

ARS  
Recycling Systems

## S8i Intermodal Blast, Recovery & Recycling System

8 Pots  
460 Volt, 60 Hz

Industrial or  
Marine Applications

# S8i

The blast, recovery and recycling system is constructed within (3) three 20' high-cube (HC) intermodal container frames. The intermodal units are stacked one on top of the other when in operation.

Internal ladders provide access to the upper units. The main electrical control panel is located in the middle unit and includes motor starters, push buttons, and a 3 inch (75 mm) LCD user interface to display machine diagnostics. All components are IEC approved. Emergency stop stations will be provided on all levels. Quick-connect electrical connections facilitate the integration of the units for operation.



# Specifications

## VACUUM



- Electric drive motor, 350 hp (260 kW), 1,800 rpm
- 5,560 CFM free air (158 m<sup>3</sup>/min) fixed displacement blower with intake and exhaust mufflers
- 27 inch Hg (680 mm Hg) maximum vacuum
- 36 inch (90 cm) diameter cyclone for separation of heavy dust
- High Vacuum bag-house with 12 cartridge filters and automatic reverse pulse cleaning of filters during operation

## BLAST SYSTEM



- Grit Storage Bin, 390 cubic foot (11,000 L) volume (Includes blast vessels).  
Approximately 42.2 MT of steel grit
- (8) eight 30" diameter (76 cm) blast vessels with auto fill and auto blow down
- (8) eight blast hose grit valves with 12 volt DC control
- Compressed air storage tank for blast vessels, capacity 6.0 cubic foot (170 L)

## AIR DRYING SYSTEM



- 3,900 CFM (110 m<sup>3</sup>/min) capacity
- (2) two 36" diameter (90 cm) desiccant dryer tanks
- (2) two 5 hp (3.7 kW) air-cooled after-coolers
- (2) Compressed air filters
- (2) two 3 inch pipes with ball-valve shut-offs at customer connection point

## RECYCLING SYSTEM



- 8 inch diameter (15 cm) main vacuum connection for customer hose
- 15 cubic foot (420 L) Unclassified storage hopper with integrated large debris rotating separator
- Double air-lock system for simultaneous operation of vacuum and cleaning system
- Rotating magnetic drum separator
- Vibratory cleaning tray
- 5 slide air wash
- Low Vacuum bag-house with 6 large capacity cartridge filters and automatic reverse pulse cleaning of filters during operation
- 1600 CFM (45 m<sup>3</sup>/min) low vacuum fan
- 8 inch diameter (20 cm) auger for transfer of clean grit to storage bin

## DIMENSIONS



- Intermodal
- 8' (2.4 M) wide x 9.5' (2.9 M) tall x 20' (6.1 M) long
- Upper unit total weight: 22,300 lbs (10,100 kg)
- Middle unit total weight: 22,000 lbs (10,000 kg)
- Lower unit total weight: 25,500 lbs (11,600 kg)

## UTILITY REQUIREMENTS (by others)



- Compressed Air for operation of recycling system:  
40 CFM @ 120 PSI (1.1 m<sup>3</sup>/min @ 8 Bar)
- Compressed Air for blast hoses (each):  
400 CFM @ 120 psi (11 m<sup>3</sup>/min @ 8 Bar)
- Electrical Power required:  
460 V, 60 Hz, 3 phase, 330 kW

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