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