POWDER VACUUM MIXERS

VACUUM POWDER MIXERS—TECHNOLOGY

TEC Square prefers vacuum transport for powder mixing in the dairy industry. We design these systems with standard components. This method of transport has several advantages over traditional methods.

The principle of operation:

- Powder is dosed at a constant flow into a vacuum chamber above the liquid level.
- Powder is dispersed in the mixing tank by 2 high shear mixers.
- The mixed liquid is pumped out by a standard centrifugal pump and pressed through a back pressure valve to ensure a 100% dissolving.
- Liquid is circulated at a high rate via a hydration tank, back to the vacuum mixer.
- The right mixing temperature is maintained by a heat exchanger in the circulation loop.

VACUUM POWDER MIXERS — KEY POINTS

- We use standard components keeping CAPEX low.
- We dose powder above liquid level thus avoiding micro air bubbles.
## SPECIFICATIONS AND ADVANTAGES

<table>
<thead>
<tr>
<th>TEC Square Vacuum Mixing System</th>
<th>Advantages</th>
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<tbody>
<tr>
<td><strong>Vacuum tank dosing system</strong></td>
<td>• TEC Square designs the dosing system to add a constant flow of powder.</td>
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<td><strong>Vacuum tank dosing point</strong></td>
<td>• Hardly any foam is created when dosing powder, even with very hydroscopic powders.</td>
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<td><strong>Use of standard components</strong></td>
<td>• No micro air bubbles are created this way.</td>
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<td>• Saving on CAPEX</td>
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