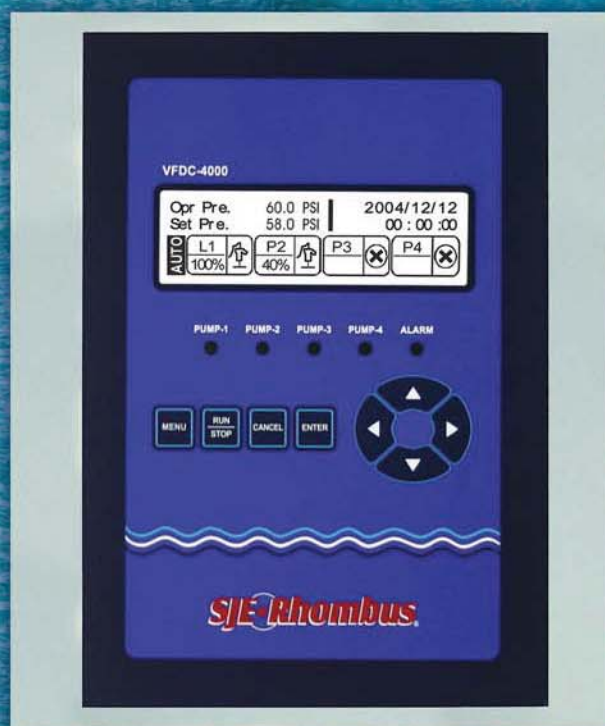


BOOSTER PUMP

Control Solutions Using Variable Frequency Drives



Free Standing Enclosure



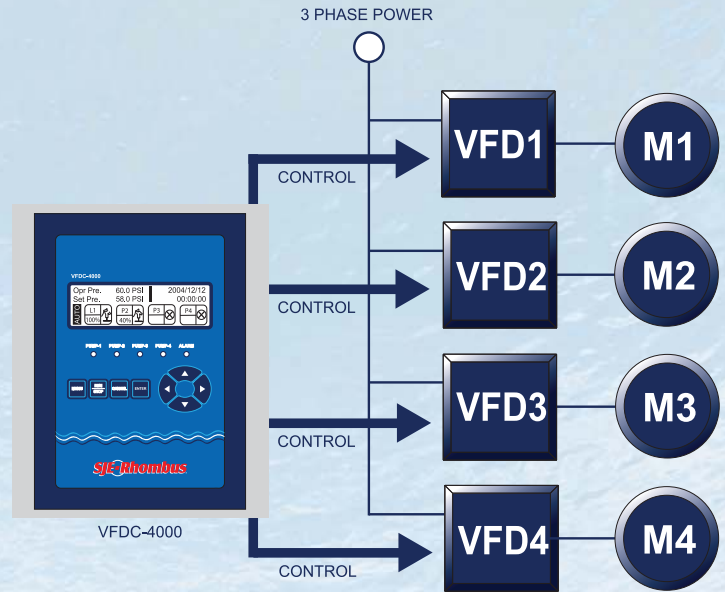
VFDC-4000 Controller

SJE Rhombus

www.sjerrhombus.com



Free Standing Enclosure [optional]



4 Pump Control Configuration

VFDC-4000 Controller Features



VFDC-4000 Controller

- 1 to 4 VFD control
- P.I.D. control
- Graphic screen display with back-light
- System status display
 - Operating pressure
 - Set pressure
 - Auto/Off
 - Time and date
 - Alarm with time and date
- Pump status display
 - Pumps in use
 - Lead pump
 - Pump run/stop
 - Pump speed
 - VFD fault
- Four arrow buttons for easy navigation and setup
- Automatic alternation (cycle-based or time-based)
- Alarm log
- Real time clock
- Scheduled pressure setup function
- Night time operation (runs smaller pump)
- Pressure transmitter setup
- Password protection
- Serial communication
- Idle prevention
- Freeze prevention
- Low pressure alarm
- High pressure alarm
- Low suction pressure/low level



VFDC-4000 Panel Standard Features

- NEMA Type 1 wall mount enclosure (indoor)
- Cooling fan + filter and thermostat for VFD ventilation
- Panel mounted Variable Frequency Drives
- VFDC-4000 pressure booster controller mounted on door
- VFD circuit breakers
- 24 VDC power supply
- 0-200 PSI pressure transducer
- System MAN/OFF/AUTO switch
- MANUAL ON/OFF switches
- Main terminal blocks
- Pump terminal blocks
- Pressure transducer terminal blocks
- Alarm auxiliary contact
- Low water alarm terminal (low suction/level)
- Automatic start on low pressure
- Automatic stop on low pump speed



NEMA 1 Wall Mounted Enclosure [standard]



**Wall Mounted Enclosure with
Optional Line and Load Reactors**

OPTIONS

- Main disconnect
- Line reactors
- Load reactors
- Larger HP VFDs
- Free standing enclosures
- NEMA 12, NEMA 3R, NEMA 4,
and NEMA 4X enclosures

Duplex, Triplex, and Quad Plex
Models on Reverse Side...

VFDC-4000 Panel Models

APPROX. HP	PUMP MAX AMPS*	DUPLEX	TRIPLEX	QUAD PLEX
208/240V, Single Phase Input / Three Phase Output				
3	11.0	D230-1-11.0	T230-1-11.0	Q230-1-11.0
5	17.5	D230-1-17.5	T230-1-17.5	Q230-1-17.5
7.5	27.0	D230-1-27.0	T230-1-27.0	Q230-1-27.0
10	33.0	D230-1-33.0	T230-1-33.0	Q230-1-33.0
15	46.3	D230-1-46.3	T230-1-46.3	Q230-1-46.3
208/240V, Three Phase Input / Three Phase Output				
3	11.0	D230-3-11.0	T230-3-11.0	Q230-3-11.0
5	17.5	D230-3-17.5	T230-3-17.5	Q230-3-17.5
7.5	27.5	D230-3-27.5	T230-3-27.5	Q230-3-27.5
10	33.0	D230-3-33.0	T230-3-33.0	Q230-3-33.0
15	54.0	D230-3-54.0	T230-3-54.0	Q230-3-54.0
20	66.0	D230-3-66.0	T230-3-66.0	Q230-3-66.0
25	74.8	D230-3-74.8	T230-3-74.8	Q230-3-74.8
30	88.0	D230-3-88.0	T230-3-88.0	Q230-3-88.0
380-480V, Three Phase Input / Three Phase Output				
3	5.5	D480-3-5.5	T480-3-5.5	Q480-3-5.5
5	9.5	D480-3-9.5	T480-3-9.5	Q480-3-9.5
7.5	14.3	D480-3-14.3	T480-3-14.3	Q480-3-14.3
10	17.0	D480-3-17.0	T480-3-17.0	Q480-3-17.0
15	27.7	D480-3-27.7	T480-3-27.7	Q480-3-27.7
20	33.0	D480-3-33.0	T480-3-33.0	Q480-3-33.0
25	37.0	D480-3-37.0	T480-3-37.0	Q480-3-37.0
30	43.5	D480-3-43.5	T480-3-43.5	Q480-3-43.5
40	58.5	D480-3-58.5	T480-3-58.5	Q480-3-58.8
575V, Three Phase Input / Three Phase Output				
3	3.9	D575-3-3.9	T575-3-3.9	Q575-3-3.9
5	6.1	D575-3-6.1	T575-3-6.1	Q575-3-6.1
7.5	9.0	D575-3-9.0	T575-3-9.0	Q575-3-9.0
10	11.0	D575-3-11.0	T575-3-11.0	Q575-3-11.0
15	17.0	D575-3-17.0	T575-3-17.0	Q575-3-17.0
20	22.0	D575-3-22.0	T575-3-22.0	Q575-3-22.0
25	27.0	D575-3-27.0	T575-3-27.0	Q575-3-27.0
30	32.0	D575-3-32.0	T575-3-32.0	Q575-3-32.0
40	41.0	D575-3-41.0	T575-3-41.0	Q575-3-41.0



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