



OVERVIEW

The SMI® 420B Evaporator is a land-based unit, designed to simply and reliably evaporate excess water in a variety of pond sizes, especially sites containing large particles or highly corrosive water. The 420B Evaporator is durable, simple to use and easy to maintain – a reliable way to manage your excess water.

BENEFITS

Flexible Operation: The SMI 420B Evaporator can be operated vertically upright or angled over the pond by manually lowering or raising the boom. The machine can function in virtually any wind conditions, as it is not sensitive to blowback.

High Performance: High-speed fan blade rotation creates an optimum water droplet distribution for evaporation. Annual evaporation rates up to 70% have been achieved, with average rates typically between 25 and 60%. Evaporation rates depend upon many factors, including ambient temperature, relative humidity, water make-up and wind.

Easy Maintenance: Designed for easy cleaning and maintenance, this unit requires no weekly bearing lubrication, as it is lubricated for the life of the motor.

Minimal Clogging: The SMI® 420F Evaporator can pass particles up to 3/16 inch (4.7 mm) in diameter, which reduces the need for pre-filtering, filter cleaning and the hassles of clogged nozzles.

Extreme Duty: This design has evolved from 10 years of experience in industrial and extreme outdoor applications. Critical components are manufactured from stainless steel for extended life in harsh environments.

FEATURES

Flexible plume height to adjust droplet drift for greater efficiency in swirling or constantly changing winds and higher evaporation rates due to longer hang time

Heavy industrial construction, including stainless control panel, motor enclosure, manifold and fan blade for increased durability and service life

Vibration sensor included to shut down motor before catastrophic failure due to residue or ice build-up



SMI 420B EVAPORATOR



Jack



Frame



Head Assembly

SPECIFICATIONS

Fan and Head System

- 25 HP industrial grade world motor (for 3 phase / 480 volt / 60 cycle and 3 phase / 400 volt / 50 cycle power; motors for other voltages available upon request)
- Stainless steel casing protects motor and enhances cooling
- Patented stainless steel fan blades (optional scale-resistant coating)
- Vibration sensor for motor shut off

Boom, Platform and Base

- Galvanized steel construction with stainless steel fasteners
- Easy-to-use-jack and safety chain
- Stable, free-standing concrete counterweight system

Water System

- Standard flow, stainless steel water manifold for average evaporation conditions. Designed for flow rate of 66 gpm (250 lpm) at 100 psi (7 bar) water pressure
- Valve for flow control and water fall-out adjustment

Electrical

- 25 HP premium efficiency fan motor rotating at 3600 rpm (480 volt / 60 cycle) or 2900 rpm (400 volt / 50 cycle)
- Stainless Steel control panel with start and stop buttons
- 150 foot (45 m) electrical cord

Warranty

- Full one year warranty on all parts and workmanship

Options

- For acidic or high-alkaline water applications, stainless steel construction and acid-resistant coating
- Special scale-resistant coating on fan to reduce residue build-up on blades
- 180 degree swing option available for boom
- Optional high flow, stainless steel water manifold for above average evaporation conditions. Designed for flow rate of 91 gpm (344 lpm) at 100 psi (7 bar) water pressure
- Y-line manual flush filter for dirtier water



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