



TORNADO INDUSTRIES, LLC
3101 WICHITA COURT
FORT WORTH, TX 76140
PHONE 800-VACUUMS
FAX 817-551-0719
WWW.TORNADOVAC.COM

Operations Manual
For Commercial Use Only



**SINGLE AND DUAL AIR EXTERNAL FILTER
JUMBO VACUUMS**

MODEL NO: 95955/95962

Form No. L5955 BA 08/20 ©Tornado Industries, LLC. All rights reserved

Save These Instructions

NOTES



PROTECT THE ENVIROMENT
Please dispose of packaging materials in an enviromentally safe way according to local waste disposal regulations.



Always remember to recycle.

Within 30 days, to activate the warranty, go to;
<https://tornadovac.com/services/warranty-registration-form.aspx>

For warranty information go to www.tornadovac.com

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.



WARNING: Failure to read and understand these instructions could result in serious bodily injury or property damage

SAFETY INSTRUCTIONS

When using this unit, basic precautions should always be followed. Read all instructions before using this unit.



WARNING: To reduce the risk of fire, electric shock or injury:

Do not leave machine unattended when running. Turn off when not in use.

Before attempting any maintenance or adjustment, disconnect air lines.

Do not expose to rain.

Do not allow to be used as a toy.

Close attention is necessary when used near children.

Use only as described in this manual.

Use only manufacturer's recommended attachments.

If machine is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.

Keep hair, loose clothing, fingers, and all parts of the body away from openings and moving parts.

Turn off all controls before disconnecting air lines.

Do not put any object into openings. Do not use with any opening blocked. Keep openings free of dust, lint, hair, and anything that may reduce air flow.

Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.

Do not pick up flammable or combustible liquids, such as gasoline, or use machine where they may be present.

Do not use without filters in place.

Use extra care when cleaning on stairs.

Always replace worn or torn external filters immediately. This will prevent possible injury due to flying objects.

Never operate with intake unguarded. Strong suction will pull fingers and/or clothing into hose and other parts.

Always point exhaust port in a safe direction. Air exits venturi at very high velocity.

Always wear safety glasses when in vicinity of this unit.

Never operate above 100 p.s.i. (8 BAR) pressure.

Always turn off your air line supply at the drop before disconnecting the air line.

Features:

- Capable of simultaneous wet/dry pickup when using external filter(s)
- This unit is constructed for recovering water or other solutions without any adjustments.
- Liquid shutoffs are available.
- Ideal for materials from powder to oily metal chips grindings and shavings.
- Recovers fluids from water to heavy weight oils.
- External filter(s) collect lighter particles and resist clogging.
- 55-gallon drum collects heavier waste (approximately 95% of all pickup); light particles collect in large external filters.
- 3/16" (5 mm) jet(s) installed. 7/32" (5.5 mm) jet(s) and 1/4" (6 mm) jet(s) are included for heavier debris.

General Specifications

The Single and Dual Air External Filter Jumbo Vacuum(s) are heavy duty wet/dry industrial vacuums. They pick up wet and dry waste simultaneously without the need to change any filters. These compressed air vacuums have no moving parts and have tremendous suction for portable units. Both come with a 55-gallon rolled top steel drum (Tornado part number 95944) for volume pick-up with maximum efficiency. Virtually all dry and liquid recovered products go into the drum, therefore maintaining peak performance. Both units handle a wide variety of waste, ranging from fine powders to heavy-grade viscosity products. Designed to perform at maximum efficiency with 1.5" to 2" hoses and attachments.

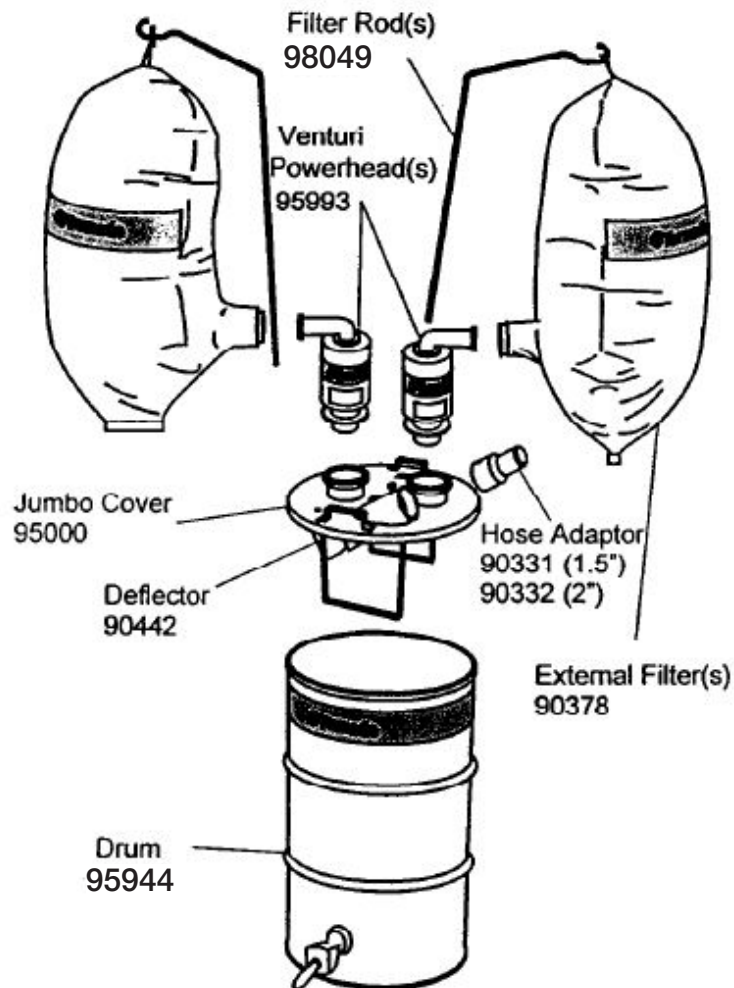
Unit Specifications

95955 SINGLE INCLUDES	
95993	Venturi Powerhead (External Filter) (1)
90378	Large Poly External Filter (1)
98049	Support Rod for Large Filter (1)
95944	55-Gallon Drum
98088	4-Wheel Dolly
90331	1-1/2" Adaptor
95991	Single Head Line Connector

95962 DUAL INCLUDES	
95993	Venturi Powerhead (External Filter) (2)
90378	Large Poly External Filter (2)
98049	Support Rod for Large Filter (2)
95944	55-Gallon Drum
98088	4-Wheel Dolly
90332	2" Adaptor
95992	Dual Head Line Connector

	SINGLE	DUAL
EXTERNAL FILTER AREA	1874 sq. in.	1874 sq. in. (each head)
HORIZONTAL REACH	30 ft.	100 ft.
VERTICAL LIFT	15 ft.	25 ft.
REQUIRED COMPRESSOR	15 h.p.	25 h.p.
AIR LINE COUPLINGS	1/2" (Minimum)	3/4" (Minimum)
HOSE ADAPTOR	1.5" included	2" included
SHIPPING WEIGHT	143 lbs.	157 lbs.

	SINGLE	DUAL
3/16" Jet (Installed) w/ 1.5" Hose	79 CFM/185" Static Waterlift	152 CFM/179" Static Waterlift
3/16" Jet w/2" Hose	82 CFM/185" Static Waterlift	158 CFM/179" Static Waterlift
Compressor CFM	47@90 p.s.i.	94@90 p.s.i.
7/32" Jet (Included) w/1.5" Hose	73 CFM/223" Static Waterlift	144 CFM/217" Static Waterlift
7/32" Jet w/2" Hose	74 CFM/223" Static Waterlift	152 CFM/217" Static Waterlift
Compressor CFM	61@90 p.s.i.	122@90 p.s.i.
1/4" Jet (Included) w/1.5" Hose	67 CFM/242" Static Waterlift	134 CFM/239" Static Waterlift
1/4" Jet w/2" Hose	70 CFM/242" Static Waterlift	151 CFM/239" Static Waterlift
Compressor CFM	76@90 p.s.i.	152@90 p.s.i.



ASSEMBLY OF THE UNIT

1. Remove all components from packaging
2. The venturi powerhead(s) come already attached to the Jumbo cover adaptor(s). To detach, remove the external filters from the venturi powerhead(s), then turn powerhead(s) counterclockwise and they will unlock from the Jumbo cover adaptor. When attached, Make sure exhaust nozzles(s) face outward.
3. Install external filter support rod(s) by placing them in access hole(s) located in the Jumbo cover.
4. Attach external filter(s) by attaching to filter support rod(s) and installing inlet collars onto exhaust nozzle(s). Turn collar(s) clockwise to lock. Do not twist filter.
5. Install hose adaptor into Jumbo housing. Lock in place by lining up adaptor indent with lock screw and tightening lock screw.
6. Place Jumbo cover assembly onto drum. The weight and suction power of the Jumbo cover assembly will form a seal onto the drum.

STARTING/STOPPING OF MACHINE

1. Connect air supply line to head line connector.
2. Start Vacuum by turning air valve located on line connector to the ON position.
3. Stop vacuum by turning air valve located on line connector to the OFF position.

OPERATING RULES

Use 1.5" or 2" I.D. hoses and attachments
Use 1/2" (Single) and 3/4" (Dual) air line hose and flow through connectors (do not use ball style fittings).

Use 90 p.s.i. (7 BAR) at gauge (valve open) for maximum pickup power, 60 p.s.i. (5 BAR) at gauge (valve open) for lighter debris
Never operate over 100 p.s.i. (8 BAR).

Use to recover water, heavy oils, powder, grindings, and metal shavings.

Hearing protection must be worn when operating these units.

Grounding and static discharge are required when recovering powders. Use Tornado static conductive hoses (Urethane or Neoprene), and aluminum tools. Ground vacuum head and tank assembly to an earth ground.

MAINTENANCE

EXTERNAL FILTER

For maximum operating efficiency and to ensure longer wear, remove filter(s) and empty by detaching the bottom clamp after every use.

ALL OTHER MAINTENANCE

Empty and clean vacuum filter(s) and attachments after each days use for maximum performance.

Problem	Remedy
Machine does operate	<p>Make sure air line valve is in ON position.</p> <p>Inspect air regulators for interference of air flow.</p> <p>Inspect air compressor for adequate size and that proper air pressure is available (60 to 90 p.s.i.).</p> <p>Inspect air line for proper size and/or damage.</p> <p>Always use flow through connectors.</p>
Machine stops running	<p>Inspect drum level.</p> <p>Inspect air line for damage.</p> <p>Inspect air pressure.</p>
Machine has no suction	<p>Inspect for clogged or collapsed hose</p> <p>Defective drum seal.</p> <p>Material too heavy for unit.</p>
Air pressure drops at gauge	<p>Inspect air compressor for proper free air consumption and resistance in air line size or connections.</p>
Machine has poor recovery	<p>Inspect for correct size hose and attachments.</p> <p>Defective drum seal.</p> <p>Material too heavy for unit.</p> <p>Inspect external filter(s). Empty and clean if necessary.</p> <p>Ensure external filter(s) are properly locked onto venturi powerheads.</p> <p>Inspect drum cover gasket.</p> <p>Ensure venturi powerheads are properly locked into Jumbo cover.</p> <p>Inspect connection of external filters.</p> <p>Inspect all seals for wear and/or damage.</p>

