

Chemical (Acid) Dilution Trough

WATER TREATMENT EQUIPMENT FOR DILUTING
ACIDS USED IN COOLING TOWERS

Available Models:

Micro Acid Eddy	Max Acid Flow
Model #AE-MIC-PVC	250 gpd
Model #AE-MIC-CPVC	250 gpd

Macro Acid Eddy	Max Acid Flow
Model #AE-MAC-PVC	500 gpd
Model #AE-MAC-CPVC	500 gpd

*Optional *Closed Trough* design is available in all models.

The **Acid Eddy** chemical dilution trough is engineered to extend the service life of cooling tower basins and sump pumps. Because many treatment chemicals are nearly twice as dense as water, they tend to sink directly to the bottom of the cooling tower basin. Over time, this concentrated chemical exposure can degrade concrete and structural supports. The Acid Eddy™ helps mitigate this issue by diluting the chemicals with water prior to their introduction into the basin.

Designed with a raised inlet, the **Acid Eddy** creates a gravity-driven flow of the acid-water solution through a series of baffles. These strategically placed baffles disrupt the main current, generating multiple eddies that enhance mixing and promote thorough dilution. As a result, the diluted solution is evenly dispersed throughout the basin, reducing localized chemical concentration and protecting key structural components.



Applications:

- Sulfuric Acid
- Sodium Hypochlorite (Chlorine)
- Corrosion Inhibitors
- Cooling Tower Dispersant

Benefits:

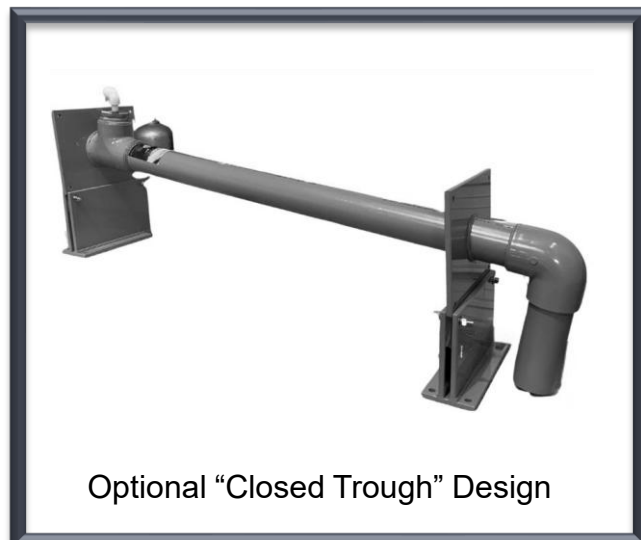
- Drastically reduces chemical damage to cooling tower basin
- Protects cooling tower sump pumps
- Reduces downtime of tower for basin repair
- Simple design greatly improves reliability
- More precise chemical control
- Lowers chemical costs by controlling chemical feed rate

BULLETIN, Acid Eddy Pg 1 of 2, 7/2025

Water Treatment
Professionals



Chemical (Acid) Dilution Trough



MODEL #	MAX ACID FEED RATE	LENGTH (End to end)	WIDTH (Base of Support Feet)	TROUGH WEIGHT	SHIPPING WEIGHT (Crated)	CONNECTIONS
MICRO AE-MIC-PVC AE-MIC-CPVC	250 gpd	57 in.	12 in.	25 lbs	236 lbs. (60" x 21" x 26")	½" PVC FNPT for Water ½" PVDF (Kynar) FNPT for Chemical
MACRO AE-MAC-PVC AE-MAC-CPVC	500 gpd	90 in.	12 in.	70 lbs	330 lbs (90"x20"x 26")	¾" PVC FNPT for Water ½" PVDF (Kynar) FNPT for Chemical
*Optional Closed Trough Design Available (ordering example AE-MIC-PVC-CL)						

Flow Monitoring

Because chemical overdoses can severely damage a cooling tower system, the use of pH monitoring and acid flow monitors should be considered.

Optional water and acid feed verification flow monitors / meters permit accurate measurement and control of chemical feed systems. Contact Global Treat, Inc. for optional flow monitoring devices.

Available Options:

- ☐ Flow Monitor for simple verification of water or acid flow or no flow
- ☐ Flow Meter to indicate flow via a local indicator and 4-20mA output for water or acid flow.
- ☐ Optional "Closed Trough" Design