

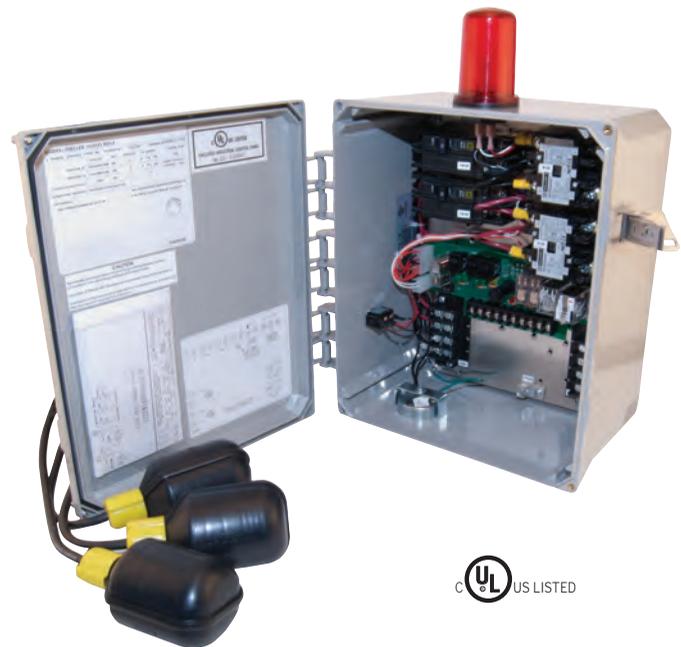
# Electrical Alternator Control Panel

## For Duplex Installations

An electrical alternator is used on a duplex pump application where automatic alternation of the pumps is desired for added protection in residential or commercial applications. With one pump operating to handle normal flow, a second pump becomes operational in the event the water level continues to rise. The built-in alarm system, a standard feature, can be connected to sound either when the second pump becomes operational with a 3-float switch system or independently with a 4-float switch system. All electrical systems must be installed by a qualified electrician and according to the National Electrical Code. (see Section 430-71 through 430-113, plus any others that apply).

### SPECIFICATIONS:

- Hand-off-auto toggle switch for each pump
- Green pump run pilot light for each pump
- Alarm test and silence switches
- Red pilot light (NEMA1 only) and audible alarm with 83 to 85 decibel rating for a high-water condition
- Red alarm beacon included with NEMA 4x enclosure
- Auxiliary dry contact
- High water alarm
- Single phase - circuit breaker for each pump
- Three phase - motor protective switch with overload protection
- Magnetic starter for each pump
- Alternating mechanism
- Numbered terminal strip for connecting pumps and variable level float switches
- NEMA 1 - general purpose or NEMA 4x - watertight enclosures available
- Integral auxiliary terminal board connections (dry contact) for remote alarm devices
- 3 or 4 variable level float switch control operation
- Three 20' (6 m) float switches included with single phase panels
- Off-the-shelf components provide easy field maintenance and repair
- Float switches not included with three phase panels



# Electrical Alternator Control Panel

<b>CONTROL PANELS USED WITH SINGLE PHASE PUMPS</b>			
<b>NEMA 1 ENCLOSURE WITH 20' (6 m) FLOAT SWITCH</b>			
Order No.	Dimensions HxWxD in (cm)	Volts	Amp Range
10-1039	12" x 10" x 6" (30 x 25 x 15 cm)	115	7-15
10-1040	12" x 10" x 6" (30 x 25 x 15 cm)	115	15-20
10-0092*	12" x 10" x 6" (30 x 25 x 15 cm)	115/200/230	0-20
<b>NEMA 4X ENCLOSURE WITH 20' (6 m) FLOAT SWITCH</b>			
10-1041	12" x 10" x 6" (30 x 25 x 15 cm)	115	7-15
10-1042	12" x 10" x 6" (30 x 25 x 15 cm)	115	15-20
10-1043	12" x 10" x 6" (30 x 25 x 15 cm)	115/200/230	0-7
10-1044	12" x 10" x 6" (30 x 25 x 15 cm)	115/200/230	7-15
10-1045	12" x 10" x 6" (30 x 25 x 15 cm)	115/200/230	15-20
10-1046	12" x 10" x 6" (30 x 25 x 15 cm)	115/200/230	20-30
10-0093*	12" x 10" x 6" (30 x 25 x 15 cm)	115/200/230	0-20

\*Branch circuit protection provided by installing electrician.

<b>CONTROL PANELS USED WITH THREE PHASE PUMPS</b>			
<b>NEMA 4X ENCLOSURE (Float Switches not included)</b>			
Order No.	Dimensions HxWxD in (cm)	Volts*	Amp Range
10-1102	14" x 12" x 6" (36 x 30 x 15 cm)	200/230/460	1.0-1.6
10-1104	14" x 12" x 6" (36 x 30 x 15 cm)	200/230/460	1.6-2.5
10-1106	14" x 12" x 6" (36 x 30 x 15 cm)	200/230/460	2.5-4.0
10-1108	14" x 12" x 6" (36 x 30 x 15 cm)	200/230/460	4.0-6.3
10-1110	14" x 12" x 6" (36 x 30 x 15 cm)	200/230/460	6.3-10.0
10-1111	14" x 12" x 6" (36 x 30 x 15 cm)	200/230/460	9.0-14.0
10-1112	14" x 12" x 6" (36 x 30 x 15 cm)	200/230/460	13.0-18.0
10-1114	14" x 12" x 6" (36 x 30 x 15 cm)	200/230/460	17.0-23.0
10-1115	14" x 12" x 6" (36 x 30 x 15 cm)	200/230/460	20.0-25.0
10-1183	14" x 12" x 6" (36 x 30 x 15 cm)	200/208	23.0-32.0
10-1154	14" x 12" x 6" (36 x 30 x 15 cm)	575	1.6-2.5
10-1156	14" x 12" x 6" (36 x 30 x 15 cm)	575	2.5-4.0
10-1158	14" x 12" x 6" (36 x 30 x 15 cm)	575	4.0-6.3

\*Three phase panel has multi-tap transformer with secondary fusing.

NOTE: All variable level float switches in this section are mechanically activated and do not contain mercury.

NOTE: 600 and X600 Series single phase pumps require special panels that include start components. See Selection Guide FM1228 and FM1705 for correct panel selection.