



## B-VAC™ Pro 2 - Integrated Sponge Blasting™ System

# Automatic Recovery, Recycling and Reloading System Saves Labor

Save time, labor and money by accelerating abrasive blasting and painting operations with automated blast recovery systems from Sponge-Jet. Sponge-Jet B-VAC™ systems recover Sponge Media™ abrasive in the work area, automatically transport it to the Sponge-Jet Recycler™ where classification takes place. Contaminants are removed and Sponge Media is recycled. Reusable media is then conveyed to the Feed Unit™ Cyclone Storage Silo, which automatically reloads the Feed Unit for reliable blasting.

### ▶ **Sponge-Jet B-VAC™ Pro 2** Recover, Recycle and Reload Sponge Media™ abrasives



Front View



Back View

Height - 331cm (130in)

Width - 155cm (61in)

Length - 246cm (97in)

## CONFIGURATION

### 400-HP Feed Unit™:

- 400L (14ft³) pressure vessel
- Customized agitation assembly with up to 1,360 kg (3,000 lb) of force, 20,000 rotations per day
- Pneumatic, auger-based abrasive delivery system controls the quantity of abrasive mixed into the air stream
- 50mm (2in), high capacity piping and valve system
- Integrated, pneumatic Control Panel
- 15m (50ft) x 31.75mm (1.25in) Inside Diameter Blast Hose
- 12mm (.5in) wide entry, venturi nozzle
- Pneumatic deadman controls (*electric optional*)



### 50-P Sponge-Jet Recycler™:

- Oversized 50cm (19.5in) deck on vibratory media classifier, gasketed to maintain vacuum integrity
- Elevated Sponge-Jet Recycler allows gravity feed of waste to standard steel drums



### H.E.P.A., High-Volume, Low Noise Vacuum Ejector:

- 630 Nm³/hr (370 cfm) Vacuum Ejector
- 76.5dB(a) low noise package
- 3800mm WC (11in of Hg) maximum suction
- 4.1nm³/min (145cfm) supply air at 7bar [100psi] with 8kg (18lb/min) transport on 100m (300ft) hose
- Reverse air-cleaning, H.E.P.A. filter
- 15m (50ft) clear vacuum hose



### High Strength Steel Frame:

- Robust design for use in shipyards and offshore applications
- Capable of lifting unit when completely full of Sponge Media™ abrasives
- Integrated ladder and platform assembly



### Cyclone Storage Silos with Inspection Ports:

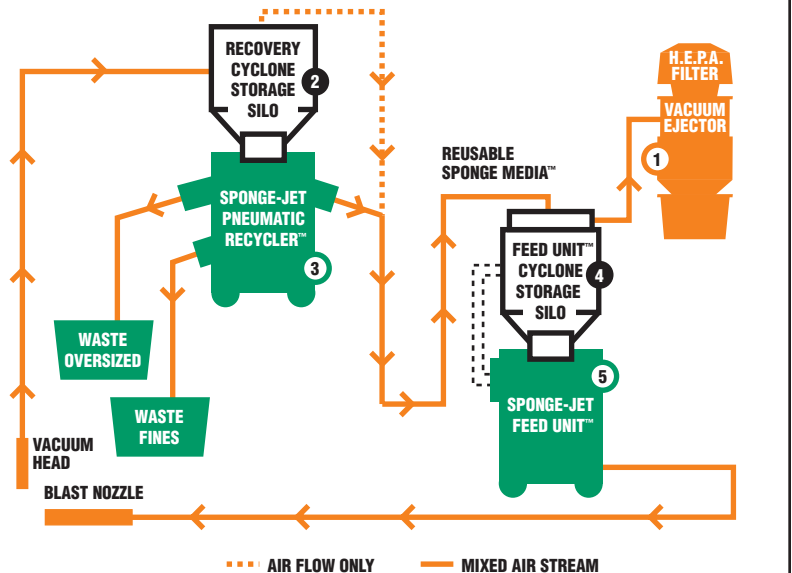
- Cyclones separate Sponge Media abrasives from vacuum air stream
- Two over-sized buffer silos for the 50-P Recycler and the 400-HP Feed Unit



## PROCESSING

**(1) VACUUM EJECTOR:** Draws Sponge Media abrasive from the vacuum head through all non-pressurized components.

**(2) RECOVERY CYCLONE STORAGE SILO:** Separates recovered Sponge Media abrasives from the vacuum air stream and stores it for automatic classification. Most of the vacuum airflow bypasses the Sponge-Jet Recycler and then rejoins the reusable Sponge Media abrasives to aid pneumatic transport to the Feed Unit Cyclone.



**(3) SPONGE-JET RECYCLER:** Under vacuum with minimal airflow, the Sponge-Jet Recycler cleans and separates reusable Sponge Media abrasive from waste material.

**(4) FEED UNIT CYCLONE STORAGE SILO:** Equipped with pneumatic actuator, this cyclone separates the reusable Sponge Media from the vacuum air stream, then stores it for automatic reloading into the Feed Unit. A specially configured deadman control begins cycling the actuator and then opens the pop-up valve, automatically reloading the Feed Unit when the deadman control is released.

**(5) FEED UNIT:** Regulates and delivers Sponge Media abrasives through the blast nozzle for surface preparation. Feed Units are designed to meet the specific flow characteristics of Sponge Media and allow for precise blast pressure and sponge media feed rate adjustment.

Visit Sponge-Jet, Inc. at [www.spongejet.com](http://www.spongejet.com) or call **1-603-431-6435** (USA) for more about the Sponge Blasting™ System