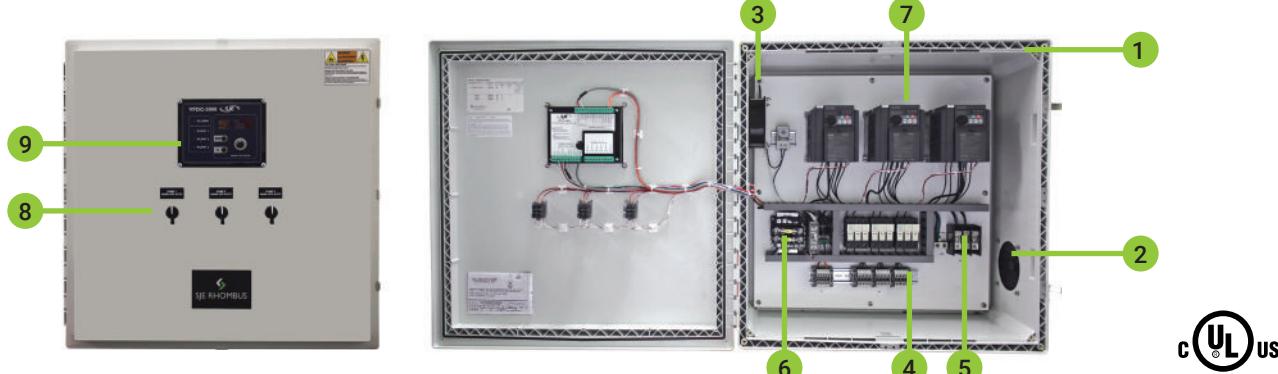


ENDURA™ PRESSURE BOOSTER CONTROL PANEL

Duplex and Triplex Variable Frequency Drive control panels for indoor use.

The **Endura™ Duplex or Triplex** booster control panels feature the VFDC-3000 controller for commercial pressure booster pump, well pump, or irrigation applications using (2) or (3) Variable Frequency Drives (VFDs). As flow and head conditions change, the controller calls for the required number of pumps to activate and automatically adjusts the speed of each VFD to maintain a constant discharge pressure to match the set point value.



PANEL COMPONENTS

1. Polycarbonate or painted steel (see table), wall mounted single door enclosure; NEMA 1 indoor rated
2. Intake filter for VFD cooling
3. Exhaust fan and thermostat for VFD cooling
4. Terminal blocks for easy field wiring
5. Circuit Breaker or fuses for branch circuit protection
6. Multitap transformer 480/240/208:120 VAC
7. Variable frequency drives
8. Hand/Off/Auto selector switches
9. VFDC-3000 Controller
 - a. High visibility blue OLED display 6.86 cm (2.7 inches) diagonal 64x256 pixel
 - b. Rotary/Push button for easy menu navigation and editing
 - c. Escape push buttons exits to main menu without saving changes
 - d. Back arrow steps back one menu level and changing value adjustment scale
 - e. Pump Run indicator green LEDs (3)
 - f. Alarm indicator red LED



FEATURES

- Simple display with pressure and pump status
- Fast and intuitive menu navigation and setup
- Elapsed Time and Cycle Counter for each pump
- Low pressure Alarm (pipe burst or run dry protection)
- High pressure alarm and protection
- System Fault Log
- Standard package includes (1) 0-200 PSI pressure transmitter 1/4" NPT Male, NEMA 4X rated with 6m (20 ft of cable)
- Two-year limited warranty on control panel
- One-year limited warranty on the pressure transmitter

SPECIFICATIONS

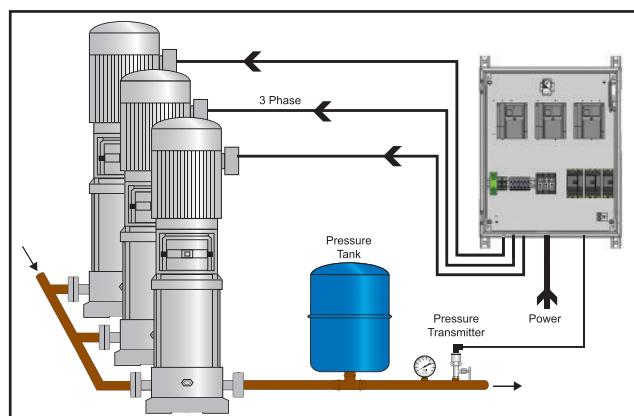
Power: Available HP Range
208V~240V or 380~480V Three Phase, 3.0HP - 20.0HP

Control:

- P.I.D. control
- Adjustable electronic overload
- Auto Start on pressure drop (adjustable)
- Auto Stop on low Hz (No-Flow - sleep mode)
- Lead/Lag/Lag-Lag operation
- Auto alternation on Run Time

Environmental:

- Operating temperature: 0°C to 45°C (32°F to 113°F)
- Storage temperature: -20°C to 60°C (-4°F to 140°F)
- Altitude: maximum of 1000m (3280 ft) above sea level




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ENDURA™ PRESSURE BOOSTER CONTROL PANEL

SELECTING THE CORRECT VFD CONTROL PANEL

Verify your system requirements before ordering. Endura™ Control Panels cannot be returned.

1. Determine the voltage available on site.
2. Select pumps with the same voltage (motor must be 3 phase).
3. Check pump motor nameplate Full Load Amps (FLA) for proper VFD sizing.
4. Select a VFD with an output amp rating higher than motor FLA.
5. Use motor Service Factor Amps (SFA) for submersible well pump applications for VFD sizing.

EN	3		VOLTAGE	MOTOR AMPS	OPTIONS (LISTED BELOW)
CONTROL PANEL	PHASE	MODEL TYPE			

CONTROL PANEL	✓	EN	Endura™		
PHASE	✓	3	Three Phase Incoming Power		
MODEL TYPE		2	Duplex		
		3	Triplex		
VOLTAGE		240	Incoming Voltage 208~240V		
		480	Incoming Voltage 380~480V		
		240V			480V
MOTOR AMPS		16.5	Motor HP Range 3-5	8.0	Motor HP Range 3-5
		31.8	Motor HP Range 7.5-10	16.0	Motor HP Range 7.5-10
		58.0	Motor HP Range 15-20	29.5	Motor HP Range 15-20
OPTIONS		MD	Main Disconnect with Door Operator (not available on Motor HP Range 15-20)		
		PM	Phase Monitor with Digital Display (not available on Motor HP Range 15-20)		

Contact Technical Support at techsupport@sjeinc.com for pricing.

SPECIFICATIONS

POWER: Available HP Range 208V~240V or 380~480V
Three Phase, 3.0HP - 20.0HP

CONTROL: P.I.D. control
Adjustable electronic overload
Auto Start on pressure drop (adjustable)
Auto Stop on low Hz (No-Flow - sleep mode)
Lead/Lag/Lag-Lag operation
Auto alternation on Run Time

ENVIRONMENTAL:

Operating temperature: 0°C to 45°C (32°F to 113°F)

Storage temperature: -20°C to 60°C (-4°F to 140°F)

Altitude: maximum of 1,000m (3,280 ft) above sea level

Description	Model	Motor Amps	Motor HP	Branch Circuit Protection	Enclosure Size (inches)	Ship Weight
Endura™ Duplex 208/240V, 3-5 HP	EN32-240-16.5	16.5	3-5	Circuit Breakers	24x24x10 Polycarbonate	23.0 kg
Endura™ Duplex 208/240V, 7.5-10 HP	EN32-240-31.8	31.8	7.5-10	Circuit Breakers	24x24x10 Polycarbonate	28.0 kg
Endura™ Duplex 208/240V, 15-20 HP	EN32-240-58.0	58.0	15-20	Circuit Breakers	36x30x12 Painted Steel	52.0 kg
Endura™ Duplex 480V, 3-5 HP	EN32-480-8.0	8.0	3-5	Fuses	24x24x10 Polycarbonate	23.0 kg
Endura™ Duplex 480V, 7.5-10 HP	EN32-480-16.0	16.0	7.5-10	Fuses	24x24x10 Polycarbonate	28.0 kg
Endura™ Duplex 480V, 15-20 HP	EN32-480-29.5	29.5	15-20	Circuit Breakers	36x30x12 Painted Steel	52.0 kg
Endura™ Triplex 208/240V, 3-5 HP	EN33-240-16.5	16.5	3.5-5	Circuit Breakers	24x24x10 Polycarbonate	25.0 kg
Endura™ Triplex 208/240V, 7.5-10 HP	EN33-240-31.8	31.8	7.5-10	Circuit Breakers	36x30x12 Painted Steel	52.0 kg
Endura™ Triplex 208/240V, 15-20 HP	EN33-240-58.0	58.0	15-20	Circuit Breakers	36x36x12 Painted Steel	59.0 kg
Endura™ Triplex 480V, 3-5 HP	EN33-480-8.0	8.0	3-5	Fuses	24x24x10 Polycarbonate	25.0 kg
Endura™ Triplex, 480V, 7.5-10 HP	EN33-480-16.0	16.0	7.5-10	Fuses	36x30x12 Painted Steel	52.0 kg
Endura™ Triplex 480V, 15-20 HP	EN33-480-29.5	29.5	15-20	Circuit Breakers	36x36x12 Painted Steel	59.0 kg

NOTE: HP rating is based on standard NEMA B 4-pole motor (used for indication only, use nameplate FLA for sizing). The output voltage of the VFD cannot exceed the incoming voltage. Example: 208V in, 208V out (max).

MAXIMUM MOTOR CABLE LENGTHS

For 208V-240V pumps: 122m (400 ft). For cable lengths greater than 122m (400 ft), use a load reactor for each pump. Do not exceed 244m (800 ft)

For 380V-480V pumps: 15m (50 ft). For cable lengths greater than 15m (50 ft), use a load reactor for each pump. Do not exceed 91m (300 ft).