

TIGERFLOW TEXAN DCP VARIABLE SPEED BOOSTER SYSTEMS







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WHY **TIGERFLOW?**

Manufacturing Plant

- NIST Traceable testing facility
- design

Certifications

- ISO 9001: 2015 certified facility

- NFPA 20 certified engineers and designers
- UL/ C-UL listed packaged pumping system label "QCZJ"
- UL FDNP7.MH61218 Drinking Water System Components Certified for Candad NSF-61
- UL QNVB.MH61218 Lead Content Verification of Products in Contact with Potable Water NSF-372
- Water Certified for Canada NSF-372
- Pipe welders certified to ASME Section IX
- CMR 248 Massachusetts Plumbing Code Approval #P3-0204-58
- State of Ohio Industrialized Buildings Authorization #308.02
- State of Washington, Dept. of Labor & Industries Approval

COMPANY PROFILE

- 88,000 square feet manufacturing facility
- · Seven manufacturing work centers, including welding, assembly, control panel shop,
- electrial installation, painting, and testing
- AWS and ASME Certified structural and pipe welders
- UL 508A Certified control panel shop
- In-house degreed and professional engineers for mechanical, electrical and software

- Certificate of product liability insurance
- ETL/C-ETL Listed packaged fire pump systems
- UL FDNP.MH61218 Drinking Water System Components NSF-61
- UL QNVB7.MH61218 Lead Content Verification of Products in Contact with Potable
- IAMPO 6940 California low lead AB1953/116875
- UL/C-UL 508/918 industrial control panel facility
- Structural welders certified per AWS D1.1



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Product **Overview**

tions.

setpoint.

level.

These features provide stable and reliable control of water pressure with the best possible efficiency.

APPLICATIONS

- Irrigation
- Food and beverage plants
- Data centers

CERTIFICATIONS

VARIABLE BOOSTER SYSTEM **TEXAN DCP**

The TEXAN DCP (Drive Control Platform) booster system utilizes an elegant control system that removes the need for a 3rd party PLC or controller. Utilizing patent pending control algorithms, the system can operate steadily maintaining a constant pressure in variable flow applica-

By integrating power and frequency measures from the motor and variable speed drive, the controller calculates the best points along the curve to perform the key operating transitions of the system, including system start/stop, lag pump staging, minimum frequency adjustment, tank supercharge, and variable suction pressure adjustment for pressure

The distributed control allows for master redundancy that rotates among the available drives for maximum reliability, achieving Tier 1 redundancy

NSF

· Commercial and residential water booster systems

· Water supply for industrial and pharmaceutical usage





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• PERFORMANCE RANGE

Pump control:	2-8 pumps
Flow rate:	50-3000 gpm
• Head:	20-300 psi
Temperature:	0-100 degF
Power:	208 VAC 10; 200-240 VAC 30; 440-480 VAC 30; 600 VAC 30
	500

• Max. working pressure: 500 psi

• STANDARD FEATURES

Operating Conditions

- Liquid temperature: 0-200 °F
- Ambient temperature: 32-120 °F
- Altitude: up to 3300 ft*

• Thin, clean, non-flammable and non-explosive liquids without solids or fibers

*Contact the factory for derating values in higher temperatures or altitudes

Motor Features

- ODP or TEFC Motors
- NEMA Premium efficiency
- Standard ANSI Frames

Pump Features

- The TEXAN DCP is designed to use in conjunction with TIGERFLOW pump models, but offers flexibility of use with other styles and options including:
- TIGERFOW CD Series vertical multistage pumps
- TIGERFOW T1HS Series end-suction pumps
- Vertical inline pumps
- Horizontal split-case pumps
- Vertical turbine pumps

Construction Materials

• 304/316 stainless steel piping and structural base





- Power usage monitoring
- 5% input impedance on VFDs
- EMI/RFI filter as standard

AVAILABLE OPTIONS

- Bluetooth keypad display with remote diagnostics

- Phase monitor
- Water temperature monitoring
- Bladder tank
- Inertia base or isolation pads

VARIABLE BOOSTER SYSTEM **TEXAN DCP**

• PRODUCT FEATURES

- DCP technology pump control
- 100kAic SCCR ratings
- Tier 1 level control redundancy with rotating master
- Drinking water certifications NSF61/372
- Smart pump stage on/off
- · Customizable display for monitoring system conditions

• PRODUCT ADVANTAGES:

- No-flow/low-flow protection
- Pump rotation based on motor wear, run time or scheduled
- Field-adjustable BMS communication
- Water-to-wire efficiency calculations
- Enhanced VFD energy savings by utilizing VFD Flux Optimization
- · VFDs with variable speed cooling fans

- Extended warranty including parts and labor
- · Jockey pump or pressure maintenance pump configuration
- Transient Voltage Surge Suppressor
- · Contact your sales rep for more custom options