



## AROUND-THE-CLOCK CANNABIS GROWING

HVAC packaged solution provides humidity control in grow rooms

### Benefits:

- Integrated solution for environmental control of grow rooms
- Reduced energy cost for dehumidification
- Proven technology & components for reliability
- Flexible options to meet cultivation demands
- No auxiliary dehumidification units needed

### Temperature/humidity control

Controlling the humidity in your grow room is vital to keeping plants healthy and transpiring at a strong rate. Managing temperature and humidity to the proper VPD (Vapour-Pressure Deficit) level guarantees optimal growth while preventing plant rot or the spread of mold. VPD is measured in kilopascals (kPA) and is the difference (deficit) between the amount of moisture in the air and how much moisture the air can hold when it is saturated. Indoor growers depend on VPD measurement as a way to monitor water stress on their plants. D&B offers a single-source, professional solution that ensures proper VPD levels in daytime/nighttime conditions.

### Customized to meet grow-room applications

An accurately designed and maintained dehumidification solution can support the ideal VPD for optimizing advantageous plant growth while increasing energy efficiency. D&B Building Solutions has worked with the experts at Alliance Air Products to create an individualized application solution for indoor plant growers. In addition to proper VPD control, D&B can offer design options for air filtration, odor control, mold elimination and water reclamation.



# PROVEN TECHNOLOGY TO PROTECT YOUR VALUABLE CROP

## Energy recovery, redundant ventilation, GPS protection

D&B Building Solutions' solution includes Latent Energy Recovery, which is best for cultivators. It's proven technology delivers latent dehumidification at night and sensible dehumidification during the day. Redundant fans and drives provide added protection against crop loss from ventilation equipment failures. Filter options and standard GPS Bi-polar Needlepoint Ionization in the coil section guard against contamination of your valuable crop.

## FEATURES AND SPECIFICATIONS

Typical Design Conditions	Standard Features	Options	Sizing
9,000 cfm	Indoor or Outdoor construction	OA Mixing Box	2,000 cfm through 18,000 cfm
External static up to 2.5" or as required	GPS Ionization & all filter combinations 2"-12"	Self-cleaning GPS	
Return air temperature: 78 °F DB, 68 °F WB (60% RH)	Dual direct drive Plenum fans with VFDs or ECM fans	GPS Ionization for contaminants & odor removal	
Available with 32 °F or 40 °F water/glycol solutions	Aluminum Hx with face & Bypass	Condensate reclaim	
Leaving air temperature 48-50 °F	Up to a 12-row chilled water coil	Fully customizable: 2" or 4" with any combination of galvanized steel, aluminum or stainless steel construction / Fully DX or natural gas capable / Thermal break construction available / Special coatings / optional full wash down units	
Re-cooling coil cools air to required RH% or leaving air temp	2 to 6 row re-cooling coil		
Hot water coil heats air from 55-72°F with 140-110 °F 30% propylene glycol hot water	1-2 row hot water coil		



FOR MORE INFORMATION, PLEASE CONTACT:  
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