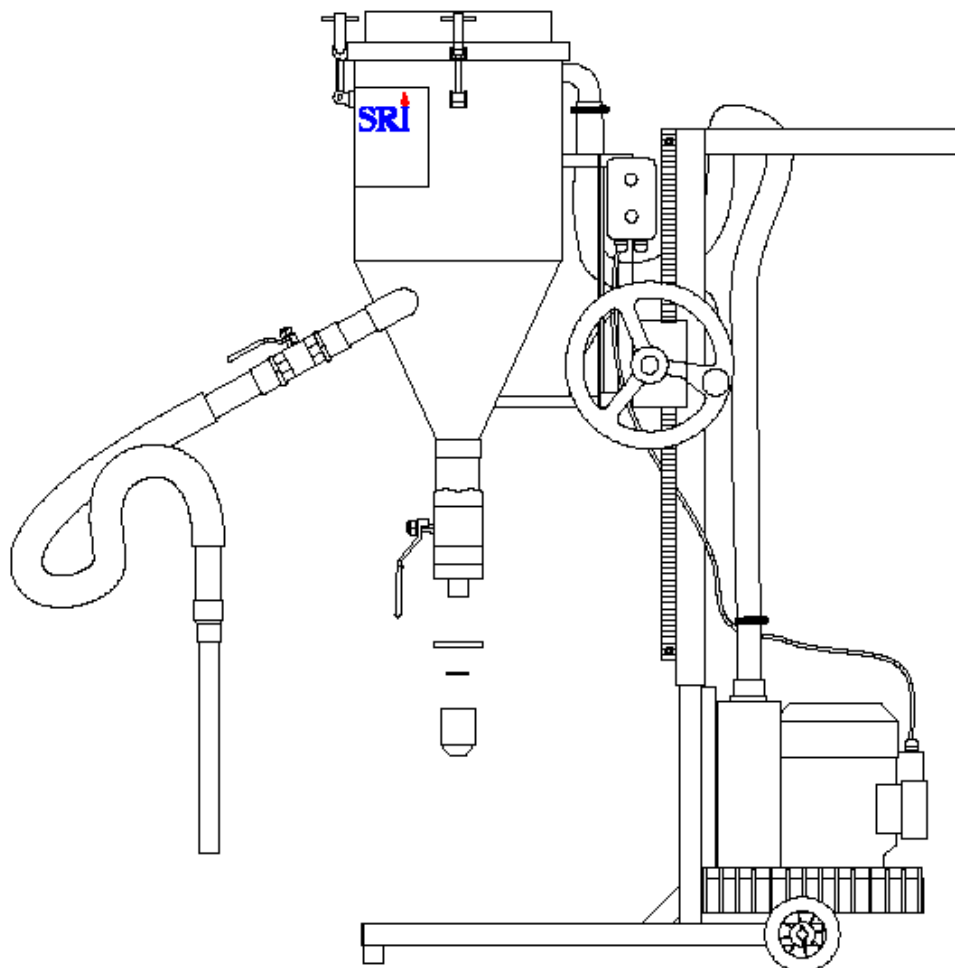




POWDER FILLING MACHINE

User Instruction



www.sri.com.my

To the User:

In order to use the product properly and safely, please read the instructions before operation. If there are any questions, please contact a SRI authorized distributor or SRI sales office. Keep this User Instruction booklet for future use.

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1. Introduction

This unit is designed to be used with Powder Fire Extinguishers for emptying and refilling operations. The system is built around a motor which will implement the blower and suction function. The powder is filled via the pick-up tube into the Powder Refilling Hopper. Then the powder is loaded into the fire extinguisher cylinder through the Filling Adaptor at the bottom of the Powder Refilling Hopper.

The right powder weight is determined by putting the fire extinguisher on a weighing scale or by using Charging Duration Method.

2. General Description

The components of the Powder Filling Machine are as shown in the diagram below:



3. Transportation

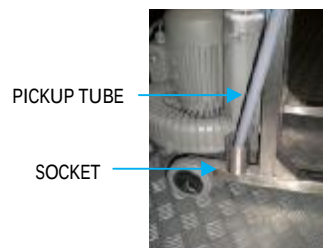
The user must take care in the transportation of the Powder Filling Machine to ensure a long and reliable service life. Below are the steps needed for a safe transport operation:

Step 1: Make sure the power cord is removed from the power supply socket. Coil the power cord around the handle.

Step 2: Lock the hopper lid to prevent from falling off.



Step 3: Place the pickup-tube into its socket.



Step 4: Lower the Powder Refilling Hopper to the lowest position by turning the hand-wheel anti-clockwise.



Step 5: Lower the Sliding Frame to the lowest position by unlocking the Position Levers.



Step 6: With the unit ready for transportation, hold on to the handle and incline the unit until it is fully supported on its wheels which you are able to move it.

For transport on vehicles:

Follow Step 1 ~ Step 6 as mentioned above and place the Powder Filling Machine in standing position on a vehicle. Vehicle type such as cars is not recommended for this transportation procedure. During transportation, the Powder Filling Machine has to be fastened in place to prevent it from any movement.

4. Installation

This product is designed to be easily installed. The guide below will show you how the installation can be done:

Step 1: Position the unit vertically on a level surface (e.g. floor) and make sure the machine standing in a stable condition.

Step 2: Plug in the power cord to a power supply outlet. You are now ready to operate the Powder Filling Machine.

5. Extinguisher Filling Operation

This section will guide you on the extinguisher filling operations:

Step 1: Press ON (Green button) on the Starter to start the machine.



Step 2: Push or slide the Motor Hose to *SUCTION* position.



Step 3: Place the extinguisher cylinder to be charged on the unit support base.

Step 4: Turn the Hand Wheel to adjust Filling Valve height until it rest over the extinguisher cylinder inlet.

Note: The Powder Filling Machine unit is readily fitted with the M24 neck ring adaptor. To fill 2kg ~ 9kg cylinder sizes, the M24 neck adaptor has to be first removed.

To fill 1 kg cylinder size, please use M24 neck ring adaptor.



M24 neck ring adaptor for 1 kg cylinder

Step 5: Open the Filling Valve.



Step 6: Place the Pick-Up Tube into powder bag or drum. Open the valve at the Pick-Up Tube to allow the powder to be sucked into the hopper which then will fill into the extinguisher cylinder.



Step 7: When cylinder is filled with required powder weight. Close the Filling Valve and Pick-Up Tube valve.

Step 8: Press OFF (Red button) to stop the machine.

Powder Filling Quantity: Charging Duration Method

Approximate filling time is only a guide for filling the cylinder. Please check powder weight using weighing scale. If less then required weight, please manually top up the powder. If overweight, suck the powder out using Pickup Tube.

Approx Filling Time	
Size	Duration
9kg	95s (± 500 g)
6kg	65s (± 500 g)
4kg	40s (± 500 g)
2kg	35s (± 300 g)
1kg*	30s (± 300 g)

* With M24 neck ring adaptor

6. Extinguisher Emptying Operations

This section will guide you on how to empty the cylinders prior to refilling.

Step 1: On the unit support base, place a powder storage drum and verify that the adaptor aligned over the drum opening.

Step 2: Open the ball valves and insert the pick-up tube into the extinguisher cylinder.

Step 3: Run the unit as described in 'Extinguisher Filling Operation' until all the powder is removed from inside the cylinder. During the emptying operation, move around the pick-up tube inside the cylinder to prevent the powder from clogging the pick-up tube.

7. Stop Unit Operation

You may stop the unit any time or during safety conditions by pressing STOP (Red Button) on the Starter.

8. IMPORTANT: CAUTION & SAFETY!

Preventive and safety measures have to be taken into serious consideration during the operation of the unit. Please follow the guide below:

- Never store the powder inside the Powder Refilling Hopper.
- During normal operations, do NOT remove the Filter Device inside the Powder Refilling Hopper. Never operate the unit without the Filter Device installed.
- Do not operate this unit near wet conditions.
- Do not use the Pickup Tube to suck fluid (water, oil, petrol, acid, alkali etc), semi-fluid substances (grease, glue, etc), solid objects (nails, stone, screws, sand and etc.) and flammable gasses.
- Operate in a well ventilated surrounding.
- Disconnect the power cord during maintenance procedures.

9. Maintenance

This product has very low maintenance requirements. However some regular care will provide a longer product-life.

Filter Cleaning Operations

You have to execute this operation when:

- Suction power became too low or gradually reduced.
- After the last powder transfer operation.
- Before beginning to work with another kind of powder.

Filter Cleaning Procedure (with the Filter Device inside the Powder Refilling Hopper):

Step 1: Push or slide the Motor Hose to *BLOW* position.

Step 2: Close the Filling Valve and Powder Intake Valve.

Step 3: Start the unit operation with the Starter (Omit this step if the unit is already in operation).

Step 4: Allow few seconds (< 5 seconds) in *BLOW* mode and then slide the Motor Hose to *SUCTION* mode for another few seconds (< 5 seconds). Alternately slide the Motor hose between the *BLOW* and *SUCTION* modes to clean the Filter Device.

Replacing the Filter Device

The Filter Device is located inside the Powder Filling Hopper. It can be easily removed after opening the Hopper Cover. Replacement parts are available from SRI or any SRI's representative/agents:

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Email: international.sales@sri.com.my
Website: <http://www.sri.com.my>

General Care & Cleaning Tips:

- Keep the Sliding Frame lubricated internally
- Regularly brush-off any powder residue remained on the unit.
- Lubricate the Position levers and inject some light machine oil or light grease into any sliding or moving mechanism found on the unit.

TECHNICAL DATA

Power Consumption: 1.5kW

Electrical Supply Rating: 220 ~ 240 VAC, 50 Hz Single Phase

Current Rating: 9A

Electric Suction Motor Speed: 2800 RPM

Overall Dimensions (Transport Position): 450(W) X 450(L) X 900 (H) mm

(Max Work Position): 450(W) X 450(L) X 1700 (H) mm

Gross Weight: 37 kg

Noise Level: < 85dB

Standard Fittings/Accessories

- o User Instruction
- o Pickup Tube with Flexible Hose (Fitted)
- o M24 Neck Ring Adaptor (Fitted)



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