

# Alfa Laval EnSaFerm agitator



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The EnSaFerm (Energy Saving Fermentation) agitator from Alfa Laval improves the quality of your product, saves you time and reduces energy costs.

Developed to replace the frame agitator with its well known weaknesses, the EnSaFerm offers many advantages. The traditional frame agitator relies on a large surface to move the product. The result is difficult cleaning and high power consumption. Furthermore the frame agitator does not create radial flow, meaning there is no exchange of product across the tank. Through innovative engineering Alfa Laval has found a way to avoid all of this.

The EnSaFerm design is based on the well proven EnSaFoil impeller. By adding vertical blades, radial flow is created which ensures efficient exchange of product across the tank. This greatly improves coagulum breaking and heat transfer. The efficiency of the design has been validated through practical experience all over the world. We have examples of reducing the process time by a factor 8 while maintaining gentle product treatment.

The gentle treatment of your product is ensured through the impeller shape which reduces shear stress to a minimum. As a matter of physics this also means the power consumption is substantially reduced.

The EnSaFoil impeller is designed to avoid shadow areas to optimise the cleaning. Combined with an Alfa Laval cleaning solution the EnSaFerm can be CIPed to meet any requirement. The efficient cleaning saves not only time but also water and energy.

No matter which design is chosen an important consideration is today's requirements for documentation. An agitator is not a standard off-the-shelf product but engineered specifically for your tank and product. Alfa Laval delivers comprehensive and reliable documentation with each agitator to ensure peace of mind.

This is not merely theory. A large and fast growing installed base proves the superiority over frame agitators. A new generation of agitators takes the lead.

