READ THIS FIRST

VENTILATOR USER GUIDE

MODEL P244-WT

SUPERVAC

DANGER

PERSONAL RESPONSIBILITY CODE

The member companies of FEMSA that provide emergency response equipment and services want responders to know and understand the following:

1. Firefighting and Emergency Response are inherently dangerous activities requiring proper training in their hazards and the use of extreme caution at all times.
2. It is your responsibility to read and understand any user's instructions, including purpose and limitations, provided with any piece of equipment you may be called upon to use.
3. It is your responsibility to know that you have been properly trained in Firefighting and/or Emergency Response and in the use, precautions, and care of any equipment you may be called upon to use.
4. It is your responsibility to be in proper physical condition and to maintain the personal skill level required to operate any equipment you may be called upon to use.
5. It is your responsibility to know that your equipment is in operable condition and has been maintained in accordance with the manufacturer's instructions.
6. Failure to follow these guidelines may result in death, burns or other severe injury.

FEMSA

Fire and Emergency Manufacturers and Services Association, Inc.
P.O. Box 147, Lynnfield , MA 01940 www.FEMSA.org

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USER GUIDE

This manual covers the description, cautions, operation, and maintenance of the Super Vac P244-WT.

⚠WARNING *Read this manual before operating the ventilator.*

Save this guide for future reference.

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1. Breakage or Damage During Shipment

The transportation company is fully responsible for all shipping damage and will resolve problems promptly if you handle it correctly. Please read these instructions carefully.

Examine the contents of all shipping cases. If you find any damage, call your transportation agent at once and have them make a description on the freight or express bill describing the damage and the number of pieces. Then write us and we will send you the original bill of lading. Get a claim blank from the express or truck company. Fill the claim form out. Attach the claim blank to the original bill of lading together with a copy of our invoice. Attach a memo on which you show the value of the damaged goods. Mail or hand these papers to your local transportation agent. They will process your claim with reasonable promptness.

Please note, we cannot and will not enter claims for damages. If we filed claim here, it would be sent to your local freight agent for verification and investigation. This time can be saved by your filing the claim directly. Every consignee is on the ground floor and in contact with the local agent who inspects the damaged goods, and thus, each claim can be given individual attention.

Since our goods are packed to comply with the regulations of all railroad, truck, and express companies, we cannot allow deduction from any invoice because of any damage, however, be sure to file your claim promptly. Our goods are sold F.O.B. factory. We take receipt from the transportation company certifying that the goods were delivered to them in good order, and our responsibility ceases.

It is seldom that any breakage or damage occurs in any of our shipments, and in no case will the customer be out any expense if they follow the above instructions.

Be sure to keep all damaged goods subject to examination of the truck or express company inspector, who may call on you some time later. These damaged goods, of course, will belong to them, and they will inform you what to do with them. If you dispose of these damaged goods, your claim may not be paid.

2. General Description and Specifications

Super Vac ventilators are specifically designed to provide a convenient and portable source of air. Super Vac positive pressure ventilators are tested to AMCA PPV Standard 240-95, for use in extreme conditions.

Specifications

Model	Engine	Horsepower	Height x Width x Depth	Weight
P244-WT	POK	5.5	28.5” x 28” x 18.75”	88 lbs (40 kg)

Specifications are subject to change without notification. Refer to model decal affixed to ventilator to determine actual specifications.

This ventilator is designed for high powered air movement. Super Vac’s propeller produces a greater intake of air and eliminates turbulence at the tips. Each blade is statically balanced for high efficiency and long life.

This document is designed to function as a quick start guide and not an in-depth comprehensive instructional manual. Please read all accompanying documents shipped with your ventilator. Due to the many features of powered equipment thorough familiarity with the operating controls is essential to assure safe and trouble free operation.

3. Product Safety Precautions

⚠WARNING

- Do not use the ventilator for purposes other than its' intended use.
- Wear eye and ear protection when operating the ventilator.
- Never operate ventilator while fatigued.
- Do not disassemble or modify the ventilator in any way. Doing so may lead to mechanical failure or personal injury.
- Do not wear loose clothing that could become entangled in the operating ventilator.
- Never permit anyone to operate ventilator without proper instruction.
- Do not operate ventilator without proper inlet or outlet guards in place. If guards are missing or damaged, contact factory for replacements.
- Do not place fingers or other foreign objects through inlet or outlet guards. Should a foreign object enter the ventilator, immediately stop engine. Be certain all mechanical motion has stopped.
- Do not place or operate ventilator on unsteady tables, slanted surfaces or other unstable surfaces. Never use this ventilator in any explosive environment.
- Do not use chock blocks to increase the angle of the ventilator, severe injury could occur.

4. Before Operating Ventilator

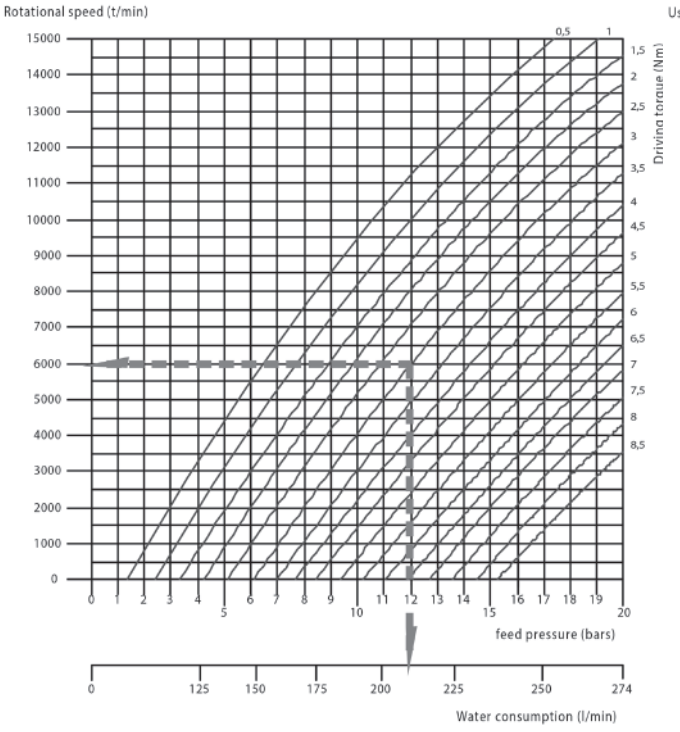
- **⚠CAUTION** A complete inspection of the ventilator should be made prior to operation.
- Check all threaded fasteners for proper tightness.
- Inspect inlet and outlet guards for damage or missing pieces. Replace damaged or missing guards before operating ventilator.

5. Operation

CAUTION Check ventilator inlet and outlet guards for obstructions. Check and remove from immediate surrounding area any objects that could be drawn into the ventilator intake. Place ventilator in desired location before starting.

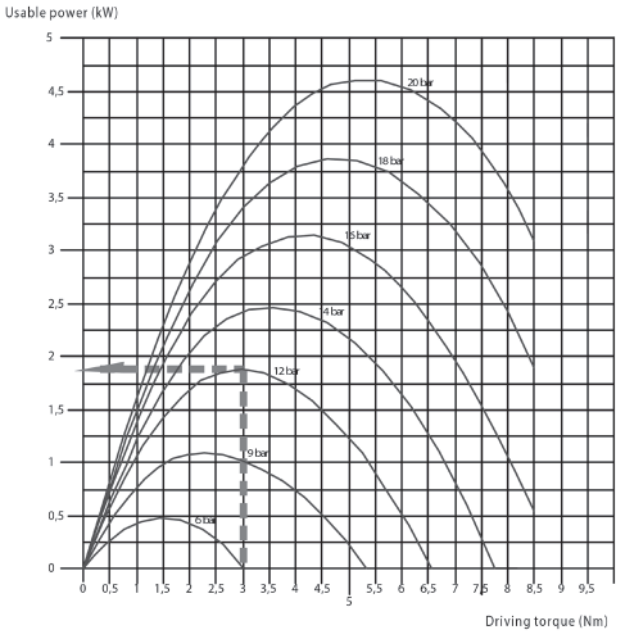
The two graphs allow you to establish with precision the best utilization of the apparatus.

Graph 1 depicts rotational speed and water consumption depending on input feed pressure.



Graph nb 1 : Rotational speed and water consumption depending on feed pressure.

Graph 1



Graph nb 2 : Usable power depending on driving torque.

Graph 2

Inlet Pressure		Water Flow		Air Flow	
BAR	PSI	GPM	LPM	CFM	CMH
3.3	50	55	208	5168	8781
6.7	100	78	295	10,112	17,179
10.0	150	98	371	16,178	27,487
13.3	200	110	416	19,100	32,450
16.7	250	130	492	22,470	38,177

The maximum feed pressure is 300 psi (20 bar).

Graph 2 depicts the usable horsepower depending on the driving torque.

Example: If the inlet pressure of the water supplied to the motor is 174 psi, and the resisting torque of the driven machine is 7.4 lb/ft, the rotational speed is 4560 rpm, water consumption is 117 gpm (graph 1) and the usable power is 5.5 HP (graph 2)

6. Warranty

Super Vacuum Manufacturing Company warrants that the equipment is free from defects in materials and workmanship when used and operated for a period of five years. The responsibility of Super Vacuum Manufacturing Company under this limited warranty is limited to the repair and replacement of any parts which are found defective and which are returned to Super Vacuum Manufacturing Company at 3842 Redman Dr, Fort Collins, CO 80524 with transportation charges prepaid (C.O.D. shipments will not be accepted).

Prior to returning defective parts to SUPER VACUUM MANUFACTURING COMPANY, the original purchaser shall make a claim in writing to SUPER VACUUM MANUFACTURING COMPANY at the above address indicating the model number and type of defect. No parts or equipment will be received by SUPER VACUUM MANUFACTURING COMPANY for repair or replacement under this warranty without specific written authority from it in advance.

Any parts damaged by improper installation, overloading, abuse or accident of any type or cause are not covered by this warranty.

All equipment manufactured by us is pre-run and tested before leaving our plant, and is shipped in good working order and condition. We therefore extend to the original purchasers the following Limited Warranty for the period of five years from the original date of purchase:

1. This warranty does not apply to defects caused by accident, misuse, neglect, or wear and tear, nor can we be held responsible for incidental and consequential expense and loss, nor does this warranty apply to equipment where alterations have been executed without our knowledge or consent. These conditions are readily discernible when the equipment is returned to us for inspection.
2. On all component parts not manufactured by SUPER VACUUM MANUFACTURING COMPANY, their warranty is to the extent that the manufacturer of such component warrants them to SUPER VACUUM MANUFACTURING COMPANY, if at all. Look in your local business phone directory for the nearest repair station for the brand of parts you have or write to us for the address.
3. If equipment received is found to have been damaged in transit, a claim should be made against the carrier within three days, as we assume no responsibility for such damage.
4. Any service other than our Authorized Service voids this warranty.
5. This warranty is in lieu of and is intended to exclude all other warranties, express or implied, oral or written, including any warranties of MERCHANTABILITY or FITNESS for a particular purpose.

7. Contact Information

For parts or service information, contact:

Super Vacuum Manufacturing Company, Inc.

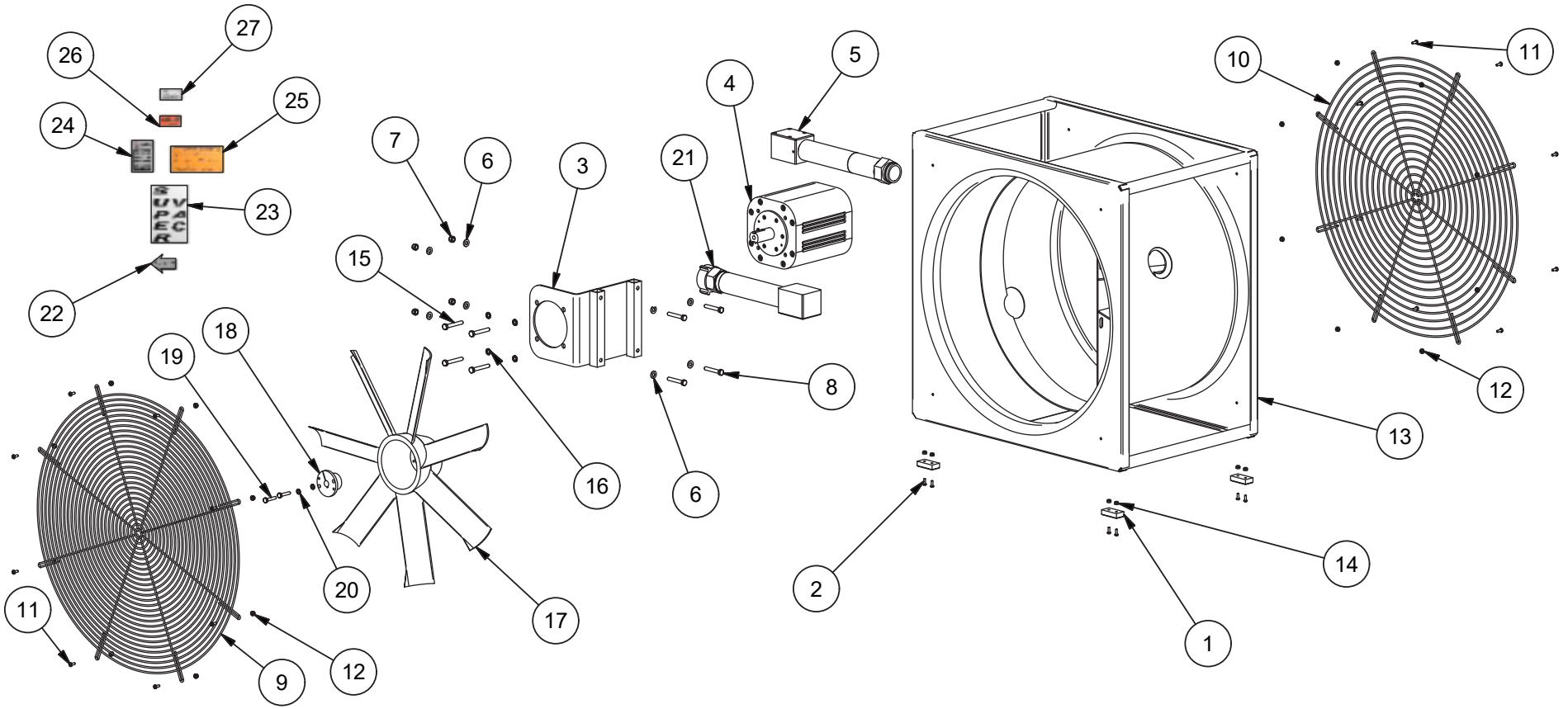
3842 Redman Dr.
Fort Collins, CO 80524

Phone: 800-525-5224
970-297-7100

Fax: 970-297-7099

Email : info@supervac.com
Internet: www.supervac.com

8. Parts List

PARTS LIST				PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	024-10527	PAD, 1/2 X 1 X 2, RUBBER	14	8	032-10695	8-32 HEX NUT ZINC
2	8	032-10698	8-32 X 1/2" PHIL PH MS ZINK	15	4	032-14334	SCREW,HH,M8x1.25x55,SS
3	1	019-15215	MOUNT, MOTOR, WATER TURBINE, P244WT	16	4	069-01119	WASHER,LOCK,SPRING,REGULAR, M8, SS
4	1	021-10500	MOTOR, POK, WATER TURBINE 5.5 HP, 1.5 NST	17	1	003-10050	BLADE 24"7 BLADE GAS FINISHED
5	1	022-13700	OUTLET FITTINGS 1.5 X 10"	18	1	008-14169	BUSHING,BLADE MAUREY, 19MM
6	8	STD HARDWARE W23	WASHER,FLAT,SAE, 5/16", SS	19	2	032-10745	BOLT, 1/4-20 X 1 1/4, HEX HEAD ZINC
7	4	034-11057	NUT,NYLOCK, 5/16-18 UNC,SS	20	2	032-10754	WASHER, 1/4, LOCK ZINC
8	4	STD HARDWARE-HHCS-237	SCREW,HH,5/16-24x2,SS	21	1	022-13701	INLET FITTINGS 1.5 X 9"
9	1	012-10271	GUARD 24" STD. FRONT-FINISHED	22	1	025-10548	DECAL - EXHAUST ARROW
10	1	24_Guard2	GUARD 24" STD REAR FINISHED	23	1	025-13426	DECAL SUPER VAC VERTICAL LETTER
11	16	034-12941	10-24 X 1/2 PHIL PH MS BLACK SS	24	1	025-10580	DECAL - p244WT, SERIAL NUMBER, GRAY
12	16	032-10713	10-24 NYLOK SELF LOCK NUT ZINC	25	1	025-10579	DECAL - P244WT YELLOW SAFETY
13	1	018-14050	HOUSING 24" WT,STEEL PAINTED	26	1	025-10559	DECAL - ORANGE CAUTION
				27	1	025-10544	DECAL - CAUTION GUARDS REMOVED

9. Exploded View