



ALLOY HARDFACING

Evolving to meet YOUR Needs...

Cyclones



**Reduce Carryover
Recapture Product
Improve Cooking Efficiency**

Reduce Carryover

Properly designed Cyclones provide a "slow spot" in the vapor stream permitting materials entrained in the vapors to drop out.

Recapture Product

The products removed from the air stream drop into the cone of the cyclone and can be returned to the process.

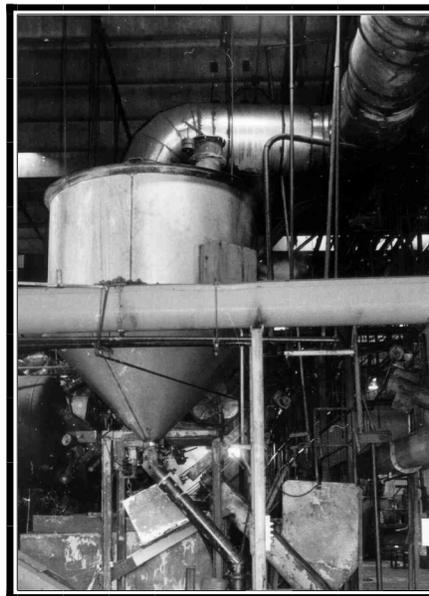
Improve Cooking Efficiency

When designed properly Cyclones permit a higher vacuum on the condensing system removing vapors more rapidly, improving cooker efficiency and reducing energy expenses.

Experience

With nearly 70 years in process industries Alloy has the experience and application knowledge to design and build a cyclone to assure it's performance will meet the needs of your process.

While others construct cyclones in very thin and light materials, Alloy has seen several collapsed or imploded cyclones resulting in our use of thicker materials and reinforcement rings to assure your cyclone will provide reliable service for decades.



While Alloy offers a variety of "standard" tanks which meet many customer needs, installation restrictions often dictate the tank be built specific to the application or the installation environment. The tanks pictured at the right shows one of the Alloy customized tanks built to meet specific needs.



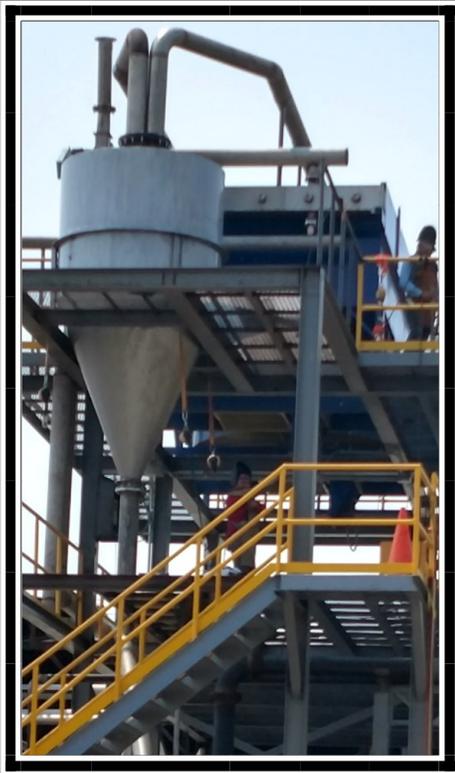
ALLOY HARDFACING & ENGINEERING CO., INC.

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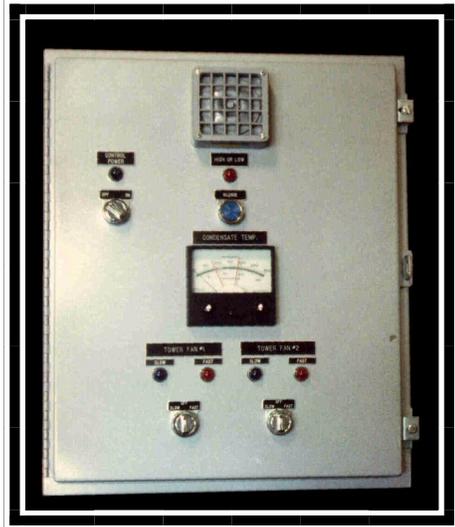
Heat Recovery and vapor related items



Complete condensing and Heat Recovery Solutions available from Alloy include:

- ◆ System Engineering and Feasibility Studies
- ◆ Custom Engineered Vapor Collection and Ducting
- ◆ Custom Impingement Tanks (Cyclones)
- ◆ Heat Exchangers, *both* Shell and Tube and Air
- ◆ Cooling Towers
- ◆ Hotwells
- ◆ Hot Water Tanks and Systems
- ◆ Water Mixing Controls
- ◆ Non-condensable System Design
- ◆ Non-condensable Ducting
- ◆ Vacuum Fans
- ◆ System Controls
- ◆ Room Air Scrubbing Interfacing
- ◆ Installation
- ◆ Start Up and Training

When floor space is really at a premium, Heat Recovery systems can be installed completely outside the process and rendering buildings (see top left photo). Outdoor installations typically include insulation of the vapor ducting and the heat exchanger proper as well as controls to avoid concerns regarding freezing of the system.



Alloy Heat Recovery Systems include a Master Control Panel which can be “stand alone” (as above) or incorporated in your complete system control room. The Alloy control panel monitors water flow to the condenser and the temperature of the water leaving the condenser. The



Alloy Vacuum Fans are among the most efficient in the industry offering exceptional output per horsepower. Coupled with their compact design, all *Stainless* contact and use of standard bearings, these fans offer exceptional performance as well as exceptional

The Alloy Spray Tower (below) further reduces Air Scrubbing requirements and investment and typically uses “sewer” water reducing water usage.



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