



Oxygen Removal and Control in Process Systems Customer: Leading National Infusion Producer Location: **Beijing - China**

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CUSTOMER'S ISSUE

Customer requested process solution with very low oxygen content therefore ensuring a fresh and chemical free formulation with maximum shelf life.

Objectives:

- □ Prevent oxidative degradation.
- □ Prevent reaction with atmospheric oxygen.

CPME SOLUTION

Description of the CPME solution:

- ✓ Nitrogen blanketing on WFI distribution systems.
- Use of simplified fluidized bed technology for O2 stripping in bulk powder.
- ✓ Use of vacuum systems during transfers, filling and processing.
- ✓ Use of automated in-line blending system for hands free powder injection.

Nitrogen blanketing on WFI distribution systems.



Extensive use of high purity nitrogen for O2 stripping and blanketing.

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Use of simplified fluidized bed technology for O2 stripping in bulk powder.



Pressure & flow control to preserve the nitrogen blanket density.

Fluidization accomplished by nitrogen injection to maximize Oxygen removal.

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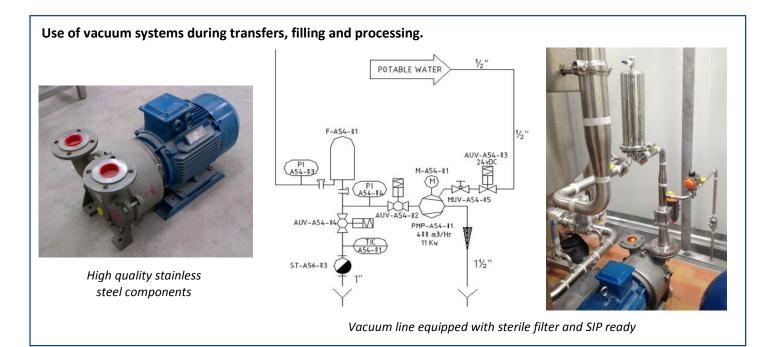


CASE STUDY 1



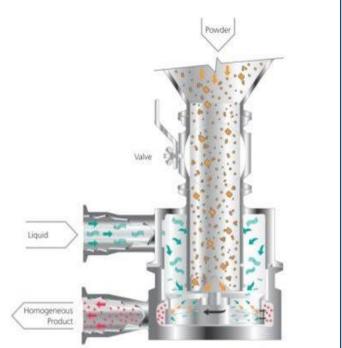
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Use of automated in-line blending system for hands free powder injection.





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