

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Dayton® Fume Exhausters

Description

The Dayton Fume Exhausters are designed for continuous operation to exhaust fumes and smoke from welding, brazing or soldering operations. The mounting frame can be used for portable or stationary mounting.

⚠ DANGER Do not use this fume exhauster in a flammable or explosive atmosphere. Do not use to exhaust aluminum or magnesium dust, nor any other chemically reactive dusts. Consult National Fire Protection Association (NFPA) standards before setting up a dust collection system, especially NFPA 664.

⚠ DANGER Do not use to exhaust air from a confined space; this can cause death due to lack of oxygen. Do not place or operate any fume exhauster inside a tank or confined area that contains or did contain volatile fumes or liquid.

Unpacking

Check for shipping damage. If damage has occurred, a claim must be filed with the carrier immediately. Check for completeness. Immediately report any

missing parts to dealer. Remove all components of fume exhauster from shipping carton. Refer to Figures 7 or 8, pages 8 and 10.

Locate and account for the following components:

- Base (Ref. No. 9)
- 108" Long hose (Ref. No. 31)
- Inlet reducer for 3AA22B and 3AA23B (Ref. No.16)
- 90° Elbow (Ref. No. 5)
- Two each hose clamps (Ref. No. 32)
- Fume exhauster housing assembly (Ref. No. 3)
- Hardware bag

Specifications

Model	Max. CFM*	Max. SP**	Max. VEL.***	db A @ 5 Ft.	Inlet Hose Size (In.)	Blower Housing Material	HP****	Voltage 60 Hz	Approx. Running Amps	Approx. Weight (lbs)
3AA20B	600	7.0	5200	79	4	Steel	3/4	115/230V, 1 Ph	7.5/7.35	71
3AA22B	1100	5.6	6900	86	5	Fiberglass	1½	115/230V, 1 Ph	16/8.0	62
3AA23B	1100	5.6	6900	84	5	Fiberglass	1½	230/460V, 3 Ph †	4.2/2.1	62

(*) At free air.

(**) Static pressure (In. of water column) at no airflow.

(***) In feet per minute (FPM).

(****) All electric motors are 3450 RPM, TEFC.

† NOTE: For 460V operation, the 230V control box (Ref. 28) must be exchanged for a 460V control box and installed on unit.

Dimensions

Refer to chart below and Figure 1

Model	HP	Overall Length L (In.)	Overall Width W (In.)	Overall Height H (In.)	A (In.)	B (In.)	Inlet Size (In)
3AA20B	3/4	13½	14	26¾	24¼	7¾	4
3AA22B	1½	21	22½	35½	32¼	11¾	5
3AA23B	1½	21	22½	35½	32¼	11¾	5

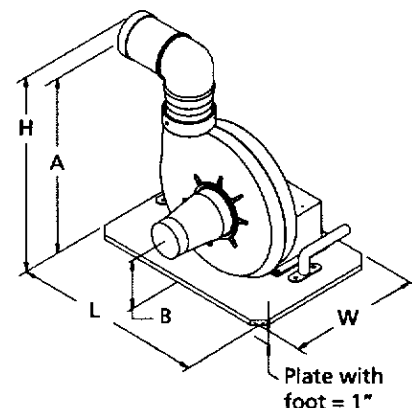


Figure 1 - Fume Exhauster Dimensions

Dayton® Fume Exhausters

General Safety Information

⚠ WARNING *For your own safety, read all of the instructions and precautions before operating tool.*

⚠ CAUTION *Always follow proper operating procedures as defined in this manual — even if you are familiar with use of this or similar tools. Remember that being careless for even a fraction of a second can result in severe personal injury.*

BE PREPARED FOR JOB

1. Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts of machine.
2. Wear protective hair covering to contain long hair.
3. Wear safety shoes with non-slip soles.
4. Wear safety glasses complying with United States ANSI Z87.1. Everyday glasses have only impact resistant lenses. They are **NOT** safety glasses.
5. Wear face mask or dust mask if operation is dusty.
6. Be alert and think clearly. Never operate power tools when tired, intoxicated or when taking medications that cause drowsiness.

PREPARE WORK AREA FOR JOB

1. Keep work area clean. Cluttered work areas and work benches invite accidents.
2. Do not use power tools in dangerous environments. Do not use power tools in damp or wet locations. Do not expose power tools to rain.
3. Work area should be properly lighted.
4. Proper electrical outlet should be available for tool. Three-prong plug should be plugged directly into prop-

erly grounded, three-prong receptacle.

5. Extension cords should have a grounding prong and the three wires of the extension cord should be the correct gauge.
6. Keep visitors at a safe distance from work area.
7. Keep children out of workplace. Make workshop childproof. Use padlocks, master switches and remove switch keys to prevent any unintentional use of power tools.

TOOL SHOULD BE MAINTAINED

1. Always unplug tool prior to inspection.
2. Consult manual for specific maintaining and adjusting procedures.
3. Keep tool lubricated and clean for safest operation.
4. Remove adjusting tools. Form habit of checking to see that adjusting tools are removed before switching machine on.
5. Keep all parts in working order. Check to determine that the guard or other parts will operate properly and perform their intended function.
6. Check for damaged parts. Check for misalignment of moving parts, binding, breakage, mounting or any other condition that may affect a tool's operation.
7. A guard or other damaged part should be properly repaired or replaced. Do not perform makeshift repairs. (Use the parts list provided to order repair parts.)

KNOW HOW TO USE TOOL

1. Use right tool for job. Do not force tool or attachment to do a job for which it was not designed.
2. Disconnect tool from electric power when servicing fume exhauster.

3. Avoid accidental start-up. Make sure that tool switch is in OFF position before plugging in.
4. Do not force tool. It will work most efficiently at the rate for which it was designed.
5. Leave hands free to operate machine. Protect hands from possible injury.
6. Never leave a tool running unattended. Turn the power off and do not leave tool until it comes to a complete stop.
7. Do not overreach. Keep proper footing and balance.
8. Never stand on tool. Serious injury could occur if tool is tipped over.
9. Keep hands away from moving parts.
10. Know your tool. Learn the tool's operation, application and specific limitations.

⚠ DANGER *The operation of any power tool can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses complying with United States ANSI Z87.1 (shown on package) before commencing power tool operation. Safety glasses are available through your Grainger catalog.*

Assembly

Refer to Figures 2 and 3, page 3.

MOUNT RUBBER FEET

Refer to Figure 2, page 3.

Rubber feet are mounted onto the four corners of the base. To mount rubber feet:

1. Lay the base on a flat surface.
2. Mount rubber feet in hole on the corner using flat washers and hex nut.
3. Repeat steps 1 and 2 to mount three rubber feet to remaining corners.

Models 3AA20B, 3AA22B and 3AA23B

Assembly (Continued)

MOUNT MOTOR BASE

Refer to Figure 2.

Motor base is mounted onto top of base. To mount motor base:

1. Position motor base on top of large base as shown.
2. Secure motor base to base using four hex bolts, flat washers and hex nuts.

MOUNT HANDLES

MODEL 3AA20B

Refer to Figure 7, page 8.

1. Position handle on back of blower housing (Ref. No. 3).
2. Secure handle (Ref. No. 11) to blower housing using hex head bolts, flat washers and hex nuts.

MODELS 3AA22B AND 3AA23B

Refer to Figure 2.

Handles are mounted onto top of base. To mount handles:

1. Position handle on top of large base as shown.
2. Secure handle to base using hex head bolts, flat washers and hex nuts.
3. Repeat steps 1 and 2 to mount remaining handle to base.

MOUNT BLOWER HOUSING ASSEMBLY

Refer to Figure 2.

Blower housing assembly is mounted to the motor base. To mount blower housing assembly:

1. Position motor foot of blower housing assembly on motor base as shown. Block or hold blower housing assembly so that it is stable.
2. Secure motor foot of blower housing assembly to motor base using four hex bolts, flat washers and hex nuts.

MOUNT REDUCER

Refer to Figure 2.

Reducer is mounted to inlet guard of blower housing assembly. To mount reducer:

1. Position reducer onto inlet guard so that holes are aligned.
2. Secure reducer to inlet guard using self-tapping screw.

NOTE: Model 3AA20B does not have reducer.

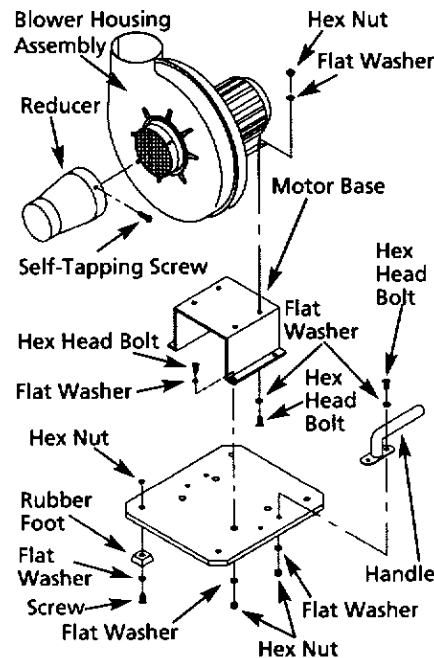


Figure 2 - Mounting Rubber Feet, Motor Base, Blower Housing and Reducer

ATTACH HOSE

Refer to Figure 3.

Hose is attached to reducer or inlet guard. To attach hose:

1. Slide hose clamp onto free end of hose. Loosen clamp screw if required to slide hose clamp onto hose.

2. Position the hose clamp wires on the hose grooves.
3. Slide hose with clamp onto reducer.
4. Tighten hose clamp screw to secure hose to reducer.

ATTACH NOZZLE

Refer to Figure 3.

Nozzle is attached onto end of hose. To mount nozzle:

1. Place hose clamp onto one end of hose, loosen clamp screw if required to slide hose clamp onto hose.
2. Slide connector side of nozzle all the way into hose.
3. Position hose clamp approximately 1" from end of hose and tighten securely.

ATTACH ELBOW

Refer to Figure 3.

1. Position elbow on outlet guard as shown.
2. Secure elbow to outlet guard using self-tapping screw.

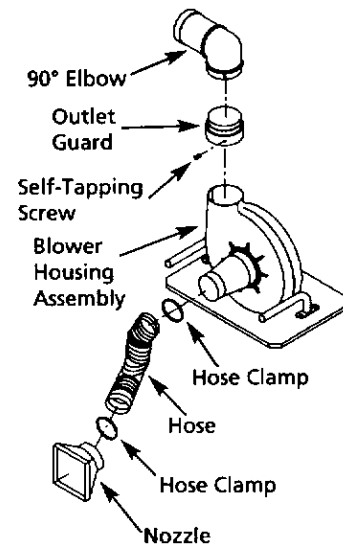


Figure 3 - Mounting Hose, Nozzle and Elbow

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Dayton® Fume Exhausters

ENGLISH

Installation

⚠ DANGER Do not permit fingers to touch terminals of plug when installing or removing the plug to or from the outlet.

⚠ WARNING Do not connect to power source until unit is completely assembled.

SINGLE PHASE, MODELS 3AA20B AND 3AA22B

POWER SOURCE

1. Motor is designed for operation on 115V or 230V, 60Hz.
2. Motor is prewired for operation on 115V, 60Hz.
3. Normal loads will be handled safely on voltages not more than 10% above or below the specified voltage.
4. Running unit on voltages not within range may cause overheating and motor burnout.

GROUNDING INSTRUCTIONS

Refer to Figure 4.

1. This tool is equipped with a 3-conductor cord.
2. Do not remove or alter grounding prong in any manner. In the event of malfunction or breakdown, grounding provides path of least resistance for electrical current to reduce risk of electrical shock.
3. Plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
4. The conductor with insulation having an outer surface which is green is equipment grounding conductor. If repair or replacement is necessary, make sure equipment grounding conductor is not connected to line terminal.

5. If power cord is worn, cut or damaged in any way, have it replaced immediately.

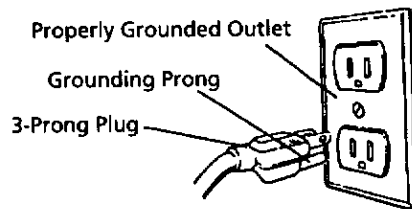


Figure 4 – Properly Grounded Outlet, 115 Volt

⚠ CAUTION Improper connection of the equipment-grounding conductor can result in a risk of electrical shock.

EXTENSION CORDS

1. The use of any extension cord will cause some drop in the voltage and loss of power.
2. Wires of the extension cord must be sufficient in size to carry the current and maintain adequate voltage.
3. Use the table below to determine the minimum wire size (A.W.G.) extension cord. Extension cords are not recommended for Models 3AA22B or 3AA23B.
4. Use only 3-wire extension cords having 3-prong grounding type plugs and 3-pole receptacles which accept the tool plug.
5. If extension cord is worn, cut or damaged in any way, have it replaced immediately.

EXTENSION CORD LENGTH

Wire Size	A.W.G.
Up to 50 ft.	16

NOTE: Using extension cords over 50 ft. long is not recommended.

ELECTRICAL CONNECTIONS

⚠ WARNING All electrical connections must be performed by a qualified electrician. Make sure tool is off and disconnected from power source while motor is mounted, connected, reconnected or anytime wiring is inspected.

Motor and wires are installed as shown in wiring diagram (See Figure 5). Motor is assembled with approved, 3-conductor cord to be used at 115/230 volts. Motor is prewired at the factory for 115 volts.

To use the fume exhausters with a 230V power supply, have a qualified electrician rewire motor and attach a 230 volt, 15A three-prong plug onto fume exhauster line cord.

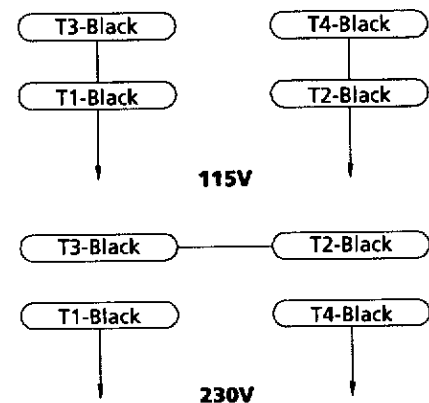


Figure 5 – Wiring Diagram

THREE PHASE, MODEL 3AA23B

WIRING FUME EXHAUSTER

Refer to Figure 6, page 5.

1. Fume exhauster is prewired at the factory for 230 volt, 3-phase operation. See Figure 6 for wiring diagram.
2. This unit is pre-wired @ 230V, should this unit require 460V connection, proper wires and switch must be utilized. A certified or experienced electrician must perform all installations.

Models 3AA20B, 3AA22B and 3AA23B

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Installation (Continued)

VOLTAGE CHANGE DIAGRAM

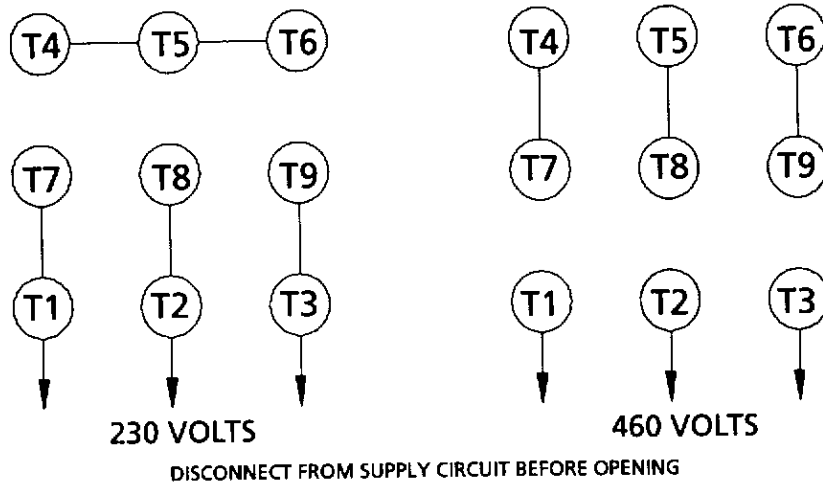


Figure 6 - Wiring Diagram

NOTE: For 460V operation, the 230V control box (Ref. 28) must be exchanged for a 460V control box and installed on unit.

- Test fume exhauster to be sure motor fan rotates in direction of rotation arrow. Switch any two leads to reverse rotation if needed.

⚠ WARNING *Wiring should be performed by a qualified electrician.*

GROUNDING INSTRUCTIONS

⚠ WARNING *Improper connection of equipment grounding conductor can result in risk of electrical shock. Equipment should be grounded while in use to protect operator from electrical shock.*

Inspect tool cords periodically, and, if damaged, have them repaired by an authorized service facility.

Green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal.

Many cover plate screws, water pipes and outlet boxes are not properly grounded. To ensure a proper ground, the grounding means must be tested by a qualified electrician.

INSTALLATION FOR ALL MODELS

⚠ CAUTION *Do not use fume exhauster where ambient temperatures exceed 104° F (40° C) or in corrosive or explosive atmospheres. Do not exhaust fumes that are over 180° F. (82° C).*

⚠ DANGER *Do not use to exhaust air from a confined space; this can cause death due to lack of oxygen. Do not place or operate any fume exhauster inside a tank or confined area that contains or did contain volatile fumes or liquid.*

Distance of Exhaust Nozzle from Arc or Torch (in.)	AWS Recommended CFM Airflow	Nozzle Diameter (in.)
Up to 6	250	4
6 to 9	560	5
9 to 12	1000	8

⚠ DANGER *Hazardous moving parts are inside the fume exhauster. Disconnect electric power before removing inlet guard. Attach inlet guard before connecting electric power.*

⚠ WARNING *Beware of debris in the airflow. Keep face and body away from outlet.*

The fumes collected by the fume exhauster should always be piped to the outside. Locate the fume exhauster as close as possible to both the operation and outside exhaust opening. Air flow will be reduced approximately 2 CFM for every additional foot of hose or duct installed. Each 90° change in direction will reduce air flow about 15 CFM.

The fume exhauster can be installed with the motor in any position, including vertical.

Operation

Refer to Figures 7 or 8, pages 8 and 10.

- Place exhauster as near as practical to welder or other equipment. Should provide an air flow rate sufficient to maintain a velocity of 100 feet per minute in the welding zone. Use table below to determine minimum air flow rate recommended by the American Welding Society to achieve this controlled velocity.

Select the exhauster with air flow CFM that exceeds recommended figure obtained from the table.

Dayton® Fume Exhausters

Maintenance

⚠ DANGER Turn switch off and remove plug from power source outlet before maintaining your fume exhauster.

Refer to Figures 7 or 8, pages 8 and 10.

1. Clean motor of dust, chips or other particles. If operation is excessively dusty or dirty, frequent inspection of motor is required. Vacuum any particles that may have entered the

motor.

2. Replace worn, cut or damaged line cord.
3. If a vibration should develop, it may indicate excessive wear or damage to the blower wheel. In this case, with the motor turned OFF and LOCKED OUT, inspect the blower wheel. If any damage or excessively worn areas are noted, replace the blower wheel.
4. Frequently check that all nuts, bolts, screws, etc. have not loosened due to

collector vibration.

⚠ DANGER Do not operate the fume exhauster with a damaged or severely worn blower wheel. The wheel may disintegrate at operating speed, and high speed fragments may cause death or severe personal injury and property damage.

Troubleshooting Chart

Symptom	Possible Cause(s)	Corrective Action
Motor will not run	<ol style="list-style-type: none"> 1. Defective plug, cord, switch or motor 2. Blown fuse or circuit breaker 3. Material wedged between impeller and housing 	<ol style="list-style-type: none"> 1. Check wiring, replace defective parts 2. Check fuse or breaker, replace 3. Disconnect motor. Remove material that may be wedged between impeller and blower housing
Excessive impeller noise	<ol style="list-style-type: none"> 1. Debris or piece of wood between impeller and blower housing 2. Loose impeller 	<ol style="list-style-type: none"> 1. Remove material that may be wedged in impeller 2. Disconnect fume exhauster from power source. Remove inlet guard (Figure 7 or 8, Ref. No. 6) and tighten impeller
Excessive motor noise	Defective motor	Have motor checked by qualified motor service technician
Motor fails to develop full power or motor stalls	<ol style="list-style-type: none"> 1. Low voltage to collector caused by circuit overload 2. Low voltage to collector caused by undersized extension cords 3. Low voltage from power source 	<ol style="list-style-type: none"> 1. Remove other electric machines or appliances from circuit 2. Increase wire gauge size of extension cords or shorten extension cords 3. Request voltage check from power company
Motor slow to start or fails to reach full speed	<ol style="list-style-type: none"> 1. Burned or defective motor 2. Defective motor capacitor 3. Defective motor capacitor switch 	<ol style="list-style-type: none"> 1. Check motor, replace if necessary 2. Replace capacitor 3. Check switch, replace if necessary
Motor overheats	<ol style="list-style-type: none"> 1. Motor overload 2. Improper motor cooling 	<ol style="list-style-type: none"> 1. Reduce load by slowing dust production 2. Clean sawdust from motor
Tripping circuit breaker or fuses	<ol style="list-style-type: none"> 1. Motor overloaded 2. Improper capacity of circuit breaker or fuses 	<ol style="list-style-type: none"> 1. Reduce load by slowing dust production 2. Use proper capacity circuit breaker or fuse

For Repair Parts, call 1-800-323-0620

24 hours a day – 365 days a year

Please provide following information:

- Model number
- Serial number (if any)
- Part description and number as shown in parts list

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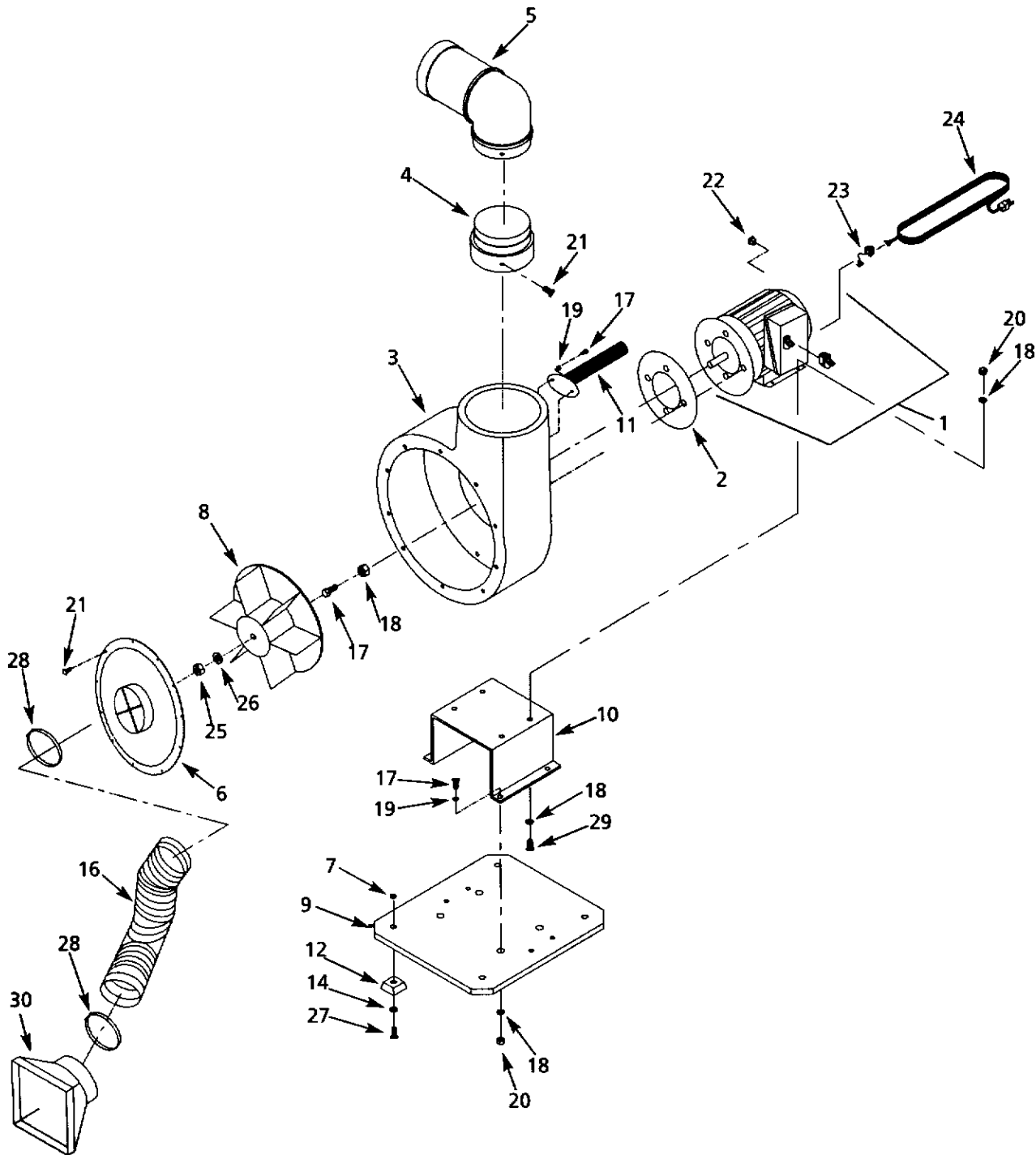


Figure 7 – Repair Parts Illustration for Fume Exhausters

Repair Parts List for Fume Exhauster

Reference Number	Description	Part Number	Quantity
1	Motor assembly	HV2123700G	1
2	Motor gasket	HV2116600G	1
3	Blower housing	HV2123800G	1
4	Outlet guard	HV2123900G	1
5	90° Elbow	HV2124700G	1
6	Inlet guard	HV2124000G	1
7	M6 Hex nut	*	4
8	Impeller	HV2119900G	1
9	Base	HV2448700G	1
10	Motor base	HV2448800G	1
11	Handle	HV2356500G	1
12	Rubber foot	HV2124500G	4
13	M6 x 20 Hex head screw	*	8
14	6 mm Flat washer	*	12
15	M6 Fiber hex nut	*	8
16	Inlet hose (108" long)	HV2113700G	1
17	M8 x 20 mm Hex head bolt	*	10
18	M8 Flat washer	*	12
19	8 mm Lock washer	*	6
20	M8 Hex nut	*	8
21	4.2 x 12.7 mm Self-tapping screw	*	8
22	Switch with key	HV0806600G	1
23	Strain relief	HV0141300G	1
24	Line cord	HV2114900G	1
25	Motor bolt	HV2119000G	1
26	Motor flat washer	HV2119100G	1
27	M6 x 20 mm Hex head screw	*	4
28	Hose clamp	*	2
29	M8 x 25 mm Hex head bolt	*	4
30	Back port nozzle	HV2119400G	1
Δ	Hardware bag	HV2124900G	1
	Recommended Accessories		
Δ	4" Hose extension kit	3AA34B	

(*) Standard hardware item, available locally.

(Δ) Not Shown.

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For Repair Parts, call 1-800-323-0620

24 hours a day - 365 days a year

Please provide following information:

- Model number
- Serial number (if any)
- Part description and number as shown in parts list

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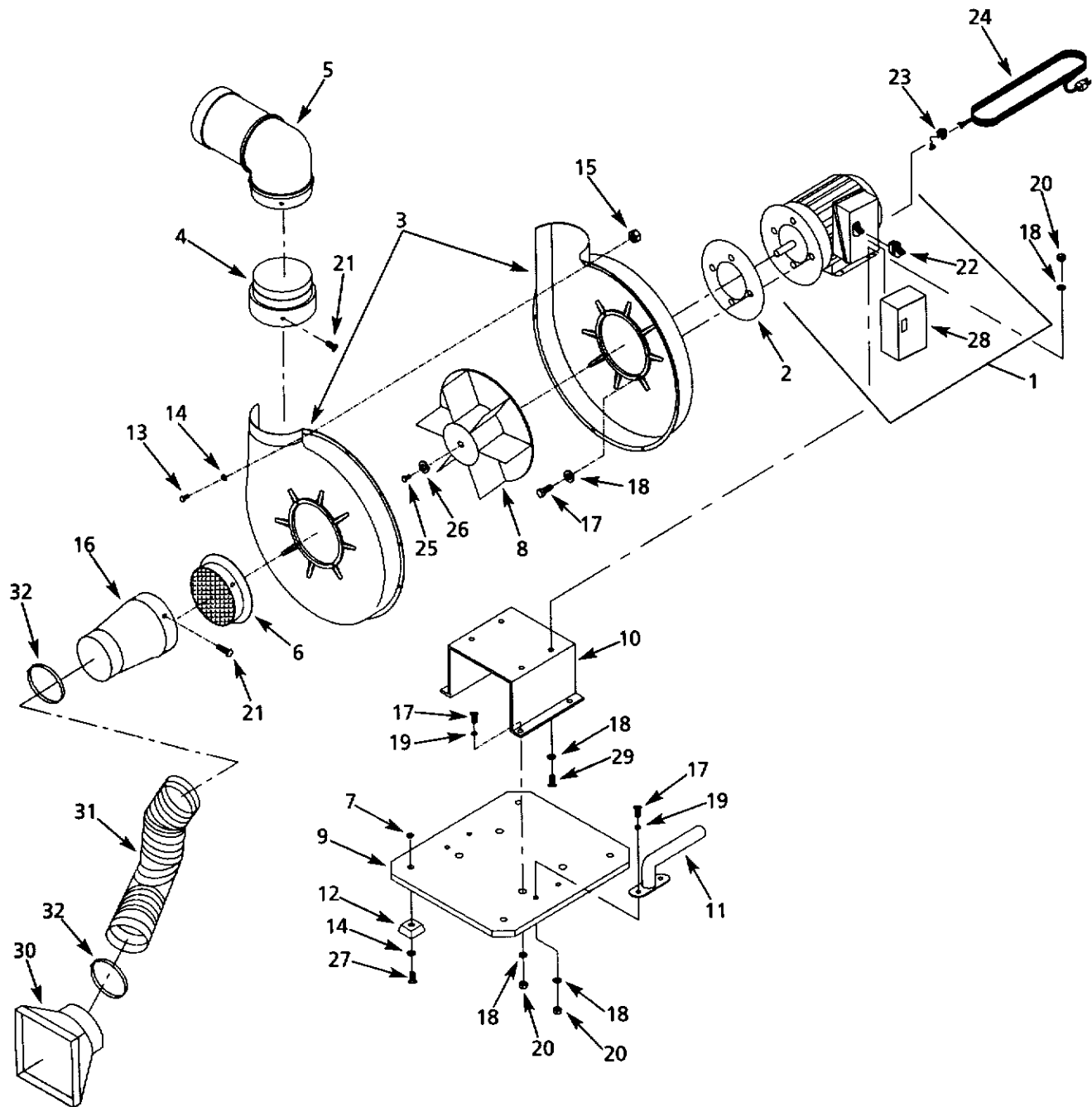


Figure 8 - Repair Parts Illustration for Fume Exhausters

Repair Parts List for Fume Exhausters

Reference Number	Description	Part Number for Models:		Quantity
		3AA22B	3AA23B	
1	Motor assembly	HV2125000G	HV2125500G	1
2	Motor gasket	HV2122600G	HV2122600G	1
3	Blower housing assembly (2 pcs.)	HV2125100G	HV2125100G	1
4	Outlet guard	HV2120600G	HV2120600G	1
5	90° Elbow	HV2120700G	HV2120700G	1
6	Inlet guard	HV2125200G	HV2125200G	1
7	M6 Hex nut	*	*	4
8	Impeller	HV2121000G	HV2121000G	1
9	Base	HV2124200G	HV2124200G	1
10	Motor base	HV2124300G	HV2124300G	1
11	Handle	HV2124400G	HV2124400G	2
12	Rubber foot	HV2124500G	HV2124500G	4
13	M6 x 20 mm Hex head screw	*	*	8
14	6 mm Flat washer	*	*	12
15	M6 Fiber hex nut	*	*	8
16	Reducer	HV2121500G	HV2121500G	1
17	M8 x 20 mm Hex head bolt	*	*	12
18	8 mm Flat washer	*	*	16
19	8 mm Lock washer	*	*	8
20	M8 Hex nut	*	*	12
21	4.2x12 mm Self-tapping screw	*	*	8
22	Switch with key	HV0806600G	—	1
23	Strain relief	HV2122800G	HV2122800G	1
24	Line cord	—	—	1
25	Motor bolt	HV2121900G	HV2121900G	1
26	Motor flat washer	HV2122000G	HV2122000G	1
27	M6 x 20 mm Hex head screw	*	*	4
28	Control box assembly, 230V	—	HV2123200G	1
28	Control box assembly, 460V	—	HV2327900G	1
29	M8 x 25 mm Hex head bolt	*	*	4
30	Back port nozzle	HV2122200G	HV2122200G	1
31	Inlet hose (108" long)	HV2125800G	HV2125800G	1
32	Hose clamp	*	*	2
Δ	Hardware bag	HV2125400G	HV2125400G	1
Recommended Accessories				
Δ	5" Hose extension kit	3AA35B	3AA35B	
Δ	6" Hose extension kit	3AA36B	3AA36B	

(*) Standard hardware item, available locally.

(Δ) Not Shown.

Dayton® Fume Exhausters

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LIMITED WARRANTY

DAYTON ONE-YEAR LIMITED WARRANTY. DAYTON® FUME EXHAUSTERS, MODELS COVERED IN THIS MANUAL, ARE WARRANTED BY DAYTON ELECTRIC MFG. CO. (DAYTON) TO THE ORIGINAL USER AGAINST DEFECTS IN WORKMANSHIP OR MATERIALS UNDER NORMAL USE FOR ONE YEAR AFTER DATE OF PURCHASE. ANY PART WHICH IS DETERMINED TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP AND RETURNED TO AN AUTHORIZED SERVICE LOCATION, AS DAYTON DESIGNATES, SHIPPING COSTS PREPAID, WILL BE, AS THE EXCLUSIVE REMEDY, REPAIRED OR REPLACED AT DAYTON'S OPTION. FOR LIMITED WARRANTY CLAIM PROCEDURES, SEE "PROMPT DISPOSITION" BELOW. THIS LIMITED WARRANTY GIVES PURCHASERS SPECIFIC LEGAL RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION.

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Prompt Disposition. A good faith effort will be made for prompt correction or other adjustment with respect to any product which proves to be defective within limited warranty. For any product believed to be defective within limited warranty, first write or call dealer from whom the product was purchased. Dealer will give additional directions. If unable to resolve satisfactorily, write to Dayton at address below, giving dealer's name, address, date, and number of dealer's invoice, and describing the nature of the defect. Title and risk of loss pass to buyer on delivery to common carrier. If product was damaged in transit to you, file claim with carrier.

Manufactured for Dayton Electric Mfg. Co., 5959 W. Howard St., Niles, Illinois 60714-4014 U.S.A.

**Manufactured for Dayton Electric Mfg. Co.
Niles, Illinois 60714 U.S.A.**

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