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**IMPORTANT NOTE:** While parts, systems, components, operational procedures may be the same between equipment models, the images provided in this manual may vary from model to model.

This manual represents the following models and their approximate working capacity:

- Model:
  - 35P
  - 35P-CE
  - 50E
  - 50P-CE

English Language is Original Instructions.

Translated from Original Instructions.
1.0 Introduction

Basic Components

1. Hopper
2. Main Rim
3. Vibratory Section
4. Safety Skirt
5. Large Particle Downspout
6. Pan Clamp Hook
7. Pan Clamp
8. Reusable Media Downspout
9. Fine Particle Downspout
10. Pressure Gauge
11. Air Inlet Valve
12. Lubricator
13. Regulator
14. Air Filter
15. Supply Line Connection
16. Bracket
17. Muffler
18. Motor
2.0 Safety Checklist

- The Sponge-Jet Inc. Recycler is a pressurized system. Only trained operators should adjust, maintain and repair this equipment.
- Inbound pressure should never exceed 8.6bar (125psi).
- All pneumatic lines should be inspected for holes, wear and proper fit.
- Safety pins and restraints should be fitted at all Air Hose couplings to prevent accidental disconnection.
- Vibrating parts should never come in contact with static or stationary items.
- Verify the unit is stable, secure and on a flat surface.
- Do not operate without the safety skirt in place.
- Before all activities (other than normal operation), ensure the entire system is depressurized.

**IMPORTANT:** Under NO circumstances should any inspection, adjustment or lubrication be conducted while running or connected to an air supply.
3.0 Requirements

3.1 Air Supply/Compressor

Clean, dry compressed air must be supplied. This unit requires a minimum air supply of \(2 \text{m}^3/\text{min} \ (70 \text{cfm})\) at \(2.8\text{bar} \ (40\text{psi})\).

3.2 Air Supply Connection

This unit has a 12.7mm (.5in) standard pipe typically fitted with a 12.7mm (.5in) universal 2 lug coupling. The air supply hose should be fitted with a mating connector or replace both connectors as desired.

Connect a minimum 12.7mm (.5in) supply hose to **Supply Line Connection**. 
**Note:** High humidity environments require additional moisture separators.

3.3 Ambient Temperature

Ambient temperature should be above 0° Celsius (32° Fahrenheit). Otherwise:

a) Use winter grade pneumatic tool oil in lubricator.

b) Minimize moisture in supply air.

c) Bearing grease will thicken in cold environments, requiring use of low temperature grease. Warming the unit prior to operation may be required.

3.4 Media Waste & Collection

Containers are necessary under each downspout for collection and transport Sponge Media™ and waste.
4.0 Operation

Before Recycler Pressurization and Operation:
- Vibrating parts should **never** come in contact with static or stationary items.
- Verify the unit is stable, secure and on a flat surface.
- All pneumatic lines should be inspected for holes, wear and proper fit.
- Safety pins and restraints should be fitted at all Air Hose couplings to prevent accidental disconnection.
- Before all activities (other than normal operation), ensure the entire system is depressurized.

Make sure the unit is unrestricted. Rigid connections reduce efficiency and can lead to damage.

Check **Pan Clamps** for tightness. They should not exceed 14kg (30lbs.) each at the end of the lever handle. Adjust by turning **Pan Clamp Hook**.
Connect air supply hose to **Supply Line Connection** and secure with safety pins and restraints. **Note:** Regulators are factory set between 2.5-2.8bar (35-40psi) and should not require adjustment.

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Confirm pneumatic tool oil is visible in **Lubricator** (see section 5.0).

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Place buckets/bags under each **Particle Downspout**.

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Turn on by opening **Air Inlet Valve**.

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Add blasted Sponge Media through **Hopper**.
Oversized particles are ejected from **Large Particle Downspout**.

**WASTE: Dispose of Properly**

Recyclable Sponge Media is ejected from **Reusable Media Downspout**.

**RECYCLABLE MEDIA: To create working mix, add 5% to 10% new Sponge Media; this mixture is now ready to blast.**

Smaller contaminants and spent Sponge Media are ejected from **Fine Particle Downspout**.

**WASTE: Dispose of Properly**

**Important:** Determining acceptable dust levels is dependant upon the project environment. If lower dust levels are required, pass recycled Sponge Media through **Hopper** one or more additional cycles.
5.0 Maintenance

**IMPORTANT:** Under **NO** circumstances should any inspection, adjustment or lubrication be conducted while running or connected to an air supply.

5.1 Bearing Grease

This unit was greased before shipment. Add grease using 1 to 2 pumps every 200-300 hours of operation. If the unit has not been used for one year, add 1 to 2 pumps of grease. Use quality NLGI #2 grease such as:

- Citco AP, Citco oil
- Ore-Lube K2
- Mobilux, Mobil Oil Co.
- Socony, Mobil Oil Co.
- Val-Lith #IP, Valvoline Co.
- VS SGA, MM Industries, Inc.
- Multifak #2, Texaco Inc.
- Alvanie R#, Shell Oil Co.

5.2 Access to Grease Fittings

The two bearings should be greased by fittings on the side of the machine.

**DO NOT OVERGREASE.**
5.3 The Lubricator

Check the pneumatic oil level in **Lubricator**.

Refill with pneumatic tool oil through the fill port on top as required. Use only **SAE 5W (ISO 32) NON-DETERGENT OIL**
**Sieve Assembly**

**NOTE:** Failure to properly assemble and fasten **Sieve Assembly** will dramatically shorten its operating life.

Assemble as follows:

1. Place **Fine Particle Downspout** through hole provided in **Vibratory Section**. **Note:** Be sure downspout is centered.
2. Place a **Flat Gasket** into **Shallow Funnel**.
3. Place the **Bottom Screen** (#16* mesh) onto **Flat Gasket**. **IMPORTANT:** Place mesh screen side up**
4. Place a **Flat Gasket** onto the mesh of **Bottom Screen**.
5. Place **Main Rim** over **Flat Gasket**.
6. Place a **Flat Gasket** into top of **Main Rim**.
7. Place **Top Screen** (#3* mesh) into **Main Rim** and on top of **Flat Gasket**. **IMPORTANT:** Place mesh screen side up**
8. Place a **Flat Gasket** onto the **Top Screen**, making sure to center the **Flat Gasket**.
9. Place **Hopper** over **Flat Gasket**.
10. Attach all **Pan Clamps**. These must be adjusted properly to secure **Sieve Assembly** (refer to 4.0 Operation).

*Top Screen standard size is #3; Bottom Screen standard size is #16 unless other sizes are specified or provided.

**Screens must be assembled with mesh side up. Incorrect assembly will cause poor operation.**
# 6.0 Troubleshooting

## Unit won't turn on or vibration is slow
Confirm **Pressure Gauge** reads between 2.5-2.8bar (35-40psi).

- **If unit temperature is** near freezing or below,
  a) Warming the unit prior to operation may be required.
  b) Use winter grade pneumatic tool oil in lubricator.
  c) Minimize moisture in supply air.

- **If vibration is slow but unit is operating**, run without Sponge Media until vibration normalizes.

## Sponge Media is exiting Large Particle Downspout
Confirm **Top Screen** is properly installed and free of debris.

![Top Screen Image]

## When Blasting, excessive amounts of dust are observed
Confirm **Bottom Screen** is properly installed.

Additional dust reduction can be achieved by:

1. Passing Sponge Media through unit again.
2. Using a smaller number **Bottom Screen** (with larger wire spacing).
7.0 Drawings
EC Declaration of Conformity

We Of:
Sponge Jet Inc.
14 Patterson Lane,
Newington, N.H. 03801
Telephone Inquiries to: 1-603-610-7950
Email: sjadmin@spongejet.com

Hereby declare that:
Equipment: Sponge-Jet Recycler
Model: 25P-CE or 35P-CE or 50P-CE
Serial Number: XXXX
Year of construction: XXXX

Is in conformity with the applicable requirements of the following standard documents

The Directives covered by this Declaration:
Machinery Directive: 2006/42/EC (Formerly 98/37/EC)

The Machinery Directive 2006/42/EC Standards:
EN ISO 14121-1-2007 - (Safety of Machinery—Risk Assessment)

I hereby declare that the equipment named above has been designed to comply
With the relevant sections of the above referenced specifications. The unit complies
With all applicable Essential Requirements of the Directives.

Signed: ________________________________
Name: Michael T. Merritt
Position: President
On This Date: XX/XX/XXXX

Authorised Representative:
Eurolink (Europe) limited
Avalon House
Marcham Road
Abingdon OX14 1UD
UK