

GENERAL PRODUCT INFORMATION

Brewing methods and the applied raw brewing materials differ from brewery to brewery. As a consequence, the carbon dioxide (CO₂) released during fermentation differs in composition. In some breweries, the released CO₂ gas contains aerosols. Aerosols are complex components (similar to sugars) that are difficult to remove with traditional scrubbing/gas washing methods. If aerosols enter the CO₂ compressor, this can cause compressor valve fouling, reduced capacity compressor efficiency and ultimately premature compressor valve failure. All these aspects can be overcome with frequent valve cleaning, but this extra maintenance results in significant undesired downtime.

Optimal removal with no pressure-drop

Several different technologies have been employed to remove aerosols, however, many of them result in a significant pressure drop on the CO₂ compressor suction side, reducing CO₂ plant capacity.

In response, Pentair Haffmans developed a method to remove aerosols with effectively zero pressure drop.

The Aerosol Washer produces a thin horizontal high pressure water "curtain" through which the CO₂ gas passes. The water curtain provides an ultra high surface for aerosol entrainment and removal. Increased removal efficiency of water-soluble gas impurities is also realized by the Aerosol Washer.

Easily retrofitted

The Aerosol Washer can be built into existing Pentair Haffmans' gas washers at minimal additional cost. Solutions to retrofit Aerosol Washers into common CO₂ plant supplier gas washers/scrubbers are available.

No additional water consumption is required as the Aerosol Washer recycles the gas washer's wastewater.

BENEFITS

- Increased CO₂ compressor valve life
- Additional gas washing/scrubbing effect
- Cost savings
 - reduced plant downtime as frequent CO₂ compressor valve cleaning is not required
 - no additional water consumption
 - low maintenance

APPLICATIONS

- Gas Washer

TECHNICAL DATA

Build-in height
1,000 - 1,250 mm

Diameter
Available in various

Material
1.4301 stainless steel

SCOPE OF SUPPLY

- Rotor
- Motor
- Water recirculation pump
- Housing with maintenance hand-hole



With Aerosol Washer
after 2,500 hrs



Without Aerosol Washer
after 200 hrs

HAFFMANS BV

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