

*High Speed and High Shear Dispersers for Pre-Mixing, Dispersion, and Finishing Batches*

## High Performance Dissolvers in Sizes from Laboratory to Industrial Scale Production

The Dissolver Series range in size from 5 – 1500 gallons mixing capacity. These high shear mixers are equipped with a special disc (plate turbine mounted on a vertical shaft), or our Rotosolver high shear mixing head for maximum shear and pumping rates. A wide range of options are available to meet your specific requirements.

### Designed for Ease of Use

The electrohydraulic unit for lifting and lowering is built into the machine structure, making it compact and easier to fit into specific plant layouts. In addition, the machines are easy to operate and do not need highly trained operators. The Dissolver can as an option be equipped with PLC and control for recipes preprogramming, which also features ease-of-operation.

### Performance



*Diaf Minibatch 20VH model*

The Dissolver provides fast and excellent dispersion throughout the different process steps, it is extremely effective allowing short batch times and a higher total production capacity. The Dissolver models are available in both totally enclosed, with fan-cooled motor and explosion proof configurations.



*Diaf Dissolver 1200ZH*

### Application Examples:

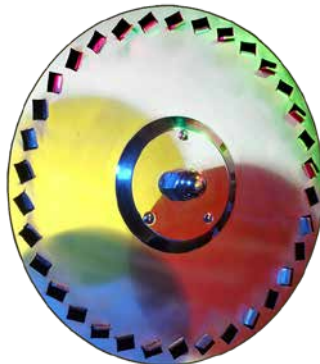
- Paints and lacquers
- Coatings
- Printing inks
- Metallics
- Custom color blending
- Dissolving / solubilizing
- Construction chemicals
- Plastics
- Chip & slow flow resins
- Adhesives and glues
- Viscosity modifiers
- Rheology modifiers
- Gloss additives
- Epoxies
- Fertilizers / pesticides

## Featured Benefits and Options of the Dissolver

- Excellent dispersion, pre-mixing and ready mixing at low energy consumption
- Manufactured and assembled to the highest quality standards
- Tank gross volume up to 1500 gallons
- Hydraulic powered lift for lifting and lowering with built-in safety switch
- Optional dual shaft with scraper available for higher viscosity products
- Rotation speed control via VFD
- A range of motor sizes are available to fit your application
- Safety container fastening device
- EX-proof and non EX-proof motors available
- IP54 fan-cooled enclosure available

### Options:

- PLC control
- 20VH, 100WH, 1200ZH, and 2000ZH models can be configured for vacuum operation
- Stainless-steel lid



*Sawtooth dispersion discs*



*Rotosolver® high shear disperser*

## Diaf Dissolver Technical Details

| Model       | Batch Capacity (gallons) | RPM        | Motor Size (HP) | Standard | Explosion Proof |
|-------------|--------------------------|------------|-----------------|----------|-----------------|
| 20VH        | 4                        | 550 - 3500 | 2               | N/A      | ✓               |
| 100WH       | 25                       | 550 - 4800 | 5 and 7.5       | ✓        | ✓               |
| 400XH       | 100                      | 200 - 3000 | 15 and 20       | ✓        | ✓               |
| 1200ZH      | 300                      | 200 - 1600 | 25 – 60         | ✓        | ✓               |
| 2000ZH      | 500                      | 200 - 1200 | 75              | ✓        | ✓               |
| 3500ZS / ZG | 800                      | 200 - 1200 | 75 – 200        | ✓        | ✓               |
| 6000ZS / ZG | 1500                     | 200 - 1000 | 125 – 200       | ✓        | ✓               |