

Mold, Mildew Issues? Decreased Yield? Inconsistent Growing Climate?

Protect your plants from the hazards of inconsistent Vapor Pressure Deficit with MSP Technology.



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 and Atmospheric Water Generation Technology – 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).

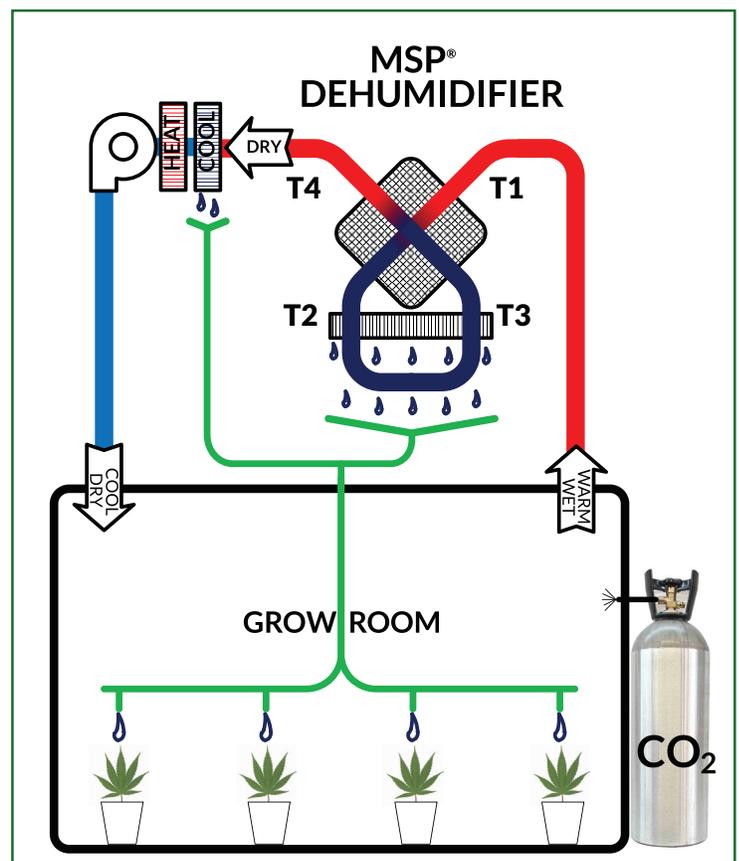
Benefit: Pre-cooling, condensation and water production by regenerative thermal exchange are energy-free and involve no additional equipment.

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

CANNABIS
CLIMATE SOLUTIONS

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 heat exchangers and 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

Contact us today for a free energy savings audit of your dehumidification system.

MSP Technology

A Division of KCC Manufacturing

2716 Grassland Drive

Louisville, KY 40299

(800)382-2872 ext 1161

msp@kccmfg.com

www.msptechnology.com



CANNABIS
CLIMATE SOLUTIONS



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.