



Buying Guide

Electrical Controls for Wastewater **MADE EASY**

FEATURING...

- Easy selection of Panels
- Step by Step Criteria to follow for selection

Picking a panel.....

When choosing a panel you will need:

- **QUANTITY** of Pumps being used in a wastewater station
- **PHASE** of pump being used
- **VOLTAGE** of pump being used
- **AMP DRAW** of the pump model being used **OR HORSEPOWER** of pump being used
- **LOCATION** of panel installation

Example:

Duplex System, WS0532B Goulds Brand pump, ½ hp, 3.3 Amps, 3 phase 230 volt. Installed outside.

Panel Selections:

- **QUANTITY** (of Pumps being used in pit) **2 PUMPS**
- **PHASE** (of pump being used) **3 PHASE**
- **VOLTAGE** (of pump being used) **230 VOLT**
- **AMP DRAW** (of the pump model being used - DO NOT SUM AMP DRAW FOR DUPLEX CONFIGURATION) **3.3 AMPS - OR HORSEPOWER** (of pump being used) **½ HP**
- **LOCATION** (of panel installation) **OUTSIDE**

Panels Available:

Single Simplex	Single Duplex	Three Phase Simplex	Three Phase Duplex
		A32510	A622510
S10020N1	D10020N1	A30918	A642510
A3-2012	A6-2012	A31327	A620918
A3-3512	A6-3012N		A640918
CSD14063N1	A6-5012N	CSD31625N1	A621327
CSD16310N1	CDD14063N1	CSD32540N1	CDD31625N1
CSD11016N1	CDD16310N1	CSD34063N1	CDD32540N1
CSD12025N1	CDD11016N1	CSD36310N1	CDD34063N1
CSD12232N1	CDD12025N1	CSD31016N1	CDD36310N1
S12136	CDD12232N1	CSD31620N1	CDD31016N1
S10015	D10020	CSD32025N1	CDD31620N1
S10020	D10027	CSD32232N1	CDD32025N1
S10020	D10036		CDD32232N1
S1GD2	D1FGC2	S31625	D31625
S1GD2H	D1FGC3	S32540	D32540
S1FGC2	D1FGC5	S34063	D34063
S1FGC3		S36310	D36310
S1FGC5		S31016	D31016
		S31620	D31620
	CDD14063	S325025	D32025
	CDD16310	S32232	D32232
CSD14063	CDD11016	A32510	D3IFS1016
CSD16310	CDD12025	A30918	D3IFS1625
CSD11016	CDD12232	A31327	D3IFS2540
CSD12025	D1IFS07	S3IFS1016	D3IFS4063
CSD12232	D1IFS15	S3IFS1625	D3IFS6010
S1IFS07	D1IFS20	S3IFS2540	D3IFS9014
S1IFS15	D1XW15S	S3IFS4063	D3IFS1318
S1IFS20	D1XW20S	S3IFS6010	D3IFS1723
S1XW15S	D1XW30S	S3IFS9014	D3IFS2025
S1XW20S		S3IFS1318	CDD31625
S1XW30S		S3IFS1723	CDD32540
		S3IFS2025	CDD34063
		CSD31625	CDD36310
		CSD32540	CDD31016
		CSD34063	CDD31620
		CSD36310	CDD32025
		CSD31016	CDD32232
		CSD31620	W6-7532
		CSD32025	W6-1132
		CSD32232	W6-1532
		W3-7532	W6-2132
		W3-1132	W6-3132
		W3-1532	W6-7534
		W3-2132	W6-1134
		W3-3132	W6-1534
		W3-7534	W6-2134
		W3-1134	W6-2534
		W3-1534	W6-3134
		W3-2134	
		W3-2534	
		W3-3134	

QUANTITY (of pumps being used in pit) 2 PUMPS: (dark green panels do not apply)

Single Simplex	Single Duplex	Three Phase Simplex	Three Phase Duplex
S10020N1	D10020N1	A32510	A622510
A3-2012	A6-2012	A30918	A642510
A3-3512	A6-3012N	A31327	A620918
CSD14063N1	A6-5012N		A640918
CSD16310N1	CDD14063N1	CSD31625N1	A621327
CSD11016N1	CDD16310N1	CSD32540N1	CDD31625N1
CSD12025N1	CDD11016N1	CSD34063N1	CDD32540N1
CSD12232N1	CDD12025N1	CSD36310N1	CDD34063N1
S12136	CDD12232N1	CSD31016N1	CDD36310N1
S10015	D10020	CSD31620N1	CDD31016N1
S10020	D10027	CSD32025N1	CDD31620N1
S10020	D10036	CSD32232N1	CDD32025N1
S1GD2	D1FGC2		CDD32232N1
S1GD2H	D1FGC3	S31625	D31625
S1FGC2	D1FGC5	S32540	D32540
S1FGC3	D1V101	S34063	D34063
S1FGC5	D1V201	S36310	D36310
S1V101	D1V228	S31016	D31016
S1V201	CDD14063	S31620	D31620
S1V228	CDD16310	S325025	D32025
CSD14063	CDD11016	S32232	D32232
CSD16310	CDD12025	A32510	D3IFS1016
CSD11016	CDD12232	A30918	D3IFS1625
CSD12025	D1IFS07	A31327	D3IFS2540
CSD12232	D1IFS15	S3IFS1016	D3IFS4063
S1IFS07	D1IFS20	S3IFS1625	D3IFS6010
S1IFS15	D1XW15S	S3IFS2540	D3IFS9014
S1IFS20	D1XW20S	S3IFS4063	D3IFS1318
S1XW15S	D1XW30S	S3IFS6010	D3IFS1723
S1XW20S		S3IFS9014	D3IFS2025
S1XW30S		S3IFS1318	CDD31625
		S3IFS1723	CDD32540
		S3IFS2025	CDD34063
		CSD31625	CDD36310
		CSD32540	CDD31016
		CSD34063	CDD31620
		CSD36310	CDD32025
		CSD31016	CDD32232
		CSD31620	W6-7532
		CSD32025	W6-1132
		CSD32232	W6-1532
		W3-7532	W6-2132
		W3-1132	W6-3132
		W3-1532	W6-7534
		W3-2132	W6-1134
		W3-3132	W6-1534
		W3-7534	W6-2134
		W3-1134	W6-2534
		W3-1534	W6-3134
		W3-2134	
		W3-2534	
		W3-3134	

PHASE (of pump being used) 3 PHASE: (dark green panels do not apply)

Single Simplex	Single Duplex	Three Phase Simplex	Three Phase Duplex
S10020N1	D10020N1	A32510	A622510
A3-2012	A6-2012	A30918	A642510
A3-3512	A6-3012N	A31327	A620918
CSD14063N1	A6-5012N		A640918
CSD16310N1	CDD14063N1	CSD31625N1	A621327
CSD11016N1	CDD16310N1	CSD32540N1	CDD31625N1
CSD12025N1	CDD11016N1	CSD34063N1	CDD32540N1
CSD12232N1	CDD12025N1	CSD36310N1	CDD34063N1
S12136	CDD12232N1	CSD31016N1	CDD36310N1
S10015	D10020	CSD31620N1	CDD31016N1
S10020	D10027	CSD32025N1	CDD31620N1
S10020	D10036	CSD32232N1	CDD32025N1
S1GD2	D1FGC2		CDD32232N1
S1GD2H	D1FGC3	S31625	D31625
S1FGC2	D1FGC5	S32540	D32540
S1FGC3		S34063	D34063
S1FGC5		S36310	D36310
		S31016	D31016
	CDD14063	S31620	D31620
	CDD16310	S325025	D32025
CSD14063	CDD11016	S32232	D32232
CSD16310	CDD12025	A32510	D3IFS1016
CSD11016	CDD12232	A30918	D3IFS1625
CSD12025	D1IFS07	A31327	D3IFS2540
CSD12232	D1IFS15	S3IFS1016	D3IFS4063
S1IFS07	D1IFS20	S3IFS1625	D3IFS6010
S1IFS15	D1XW15S	S3IFS2540	D3IFS9014
S1IFS20	D1XW20S	S3IFS4063	D3IFS1318
S1XW15S	D1XW30S	S3IFS6010	D3IFS1723
S1XW20S		S3IFS9014	D3IFS2025
S1XW30S		S3IFS1318	CDD31625
		S3IFS1723	CDD32540
		S3IFS2025	CDD34063
		CSD31625	CDD36310
		CSD32540	CDD31016
		CSD34063	CDD31620
		CSD36310	CDD32025
		CSD31016	CDD32232
		CSD31620	W6-7532
		CSD32025	W6-1132
		CSD32232	W6-1532
		W3-7532	W6-2132
		W3-1132	W6-3132
		W3-1532	W6-7534
		W3-2132	W6-1134
		W3-3132	W6-1534
		W3-7534	W6-2134
		W3-1134	W6-2534
		W3-1534	W6-3134
		W3-2134	
		W3-2534	
		W3-3134	

VOLTAGE (of pump being used) 230 VOLT: (dark green panels do not apply)

Single Simplex	Single Duplex	Three Phase Simplex	Three Phase Duplex
S10020N1	D10020N1	A32510	A622510
A3-2012	A6-2012	A30918	A642510
A3-3512	A6-3012N	A31327	A620918
CSD14063N1	A6-5012N		A640918
CSD16310N1	CDD14063N1	CSD31625N1	A621327
CSD11016N1	CDD16310N1	CSD32540N1	CDD31625N1
CSD12025N1	CDD11016N1	CSD34063N1	CDD32540N1
CSD12232N1	CDD12025N1	CSD36310N1	CDD34063N1
S12136	CDD12232N1	CSD31016N1	CDD36310N1
S10015	A6-2012	CSD31620N1	CDD31016N1
S10020	A6-3012N	CSD32025N1	CDD31620N1
S10020	A6-5012N	CSD32232N1	CDD32025N1
S1GD2	D10020		CDD32232N1
S1GD2H	D10027	S31625	D31625
S1FGC2	D10036	S32540	D32540
S1FGC3	D1FGC2	S34063	D34063
S1FGC5	D1FGC3	S36310	D36310
	D1FGC5	S31016	D31016
		S31620	D31620
		S325025	D32025
CSD14063		S32232	D32232
CSD16310	CDD14063	A32510	D3IFS1016
CSD11016	CDD16310	A30918	D3IFS1625
CSD12025	CDD11016	A31327	D3IFS2540
CSD12232	CDD12025	S3IFS1016	D3IFS4063
A3-2012	CDD12232	S3IFS1625	D3IFS6010
A3-3512	D1IFS07	S3IFS2540	D3IFS9014
S1IFS07	D1IFS15	S3IFS4063	D3IFS1318
S1IFS15	D1IFS20	S3IFS6010	D3IFS1723
S1IFS20	D1XW15S	S3IFS9014	D3IFS2025
S1XW15S	D1XW20S	S3IFS1318	CDD31625
S1XW20S	D1XW30S	S3IFS1723	CDD32540
S1XW30S		S3IFS2025	CDD34063
		CSD31625	CDD36310
		CSD32540	CDD31016
		CSD34063	CDD31620
		CSD36310	CDD32025
		CSD31016	CDD32232
		CSD31620	W6-7532
		CSD32025	W6-1132
		CSD32232	W6-1532
		W3-7532	W6-2132
		W3-1132	W6-3132
		W3-1532	W6-7534
		W3-2132	W6-1134
		W3-3132	W6-1534
		W3-7534	W6-2134
		W3-1134	W6-2534
		W3-1534	W6-3134
		W3-2134	
		W3-2534	
		W3-3134	

AMP DRAW (of the pump model being used) OR HORSEPOWER (of the pump being used) 3.3 AMPS OR ½ HP: (dark green panels do not apply)

Single Simplex	Single Duplex	Three Phase Simplex	Three Phase Duplex
S10020N1	D10020N1	A32510	A622510
A3-2012	A6-2012	A30918	A642510
A3-3512	A6-3012N	A31327	A620918
CSD14063N1	A6-5012N		A640918
CSD16310N1	CDD14063N1	CSD31625N1	A621327
CSD11016N1	CDD16310N1	CSD32540N1	CDD31625N1
CSD12025N1	CDD11016N1	CSD34063N1	CDD32540N1
CSD12232N1	CDD12025N1	CSD36310N1	CDD34063N1
S12136	CDD12232N1	CSD31016N1	CDD36310N1
S10015	A6-2012	CSD31620N1	CDD31016N1
S10020	A6-3012N	CSD32025N1	CDD31620N1
S10020	A6-5012N	CSD32232N1	CDD32025N1
S1GD2	D10020		CDD32232N1
S1GD2H	D10027	S31625	D31625
S1FGC2	D10036	S32540	D32540
S1FGC3	D1FGC2	S34063	D34063
S1FGC5	D1FGC3	S36310	D36310
	D1FGC5	S31016	D31016
		S31620	D31620
		S325025	D32025
CSD14063		S32232	D32232
CSD16310	CDD14063	A32510	D3IFS1016
CSD11016	CDD16310	A30918	D3IFS1625
CSD12025	CDD11016	A31327	D3IFS2540
CSD12232	CDD12025	S3IFS1016	D3IFS4063
A3-2012	CDD12232	S3IFS1625	D3IFS6010
A3-3512	D1IFS07	S3IFS2540	D3IFS9014
S1IFS07	D1IFS15	S3IFS4063	D3IFS1318
S1IFS15	D1IFS20	S3IFS6010	D3IFS1723
S1IFS20	D1XW15S	S3IFS9014	D3IFS2025
S1XW15S	D1XW20S	S3IFS1318	CDD31625
S1XW20S	D1XW30S	S3IFS1723	CDD32540
S1XW30S		S3IFS2025	CDD34063
		CSD31625	CDD36310
		CSD32540	CDD31016
		CSD34063	CDD31620
		CSD36310	CDD32025
		CSD31016	CDD32232
		CSD31620	W6-7532
		CSD32025	W6-1132
		CSD32232	W6-1532
		W3-7532	W6-2132
		W3-1132	W6-3132
		W3-1532	W6-7534
		W3-2132	W6-1134
		W3-3132	W6-1534
		W3-7534	W6-2134
		W3-1134	W6-2534
		W3-1534	W6-3134
		W3-2134	
		W3-2534	
		W3-3134	

LOCATION (of panel installation) OUTSIDE: (dark green panels do not apply)

Single Simplex	Single Duplex	Three Phase Simplex	Three Phase Duplex
S10020N1	D10020N1	A32510	A622510*
A3-2012	A6-2012	A30918	A642510
A3-3512	A6-3012N	A31327	A620918
CSD14063N1	A6-5012N		A640918
CSD16310N1	CDD14063N1	CSD31625N1	A621327
CSD11016N1	CDD16310N1	CSD32540N1	CDD31625N1
CSD12025N1	CDD11016N1	CSD34063N1	CDD32540N1
CSD12232N1	CDD12025N1	CSD36310N1	CDD34063N1
S12136	CDD12232N1	CSD31016N1	CDD36310N1
S10015	A6-2012	CSD31620N1	CDD31016N1
S10020	A6-3012N	CSD32025N1	CDD31620N1
S10020	A6-5012N	CSD32232N1	CDD32025N1
S1GD2	D10020		CDD32232N1
S1GD2H	D10027	S31625	D31625
S1FGC2	D10036	S32540	D32540
S1FGC3	D1FGC2	S34063	D34063
S1FGC5	D1FGC3	S36310	D36310
	D1FGC5	S31016	D31016
		S31620	D31620
		S325025	D32025
CSD14063		S32232	D32232
CSD16310	CDD14063	A32510	D3IFS1016
CSD11016	CDD16310	A30918	D3IFS1625
CSD12025	CDD11016	A31327	D3IFS2540
CSD12232	CDD12025	S3IFS1016	D3IFS4063
A3-2012	CDD12232	S3IFS1625	D3IFS6010
A3-3512	D1IFS07	S3IFS2540	D3IFS9014
S1IFS07	D1IFS15	S3IFS4063	D3IFS1318
S1IFS15	D1IFS20	S3IFS6010	D3IFS1723
S1IFS20	D1XW15S	S3IFS9014	D3IFS2025
S1XW15S	D1XW20S	S3IFS1318	CDD31625
S1XW20S	D1XW30S	S3IFS1723	CDD32540
S1XW30S		S3IFS2025	CDD34063
		CSD31625	CDD36310
		CSD32540	CDD31016
		CSD34063	CDD31620
		CSD36310	CDD32025
		CSD31016	CDD32232
		CSD31620	W6-7532
		CSD32025	W6-1132
		CSD32232	W6-1532
		W3-7532	W6-2132
		W3-1132	W6-3132
		W3-1532	W6-7534
		W3-2132	W6-1134
		W3-3132	W6-1534
		W3-7534	W6-2134
		W3-1134	W6-2534
		W3-1534	W6-3134
		W3-2134	
		W3-2534	
		W3-3134	

* Can use this panel only with NEMA4 adder.

Selection Criteria Completed Renders The Following Selections:

- **D32540** – Duplex Panel 2.5 to 4.0 amps for outdoor installation in stock - modifiable with options
- **D3IFS2540** – Duplex Panel 2.5 to 4.0 amps for outdoor installation with easy-to-use touch pad for programming and monitoring 4 weeks - non-modifiable
- **CDD32540** – Duplex Panel 2.5 to 4.0 amps for outdoor installation with thru-door disconnect for extra measure of safety when installing 4 weeks - modifiable with options

The most common panel is the D32540. It is supplied with starters and a solid state control logic board. It is also inventoried at many locations throughout the United States. Optional adders to this panel are available with an additional leadtime.

Other Control Devices Not Listed:

Variable Frequency Drives – VFD's may also be used in an application which may be sized today for future needs. This option can be used for lower costs of energy used in a system that is not at full capacity or may need varying flow rates. The VFD option normally must also use a panel to operate the system in a Wastewater station due to the fact that seal failure and high temperature annunciation can not be done by the VFD.

These are just a few of the many alternatives in connecting a wastewater pump to power.

The following lists of options are possible alterations that can be made to the CentriPro® panels:

- Guaranteed pump submergence (must add additional float)
- Seal Failure Circuit
- High Temperature Circuit
- 115V condensation heater
- Lightning Arrestor (chosen by phase of pumps)
- Elapse Time Meters (one or two respectively for Simplex or Duplex)
- Cycle Counter (one or two respectively for Simplex or Duplex)
- Contacts for Building Management Systems interface
- Special Enclosures
- Alarm Circuits

Tricks:

NEMA 4X outdoor panels qualify as NEMA 1,3R and 12 rated as well.

Dry contacts for remote alarm is standard on any of our STOCKED panels.

Notes

Notes

Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're 12,700 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to www.xyleminc.com



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