

LUBING

PLASTIC COOLING PAD
EVAPORATIVE COOLING PAD SYSTEM



RELENTLESS QUALITY. EXCEPTIONAL SERVICE.

THE LUBING PAD CLIMATE SYSTEM IS USED IN AREAS WHERE HIGHLY EFFICIENT COOLING IS REQUIRED. IT CAN BE USED FOR MANY DIFFERENT COOLING PURPOSES.

THE TECHNOLOGY OF EVAPORATIVE COOLING

Water is transported through the system from a pump station and directed onto the pads from above with a water distribution pipe and water deflector.

The water then flows over the corrugated surface of the pad where it's surface area is maximized to efficiently remove heat from the air flowing through it, resulting in some evaporation. The remaining water is used to clean the pads and flows back to the supply unit via a water channel system.

The thermal energy required for evaporation comes directly from the air. Therefore, the air coming out of the pads is cooled and humidified at the same time without any additional external energy supply for the evaporation process.

The Pad system is available in different sizes and power levels.

ADVANTAGES

- Newly designed clip profiles provide easy installation
- No corrosion: All parts are made of PVC or stainless steel
- No external water tank required: The water gutter provides a finite amount of water to run the system until evaporation losses require additional supply via an automatic float valve
- Deflector design with integrated hinge system provides the ideal water distribution over the entire pad length
- Newly designed water trough has a rodent-proof cover and provides ideal water recirculation
- Robust centrifugal water pumps available in different sizes and voltages

SYSTEM COMPONENTS

The components of the LUBING plastic cooling pad system are engineered for fast and easy assembly, and for a long service life with little maintenance required.

1 WATER DISTRIBUTION

- Special distribution pipes
- Newly developed deflector
- Even water distribution over the entire pad length

2 BALL VALVES

- 2" ball valve in-line for fine adjustment of water quantity
- 1" ball valve (T-piece) for adjustment of permanent water drain (bleed-off)

3 DEFLECTOR

- Newly developed deflector profile with integrated hinge system
- Easy access, quick inspection and easier cleaning

4 CLIP FUNCTION

- All profiles with clip function for easy attachment to the pipe holder
- Pad guides provide high stability
- Easy exchange of pads

5 WATER GUTTER

- Water gutter for complete water demand of the system - no external water tank necessary
- Holder for securing the water gutter to the wall or floor

6 SUPPLY UNIT

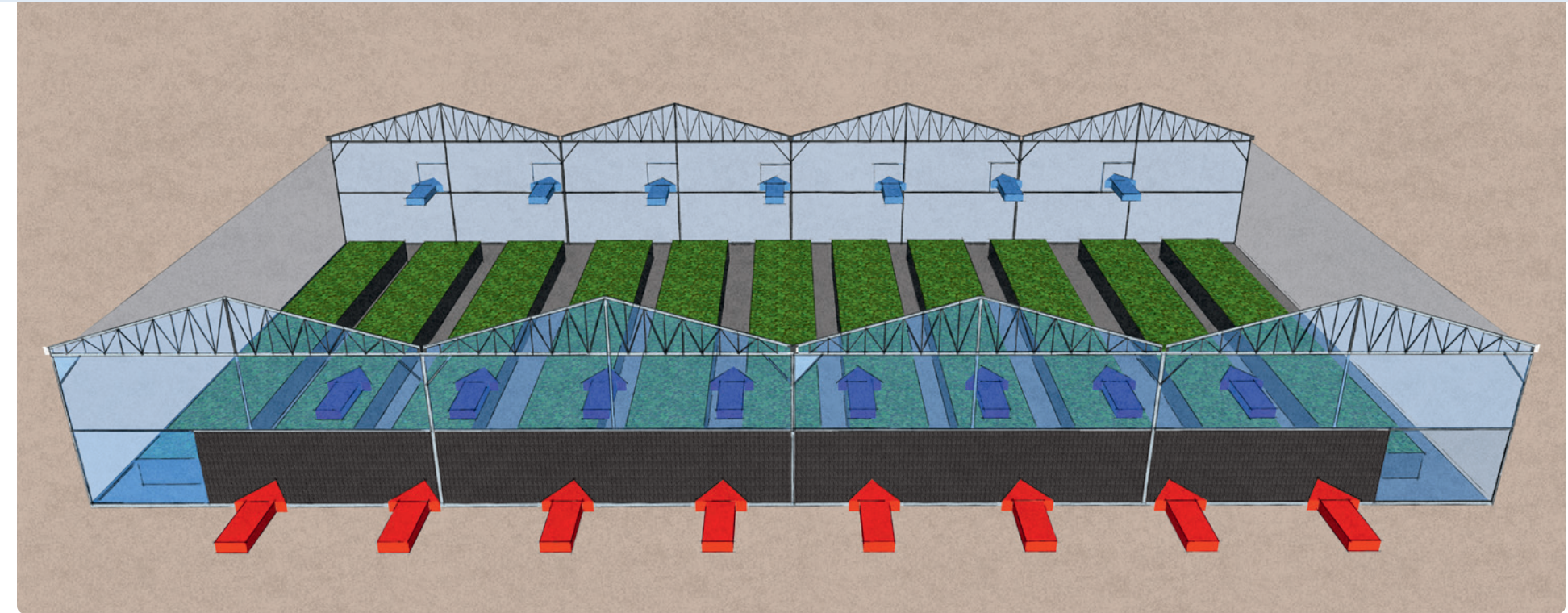
- Delivers completely assembled
- Included integrated flushing adapter for thorough flushing of the system
- Float valve maintains constant water level in the system by controlling incoming water supply

7 WATER PUMPS

- Centrifugal pumps with integrated filter and 2" pipes
- Pumps available in three different sizes and voltages to suit your required system length (see back side)

8 WATER GUTTER COVER

- Pad supports provide ideal water recirculation
- Rodent proof
- Optional splash protection profile available



THE BENEFITS OF LUBING'S PLASTIC PADS

- **Excellent cooling capacity - patented design:** The special layout of solid surfaces and mesh structures ensures ideal water distribution through the Pad. This allows for proper wetting and less splashing, resulting in highly efficient cooling capacity
- **Easy to clean:** The use of welded, highly resistant polymer sheets allows the plastic pad to be easily cleaned without damaging the Pads
- **Long service life:** The use of polymer sheets in combination with thermal welding guarantees best stability and a long service life
- **Lowest pressure loss:** At an air velocity of 300 ft/min (1.5 m/s) the plastic pad's pressure drop is only at 0.40 inches of water (10 Pa.) substantially lowering energy consumption
- **High UV resistance:** The use of UV-stabilizing additives ensures outstanding resistance to UV light for years.
- **Impermeable to light:** The plastic pad's geometry blocks out light from the outside
- **Chemical resistance:** The plastic pad is made of Polypropylene, which is highly resistant to most chemicals.
- **Pad width:** Pads are offered in 2' wide sections

VERSIONS

Dimensions	Item #
6" X 2' X 4' (150mm X 600 mm X 1219 mm)	7988-1219
6" X 2' X 5' (150mm X 600 mm X 1524 mm)	7988-1524
6" X 2' X 6' (150mm X 600 mm X 1829 mm)	7988-1829
6" X 2' X 6.5' (150mm X 600 mm X 2000 mm)	7988-2000

Other dimensions upon request.

FROM OUR HANDS TO YOUR FARM

LUBING is located in Cleveland, Tennessee, where we personally inspect every product before it arrives at your greenhouse. We maintain a large inventory to fulfill orders quickly, knowledgeable team members to help you determine what you need, and we work with you to ensure that your equipment is working to its full potential.

