

# EVOLUTION 4x SERIES

MOISTURE REMOVAL: 133 TO 164 LBS/HR | AIR HANDLING : 7,500 TO 13,000 CFM | COMPRESSOR CAPACITY: 25 & 30 TONS



## THE ULTIMATE INDOOR HVAC SOLUTION FOR COMMERCIAL GROW ROOMS

Designed specifically for commercial grow rooms, our Evolution 4x Series takes Evolution technology to a new level. With two separate, redundant circuits, and 4 compressors, the 4x delivers 12 distinct stages of performance, to provide the most precise temperature and humidity control in the industry. Assiduously

matching load requirements through every stage of growth, the 4x won't over dry or over cool. The genius of this dual circuit, quadruple compressor design also provides failsafe redundancy, while conserving energy by turning off unneeded compressor capacity.

## REDUNDANT, SCALABLE TEMPERATURE AND HUMIDITY CONTROL

The Evolution 4x Series is engineered as two independent, multi-stage circuits in a single system to provide precise dehumidification and cooling performance, with quad circuit reliability and redundancy.

When dehumidification or cooling loads are below peak, compressors stage down or shut-off completely to use less energy, while matching the precise room requirements. As loads increase, the system adapts by engaging additional stages and compressor circuits to match room demands.

These exceptionally stable room temperatures are provided via modulating (0-100%) hot-gas reheat coils on each circuit. This design not only saves energy, but also virtually eliminates over-drying or over-cooling when demand is low. Should a compressor or fan in one circuit fail, you have the second one as an automatic backup.

## PROPRIETARY HEAT EXCHANGE TECHNOLOGY

Other manufacturers use refrigerant-based outdoor condensers, which are not only expensive to operate and maintain, but less reliable, bad for the environment and prone to service and regulatory issues.

AGronomic IQ's proprietary dry coolers use a water-glycol fluid mix to reject heat outdoors, thereby reducing expensive refrigerant usage by more than 90%. This technology virtually eliminates the risk of plant-killing refrigerant leaks and provides superior reliability. With just PVC piping to connect, our dry coolers are also easier and less expensive to install, have no line length limitations and eliminate the risks associated with low ambient temperatures.



## COMPETITIVE ADVANTAGES

- Quadruple independent circuits, scalable performance to suit every stage of growth, with ultra-conservative energy consumption
- Fully modular system — 4 compressors, 2 supply air fans, 2 cabinets, all in one package
- The security and reliability of quadruple, parallel, staged compressors
- Provides precise control of the variable humidity loads throughout each phase of growth
- Optional waterside Economizer Cooling with the potential to save tens of thousands in electricity costs annually
- EC blower motor technology for the lowest operating costs and sound levels on both the dry cooler and air handler
- Highest efficiency, for dehumidification and cooling performance with fully modulating reheat coil
- Utilizes proprietary AGronomic IQ Dry Coolers in a sealed system, requiring no field refrigeration work and reducing the risk of refrigerant leak
- Service vestibule outside of the airstream for ease of service and quiet operation
- Includes no-cost, 24/7 real-time Internet monitoring via proprietary GrowSentry™ Technology to ensure peak performance, along with remote system access and control for ultimate peace-of-mind and lower service costs
- Delivers a competitive first cost, low total cost of ownership and an exceptionally long service life