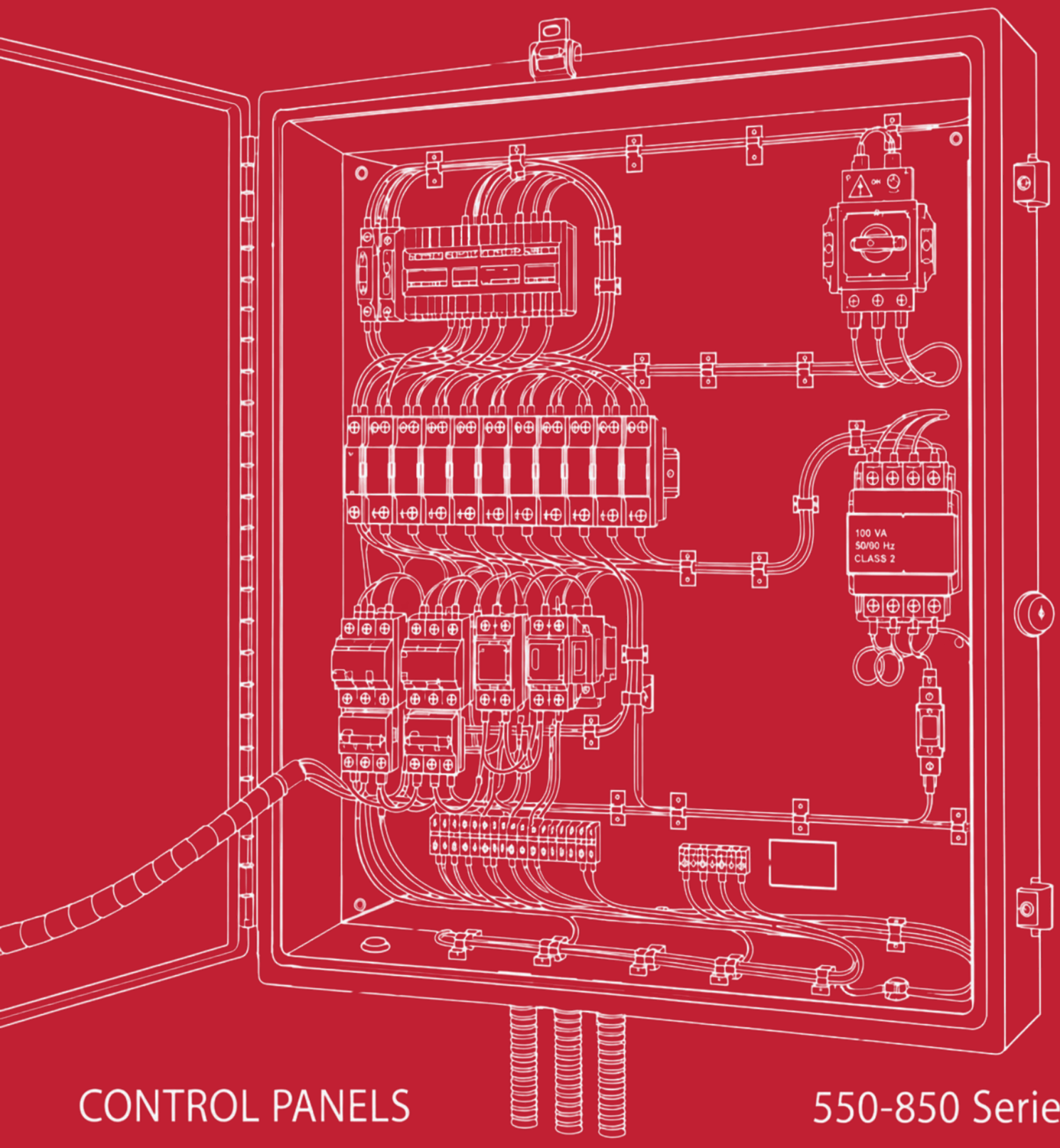
Vent-Rite®

A Swan Group Company



CONTROL PANELS

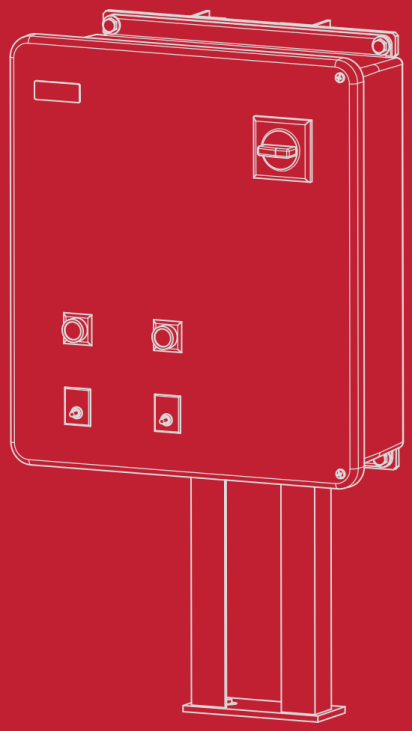
550-850 Series

Vent-Rite Control Panels

Vent-Rite offers multiple control panel lines designed to support diverse system requirements. Panels can be mounted directly to the unit or remote-mounted in a nearby location selected for accessibility and service.

Available configurations accommodate motor ratings from 1/3 to 60 HP and supply voltages from 100 to 600 V.

Standard short-circuit current ratings (SCCR) are 5 kA. Ratings up to 65 kA are available with fused disconnects on 700 and 800 Series panels.



Standard Features

- UL certification
- NEMA-rated enclosure, Types 1, 2, 3, 4, 4X, or 12
- Motor-control selector switches, including HOA and TOA
- Motor protection
- Motor starters or VFDs
- Terminal strip and grounding lugs

Explosion-Proof Configurations

Explosion-proof panels are available upon request. System wiring for explosion-proof panels is provided by others.

Control Panel Series

550 SERIES

700 SERIES

750 SERIES

800 SERIES

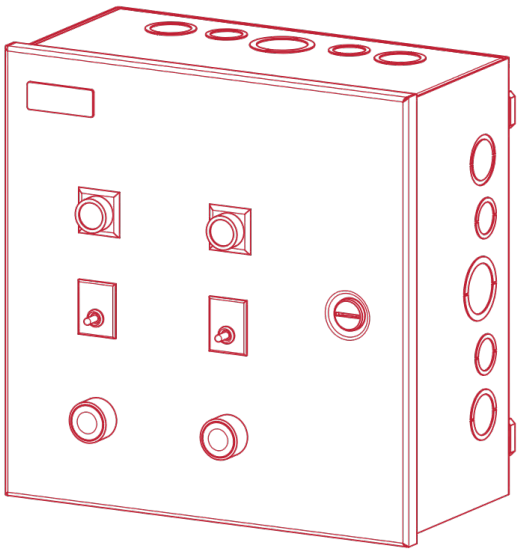
850 SERIES

Control solutions for condensate return, boiler feed, and vacuum systems

550 Series Control Panel

The 550 Series is Vent-Rite's most cost-effective motor-control panel line. It safely starts and stops motors using straightforward controls and safety features, including thermal overload relays.

Branch-circuit protection is not included. All controls operate at primary voltage on single- and three-phase systems up to 250 V.



Standard 550 Series Features

- Selector switches
- Magnetic starters
- Overload relays with external resets
- Pilot lights
- Control-circuit disconnects

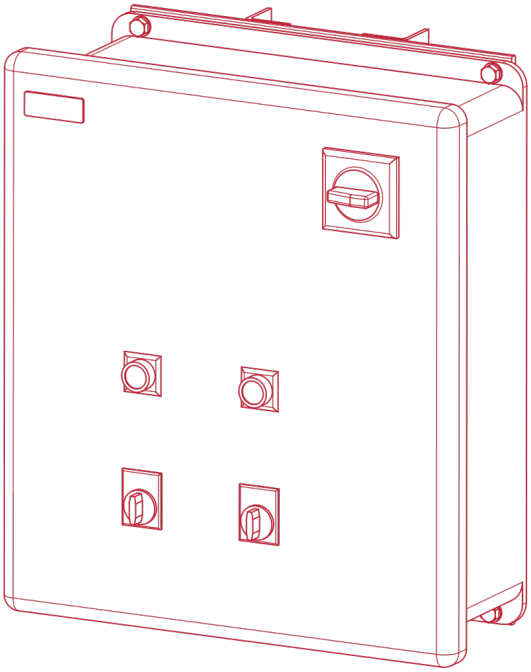
550 Series Limitations

- NEMA Type 1 enclosures only
- Maximum motor rating: 3 HP
- Maximum system size: two pumps
- Maximum supply voltage: 250 V

Best fit

Simple, primary-voltage motor control for compact one- or two-pump systems.

700 Series Control Panel



The 700 Series is Vent-Rite's most configurable and adaptable control panel. It is designed for systems that require motor protection and advanced controls, with incoming supply voltages up to 600 V, single or three phase, and motor ratings up to 60 HP.

The standard SCCR is 5 kA and can be increased with fused disconnects. A control transformer provides 110 V secondary control power. Available options include audible and visual alarms, remote building communication, and more.

Standard 700 Series Features

- NEMA-rated fiberglass enclosure, Types 1, 2, 3, 4, 4X, or 12
- Single-point disconnect with cover interlock
- Selector switches
- Motor starters
- Motor protection
- Control-circuit protection
- Control transformer

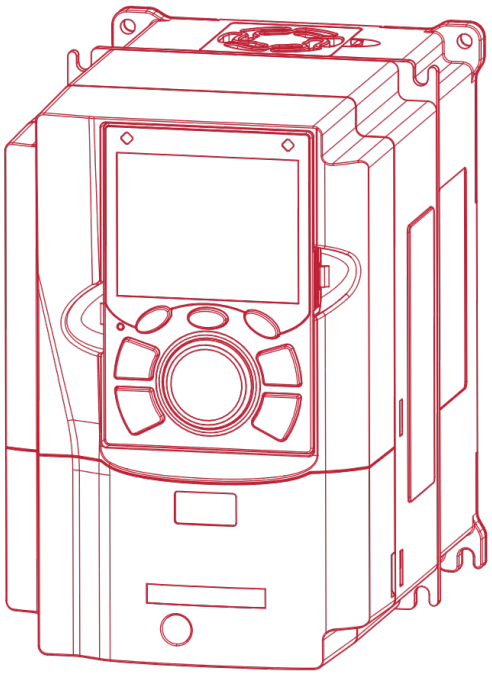
Optional 700 Series Features

- Steel or stainless steel enclosure
- Dual disconnects with cover interlocks
- Fused disconnect
- Soft starters
- Alarm buzzer with silencing switch
- Pilot lights for visual status and alarms
- Electric alternator
- BMS dry contacts
- BACnet MS/TP card
- Smart relays with Modbus TCP
- Run-time meters
  Finger-safe panel

UP TO 600 V	UP TO 60 HP	UP TO 65 kA
Supply voltage	Motor rating	With fused disconnects

750 Series Control Panel

The 750 Series is Vent-Rite's introductory variable frequency drive (VFD) control panel. Systems are controlled by differential pressure or by maintaining a predetermined tank level. All VFD systems use inverter-ready motors and are available in one- to four-pump configurations.



VFDs adjust motor frequency and speed to match system demand, ramping output up or down as operating conditions change. Compared with start-stop control, this approach can reduce energy use and extend component life.

Standard 750 Series Features

- NEMA-rated fiberglass enclosure, Types 3, 4, 4X, or 12
- Single-point disconnect with cover interlock
- Distribution block
- VFDs with BACnet MS/TP or IP communication
- Unmanaged Ethernet switch
- Motor-protection circuit breakers
- 24 VDC power supply with control-circuit protection
- Selector switches
- Pilot lights for visual status
- Pressure or level sensor

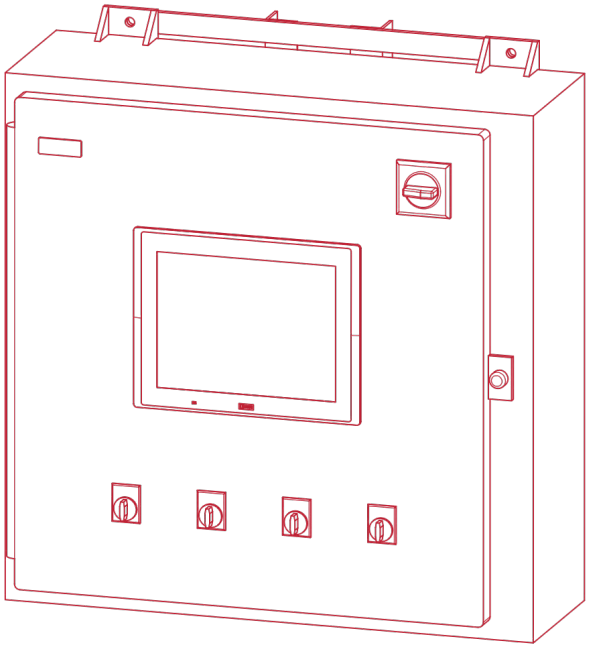
Optional Features

- Steel or stainless steel enclosure
- Fused disconnect
- External VFD LCD interface and controller
- Alarm buzzer with silencing switch

1-4 PUMPS	VFD CONTROL	PRESSURE OR LEVEL
Available configurations	Demand-responsive speed	Sensor-based control

800 Series Control Panel

The 800 Series is Vent-Rite's most capable control panel, with all-digital controls and a touchscreen operator interface for straightforward system configuration and adjustment.



Digital temperature, level, vacuum, and pressure sensors provide real-time process data for system status and alarms. Native BACnet/IP, EtherNet/IP, and Modbus TCP protocols, along with dry contacts, support building automation system communication.

Standard 800 Series Features

- NEMA Type 3, 4, 4X, or 12 enclosure
- Single-point disconnect with cover interlock
- 8.4-inch operator interface (HMI)
- 24 VDC power supply with circuit protection
- Motor-protection circuit breakers
- Motor starters
- Control fuse blocks and fuses
- PLC with expansion modules and programming
- Wiring and Panduit raceways
- Sensor package
- BACnet/IP and dry contacts
- System alarm logs

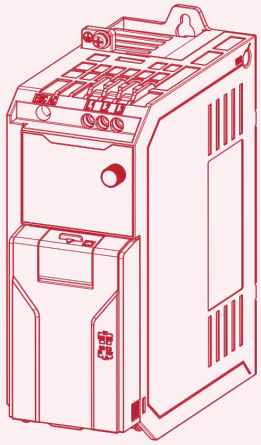
Optional Features

- Additional HMI sizes
- EtherNet/IP or Modbus TCP
- Custom system configurations and programs
- Soft starters

850 Series Control Panel

The 850 Series includes all standard features of the 800 Series, with the addition of variable frequency drives for precise motor-speed control.

VFDs are configured and monitored through the PLC and HMI, with system control based on pressure, vacuum, or level sensors. Panels are available in one- to six-pump configurations.



850 SERIES VFD

Vent-Rite has been building the highest-quality condensate return pumps, boiler feed systems, vacuum systems, and accessories since 1921. From custom designs to compact solutions—our skilled representatives are armed with the knowledge and expertise to assist you in the selection, design, installation and service of your pump system. They are backed by a highly skilled team of application specialists who will provide solutions to custom engineering questions or special building capabilities and are committed to developing the most energy efficient pump to fulfill your needs. Every pump that leaves our factory has been carefully crafted and tested against the strictest standards, ensuring you receive the highest-quality product possible.

Vent-Rite®

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MANUFACTURING AN D DESIGN OF QUALITY HVAC SYSTEMS SINCE 1921