

AQUAMAT SYSTEM

EFFICIENT IRRIGATION. FORWARD THINKING.



AQUAMAT

IRRIGATION & WATER
CONSERVATION SYSTEM



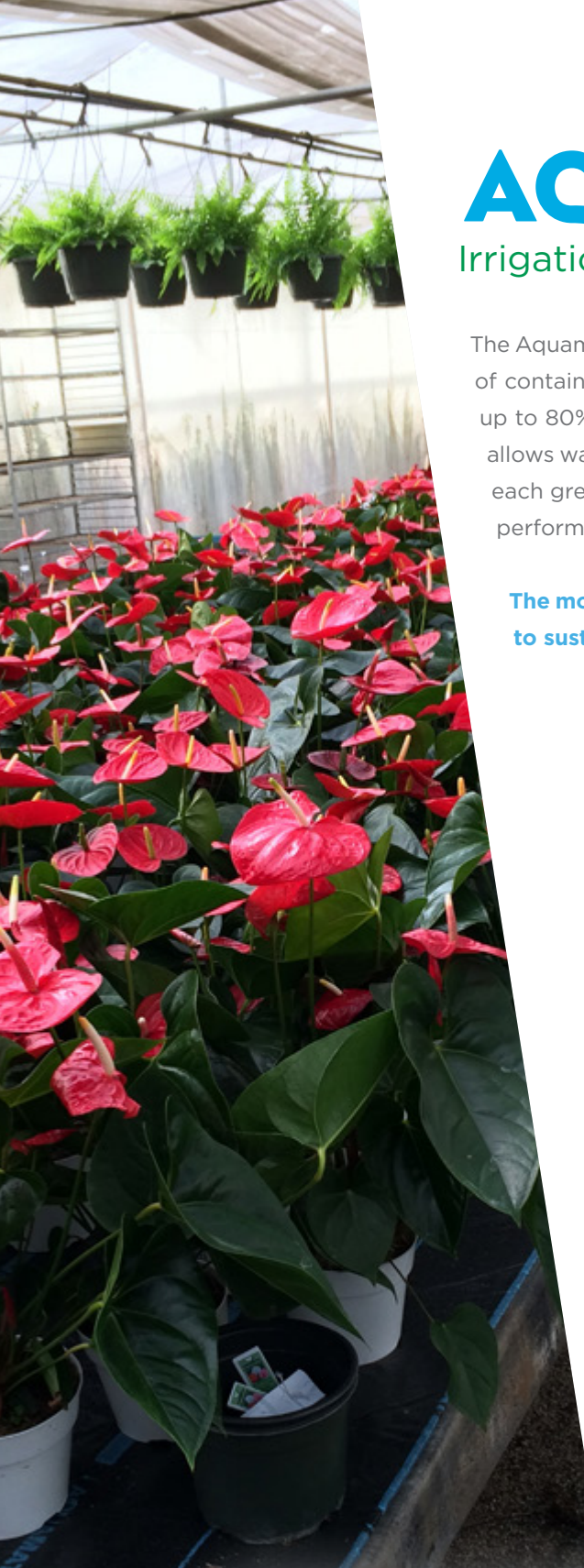
AQUATHERMAT

ROOT ZONE HEATING
& IRRIGATION SYSTEM

Rethink
RESOURCE USE.

Greenhouses | Garden Centers | Nurseries | Green Roofs

aquamatsystem.com/en/

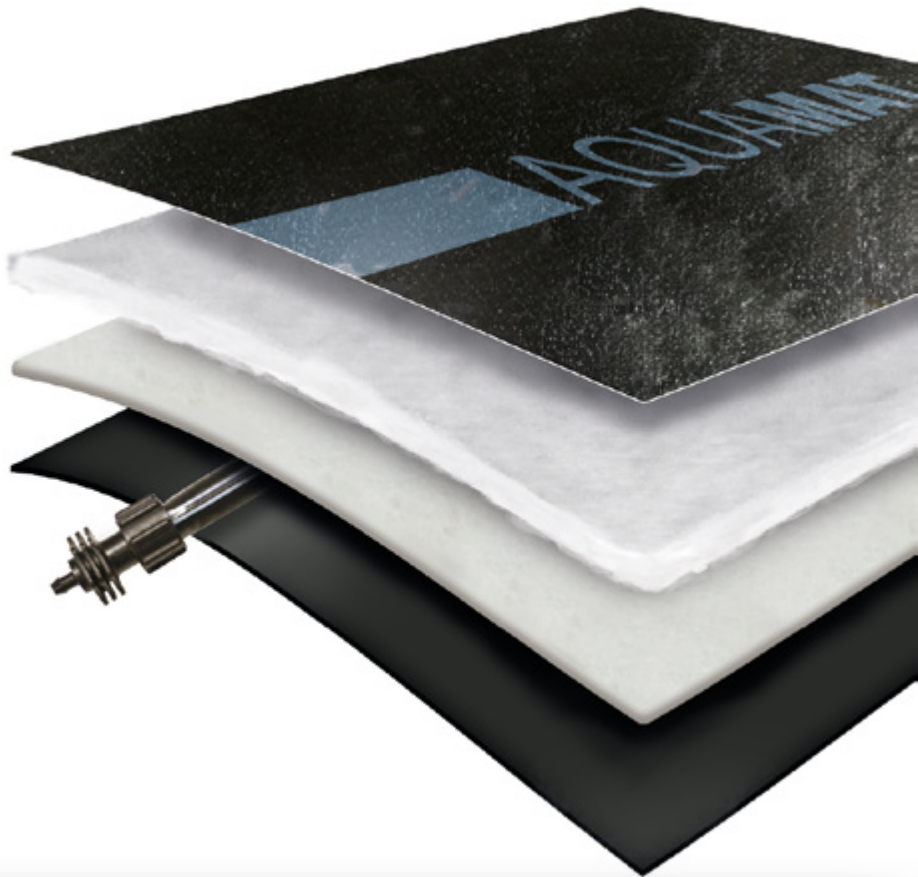


AQUAMAT

Irrigation and water conservation system.

The Aquamat irrigating capillary mat has been specially designed for the cultivation of container plants. Contrary to conventional irrigation systems that can result in up to 80% water loss (too fast drainage or loss between plant spaces), Aquamat allows water to be captured and stored inside the capillary mat. Custom-made for each greenhouse operation, it provides many advantages to increase the overall performance of your operation while reducing your impact on the environment.

The most efficient solution to increase profitability, save water and contribute to sustainable production.



COST SIMULATOR AVAILABLE!

The majority of our customers get a return on investment in less than 18 months with Aquamat !

**ESTIMATE YOUR SAVINGS NOW AT
[AQUAMATSYSTEM.COM/EN/COST-SIMULATOR/](https://www.aquamatsystem.com/en/cost-simulator/)**

WHY

choose the AQUAMAT irrigation system ?

Labour saving

It is necessary to know how to maximize high value tasks and eliminate the time spent on manual irrigation. Our Aquamat irrigation system allows workers to focus on other aspects of daily operation instead of watering. Indeed, due to its unique design, **your staff will be able to move freely on the capillary mat and use the necessary equipment such as a cart to harvest plants** without fear of disturbing the drip system. As it ensures uniform development of the plants under culture, you will save time in preparing your orders. **Aquamat is the right choice to reduce your labour costs.**



Savings up to 92%
in labour



LABOUR
saving

Water and fertilizer savings

Aquamat proposes a system that completely rethinks the use of resources, unlike most irrigation systems that can result in up to 80% water loss. Aquamat eliminates the possible loss of water and fertilizers, making it a much more efficient irrigation system. Aquamat consists of four layers with an integrated polyethylene film as the base layer. **This technology also reduces fertilizer requirements by up to 50%.**



Up to 70% reduction in
water and fertilizer use



WATER AND
fertilizer savings

Optimization of performance

With our Aquamat irrigation system, our customers achieve a return on investment within 6 to 18 months, depending on the type of production. **It also reduces the need for manual watering, which means less labour and an increase in marketable plants.** By optimizing resources, you will see a faster growth of plants, due to the absence of water stress, and a decrease in diseases and leaf spots.



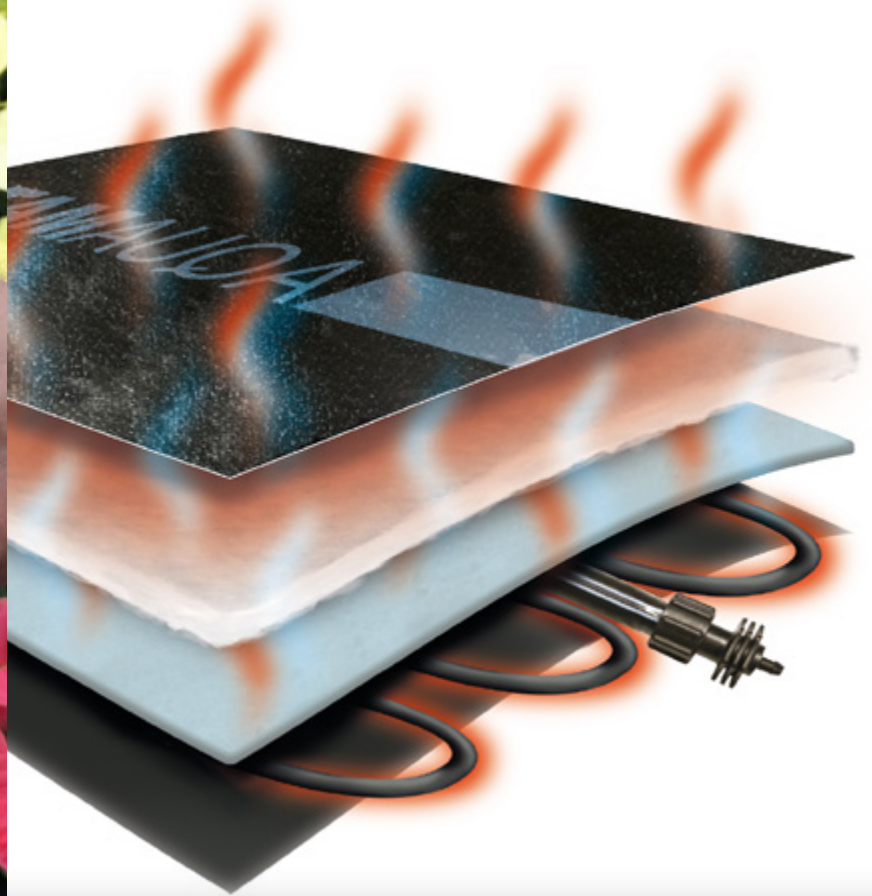
OPTIMIZATION
of performance



AQUATHERMAT

Root zone heating and irrigation system.

Aquathermat is the best solution to substantially improve your results in propagation of cuttings, seedlings, plant forcing and to shorten the production cycle. The results of various research studies demonstrate the positive impact of heating the substrate. By comparing plants produced on a normal table to those produced on Aquathermat, it is shown that root and foliar development is clearly superior in plants grown on heated capillary mats.



An efficient solution combining both an irrigation system and a root heating system.

ENERGY SAVINGS OF MORE THAN 45%!

WHY

choose the AQUATHERMAT irrigation system ?

Reduction of cycle time

The irrigation and root heating system allows a significant reduction in the production cycle since the heat is distributed directly to the roots, resulting in a significant gain in root mass. **The perfectly uniform heat combined with ideal humidity results in very fast rooting and a recovery rate of almost 100%.** By adjusting the production schedule to the accelerated growth of plants grown with Aquathermat, it is possible to obtain a considerable reduction in heating costs. **Choose a system combining irrigation and root heating and shorten your production cycles.**



Savings up to 92%
in labour



REDUCTION
of cycle time

Energy saving

With conventional irrigation systems, the ambient air must be constantly heated to ensure ideal growing conditions for the young plants. By opting for our system, which combines irrigation and root heating, the heat goes directly under the containers leading to optimal efficiency. **The ambient air temperature can thus be set to upwards of 8 degrees below the usual temperature.** The energy savings are substantial while improving the growth rate of young plants.



Up to 45% reduction in
heating costs



ENERGY
saving

Optimization of performance

Our Aquathermat irrigation and root heating system allows an optimized use of resources, reducing the need to heat ambient air and ensuring efficient irrigation by directly heating the plant substrate. **This proven technology greatly reduces the production cycle, provides a marked increase in the number of marketable plants and provides significant energy savings.**



Up to 70% reduction in
water and fertilizer use



OPTIMIZATION
of performance

HOW

does it work?

1 Irrigation

Water is brought inside the mat by an irrigation system composed of microperforated hoses integrated into the mat. When Aquamat is installed outside, rainwater is also absorbed by the mat. Therefore, there is no loss of water!

2 Absorption and diffusion

A reservoir layer with an exceptional retention capacity promotes efficient and uniform water circulation over the entire surface of the mat. A waterproof polyethylene film prevents water from escaping and eliminates fertilizer leaching.

3 Capillary rise

A second low-density textile, fused with the previous layer, ensures the diffusion of water by capillarity while preventing evaporation. The reservoir layer allows water to penetrate inside the mat, but releases it only under the pressure of the pots deposited on the mat. The water is thus conveyed to the substrate through the drainage holes under the pots.

4 Heated pipes

The heated pipes that circulate the hot water form a loop controlled separately from the irrigation part. Since the irrigation water is present at all times in the capillary mat, it is heated perfectly evenly by the heated pipes. The result is a very uniform production with a very high success rate.

APPLICATIONS



AQUATHERMAT

« Aquamat helps our operation to be more profitable: economy of manpower by 80% and water savings while having more uniform crop.

**Mike Fisher, Owner
Fisher Nursery
Ripon CA**

Aquamat is a nice product helping us improving our bottom line: labour savings, water savings, fertilizers and chemicals savings while having a very consistent crop and a quick ROI. »

**Mr. Norm White, President
White's Nursery
Chesapeake VA**

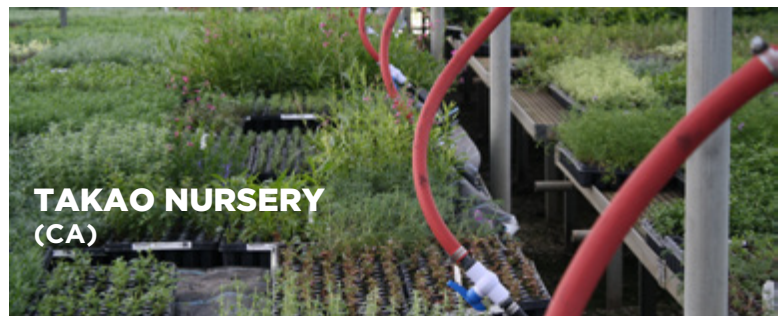
« Aquamat has been an excellent tool for our operation. It follows the best management practices (BMPs) we are constantly striving for. It helps us save labour, water, fertilizer, and reduce the spread of diseases. Quick payback!

**Phillip Rucks, Owner
Phillip Rucks Citrus Nursery,
Inc.
Frostproof, FL**

Aquamat has been a great tool for us: labour and water savings, less foliar diseases and flower damage, less shrinkage while having a consistent crop and a faster growth. »

**Rob Swanekamp Sr.
Vice President, Sales and
Production
Kube-Pak
Allentown NJ**

OUR CLIENTS TESTIFY



TRIAL PROGRAM

Benefit from the trial program now!

Because we are aware of the involvement required for the replacement or addition of an irrigation system, we are always innovating to support our customers, which is why we now offer a trial program. With this program, you reduce the initial investment required to transition your existing systems or your new systems. All our customers who have joined our test program recognize the economic benefits of our systems. With an average return on investment of 6 to 18 months, our technologies will improve the profitability of your business.

The following conditions must be met:

- ✓ The test program is applicable for a system installed on a maximum area of 1,200 square feet.
- ✓ The total production area (of your facilities) must be a minimum of 20,000 square feet.
- ✓ The containers and trays used must be compatible with the capillary mats. To find out the compatibility of your trays with our capillary mat, contact us!
- ✓ The production surface must have a slope of less than 0.5%.
- ✓ The systems can be installed indoors or outdoors, on tables or on the floor.

OUR EXPERT

Patented technology tied to advanced expertise.

Are you considering changing your current irrigation system or acquiring a new one for your facility? Let our technical expert advise you with our customized solutions adapted to your business. Aquamatsystem products are available throughout North America and in more than 50 states and territories in the U.S.

To find your distributor, contact us!



Get up to 50% off by joining our trial program.

Learn more about this program at aquamatsystem.com/en/trial-program/

DISCUSS IT WITH
OUR EXPERT!

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