _____
3. _____	3. _____
4. _____	4. _____

Facility Description (please circle all that apply)

- | | | |
|------------------------|---------------------------|---------------------|
| 1. School | 9. Hospital | 17. U.S. Govt. |
| 2. Retail Store | 10. Nursing Home | 18. Other Govt. |
| 3. Restaurant | 11. Religious Institution | 19. Auto Service |
| 4. Office Building | 12. Airport | 20. Airport |
| 5. Contract Cleaning | 13. Warehouse | 21. Non-Profit |
| 6. Light Manufacturing | 14. Apartment/Condo | 22. Other (specify) |
| 7. Heavy Manufacturing | 15. Warehouse | |
| 8. College/University | 16. Supermarket | |

How did you first learn about Tornado cleaning and maintenance equipment?	In square feet (<i>meters</i>)	
	Total Hard Floor Area	Total Carpeted Area Square feet (square meters)
☐ Contacted by local dealer ☐ Previous experience with Tornado products ☐ Reputation/ Recommendation ☐ Advertising ☐ Direct mail ☐ Internet ☐ Other	☐ 0-10,000 (0-930) ☐ 10-50,000 (930-4,650) ☐ 50-250,000 (4,650-23,250) ☐ Over 250,000 (over 23,260)	☐ 0-10,000 (0-930) ☐ 10-50,000 (930-4,650) ☐ 50-250,000 (4,650-23,250) ☐ Over 250,000 (over 23,260)

Damage or defect arising from abuse, neglect or other misuse is excluded from this warranty. Other items may or may not apply based on your specific machine. If any defect occurs, the warranty is voided if service is attempted by non-Authorized Tornado Service Centers.

Return to :
Tornado Industries
3101 Wichita Court
Fort Worth, TX 76140
Fax: 817-551-0719
or online at
www.tornadovac.com

