Rationale

Energy loss is a big concern that greenhouse growers face when managing indoor high relative humidity (RH) levels and regulating air quality by opening the vents.

Dehumidification Methods



Preliminary Outcomes

Unit performance: goal to keep RH within a 'set' range

- units run late afternoon until early morning
- condensed water re-use
- heating energy & electricial consumption comparison still ongoing
- turn off units to obtain benchmark data
- facility changes = delay in data collection

Microbial air quality: goal to decrease disease pressure

- high population of yeast and mould in zone without any dehumidifcation or ventilation
- testing complicated by the movement of plants between zones during the day
- more tests required to evaluate dehumidification effects on plant health

