

GSD-15

(Patent Pending) 3-in-1 Cooling, Dehumidification, and Heating Unit

Our built-in energy recovery module (air-to-air heat exchanger) utilizes the warm ambient temperature of the grow environment and a deep cooling process to optimize over system efficiency. This process alone reduces up to 40% of the total cooling load and 65% on-reheat process.

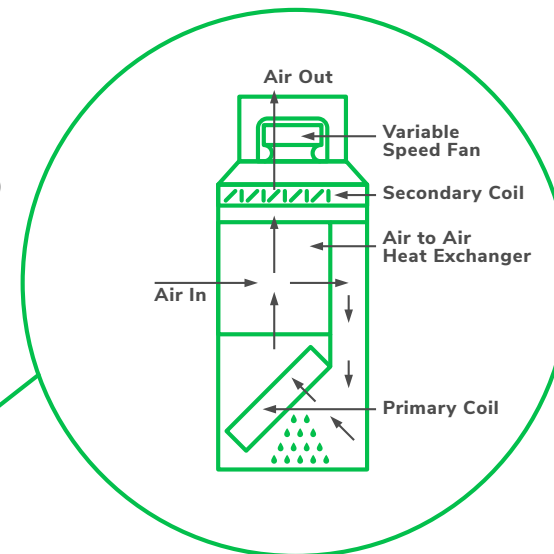
Front End Control

Built-in PLC Controller. Programed PLC means it can also operate as a standalone unit or with multiple units (lead & lag programming) for a larger grow room.

HMI touch screen for front-end parameter setting, monitoring & control: built with ModBus & ALC for IoT/ SAAM integration

Design Features:

- Removing 90% of the light waste heat from the environment, combined with the GSD-15's built in energy recovery module, generates homogenized air temperatures and no transition period between lights on and lights off.
- Built-in energy recovery module (air-to air heat exchanger).
- Re-purposes heat from Liquid Cooled Lights for the dehumidification process further improving the overall system efficiency.
- Designed for varying load scenarios throughout the grow cycle.
- Built with a primary and secondary coil to provide supplementary cooling or heating along with dehumidification .
- Automatic VFD controls fan speed and water flow according to the dehumidification load and temperature setting.



Inside the GSD-15

