



Mass Transfer Systems

A North American Filtration Company

23 Walpole Park South

Walpole, Massachusetts 02081 USA

Tel: 001 (508) 660-9150

Fax: 001 (508) 660-9151

E-mail: mts.sales @ mtsjets.com

Website: www.mtsjets.com





PRINCIPLES OF JET MIXING

- Direct Pumpage (1X)
- Induced Flow (4X)
- Total Flow (5X)
- **4** 3 to 5 Turnovers per HRT
- **4** 10 to 150 bHP per Million Gallons



FEATURES OF JET MIXING

- No Moving Parts in the Tank
- No Special Supports or Baffles
- Dispersed Mixing
- **Low Maintenance**
- **Lase of Maintenance**
- **Low Installation Costs**
- Tank Volumes Up to Several Million Gallons

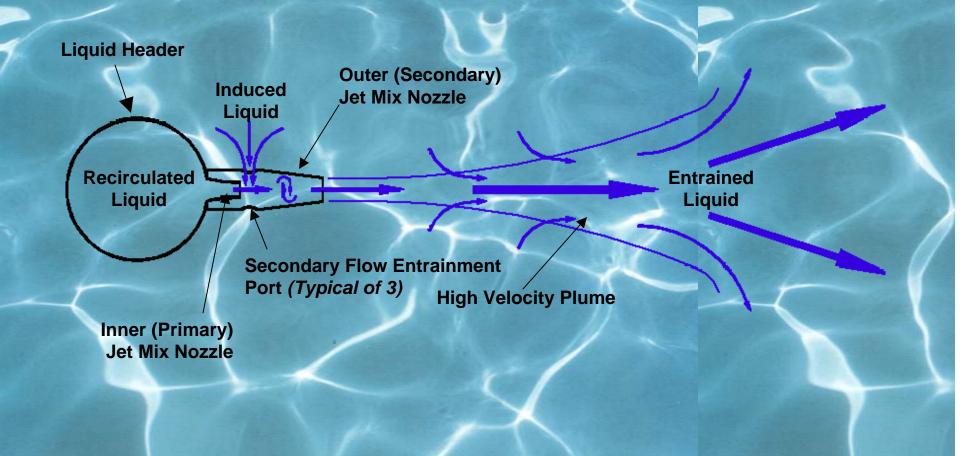


JET MIXING APPLICATIONS

- Flash Mixing
- **4** Equalization
- Neutralization
- Blending
- **4** Anoxic Biological Treatment
- Waste Solvent Storage
- Solids Suspension

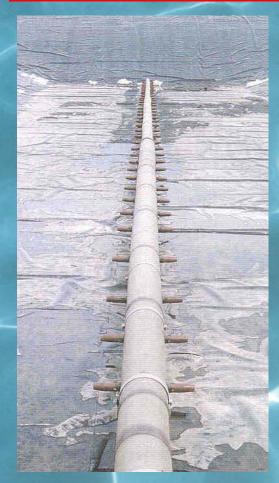


MTS JET MIXING





FIBERGLASS CONSTRUCTION







Mass Transfer Systems

ABOUT MASS TRANSFER SYSTEMS

- **♣** Founded in 1984
- **4 Over 1,000 Installations Worldwide**
- **4 Focused on Jet Aeration and Mechanical Aspiration**
- **Proven Experience**



COMPANY LOCATIONS

Company Headquarters – Sales, Engineering, Mechanical
Aspirator Manufacturing, Technical Support
Walpole, Massachusetts, USA

South Carolina Facility – Sales, Fiberglass Fabrication
Denmark, South Carolina, USA

New Jersey Facility - Sales, Stainless Steel Fabrication
Ramsey, New Jersey, USA



MTS PRODUCTS

Jet Aeration

- 1. Jet Manifold and Jet Pod Configurations
- 2. Fixed and Retrievable Configurations
- 3. Fiberglass or Stainless Steel Construction

Jet Mixing

- 1. Jet Manifold and Jet Pod Configurations
- 2. Fixed and Retrievable Configurations
- 3. Fiberglass or Stainless Steel Construction
- **Mechanical Aspirators**
- Effluent Decanters



DOMESTIC AND INTERNATIONAL PROCESS APPLICATIONS

- Industrial Wastewater
- Municipal Wastewater
- Industrial Process Mixing
- **4** Municipal Water Treatment



INDUSTRIES SERVED

- **4** Pharmaceutical
- Pulp & Paper
- Food Processing
- **4** Chemical
- **4** Petrochemical and Refining
- **4** Textile



MTS JET NOZZLES

- MT1 The MT1 jet nozzle is capable of passing a
 1-inch spherical solid particle.
- MT2 The MT2 jet nozzle is capable of passing a
 1.5-inch spherical solid particle.
- ♣ MT4 The MT4 jet nozzle is capable of passing a
 2-inch spherical solid particle.

Because the MTS MT1, MT2, and MT4 jet nozzles have larger solids passing capabilities, the MTS jet mixing or jet aeration manifold systems are significantly less prone to plugging or clogging.



MTS TECHNICAL CD-ROM



Jet Aeration and Mixing Technical Manual and Multi-Aspirator Technical Manual on both 3-inch and 5 1/4-inch CD ROMS.

Available Upon Request.

