READ THIS FIRST Smoke ejector user guide Model P164-BH





USER GUIDE

This manual covers the description, cautions, operation, and maintenance of the Super Vac P164-BH. **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.

Model #	RPM	Motor	HxWxD	Weight
P164-BH	2,036	1 HP Variable Speed DC	25.50" x 18.88" x 9.75"	38 lbs

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. Each blade is dynamically balanced for high efficiency and long life.

3. Product Safety Precautions

- 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 motor. Be certain all mechanical motion has stopped. Do not use with any power voltage other than the indicated voltage.
- Never handle energized power cords with wet hands.
- Do not place or operate ventilator on unsteady tables, slanted surfaces or other unstable surfaces.
- Never use this ventilator in any explosive environment.
- Never let extension cords or plug connections lay in water. Locate the ventilator so that it cannot fall into water inadvertently.
- Never store or carry the battery pack so that metal objects can contact exposed battery terminals. Transporting batteries can possibly cause fires if the battery terminals contact loose nails, screws, keys, hand tools and the like.

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4. Before Operating Ventilator

- This ventilator will work with HURST®'s EWXT[™]/E3[™] Battery Platforms.
- **ACAUTION** A complete inspection of the ventilator should be made prior to operation.
- Check all threaded fasteners for proper tightness. 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.
- Replace damaged or missing guards before operating ventilator.
- Never store or carry the battery pack so that metal objects can contact exposed battery terminals. Transporting batteries can possibly cause fires if the battery terminals contact loose nails, screws, keys, hand tools and the like.
- **ACAUTION** If using shore or mains power:

o Never use power cords with frayed, cut, or brittle insulation.

o Inspect power cord plug for proper connections to the ground fault interrupter circuit.

Airflow VS Setback

Shroud Only = 100% Airflow



Shroud + Venturi Effect = 200% Airflow



Ducting Shroud on Exit Side = 70% Airflow



(2) 5 Amp-Hours

5. Operation

- Awarning Use caution not to direct toxic fumes into confined spaces with the ventilator.
- Insert a HURST EWXT/E3 battery until it clicks. Only one battery is necessary for operation.
- Fan will need to be reset (turned off & on) if a new battery is inserted.
 - If fan is not reset, then the fan will not recognize the new battery and run until previous battery is empty.
- If using shore (mains) power, use an extension cord to connect to 110 240V AC.
- Press and hold power button until blue backlight indicates powering up.
- When the fan is on, it will need to run at the minimum speed. (This feature is to protect the batteries from small parasitic draws)
- Turn speed control clockwise until desired speed is reached.
- Power button will indicate approximate power left. (It is normal for colors to flicker back and forth if 2 batteries are being used)
 - o Green: 50 100%
 - o Yellow: 20 50%
 - o Red: 0 20% (Low Battery Warning: Front)



Runtimes [at max speed]

6. Charging the Battery Packs

- Remove batteries from fan.
- **ACAUTION** Insert in HURST brand chargers only.
- When the battery pack temperature is outside the charging range
- (25-105°F or 4-40°C), the red light on the charger will flash and the batterywill not charge.
- Once the battery pack is within the acceptable temperature range, normal charging will take place.
 - Using the HURST charger, a 9Ah battery will recharge in 150 minutes and 5Ah battery will recharge in 100 minutes.

7. Maintenance and Repair Acaution

Maintenance should only be performed by experienced and trained personnel. If you have any questions, contact Super Vac before attempting any maintenance at info@supervac.com or 1-800-525-5224.

To-Do Checklists:

Daily/After Each Use:

- Charge batteries completely
- Check that Guards are undamaged and effectively prevent objects from contacting the blade
- Wheels and feet are in place and tight
- Tilt Mechanism works properly
 - If tilt adjust is too loose, tighten knurled nut on the Tilt Mechanism.
 - For larger adjustments, tighten nut with 9/16" (14mm) wrench.

Weekly/Monthly/Quarterly:

- Calibrate Battery
 - Fully charging, then fully discharging, and fully charging once again before storage
 - Replace battery (-ies) if battery shows signs of damage from dropping or excessive heat
- Check for loose fasteners
- Check condition of the power cord (if purchased with Shore Power) (14mm) wrench.

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ACAUTION

- Do not store battery packs or chargers above 120°F (50°C) or in direct sunlight.
- Never use charger or batteries in explosive atmospheres.
- Never attempt to open the battery pack. If cracked or damaged, return it to a service center for recycling.
- Batteries are rated for use in IP68 environments, however do not splash or immerse charger in water or other liquids.

Yearly:

- Battery Condition
 - Check runtime in low wind and average temperature conditions
 - If runtime is below 75% of advertised runtime, replacing batteries is recommended
- Excessive vibration
 - Blade imbalance due to accumulation of dirt on blade
- Check Blade interference
 - Remove front guard and rotate manually to check for interference

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8. Warranty

HURST EWXT/E3 batteries carry a separate 3-year limited warranty for the compatible battery packs and chargers. For more information, contact them at www.jawsoflife.com or 1-800-537-2659.

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, excluding the motor which has a 3-year warranty. 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.

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9. 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

10. Fan Parts List

	PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION		
1	1	003-15330	BLADE, PLASTIC, 30DEG, V16-BX		
2	1	005-15356	POWER SUPPLY, 750W, 27V, V1X-BX		
3	2	005-18007	BATTERY ADAPTER PLATE, V20-BH		
4	2	005-18008	BATTERY ADAPTER PLATE COVER, V20-BH		
5	1	005-18022	MOTOR PLATE GASKET, V20-BX		
6	2	005-18023	SEAL, BATTERY ADAPTER, BH		
7	2	005-18024	SEAL, BH BATTERY ADAPTER PCB		
8	2	005-18041	BATTERY ADAPTER, PCB ASM VXX-BH		
9	2	005-18056	BH RECEIVER, SPACER, SMOKE EJECTOR		
10	1	008-10567	SPOOL HOLDER, P164-BX		
11	1	008-10568	CABLE BOX, P164-BX		
12	1	008-14166	BUSHING, MARTIN, G, 12MM BORE, VXX-BX		
13	1	012-15392	STREAMSHAPER GUARD FOR 16" PPV FAN		
14	1	012-15400	BACKGUARD, P164-B, 36V-28V BAU, WLDMNT		
15	1	018-16245	HOUSING, P164-BX		
16	1	018-16248	BOX, POWER SUPPLY, WELDMENT, P164-BX		
17	1	018-16252	TOP COVER, WELDMENT, P164-BX		
18	1	019-20533	PLATE, COVER MOTOR BAU VXX-BX		
19	1	021-10531	MOTOR, 28VDC, VALOR SERIES		
20	1	025-10101	DECAL, SERIAL NUMBER, P164-BX		
21	1	025-10105	DECAL, INFO, P164-BH		
22	1	025-16020	DECAL, SHROUD, CENTER, VXX-BX		
23	4	032-10089	SCREW,SHCS,10-24x1-1/4,SS		
24	4	032-10090	SCREW, 10-24 UNC X 5/8 in, SHCS, S, BLACK, PATCH		
25	2	032-24339	SCREW, 1/4-20 UNC X 1 in, HHCS, SS		
26	10	032-24440	WASHER, 1/4-20, SPLIT LOCK, S, ZINC		
27	4	032-26260	SCREW, M3X0.5 ANSI M, 6mm, PPMS, SS, BLACK		
28	2	034-24440	3/16 X .250 Std Pop Rivet		



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