



The Typhoon Mantis

The Typhoon Mantis is a land-based stand alone delivery system designed to be placed in a location that is ideal for evaporation. Systems have been installed on slide slopes of landfills, edges of wastewater holding ponds and a variety of other places where the water can be easily managed and evaporated.

The Mantis like any other system is configured by the NWCI engineering team to fit your locations specific needs. There are several advantages to using the Mantis system but one of the biggest advantages is that it is flexible enough to be moved to a different location fairly easily.

The dimensions and relative location of the Mantis are designed to accommodate the site-specific needs of the project taking into account prevailing wind direction and potential drift paths as well as ease of access for maintenance purposes



Design Advantages

The Typhoon Mantis design gives it several advantages over its competition besides the automation system and advanced hardware used. Some of these advantages include:

Cost Effective Scalability - NWCI's Mantis is very simple design that allows the end user to add units over time or several units at once to meet their evaporation needs. They can be spread across a large area or bunched together to maximize the evaporation potential of the unit.

Land-Based Platform - The Mantis is designed to be installed and mounted on land. It is ideal for Side slopes, fields or ponds that have a berm running down the middle of them. The advantage of having a land-based system is access, making the system easy to maintain and adjust.

Easy Installation - Installation is fairly simple for the Mantis. The main post slides over a steel post that can be driven in the ground or placed in concrete. Power, water and control wiring are then connected to the system and it is ready to go.

Mobile Platform- Because of the ease with which a Mantis can be installed it is fairly easy to move the system. We have built systems that run on a portable generator, water truck with a pump and above ground wiring and hosing making it very easy to relocate if necessary (see image below)

Measure, Control, Optimize and Justify - The Mantis just like our other systems allows owners to measure the performance of the system, control risk of drifting particles, optimize the system to maximize evaporation and justify the original and continued investment in the system.



Typhoon Mantis Specifications

Motors Options	1.5 or 3 HP TENV (Totally Enclosed Non-Ventilated) Motors or Hydraulically Driven Motors (limited by distance between units)
Typhoon Arm	15 to 30 ft adjustable arm with mounting brackets and manifold for Typhoon Motor
Support Post	Stainless steel post with mounted stainless steel winch used to raise and lower arm with an additional ss safety chain
Controls	HMI, EVAP Network Connection, Flow Meters/Valves, Pumps
Flow Rate Range	Electric: 0 to 5gpm / Hydraulic: 0 to 8gpm (flow rates are further dependant upon basket diameter and mesh type)