

The Parabola® VFD control panels are advanced pre-engineered simplex, duplex, and triplex control panels with a user-friendly HMI control interface. The control panels are designed for constant pressure applications, including: irrigation systems, chemical feed systems, cooling towers, commercial pressure boosting, building water supply systems, and other constant pressure applications.



System Hardware

- Single or three phase voltage supply, controls 208/240/480VAC pump(s)
- Pump protection: Motor protective switch included for each pump (branch circuit protection, adjustable overload and disconnect)
- Alarm horn sounds at 85 decibels at 10 feet
- Alarm visible features: Red beacon alarm light
- Remote monitoring dry contacts: High/low pressure alarms, summary alarm/fault (normally open)
- NEMA 3R rated enclosure: Painted steel with lockable front door and through door main disconnect
- Stainless steel pressure transducer 0-300 PSI, 1/4" NP, 4-20mA output included
- Variable frequency drive operation with configurable parameter settings accessible via HMI
- Panel and controls are UL listed for the United States and Canada
- Modbus RTU/TCP communication options

Applications

- Irrigation systems
- Chemical feed systems
- Cooling towers
- Commercial pressure boosting systems
- Building water supply systems
- Other constant pressure applications

Program/PLC/HMI

- Constant pressure operation with optional adjustable PID settings and high/low pressure alarms
- Selectable alternation pattern: Cycle or timed
- Multiple access levels for added security
- Duplex panel provides pump rotation and high demand two-pump operation
- Pump run data logging: Records each pump event - start time, stop time, and run duration
- Automatic system restart
- HMI touchscreen display features: Hand-Off-Auto (H.O.A.) switch for each pump, green Pump Run indicators, red Pump Fault indicators, pump and pressure status screens
- Alarm/Fault history: Data logging gives access to 250 fault conditions with date and time (optional access to auto-save alarm history to USB drive)
- Backup pressure override operation: User-configurable feature that automatically switches to pressure switch operation in the event of a transducer error
- No flow protection: User-configurable feature that inhibits pumping during no flow conditions



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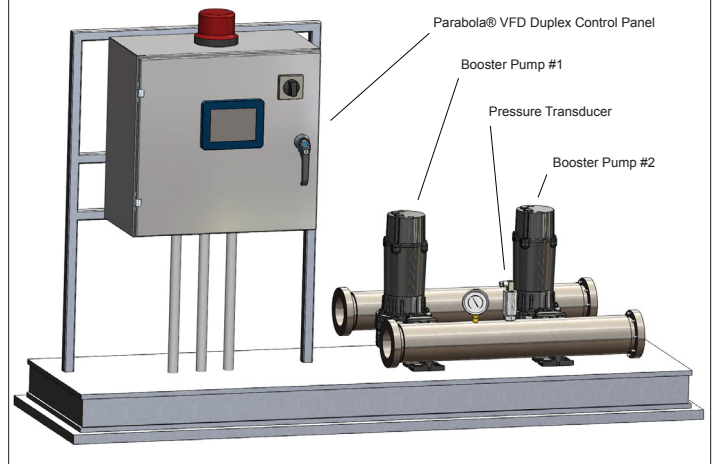
Catalog Model Number Build

Type	Models	
CPB - P	-	-
S = Simplex	M2C = Single Phase Input, 208/240V -> Three Phase Output, 208/240V	07 = 1 HP
D = Duplex	M3C = Three Phase Input, 208/240V -> Three Phase Output, 208/240V	11 = 1.5 HP
T = Triplex	N4C = Three Phase Input, 480V -> Three Phase Output, 480V	15 = 2 HP
		22 = 3 HP
		30 = 4 HP
		40 = 5 HP
		55 = 7.5 HP
		75 = 10 HP
		85 = 15 HP
		95 = 20 HP
		105 = 25 HP

Custom Options

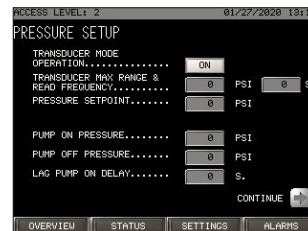
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28	= Power On Dry Contact (Normally Open)
AH	= Anti-Condensation Heater
CO	= Convenience Outlet (User to Supply 120VAC)
DFD	= Deadfront Inner Door with HMI Mount
GR	= Generator Receptacle, Includes Transfer Switch
IS	= Intrinsically Safe - Simplex
ISD	= Intrinsically Safe - Duplex
IST	= Intrinsically Safe - Triplex
LAD/LAW	= Lightning Secondary Surge Arrestor (LAD Delta / LAW Wye)
PM	= Phase Monitoring
PX	= Pump Portal® Wireless Remote Panel Control and System Monitoring
SF	= Seal Failure Circuit and Indicator - Simplex
SFD	= Seal Failure Circuit and Indicator - Duplex
SFT	= Seal Failure Circuit and Indicator - Triplex
SS4	= Upgraded Enclosure (304 Stainless Steel)
SS6	= Upgraded Enclosure (316 Stainless Steel)

Typical Installation of Parabola® VFD Duplex Control Panel



Overview

The HMI's main menu displays live pump data and H.O.A. switch(es). This menu is the user's command center.



Pressure Setup

For constant and pressure boosting-based applications. Users can easily adjust the PSI set points to optimize efficiency. Optional PID access available.



Pump Status

Status of all processes. Users can view Pump Fault, Run Time, and other necessary information associated with the pump operation.