

LOWER COSTS. BETTER CROPS. HIGHER PROFITS.

JOIN THE INDOOR CLIMATE CONTROL REVOLUTION!

MSP 
TECHNOLOGY

CANNABIS
CLIMATE SOLUTIONS

Superior Plants Require Superior Growing Conditions – MSP® Technology Delivers the Optimum Environment



At MSP Technology – Cannabis Climate Solutions, we understand the physics surrounding indoor agriculture. We are masters of Psychometrics, the study of air and how it reacts to changes in temperature, humidity and altitude. MSP's Wrap-around Plate Dehumidification Technology's delivers the ideal marijuana plant-growing environment by precisely controlling and maintaining ideal humidity and temperatures in a closed environment.

MSP® Dehumidification Technology with Atmospheric Water Generation for Irrigation – How It Works

STEP 1 – Warm, humid incoming air (T1) flows through the first pass of the plate air-to-air heat exchangers for pre-cooling and initial condensing and water production. This is achieved by regenerative thermal exchange with the cooler air that is leaving the heat exchanger. (See Step 3).

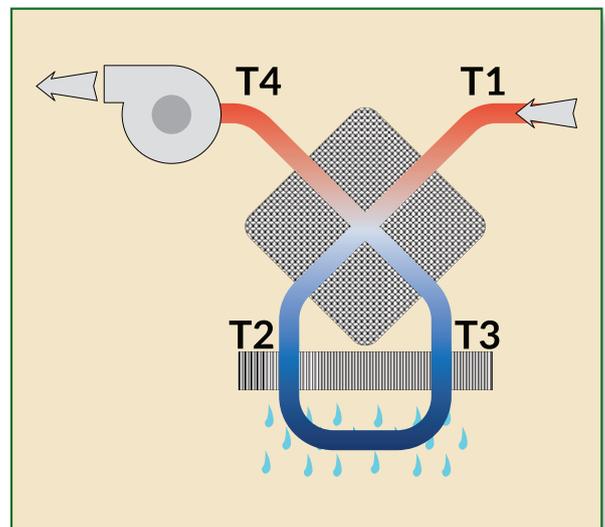
Benefit: Pre-cooling, condensation and water production by regenerative thermal exchange are “free” and involve no additional equipment.

STEP 2 – Pre-cooled air (T2) then passes twice over conventional cooling coils for final, condensing and water production.

Benefit: Pre-conditioned air can be treated much more efficiently, using smaller compressors that require as little as one-half the power.

STEP 3 – The cool, now dry air (T3) is then drawn back through the opposite side of the heat exchanger where it absorbs some heat from incoming air (See Step 1) and continues on to control humidity in the conditioned environment.

Benefit: There is no heating coil - and no energy penalty - needed to reheat the dehumidified air before it enters the conditioned environment.



MSP® Technology Delivers a Clear Value Proposition

- **Strong, Healthy Plants** – MSP® Technology helps prevent mold and airborne pathogens.
- **Lower Operating Costs** – MSP® Technology lowers costs by 39-58% over traditional dehumidifiers.
- **Lower Maintenance Costs** – MSP’s dehumidification process has no moving parts on the airside with the exception of a beltless fan.
- **Fast Return on Investment** – MSP® Technology’s patented dehumidifying coils provide the highest efficiency and lowest energy consumption. The energy savings deliver a payback in less than one year. MSP’s equipment also qualifies for “Energy Efficiency Rebates,” affording you maximum energy credits from your utility company.
- **Reduced Carbon Footprint** – Through reduced energy consumption, you will reduce your carbon footprint and greenhouse gas emissions. The ability to use recycled water for irrigation further contributes to your sustainability practices.
- **Sanitary** – Full draining; no standing water.
- **Free Water Recovered for Plants** – Achieved through regenerative thermal exchange



MSP Technology provided its dehumidification, climate control and water recovery solution for a grow facility in Massachusetts. It consists of 84,500 CFM of chilled water dehumidification and 200 tons of capacity serving multiple cultivation rooms.

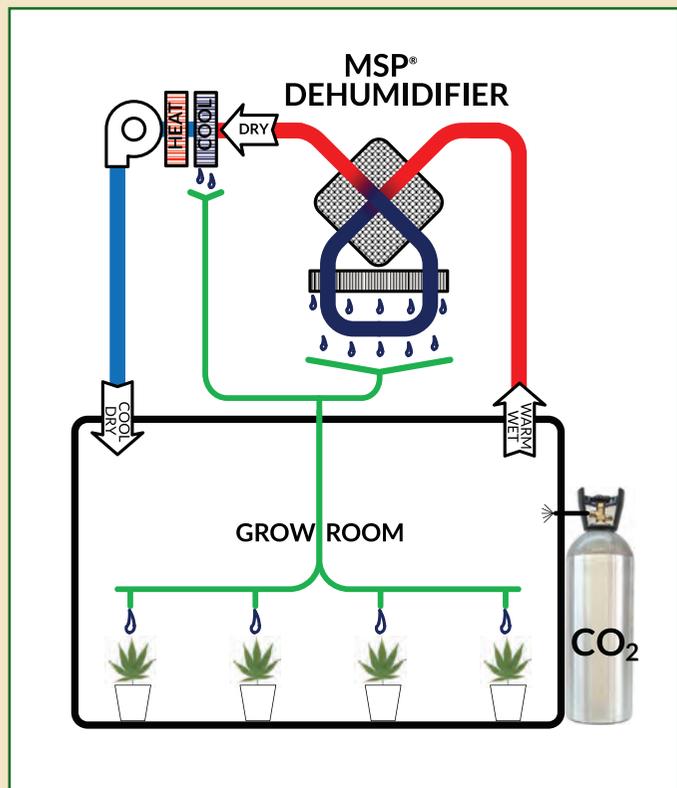
“The reason for us choosing the MSP equipment over any other manufacturer’s unit was due to the dramatic increase in load required to maintain the space conditioned required when compared to standard air handling equipment. For our project, this equated to approximately a 38% decrease in load which allowed the central equipment (chillers, pumps, etc.) to be significantly smaller. When compared to other custom-built equipment utilizing some form of energy recovery such as wrap-around heat pipe, desiccant wheel, etc., the MSP equipment was far less costly – about 25% from the next closest competitor – as well as still providing a better performance rating.”

– Rick Calhoun, Mechanical Engineer, SED Associates Corp. (Boston, MA)

Leveraging over 50 Years of Climate Control Experience to Help Marijuana Growers Succeed

MSP® Technology- Cannabis Climate Solutions is fast-becoming one of the marijuana cultivation industry's most trusted resources for high performance climate control solutions. The proprietary MSP dehumidifying coil technology was invented by Walter Stark. He brings over 50 years of experience in the heating, ventilating and air conditioning (HVAC) industry. Mr. Stark is widely-recognized as one of the HVAC's industry's most prominent innovators and thought leaders. Past President of his local chapter of the American Society of Refrigeration Air Conditioning Engineers (ASHRAE), Mr. Stark's distinguished career includes

many awards, such as the *ASHRAE Regional Award for An Energy Efficient Project*, the *New York Governor's Award of Energy Excellence*, and a feature in *Popular Science* magazine's *Best of What's New*.



Leverage MSP's Proven Track Record and Unparalleled Value Proposition. Call Today for a Free Consultation.

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