



**AND THE BEST IS YET TO COME- MAHOU SAN MIGUEL
COMPANY WITH 125 YEARS OF COMMITMENT TO QUALITY**

Market Application Publication



CARBONATION IN BREWING

Always maintaining the carbon dioxide gas quality

BACKGROUND

With a history that goes back 125 years, Mahou San Miguel is a 100% Spanish family-owned company. Producing more than 70% of the Spanish beer that is consumed worldwide and present in more than 70 countries, among which feature the globally recognised Mahou Cinco Estrellas and San Miguel Especial.

Innovation and tradition are the key drivers to Mahou San Miguel success constantly striving to respond to consumers' rising expectations through technology. Mahou San Miguel defining essence is the mastery of the beer-making craft.

HIGHLIGHTS

Customer:	Mahou San Miguel Company
Application:	Quality assurance of CO ₂
Sales Company:	Spain
Parker:	Danny Silk/Alfonso Menayo
Date of Installation:	May 2008
Location:	Madrid, Spain
Products:	PCO2/3
Competition:	Micropure

SOLUTION

To ensure this distinguished status remains intact and Mahou San Miguel Company maintain a premier drinking experience for its customers the Parker domnick hunter PCO2 is employed during the brewing process, specifically to filtrate the CO₂ added to beer after the filtration process.

While the main natural carbonation of beer occurs during the fermentation process, it's always necessary to add CO₂ to beer after the filtration process to ensure the content is always the same.

The CO₂ used in all steps of the process is mainly recovered from the fermentation process, In order to maintain the beers flavour, the CO₂ must meet certain specifications, all CO₂ used must be 100% compliant with all regulations and requirements.

The PCO2 system employs a three layered adsorbent desiccant bed which is designed to protect against any quality defects, it treats 'out of specification' gas which otherwise would contaminate the final product.

With materials of construction independently verified to comply with FDA title 21, the simply maintained PCO2 quality incident protection offers a guarantee that the gas is free of impurities; partners in line with the 125 years of commitment to the quality of the Mahou San Miguel Company.

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We installed the equipment for safety, in all our plants, the CO₂ used in all steps of the process is recovered from the fermentation process, even though we have the most modern facilities and controls to recover and ensure the quality of CO₂, there is no compromise with quality.

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Mr Santiago Vitón Hernanz
Manager of Beer Technology, Mahou San Miguel, Madrid