DATA SHEET

V2.0

# IOPTIMIZER VFD CONTROLLER

SKU: 973-30-0002-03

Link4's iOptimizer VFD Controller is built for high performance and optimal energy savings. Various functions are provided to minimize energy consumption, improve efficiency, and save you money during operation.

Utilizing the iOptimizer can improve the efficiency and air flow of your fans. This allows you to run all your fans at one time at varying speeds which maximizes air flow patterns, extends the life of your equipment, and saves you money.

Adjust the iOptimizer VFD Controller with pumps to manage water flow in fertigation or hydroponic systems, or regulate the water with your pad system to extend pad life.

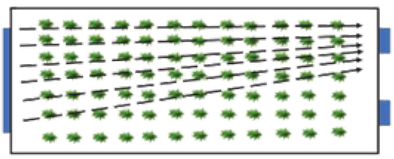
To ensure an efficient, effective, and smooth-running positive pressure greenhouse or grow, combine the iOptimizer with one of Link4's controllers.

The iOptimizer's compact design, NEMA 4 enclosure, and pre-configured integration with UL/cUL certification, was designed to meet both OEM's and System Integrators' needs.

## *Benefits*

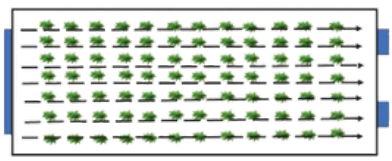
### Improved uniform air flow

Optimizing crop growth and energy consumption.



Air flow **without** smart motor control

Cooling stage 1, single fan running, 1,000 cfm

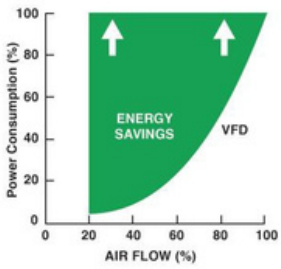


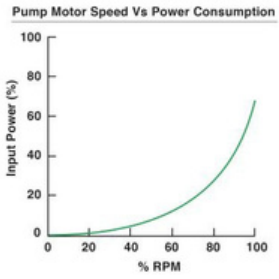
Air flow **with** smart motor control

Cooling stage 1, both fans running, 1,000 cfm

### Saves energy and extends equipment life

Reducing energy and maintenance costs while extending the life of equipment.

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## *Features/Specialized Capabilities*

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|---|---|
| **ANALOG INPUTS** | 1 input (0-10 VDC / 0-20 mA) |
| **ANALOG OUTPUTS** | 1 pulse train (0-10 VDC / Max 3.6 kHz) |
| **ENCLOSURE** | Indoor duty - IP20 |
| **OPERATOR KEYPAD** | Yes - easy user modifications. |
| **BUILT-IN DISCONNECT** | Yes - for equipment & user safety. |
| **BUILT IN TERMINAL BLOCKS** | High & low voltage - easy install. |
| **MODBUS CAPABLE** | Yes |
| **CERTIFICATIONS** | Ul/cUL |
| **SOFT START RAMPING** | Easier on equipment and power grid. Less starting / stopping of equipment. Less plant shock from temperature fluctuations. |
| **SINGLE PHASE CONVERSION** | Converts single phase power to 3 phase. |
| **POSITIVE PRESSURE CONTROL** | Yes |
| **FAN REGULATION CONTROL** | Yes |
| **PUMP FLOW CONTROL** | Yes |
| **VENT/CURTAIN MOTOR CONTROL** | Yes |