

Logix® Vanguard Variable Speed Control Panel

The Logix Vanguard variable speed control panel for industrial refrigeration applications integrates seamlessly with Logix® Axiom™ control systems.



The Vanguard panel includes

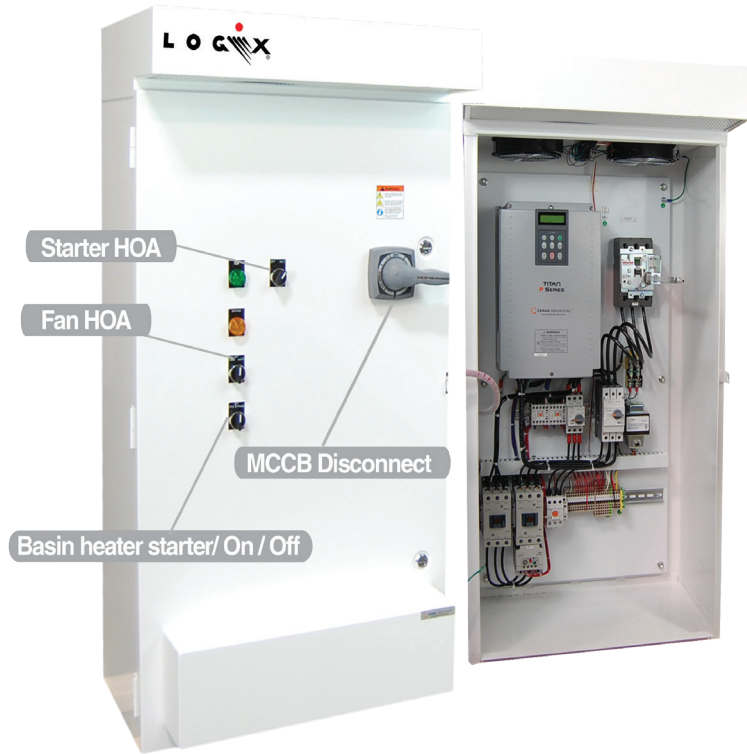
- 7.5 to 400 HP, 480VAC, 3 ϕ
- Standard or custom configurations
- Quick delivery
- 5-Year warranty
- FastApp™ startup makes commissioning quick

Options

- Input line reactors
- Output reactors and filters
- Panel space heater for low temperature or outdoor applications
- Spray pump starters
- Basin heater controls
- Vibration cut-out

Standard Features

- HOA switches
- 3-Contactor bypass for VFD servicing
- UL Type 1 and 3R enclosures
- Custom configured ventilation or A/C
- Backlit 32-character keypad for easy navigation
- Space vector control for efficiency, long motor life
- Advanced PID control (pre-PID and dual PID)
- Multi-motor control function
- Automatic energy savings mode
- Flying start protection
- Standard MMS disconnect, HOA & VFD/OFF/BYPASS switch
- Built-in modbus RTU communication



Vanguard

EVAPORATIVE CONDENSER CONTROL

Stand Alone Automation Control

Building Automation Control Option

Scalable to Meet any Application

ADDITIONAL OPTIONS

Basin Heater Control

- Prevents freezing
- Contactor activated by external signal (i.e., thermostat)
- Provision for low water protection

Vibration Cut-out

- Provision for switch cut-out

Water Level Control Power

- Provides 120VAC @ 2A

Panel Space Heater

- To prevent condensation and freezing

Line Reactors

- For use in systems with unstable utility power, long leads from service transformer to VFD and/or when power source is greater than 10 times the kVA rating of the inverter

- Provides harmonic distortion filtering

Output Reactor/Filters

- Use when leads drive to motor exceed 35' at 480VAC or greater.

- Above 100' use output filter

- Decreases level of voltage spikes to prevent motor insulation breakdown

Spray Pump Starter

- Full voltage starter with overload relay
- HOA switch provided
- Status indication options

Vanguard 3-Phase, 380~480V — P-Series VFD Bypass

| Standard duty (VT) | | 3-Contactor Bypass with Drive Isolation | Line Reactor | |
|--------------------|-----------|---|--------------|--------------|
| HP | kW Rating | | UL Type 3R | Installed 3% |
| 1 | 2 | CIE3R-BYP001-P4/3 | VFD-KDRA8L | VFD-KDRA8H |
| 2 | 3.2 | CIE3R-BYP002-P4/3 | VFD-KDRA1L | VFD-KDRA1H |
| 3 | 4.8 | CIE3R-BYP003-P4/3 | VFD-KDRA2L | VFD-KDRA2H |
| 5 | 6.4 | CIE3R-BYP005-P4/3 | VFD-KDRA3L | VFD-KDRA3H |
| 7.5 | 5.5 | CIE3R-BYP007-P4/3 | VFD-KDRA4L | VFD-KDRA4H |
| 10 | 7.5 | CIE3R-BYP010-P4/3 | VFD-KDRA5L | VFD-KDRA5H |
| 15 | 11 | CIE3R-BYP015-P4/3 | VFD-KDRB2L | VFD-KDRB2H |
| 20 | 15 | CIE3R-BYP020-P4/3 | VFD-KDRB1L | VFD-KDRB3H |
| 25 | 18.5 | CIE3R-BYP025-P4/3 | VFD-KDRD1L | VFD-KDRD1H |
| 30 | 22 | CIE3R-BYP030-P4/3 | VFD-KDRD2L | VFD-KDRD2H |
| 40 | 30 | CIE3R-BYP040-P4/3 | VFD-KDRD1L | VFD-KDRD4H |
| 50 | 37 | CIE3R-BYP050-P4/3 | VFD-KDRF2L | VFD-KDRF1H |
| 60 | 45 | CIE3R-BYP060-P4/3 | VFD-KDRF4L | VFD-KDRF2H |
| 75 | 55 | CIE3R-BYP075-P4/3 | VFD-KDRF3L | VFD-KDRH2H |
| 100 | 75 | CIE3R-BYP100-P4/3 | VFD-KDRH3L | VFD-KDRH1H |
| 125 | 90 | CIE3R-BYP125-P4/3 | VFD-KDRH2L | VFD-KDRG3H |