

# SUBDRIVE DUPLEX ALTERNATOR

## BALANCED WORKLOAD FOR PARALLEL SYSTEMS

The SubDrive Duplex Alternator from Franklin Electric allows a water system to alternate between two parallel pumps controlled by separate SubDrives using the traditional SubDrive pressure sensor. The user-selected switching interval balances the run time of each pump system to evenly disperse the workload. The SubDrive Duplex Alternator is ideal for applications requiring redundant systems.

For high-demand situations, the SubDrive Duplex Alternator works on a lead-lag principle. When demand exceeds the capacity of one pumping system, the other comes online to supplement production.

### APPLICATIONS

- Schools
- Restaurants
- Hospitals
- Car washes
- Small municipal water systems

### FEATURES

- Ability to work with any two Franklin SubDrives, MonoDrives, or QuickPAKS using the traditional SubDrive pressure sensor
- Push-button design to select switching interval; 1–24 hours or manual
- Indicator lights to show time settings, status, and faults for each pump
- Safe operation using a 120 VAC/12 VAC outdoor rating and low voltage wiring connection
- Fail-safe design (system still produces water if alternator is taken offline)
- Simple installation
- Fault detection
- Optional alarm contacts
- NEMA 4 enclosure protects against:
  - Rain, sleet, snow, and external ice
  - Splashing or hose-directed water
  - Falling dirt or windblown dust



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## MODELS

Enclosure	Model No.	Drive Type	Model No.	Drive Type
NEMA 1	5870203380	SubDrive75	5870203110	MonoDrive
	5870204100	SubDrive100	5870204110	MonoDriveXT
	5870204150	SubDrive150	-	-
NEMA 3R	5870205103C	SubDrive15	-	-
	5870205303C	SubDrive20	5870205003C	MonoDrive
	5870205403C	SubDrive30	5870205203C	MonoDriveXT
	5870205503C	SubDrive50	-	-
	5870203223	SubDrive2W	-	-
NEMA 4	5870203384	SubDrive75	5870203114	MonoDrive
	5870204104	SubDrive100	5870204114	MonoDriveXT
	5870204154	SubDrive150	90401101	Inline 1100
	5870206300	SubDrive300	90411101	Inline CP

## SPECIFICATIONS

SubDrive Duplex Alternator (Model No. 5850012000)		
Power Source to Indoor/Outdoor Transformer	Voltage	115 VAC
	Frequency	60 Hz
Power to Controller	Voltage	12 VAC
	Frequency	60 Hz
	Power*	1.4 Watts
Pressure Setting**	Factory Preset	50 psi
	Adjustment Range	25-80 psi
Operating Conditions	Indoor/Outdoor	NEMA 4 enclosure
	Temperature	-13 to 125 °F (-25 to 51 °C)
	Relative Humidity	0-100%, non-condensing or condensing
Controller Size (approximate)	Outer Dimensions	5.8" H x 5.8" W x 3.6" D
	Weight	1.3 lbs (0.59 kg)

\* Power is on the secondary side of transformer

\*\* Pressure sensors must be set at least 3 psi apart

## DIMENSIONS

