

WHY
SERIOUS
GROWERS
CHOOSE



THE TRUTH ABOUT GROWING CANNABIS.

Choosing the right HVAC system for your grow room is no small task. There are many factors to consider and a lot of differing opinions about what makes the most sense for such a mission-critical aspect to your grow business.

Unfortunately, this industry is abound with HVAC horror stories. Way too much money has been spent on pseudo-solutions that fall short of delivering the required results. There's also way too much money being spent unnecessarily on maintenance costs that negatively impact financial results.

10 REASONS WHY

After 42 years of environment control with over 80,000 installations, we've learned a thing or two about dehumidification and temperature control.

But rather than boast about how big we are, having the largest factory-direct service team, our premium components, or our large-scale manufacturing capacity, we thought we'd share just the top 10 reasons why serious growers choose Agronomic IQ as their HVAC partner.

1. Unitary Solution with Dehumidification Priority
2. Dry Cooler Heat Rejection
3. Built-In Performance Redundancy
4. Compressor Wall Technology (CWT)
5. True Economizer Cooling
6. Variable Capacity Compressor
7. GrowSentry® Internet Monitoring
8. Precise Modulating Performance Control
9. Service Vestibule Component Protection
10. Industry-Leading HVAC Design Support



1 UNITARY SYSTEM DESIGN WITH DEHUMIDIFICATION PRIORITY

TRUTH

Many systems sold to growers today lack dehumidification capacity and cannot adequately control humidity.

- The Agronomic IQ series can readily switch between air conditioning-only mode (cooling with no moisture removal) and dehumidification mode (cools room and removes moisture).
- Ours is a complete, all-in-one HVAC system, purpose-built for the modern-day grow room. Heating, air conditioning and dehumidification are all delivered from one unit — as opposed to multiple standalone systems that fight each other for control of your space conditions.
- A unitary system is cheaper to install and operate — giving you flexibility to run multiple systems in one room for redundancy, or in multiple rooms for scalability.
- Our solution delivers far better performance, room control and energy savings than a typical rooftop air conditioner with supplemental dehumidification.

2 DRY COOLER HEAT REJECTION

TRUTH Other manufacturers are offering refrigerant-based outdoor condensers, which are not only expensive to operate and maintain, but also inefficient and risky.

- Our proprietary dry coolers reduce refrigerant usage by more than 85% and as much as 90%+ in our revolutionary Compressor Wall Technology, while virtually eliminating the risk of a plant-killing refrigerant leak.
- Our dry coolers are less expensive and simpler to install than traditional outdoor condensers because our systems require only PVC piping that can be installed by a plumber instead of a refrigeration contractor.
- If there's ever a leak, only water and a small amount of harmless glycol is involved.

TRUTH An HVAC unit failure could cost an entire crop.

- Our equipment has built-in redundancy with no single point of failure.
- Our signature Compressor Wall Technology (CWT) has multiple compressors and redundant fans that provide fail-safe performance.
- We provide the smartest and most integral redundancy of any equipment line in this industry, period.

3 BUILT-IN PERFORMANCE REDUNDANCY

4 COMPRESSOR WALL TECHNOLOGY (CWT)

TRUTH | We invented this technology specifically for grow rooms. It checks every box from reliability and performance to eco-friendliness and energy efficiency to deliver the ultimate solution.

- CWT allows a minuscule amount of refrigerant charge to massively reduce costs and refrigerant-related risks.
- CWT uses multiple, small, two-stage compressors rather than two larger variable-speed compressors. Along with a host of impressive features and benefits, the result is an ingenious, modular, scalable system that can precisely match room loads.
- Highly efficient operation results in substantial energy savings.
- No single point of failure and compressors are easy to replace or service — just unbolt and slide them out!

TRUTH

Taking advantage of free cooling makes nothing but sense. Every manufacturer should offer this, but only we do.

- Reducing compressor runtime can add up to very substantial energy savings that fall straight to your bottom line.
- We leverage our proprietary dry cooler heat exchange systems to capitalize on cooler outdoor temperatures below 50°F, for cooling without running compressors.
- We can do this because our system design eliminates the risk of introducing contaminants from the outside air.


5 TRUE ECONOMIZER COOLING

VARIABLE CAPACITY COMPRESSORS

TRUTH

Other manufacturers default to single-stage compressor with on or off cycling which causes excessive wear and tear (shorter life) while also creating less consistent room conditions.

- As standard, we use variable-speed scroll compressors that can dynamically adjust to better match load requirements.
- Not only does this result in more consistent room conditions, but it also saves energy and increases equipment life expectancy.



GROWSENTRY[®] TECHNOLOGY

INTERNET MONITORING & REMOTE CONTROL

TRUTH

Nobody else offers this technology for grow rooms — and without it, you can't make informed decisions.

- GrowSentry allows remote real-time monitoring and control of over 100 system parameters.
- Automated trouble alerts can notify key personnel to help prevent serious issues as soon as the system senses anomalies.
- Factory technicians can support remote fine-tuning of equipment performance and help troubleshoot by remotely viewing detailed operating logs that record every system parameter and store real-time data for a full 18 months.
- GrowSentry is included at no cost on every unit — all you require is an Ethernet cable to connect it.

TRUTH Every grower wants precise, consistent room control without unwanted fluctuations of temperature or humidity.

- Our proprietary control systems provide modulated heating and cooling (instead of on-off) to deliver the most stable room conditions, provides lower operating costs and reduces wear and tear on compressors — making them longer lasting and more energy efficient.
- Others use a binary heating-and-cooling system that continuously overheats then overcools the room.
- We've also designed our control systems to do some impressive live system monitoring of over 100 parameters, facilitated by built-in pressure transducers and control algorithms that ensure peak performance.

PRECISE MODULATING PERFORMANCE CONTROL

TRUTH Equipment serviceability and critical component protection is a big deal. That's why we go above and beyond our competitors to protect your investment.

SERVICE VESTIBULE COMPONENT PROTECTION

- In most of our designs, all major refrigeration and electronic components, including compressors, are kept in a separate vestibule outside the airstream.
- This ensures longevity by protecting equipment from hot, humid air while maximizing performance efficiency.
- Our service vestibule allows service work to be done without interrupting airflow and minimizes downtime for most service tasks.
- Any system that doesn't offer this must downgrade cooling performance by 20% due to radiant heat from the compressor, blower motor and hot gas piping. Yet, only Agronomic IQ has this.

INDUSTRY-LEADING HVAC DESIGN SUPPORT

10

TRUTH | One of the biggest challenges for HVAC in grow rooms is the lack of set standards — and there are very few people who are experts in this area.

- We're here to help throughout every phase of your project so you and your team can rest assured you've covered all your bases and dialed in both the right parameters and equipment to ensure your complete success.
- We don't rely on 3rd party calculations and formulas. We verify everything to ensure grow rooms have the right equipment capacities and proper airflow design.
- Our team includes leading HVAC engineers and grow room authorities. We know how it's done, because we've done it. In fact, we sit on the committees that are just now establishing industry standards for ASABE and ASHRAE.

INTELLIGENT GROW ROOM HVAC

Agronomic IQ delivers outstanding performance reliability and value for every size of grow facility.

There is no better technology available to ensure precise, consistent and reliable conditions for growing cannabis. Add to that the lowest possible operating costs and a lifetime of trouble-free performance — you'll understand why the Agronomic IQ Series is the smartest solution for serious growers.

Download our **full product brochure** and our free white paper **Solving the 3 biggest Challenges of Modern Day Grow Rooms** from our website today!

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