



# ITT

BRBUYGD

## Buying Guide

### Electrical Controls for Wastewater

# MADE EASY

Featuring...

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



*Engineered for life*

## 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         |               | CSD32025N1          | CDD31620N1         |
| S10020         | D10020        | CSD32232N1          | CDD32025N1         |
| S10020         | D10027        |                     | CDD32232N1         |
| S1GD2          | D10036        | S31625              | D31625             |
| S1GD2H         | D1FGC2        | S32540              | D32540             |
| S1FGC2         | D1FGC3        | S34063              | D34063             |
| S1FGC3         | D1FGC5        | S36310              | D36310             |
| S1FGC5         | D1V101        | S31016              | D31016             |
| S1V101         | D1V201        | S31620              | D31620             |
| S1V201         | D1V228        | S325025             | D32025             |
| S1V228         | CDD14063      | S32232              | D32232             |
| CSD14063       | CDD16310      | A32510              | D3IFS1016          |
| CSD16310       | CDD11016      | A30918              | D3IFS1625          |
| CSD11016       | CDD12025      | A31327              | D3IFS2540          |
| CSD12025       | CDD12232      | S3IFS1016           | D3IFS4063          |
| CSD12232       | D1IFS07       | S3IFS1625           | D3IFS6010          |
| S1IFS07        | D1IFS15       | S3IFS2540           | D3IFS9014          |
| S1IFS15        | D1IFS20       | S3IFS4063           | D3IFS1318          |
| S1IFS20        |               | S3IFS6010           | D3IFS1723          |
| S1XW15S        | D1XW15S       | S3IFS9014           | D3IFS2025          |
| S1XW20S        | D1XW20S       | S3IFS1318           | CDD31625           |
| S1XW30S        | D1XW30S       | 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:** (shaded 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:** (shaded 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             |                    |

## VOLTAGE (of pump being used) 230 VOLT: (shaded 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             |
| S1V101         | D1FGC5        | S31016              | D31016             |
| S1V201         | D1V101        | S31620              | D31620             |
| S1V228         | D1V201        | S325025             | D32025             |
| CSD14063       | D1V228        | 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 1/2 HP:** (shaded 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             |
| S1V101         | D1FGC5        | S31016              | D31016             |
| S1V201         | D1V101        | S31620              | D31620             |
| S1V228         | D1V201        | S325025             | D32025             |
| CSD14063       | D1V228        | 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:** (shaded 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             |
| S1V101         | D1FGC5        | S31016              | D31016             |
| S1V201         | D1V101        | S31620              | D31620             |
| S1V228         | D1V201        | S325025             | D32025             |
| CSD14063       | D1V228        | 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  
List **\$1856** 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  
List **\$1377** 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  
List **\$2556** 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.

**PS Patrol** — PS patrol is another option that could be used in hardwiring a pump system that only requires alarm annunciation. The use of this device is an alternative to piggy backing a float on a simplex system and using an isolated alarm device.

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.

ITT

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