

Part #124313-001

Product Manual:

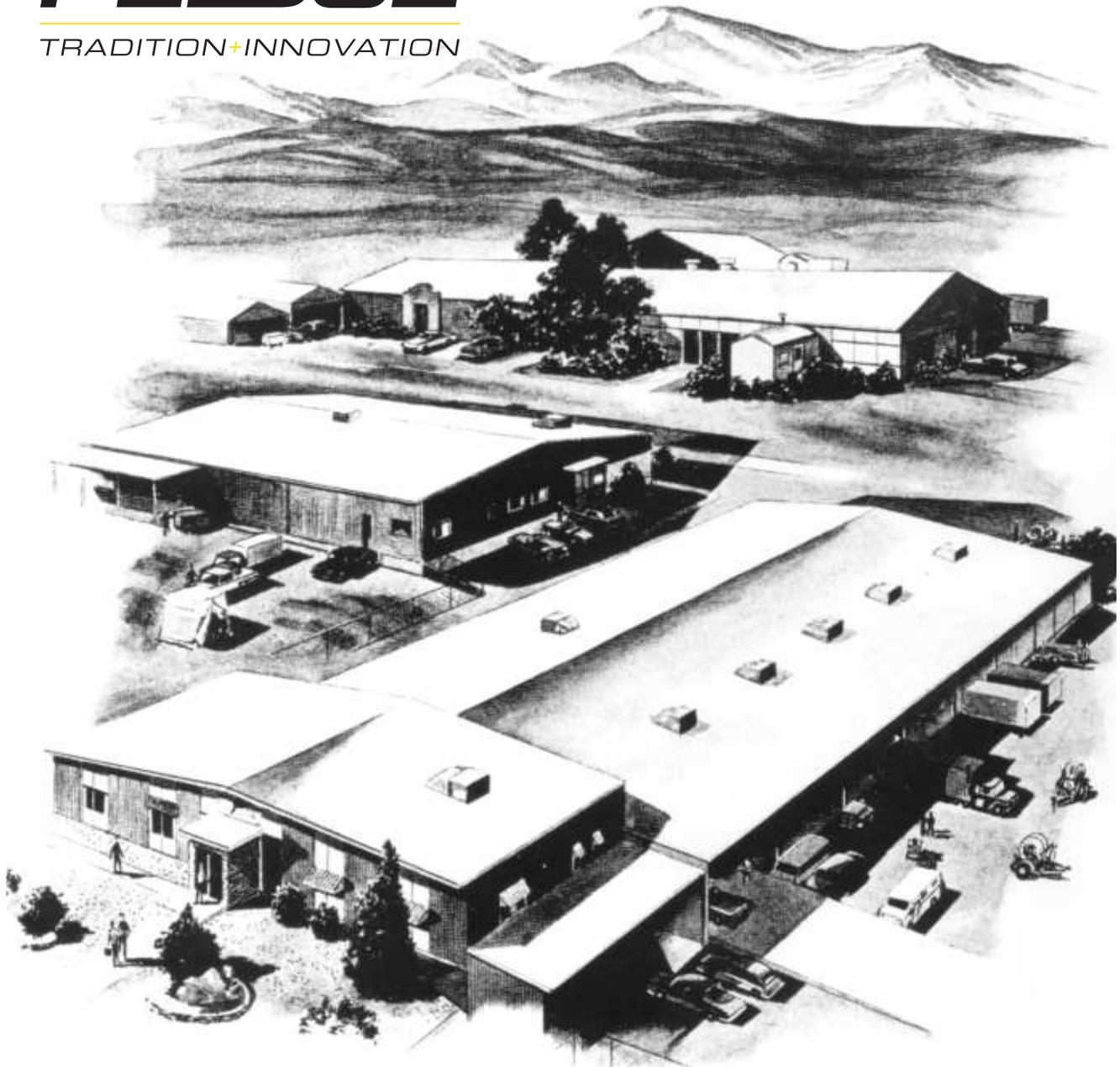
Pelsue Airpac

Model #Airpac15, #Airpac25, #Airpac15-S, #Airpac25-S
Attachable Hose Canister




PELSUE[®]
ISO 9001 Certified

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Since our inception in 1963 – the T.A. Pelsue Company has designed and manufactured high quality equipment to improve the personnel efficiency and working conditions in various underground, confined, and outdoor areas.

Founded by T. Allen Pelsue, the company has established a continuing reputation for excellence in the production of fine products for a broad spectrum of industry throughout the world.

Now, in our second generation of family direction, continued commitment to innovation and quality makes Pelsue a leading source of equipment for many types of confined spaces. We specialize in safety, retrieval, fall arrest, ventilation, cable placing, splicing, and maintenance nationally and abroad. With more than 70,000 square feet of facilities available, Pelsue continues the dedication that has made us pre-eminent in this field.

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T.A. Pelsue Company

Quality Policy

OUR GOAL IS THE PURSUIT OF NEVER-ENDING IMPROVEMENT IN PRODUCT QUALITY AND BUSINESS SYSTEMS.

METHODS TO BE EMPLOYED IN ATTAINING THIS GOAL WILL INCLUDE NEW PRODUCT QUALITY PLANNING, EMPLOYEE TRAINING, AND UTILIZATION OF EMPLOYEE INVOLVEMENT GROUPS TO SOLVE PROBLEMS.

IN AN INCREASINGLY COMPETITIVE MARKETPLACE, ENSURING CUSTOMER SATISFACTION IS ONE OF THE DIFFERENTIATORS THAT SETS YOU APART FROM THE PACK AND YIELDS A COMPETITIVE ADVANTAGE.

THEREFORE, WE WILL SUPPORT TOTAL CUSTOMER SATISFACTION BY IMPLEMENTING THE **ISO 9001 QUALITY SYSTEM** AND PROVIDING THE NECESSARY ATMOSPHERE AND TRAINING TO NURTURE THIS CONCEPT THROUGHOUT OUR ORGANIZATION.

WE WILL MAKE EVERY BUSINESS DECISION AS THOUGH THE QUALITY OF THE PART OR SERVICE PROVIDED WAS DESTINED FOR OUR OWN OR OUR FAMILY'S USE. WE WILL ALWAYS THINK **QUALITY FIRST**.

EVERY T.A. PELSUE COMPANY EMPLOYEE IS EXPECTED TO COMMIT TO THIS PHILOSOPHY IN THE PERFORMANCE OF HIS OR HER DAILY TASKS.

QUALITY FIRST!

T.A. PELSUE COMPANY SENIOR MANAGEMENT TEAM

1.2 - Pelsue Product Warranty

Pelsue products are designed and engineered to perform as stated in published specifications. Quality materials and workmanship are used in the manufacture of this product. With regular maintenance and proper care, Pelsue equipment provides many trouble free hours of operation.

The T.A. Pelsue Company warrants to the buyer that the Confined Space Ventilation Product furnished will conform to specifications and will be free from defects in material and workmanship from the date of shipment to the original buyer, for a period of 1 year (365 days). In the event of failure of any components of a Pelsue product within the warranty period, service must be pre-approved by the T.A. Pelsue Company, and service must be performed by the T.A. Pelsue Parts and Service Department in Englewood, Colorado, or at the option of the T.A. Pelsue Company, service may be performed at any designated service center, which may include any authorized service center for the component manufacturer. Unauthorized repairs will not be covered by this warranty.

Damage or failure due to misuse, mishandling, or unauthorized modifications will not be covered by this warranty. Unless otherwise agreed, the T.A. Pelsue Company shall repair or replace the defective components within (30) calendar days of notice of failure. T.A. Pelsue Company's obligation hereunder, shall be limited to the repair or replacement of the product or component as set forth above and shall not include any liability whatsoever for damages caused by such failure, including, but not limited to consequential or incidental damages flowing from use or lack of use of product.

Any replacement, repair, modification, installation, or other service performed by the T.A. Pelsue Company shall be warranted by the remainder of the unexpired period of the warranty, or for a period of (90) calendar days, whichever is longer.

All materials or parts returned for credit or warranty shall be returned only with prior approval, and will be subject to factory inspection before credit is allowed. Parts claimed defective will be replaced upon request and will be invoiced as purchased, subject to credit when the parts claimed to be defective have been received and examined by the factory.

This warranty is expressly in lieu of all other warranties expressed or implied, including any warranties of merchantability or warranties of fitness for any particular use and all other obligations or liabilities in connection with the sale of this equipment.

T.A. Pelsue Company, 2500 South Tejon Street, Englewood, Colorado 80110, 800-525-8460

2.0 - Introduction & Product Information

Congratulations on your choice of a **Pelsue Airpac Hose Canister** to compliment your confined space ventilation operation. This equipment has been designed and manufactured to exceed confined space requirements and regulations in order to meet the needs of the discriminating operator for the efficient and safe operations of personnel in a confined space.

Safe, efficient and trouble-free operation and maintenance of the system requires that anyone who will be operating, maintaining, or inspecting the equipment, read, understand and follow all the operation, safety, maintenance, and inspection instructions contained within this manual. This manual covers the Pelsue Airpac Hose Canister. Use the Table of Contents as a guide to find specific information.

Keep this manual handy for frequent reference and to pass on to new operators.

! WARNING

This product is a part of a system for confined space ventilation operations. The user must read, understand and follow the instructions contained in this manual before using this equipment. Failure to follow these instructions could result in serious injury or death.

3.0 - Configuration & Assembly

Upon initial receipt of the Pelsue Airpac Hose Canister, inspect the packaging for any evidence that the product may have been damaged in shipment. While unpacking the product, inspect all of the components for damage. If damage to any of the components is discovered, Alert the shipping carrier immediately of the damage to the shipment.

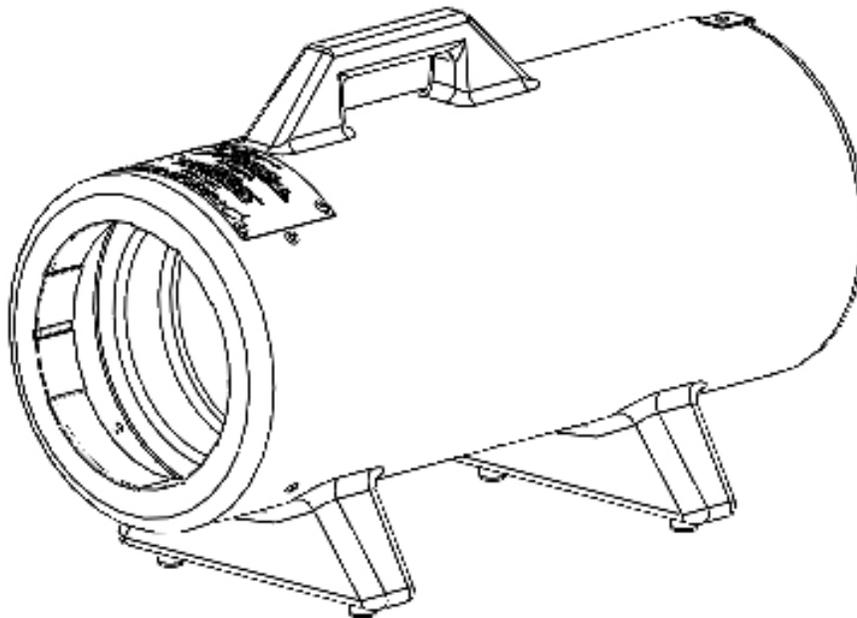


Figure 3.0: Pelsue Airpac
Isometric View

3.1 Parts Diagram & List

Refer to the following parts breakdown diagram (Fig. #3.1a) and the accompanying table for identification of parts in the event replacements become necessary. The parts identification table displays applicable part numbers, descriptions, and quantity per assembly.

**Refer to parts list below if replacement parts are required. Replacement parts can be ordered from the T.A. Pelsue Company at 800-525-8460.

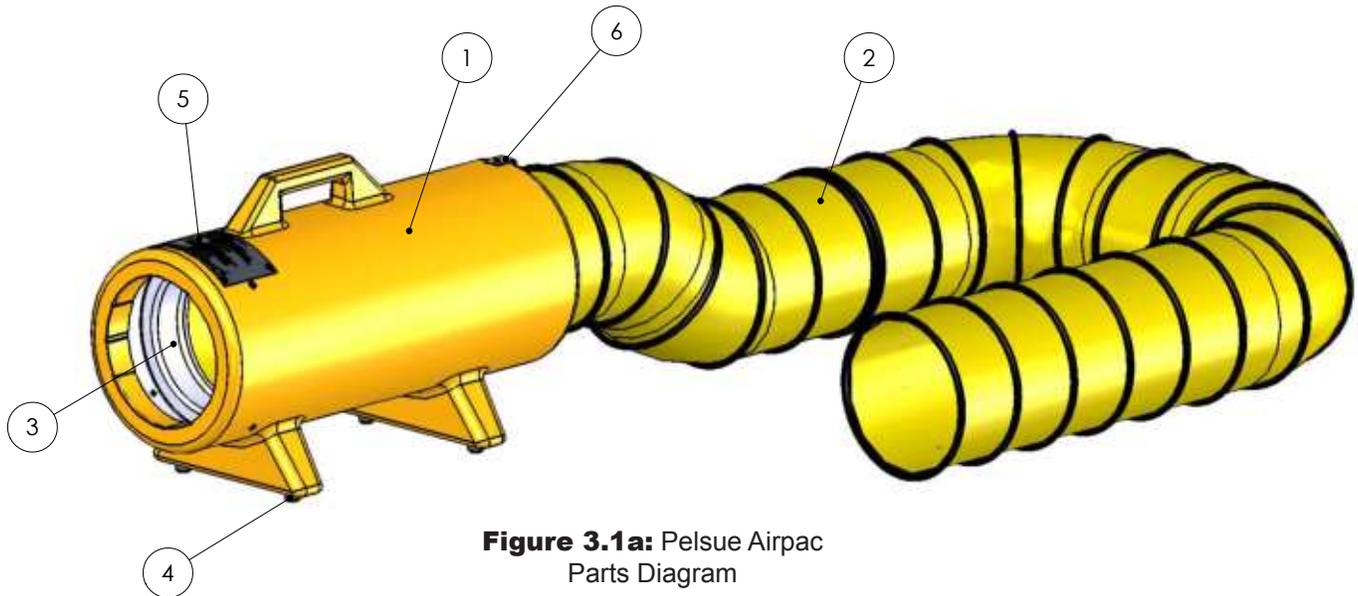


Figure 3.1a: Pelsue Airpac
Parts Diagram

Replacement Parts Identification Table
(Refer to Figure 3.1a)

Item Number	Part Number	Description
1	114762-001	Canister - Hose, Molded
2	100743-001	(AIRPAC15) Hose - Blower, High Retraction, 8" Dia. X 15' Long
	100743-002	(AIRPAC25) Hose - Blower, High Retraction, 8" Dia. X 25' Long
	117373-001	(AIRPAC15-S) Hose - Blower, Collapsible Midsection, 8" Dia. X 15' Long (Spacemaker) (Refer to Pg. 14 Fig. 5.2e)
	117373-002	(AIRPAC25-S) Hose - Blower, Collapsible Midsection, 8" Dia. X 25' Long (Spacemaker) (Refer to Pg. 14 Fig. 5.2e)
3	114764-001	Collar - Hose Attachment, Spinning, Aluminum
4	100188-001	Foot - Rubber, 3/4" OD, w/ Washer
5	114977-P01	Plate - Attach & Detach Instructions, Black on Aluminum
6	118972-001	Retainer - Hose Carrier, Nylon Webbing



Figure 3.1b: #114977-P01
Plate - Attach/Detach Instructions

The following section will address the safety precautions which must be adhered to when working with Pelsue confined Space Ventilation equipment such as the Pelsue Airpac. Any user must familiarize themselves with the information in this section before utilizing the equipment.

SIGNAL WORDS:

Note the use of the signal words **DANGER**, **WARNING** and **CAUTION** with the safety messages. The appropriate signal word for each message has been selected using the following guidelines:

- DANGER-** Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations or for hidden or unseen hazards.
- WARNING-** Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury and includes obvious and hidden hazards. It may also be used to alert against unsafe practices.
- CAUTION-** Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

You are responsible for the safe operation of your Pelsue Airpac. You must ensure that anyone who will operate or work around the equipment be familiar with confined space ventilation procedures. This manual will take you step-by-step through the workings and capabilities of the Pelsue Airpac Hose Canister and alert you to all good safety and operating practices while using the system.

Remember, you are the key to safety. Good safety practices not only protect you but also the people around you. Make these practices a working part of your safety program. Be certain that everyone operating in or around a confined space is familiar with the procedures recommended and follows safety precautions. Remember, most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- The most important safety device on this equipment is a safe operator. It is the operator's responsibility to read and understand all of the safety and operating instructions contained within the manual and to follow them. Most accidents can be avoided.
- A person must understand the operation of this equipment and be trained in its usage before operating the equipment. An untrained operator exposes himself and others to possible serious injury or death.
- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.
- Think SAFETY! Work SAFELY!

4.1 - Safety Alert Symbol

SAFETY ALERT SYMBOL

This Safety Alert symbol means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**

The Safety Alert symbol identifies important safety messages on your Pelsue Confined Space Product and in the manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instruction in the safety message.

Why is this symbol important to you?

- 3 BIG Reasons:**
- Accidents Disable and Kill.**
 - Accidents Cost You Money.**
 - Accidents Can Be Avoided.**



4.2 - General Safety Information

Safety Precautions:

It is necessary to follow these safety precautions, each time, prior to using the product.

The Safety Precautions is not limited to, but must include the following items;

1. Do not use the Airpac for anything other than its intended use.
2. Do not wear loose clothing that can become entangled in operating machinery. Do not operate the blower without inlet or outlet screen guards in place.
3. Do not place fingers or any other object through inlet or outlet screens.
4. Always operate the blower from a properly grounded receptacle.
5. Never handle energized power cords with wet hands.
6. Never let extension cords or plug connection lay in water. Locate the blower so that it cannot fall into water inadvertently.
7. Never use cords with frayed, cut, or brittle insulation. Check the cord for sound connections to the ground fault interrupter receptacle.
8. Never use this blower in an explosive environment.
9. Ensure that toxic fumes are not blown into a confined space.
10. Unattended use of equipment is not recommended.



! CAUTION ! - Be sure the blower is disconnected from the power source before attaching/ detaching the hose canister and/or doing any maintenance or repair work on the blower.

! CAUTION ! - Check all power cords for cuts, frayed ends, or brittle insulation.

! CAUTION ! - The user must ensure that the blower is located where it cannot fall into water inadvertently and the extension cords or plug connections do not lay in water.

5.0 - Product Operation

The following section will address the capabilities and the general operation of the Pelsue Airpac. The instructions contained within this section should be adhered to each and every time the product is used. Any person tasked with installing or operating the piece of equipment should be familiar with these procedures.

5.1 - Product Description & Capabilities

The Pelsue Airpac is built from a high density polyethylene housing, which has a high resistance to chemicals and extreme temperatures, and internal steel components. The Pelsue Airpac is specifically designed to be used in conjunction with the Pelsue #1325 Series & #1400 Series Axial blowers for confined space applications. All specifications, instructions, and procedures provided within this manual or upon Pelsue Specification Documents are based upon and only valid for usage with Pelsue accessories. The T.A. Pelsue Company can not verify equipment safety and/or compliance when utilized with anything other than Pelsue approved confined space accessories.

Hose Canister - Pelsue Airpac

General Specifications

- Weight - 20 LBS.
- Height - 15-3/4"
- Width - 10-5/8"
- Length - 24-5/8"

Features:

- Low Maintenance
- Specifically designed to attach & detach with specified Pelsue axial blowers
- "Spacemaker" versions of the ventilator hoses allow for a bend for easier entry and exiting through manholes

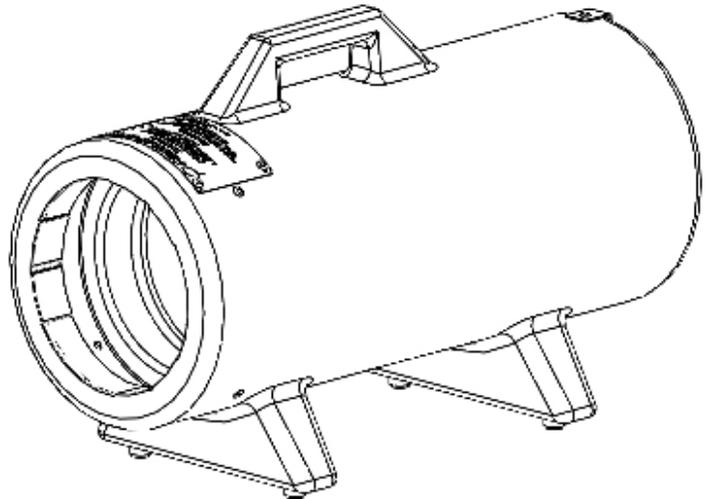


Figure #5.1a: Pelsue Airpac
Stored Hose

Materials & Construction

- Main Structure: - High Density Polyethylene Housing
- Hardware - Plated Steel
- Hose - High Temp Polyester w/ PVC Polymer, Galvanized Spring Steel Helix w/ Nylon Wear Strip

Model Specifications

- High Retraction Hose - Galvanized Spring Steel throughout entire length of hose
- Collapsible Hose (Spacemaker) - 4' long collapsible section in 5' increments

5.2 - Start-Up & Operating Procedures

Prior to Operation, the Pelsue Airpac should be configured and prepared according to the following guidelines.

1. Pre-Operation Inspection:

It is necessary to perform a visual inspection, each time, prior to using the product. If deficiencies are found, remove the product from service and contact the T.A. Pelsue regarding repair. The following checklist coupled with *Figure #5.2a* should be used as a guide to determine whether the equipment is in good operating condition prior to usage. Equipment that is not in good condition can endanger the safety of the entrant and attendant during use.

The Pre-Operation Visual Inspection is not limited to, but must include the following items;

- a. Check the Airpac housing for any signs of damage.
- b. All rivets are intact. The instructions plate is secured to the housing. The hose collar is firmly fixed to the housing.
- c. The hose is secured to the hose collar.
- d. Check to see that there are no breaks or bends in the helix wire of the hose and also the hose has no rips or tears.

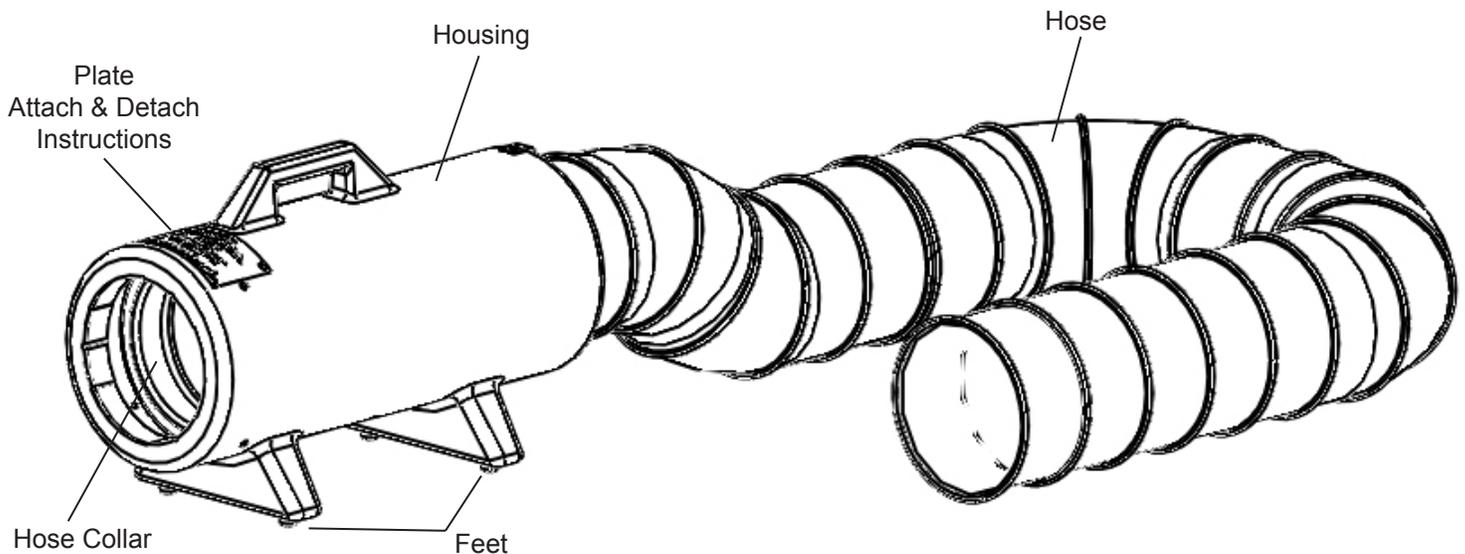


Figure #5.2a: Pelsue Airpac
Pre-Operation Inspection Points

5.2 - Start-Up & Operating Procedures (continued)

2. Setup of Pelsue Airpac:

Choose a location where installation will provide suitable proximity to the work area yet minimize obstructions during use and in the event a rescue is necessary. Once a location is chosen;

- a. To attach the blower to the Airpac, align the handle of the blower with the rivet specified on the instruction plate. Then insert the blower outlet into the Airpac inlet and rotate the blower clockwise briskly until the handles align. (Refer to Fig. #5.2b)
- b. The blower should be placed 1.5 meters upwind where possible, from the confined space, and have its inlet pointed into the wind. This will reduce the chance of contamination being blown into the confined space. (Refer to Fig. #5.2c)
- c. Unbuckle the hose retainer then extend and place the blower hose as required.
- d. To detach the blower from the Airpac, rotate the blower handle counter clockwise until the blower handle aligns with the same rivet specified before and pull the units apart. (Refer to Fig. #5.2d)
- d. Feed the hose back into the Airpac housing and buckle the retainer straps to hold the hose in for storage or transportation.

Important Notes:

- During confined space entry operations, it should not be assumed that the ventilator will maintain the air inside the confined space at a safe condition. When the ventilator is in use, the air inside the confined space should be monitored continuously for the presence of poisonous gases and/or toxic fumes.
- Ensure that the blower provides positive airflow the entire time during usage. The axial blower can be used with an accessory Pelsue Air Flow Alarm (#123717-001) in order to alert the entrants that positive ventilation is lost.

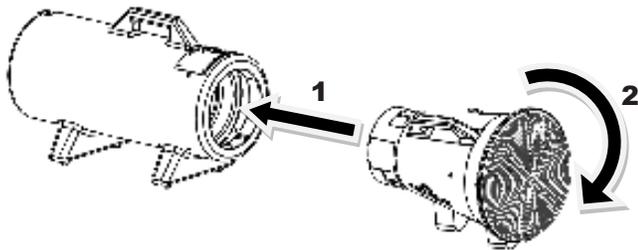


Figure #5.2b:
Blower Installation

!WARNING! - The user must ensure that the power cord is correctly installed in order to prevent damage to the product and injury to the operator.

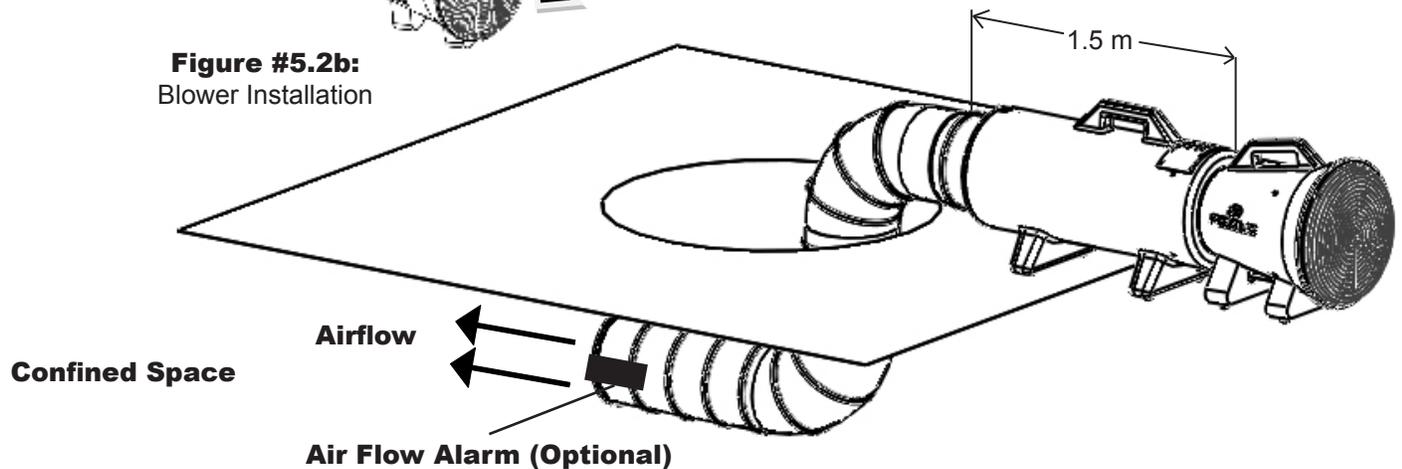


Figure #5.2c: Axial Blower w/ Airpac
Setup in Confined Space

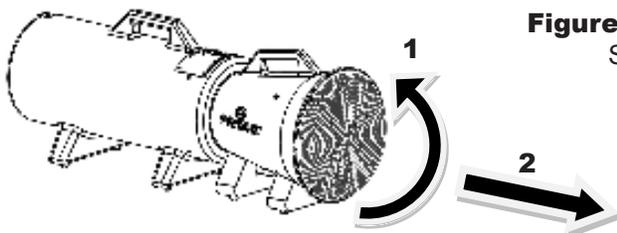
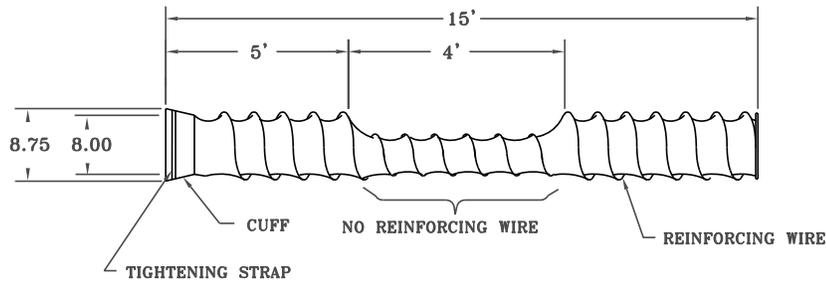


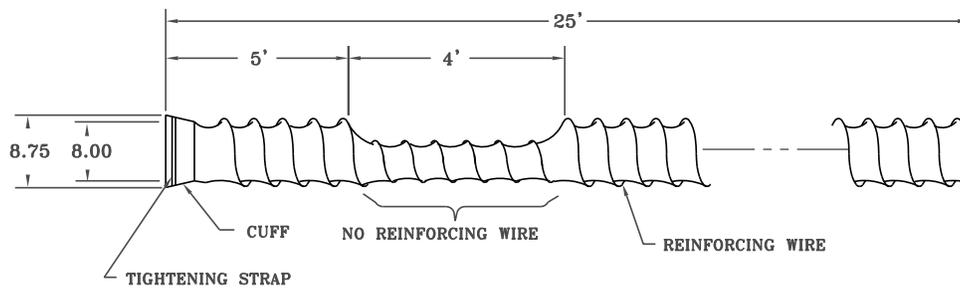
Figure #5.2d:
Blower Removal

5.2 - Start-Up & Operating Procedures (continued)

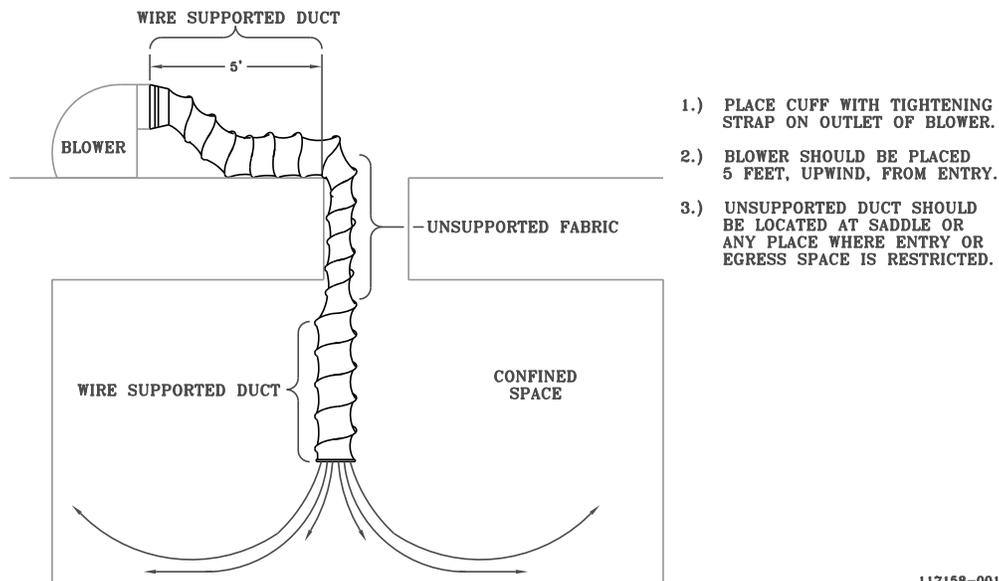
OPERATING INSTRUCTIONS SPACEMAKER15/25 HOSE



SPACEMAKER15



SPACEMAKER25



117158-001

Figure #5.2e:
Spacemaker Hose Information
(AIRPAC15-S & AIRPAC25-S Only)



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