



Mixing is the heart of your process



AGITATORS HRmix®

One solution for each application









- 1. Thin profile 3 blades propellers with high efficiency and high flow.
- 2. Two-blade impeller for flocculators.

- 3. Turbine impeller, favouring heat exchange in non-viscous medium.
- 4. Marine propeller impeller for low flows.
- Preparation of reagents such as aluminium sulphate, lime slurry, activated charcoal, sodium and potassium permanganate, urea, caustic soda, etc.
- Treatment and storage of chemical products.
- General blending processes.



Optimization of the impeller design with CFD simulations Velocity [m/s] >= 1.0000 0.7500 0.5000 0.2500 0.0000 Tank diameter.: 3000 mm Liquid height: 3000 mm

Applications in processes of:

Rotation speed: 60 RPM Density: 1000 kg/m³ Viscosity: 20 Cp

• Homogenization • Neutralization • Flocculation • Dissolving • Precipitation

Impeller diameter.: 1000 mm, located at 1000 mm from the bottom

• Crystallization • Dispersion • Sludge suspension holding.

Characteristics:

- Standardized solutions for volumes from 40 L to 300 m³ and 700 m³ in flocculation.
- Optimal power consumption.
- Easy maintenance.
- Possibility to adapt materials to special service conditions.



HRmix® Series

Standardized high-speed agitators



HR1A Series

Marine propeller for low pumping flows (Ø 100 to 200 mm)

Speeds: 1000 RPM and 1500 RPM Power: From 0.25 to 1.5 kW Tank volume: From 40 L to 3 m³

Temperature: Ambient Pressure: Atmospheric

Applications: Homogenization, dissolving, reagent preparation, neutralization.

Standardized low-speed agitators



HR2A / HR2B Series

Axial 4x45° blade turbine (Ø 350 to 800 mm)

Speeds: From 75 to 100 RPM Power: From 0.37 to 3 kW Tank volume: From 200 L to 10 m³

Temperature: Ambient Pressure: Atmospheric

Applications: Homogenization, dissolving, reagent preparation, neutralization.



HR5A / HR5B - Flocculator Series

Two-bladed impeller (Ø 300 to 4000 mm)

Speeds: From 7 to 96 RPM Power: From 0.37 to 3 kW

Tank volume: From 100 L to 750 m³

Temperature: Ambient Pressure: Atmospheric Application: Flocculation



HR6A / HR6B Series

Thin profile 3 blades propellers with high efficiency and high flow (Ø 200 to 2000 mm)

Speeds: From 52 to 295 RPM Power: From 0.37 to 11,0 kW Tank volume: From 200 L to 200 m³

Temperature: Ambient • Pressure: Atmospheric

Water treatment applications: Homogenization, preparation of additives and polymers, suspension,

fast mixing.

Applications in other industries: Dissolving, heat transfer, storage, suspension.



Innovation and competitive, that is our motto!

Because productivity, investment cost and operating cost are your daily indicators, MILTON ROY Mixing is introducing range HRmix that meet your expectations.

Thanks to modern technology of flow analysis (CFD) and experience in many processes, Milton Roy Mixing offers an optimized solution for your needs in mixing.

Simple design, robust, based on thousands of devices in operation, the HRmix range is fitted with dedicated propellers for your application and volume to blend (low or high shear, very low power or very high pumping flows ...) to provide a cost effective but efficient solution for each of your agitation project.

The wide range, from 40 liters to 750 m³, and the diversity of type of propeller as rotation speed will meet your most tough needs in mixing.

REV.0



www.miltonroymixing.com