VENTILATOR USER GUIDE

MODEL 718VR2



USER GUIDE

This manual covers the description, cautions, operation and maintenance of *Super Vac* Electric Ventilators **PPV Series**

Please take the time to 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 fresh air. Refer to decal affixed to ventilator to determine proper operating voltage requirements. Super Vac electric ventilators are single speed, fresh air ventilators, for use in extreme conditions.

Specifications¹

- Specifications are subject to change without notification. Refer to model decal affixed to ventilator to determine actual specifications.
- ² TEAO = Totally enclosed air over motor

This ventilator is designed for high powered air movement. *Super Vac*'s patented propeller produces a greater intake of air and eliminates turbulence at the tips. The high velocity screw action sweeps air back over the motor, enabling it to run cooler. The patented 7-Blade propeller is cast from aluminum alloy. Each blade is statically balanced for high efficiency and long life.

3. Product Safety Precautions

- ➤ Do not use the ventilator for purposes other than its' intended use.
- > 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.
- > 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 disconnect power source. Be certain all mechanical motion has stopped before removing foreign object.
- ➤ Do not use with any power voltage other than the indicated voltage.
- > Do not place or operate ventilator on unsteady tables, slanted surfaces or other unstable surfaces.
- Never handle energized power cords with wet hands.
- > Never let extension cords or plug connection lay in water. Locate the ventilator so that it cannot fall into water inadvertently.
- Never use this ventilator in any explosive environment.

4. Before Operating Ventilator

- Always operate this ventilator from a proper AC power source supplied through a ground fault interrupter receptacle. Test receptacle for ground fault before plugging in the ventilator power cord.
- A complete inspection of the ventilator should be made prior to operation.
- Never use power cords with frayed, cut, or brittle insulation.
- Inspect power cord plug for sound connections to the ground fault interrupter circuit.
- 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

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 connecting to power supply.

Extend and place any flexible duct as required. Use caution not to direct toxic fumes into confined spaces with the ventilator. Please refer to the <u>Super Vac Training Manual for Smoke Ventilation</u> for comprehensive instruction on effective ventilation practices.

Insert power cord plug into 120 VAC power receptacle to begin ventilation.

To stop ventilation remove power cord plug from AC power receptacle.

6. Maintenance and Repair

Maintenance should only be performed by experienced and trained personnel.

Be sure the ventilator is disconnected from the power source before performing any maintenance or repair.

The motor is of heavy duty ball bearing construction. The unit is completely sealed and requires no lubrication for the life of the motor

The ventilator blade should be specially checked for build-up of material or dirt which may cause an imbalance. Excessive imbalance can lead to accelerated wear on motor bearings and vibration. Remove ventilator guards. Clean blade and inside housing with mild detergent and water. Do not use abrasives, sharp instruments or caustic solvents that may scratch or damage the aluminum alloy blade..

Intake and exhaust guards are not interchangeable. When replacing guards after cleaning, position them with the rings to the outside with the row of spot welds holding the rings on the bottom.

7. Troubleshooting Motor Overheating Problems

CAUTION: Motors are equipped with thermal overload protection. When internal motor temperature exceeds design limits, the motor will automatically shut off. Motor will automatically restart when it cools sufficiently after overheating. Remove power cord plug from AC receptacle before examining or working on a motor which has stopped because of overheating. Thermal overload protection sensitivity increases with frequency. Take preventative steps to correct cause of overheating to assure long motor life. Most overheating problems are associated with the use of portable power generators as the ventilator power supply.

Common causes of motor overheating:

- Power generator not providing constant voltage. Ventilators are equipped with AC motors designed to operate on power that falls between $\pm 3\%$ of design specifications.
- Using too small gauge of extension cord.
- Exceeding maximum length extension cord.
- Insufficient unobstructed distance on exhaust side of ventilator. Please refer to the <u>Super Vac Training Manual</u> <u>for Smoke Ventilation</u> for recommended ventilator placement.
- Insufficient wattage generator. When running multiple ventilators on one generator, plug ventilators in one at a time. Wait until first ventilator is running at full speed before connecting next ventilator to generator. Do not exceed generator capacity.
- Using accessory ducting of too small a diameter or excessive length.
- Incorrect amperage circuit breaker for circuit load
- Using reeled or coiled extension cords.

8. Extension Cords

Do not use reeled or coiled cable. Reeled or coiled cable can produce a counter EMF (electromotive force). The counter EMF can reduce the current carrying capability of an extension cord. This counter EMF will result in a voltage drop within the motor instigating a thermal overload condition. Power supply must handle wattage requirements. When conditions require the use of reeled cable, unreel all cable and place on the ground in very loose overlapping non-uniform coils.

Units ¹	WATTS ²	Minimum Wire Gauge	Maximum Cable Length (feet)
1	2000	14	150
2	4000	12	250
3	6000	10	350

¹ Multiple units powered by one extension cord.
² Minimum running wattage for multiple units. Startup amperage draw is much higher.

9. Warranty

Limited Warranty Five Years

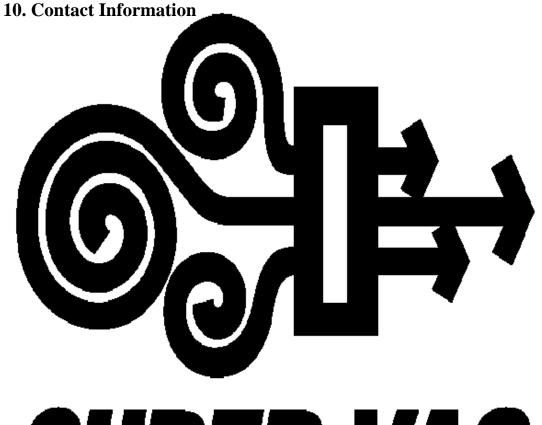
Super Vacuum Manufacturing Company warrants that the equipment is free from defects in materials and workmanship when used and operated for a period of five years. The responsibility of Super Vacuum Manufacturing Company under this limited warranty is limited to the repair and replacement of any parts 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 discernable 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 MERCHANTIBILITY or FITNESS for a particular purpose.



For parts or service information, contact:

Super Vacuum Manufacturing Company, Inc. 3842 Redman Dr Fort Collins, CO 80524

Phone: 1-800-525-5224

970-297-7100

FAX: 970-297-7099

Internet: www.supervac.com

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11. Parts List

1	012-00018	1	GUARD 718 18" FRONT-PAINTED
2	032-15540	8	10-24 X 1/2 PHIL PH MS W/TEFLON PATCH BL
3	032-10745	2	1/4 - 20 X 1" HEX CS ZINC
4	032-10754	2	1/4" LOCK WASHER ZINC
5	008-10193	1	KEYSTOCK 3/16" X 1 3/8" SQUARE
6	008-14145	1	BUSHING BLADE MAUREY HQ X 5/8"
7	003-10044	1	BLADE 18" 7 BLADE GAS FINISHED
8	018-10425	1	SHROUD, 718E, W/GUARD, PAINTED
9	019-15056	1	718E, SPACER, MOTOR MOUNT, PAINTED
10	021-10506	1	MOTOR, 1.5 HP VDC VR2
11	019-15058	1	718E, MOTOR MOUNT COMPLETE, PAINTED
12	032-14565	2	3/8-16 X 4 1/2" SOCKET BUTTON HEAD ZINC
13	005-10136	4	BUSHING REDUCER 3/4" X 1/2"
14	008-13373	2	WHEEL PNEUMATIC DW414 3" HUB CENTER
15	032-11129	2	3/8" FLAT WASHER USS ZINC
16	032-11133	2	3/8-16 NYLOK HEX NUT ZINC
17	008-14622	1	VENTILATOR BRAKE MOUNT 1
18	008-14624	1	718, BRAKE BAR, FINISHED
19	008-14623	2	VENTILATOR BRAKE MOUNT 2
20	032-10725	3	1/4-20 X 5/8 PHIL RH MS
21	024-13473	2	FEET RUBBER CONE SHAPE VBM-4002
22	032-13052	2	5/16-24 NYLOK HEX NUT ZINC
23	008-10189	6	PLUG FINISHING SQ RIBBED, BLACK 1"
24	018-10404	1	TUBE FRAME 18" PAINTED
25	018-15000	2	718 SHROUD SUPPORT BRACKET
26	032-14564	2	3/8-16 X 2 1/2" SOCKET BUTTON HEAD CS ZN
27	008-10212	2	WASHER FLAT #17W14930 MICRO-PLASTIC

28	032-11129	2	3/8" FLAT WASHERUSS ZINC
29	032-11133	2	3/8-16 NYLOK HEX NUT ZINC
30	008-10192	2	SPRING A-180-S VALCO
31	032-14564	2	3/8-16 X 2 1/2" SOCKET BUTTON HEAD CS ZN
32	032-11129	2	3/8" FLAT WASHERUSS ZINC
33	019-15001	1	718 HANDLE PAINTED
34	032-11133	2	3/8-16 NYLOK HEX NUT ZINC
35	008-14586	2	STOCK CAP COVER FOR 718 HANDLE TAB
36	032-10750	2	1/4-20 NYLOK HEX NUT ZINC
37	032-10752	2	1/4" FLAT WASHER USS ZINC
38	032-10752	2	1/4" FLAT WASHER USS ZINC
39	032-10723	2	1/4-20 X 1/2" PHIL PH MS ZINC
40	024-13284	1	SPRING SADDLE ISC #0198 W.DBL GRIND
41	032-11133	2	3/8-16 NYLOK HEX NUT ZINC
42	024-13284	1	SPRING SADDLE ISC #0198 W.DBL GRIND
43	008-10211	1	STOCK CAP 3TG .250" X 1.0" X 4" OAL BLK
44	019-15000	1	718 720, TILT LEVER, PAINTED
45	005-10120	1	CORD 14-3 SO 10' MOLDED
46	032-10790	6	5/16-18 NYLOK HEX NUT ZINC
47	032-10770	6	5/16-18 X 1 1/2" HEX CS ZINC
48	032-10786	6	5/16" FLAT WASHER ZINC
49	025-10544	1	DECAL CAUTION GUARDS REMOVED
50	025-13056	1	DECAL 718VR2 YELLOW SAFETY
51	025-13055	1	DECAL 718VR2 SER# GREY
52	025-15255	1	DECAL SUPER VAC RED W/WHITE
53	021-10508	1	CONTROLLER, VR2 1.5 HP

12. Exploded View

