

## ■ CONTAINMENT SYSTEM ■

"The system captures the water, filters the paint particle for disposal, and reuses the water for further paint removal. The only by-product of the operation is the paint and rust. After careful analysis of existing technology, the 46th maintenance squadron decided the water pressure paint stripping operation was not only the most efficient, cost-saving system, but was the most environmental sound."

"In the stripping process the plastic media and garnet-blasting refuse becomes coated with the metal print. This

refuse is hazardous waste, and base organizations have to pay to dispose of this material. This can get expensive. According to Sculthrope. It costs \$1 per pound to dispose of hazardous waste. Plastic blast media and sand blasting media can fill up to a 55-gallon drum in a day and half, weighing in a hefty 850 to 900 lbs."

"Since November, we have been stripping three to five pieces of equipment a week and have filled three-fourths of 55-gallon drum with paint particles."

"Savings are not only generated from

the reduction of hazardous waste but also in a reduction of man-hours. Dzioknonski said this system works 25-50 percent faster."

"The cost saving from reduction in hazardous waste disposal alone is \$140,760.00 the first year. The equipment including installation and start-up will have paid for itself in a little over two years. This does not take into consideration the additional saving in man-hour reduction."

*Excerpts from Environmental Management News Dated April 18, 2003*

### BOSS BLAST CONTAINMENT SYSTEM With Air and Water Filtration

**Non Toxic Air Release • Non Toxic Water Runoff • Solid Particle Capture • Various Sizes Available**

**Hydro-Cyclonic Separator:**  
Removes solids from the contaminated water stream.

**Aqua-Klean:**  
Utilizes centrifugal force to separate solids as small as 10 micron.

**Aqua-Filter:**  
Utilizes water curtain and baffles to remove airborne particles from the recirculating air.

**Water Storage Tanks:**  
Storage location for the clean and dirty water in the system.

**Aqua-Treat:**  
Waste water treatment system chemically removes and filters heavy metals and impurities from the water system. Water can then be re-circulated back to the HP water pump.

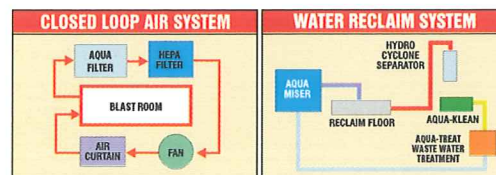
**Stand Alone Filter System:**  
Filters the water to 2 micron.

**E-75 Aqua-Miser:**  
High-pressure water pump rated at 3.0 GPM at 40,000 PSI.

#### Room Construction Features:

- Exterior construction and ducting is 3" laminated foam and aluminum panels which provide stability and sound dampening.
- Interior walls are lined with stainless steel panels for durability.
- Galvanized steel water section (Aqua-Filter).
- Water-tight lighting is provided for high visibility.
- Automatic roll-up steel doors.
- Concrete floor has trench and sump pit for full water recovery.
- Air Filtration System

The Aqua Miser BOSS Containment System utilizes known engineering principles to remove paint particles and water vapor from the room air in the blasting system. Air is drawn through the Water Fall Filtration System, a continuous curtain of moving water, and thrown against adjacent walls where suspended particles are removed and flushed into the collection pan. Air reaching the filters is virtually free of airborne particles and water vapor.



**The Aqua Miser BOSS Containment System tremendously reduces all cost associated with waste disposal.**