

# INSTALLER FRIENDLY SERIES™ - IFS Single Phase Duplex Capacitor (Start/Run)

Single phase, duplex demand dose, float controlled system for pump control and system monitoring.

The IFS single phase duplex capacitor (start/run) control panel is designed to alternately control two 120, 208, or 240 VAC single phase pumps in water and sewage installations.

The IFS single phase duplex capacitor (start/run) control panel features a simple, easy-to-use touch pad on the inner door for programming and monitoring pump and float operation

## TOUCH PAD FEATURES

- A. Control Power Indicator/Fuse.** Indicator light will illuminate if control power is present in panel.
- B. Control Fuse Replace Indicator** will illuminate if control fuse is blown. Alarm will activate if control fuse is blown.
- C. Alarm Power Indicator/Fuse.** Indicator light will illuminate if alarm power is present in panel.
- D. Alarm Fuse Replace Indicator** will illuminate if alarm fuse is blown.
- E. Float Indicators** will illuminate when floats are activated. Alarm will activate if a float operates out of sequence and the appropriate float indicator will flash.
- F. HOA (Hand-Off-Automatic) Buttons** control pump mode with indication. Hand mode defaults to Automatic when stop level is reached.
- G. Pumps Run Indicators** will illuminate when pumps are called to run.
- H. Select Push Button** (with display board only) toggles pump operation, alternate 1-2 and 2-1 operation.
- I. Seven-Segment LED Display** shows mode, pump elapsed time (hh:mm), events (cycles), alarm counter and pump fail. (Display is optional.)
- J. Next Push Button** (with display board only) when pressed toggles display through: mode, elapsed time meter, lead/lag, cycle counters, alarm counter, and pump fail counter.
- K. Program Push Button** (with display board only) when pressed puts panel in program mode.

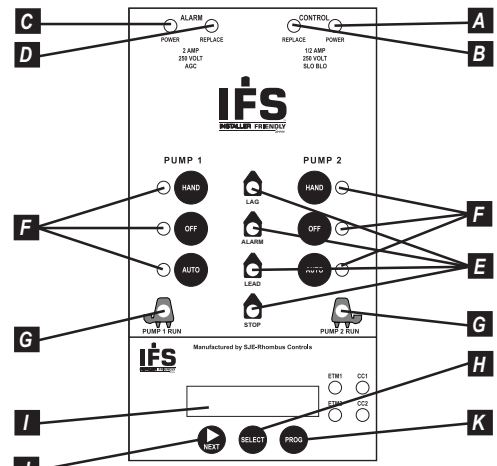
**Note:** LED display will turn off after one minute of not being used.

## PANEL COMPONENTS

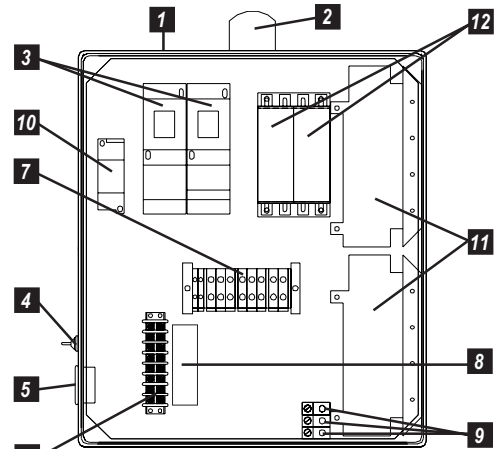
- 1. Enclosure** measures 16 x 14 x 6 inches (40.64 x 35.56 x 15.24 cm). NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
- 2. Red Alarm Beacon** provides 360° visual check of alarm condition.
- 3. IEC Motor Contactors** control pump by switching electrical lines.
- 4. Exterior Alarm Test/Normal/Silence Switch** allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.
- 5. Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
- 6. Float Connection Terminal Block**
- 7. Large Incoming Power and Pump Connection Terminal Block**
- 8. Terminal Block Installation Label**
- 9. Ground Lugs**
- 10. Alarm Activation Relay**
- 11. Capacitor Start Modules** - start/run capacitor kits must be ordered separately.
- 12. Circuit Breakers** (optional) provide pump disconnect and branch circuit protection.

**NOTE:** Schematic/Wiring Diagram and Pump Specification Label are located inside the panel on enclosure cover

**SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.**



**Model Shown IFS81W114X912A8AC (Inner door view)**



**Model Shown IFS81W114X912A8AC (Inside view)**

Reg. Cdn Pat. & TM Off

## FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20' Sensor Float® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty



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IFS8
 
W
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**MODEL IFS8** ..... \$1400.00

- ALARMPACKAGE** ..... Base
- 1 = alarm package (includes test/normal/silence switch, fuse, red light, horn) ..... Base
- ENCLOSURERATING** ..... Base
- W = Weatherproof, NEMA 4X (engineered thermoplastic) ..... Base
- STARTINGDEVICE** ..... Base
- 1 = IEC motor contactor 120/208/240V ..... Base
- PUMP FULL LOAD AMPS** ..... Base
- 0 = 0-7 FLA ..... Base
- 1 = 7-15 FLA ..... Base
- 2 = 15-20 FLA ..... \$105.00
- 3 = 20-30 FLA ..... \$125.00
- 4 = 30-40 FLA ..... \$150.00
- PUMP DISCONNECTS** ..... Base
- 0 = no pump disconnect ..... Base
- 4 = circuit breaker ..... \$140.00
- FLOAT SWITCH APPLICATION** ..... Base
- H or L = pump down or pump up ..... Base
- X = no floats ..... -\$75.00

**OPTIONS** *Listed below*

Start/run capacitor kits must be ordered separately (see option 12 below or call factory).

Total Options \_\_\_\_\_  
 Enclosure Upsize \_\_\_\_\_  
**TOTAL LIST PRICE** \_\_\_\_\_

★ **ENCLOSURE UPSIZE** - If one or more of the ★ options are selected, add a one-time \$130.00 list enclosure upsize

*If additional features are required, call the factory for a quote on an Engineered Custom control panel.*

CODE	DESCRIPTION	LIST PRICE	CODE	DESCRIPTION	LIST PRICE
<input type="checkbox"/>	3A Alarm flasher	\$50.00	<input type="checkbox"/>	11D NEMA 4X alarm panel (must select option 6A)	\$170.00
<input checked="" type="checkbox"/>	★ 5A Thermal cutout	\$80.00	<input type="checkbox"/>	12B Customer supplied motor start components, mounted in enclosure by SJE-Rhombus	\$110.00
<input checked="" type="checkbox"/>	★ 5E Seal fail circuit and indicator	\$315.00	<input type="checkbox"/>	12C Motor start component, mounted and supplied by SJE-Rhombus	Call Factory
<input type="checkbox"/>	6A Auxiliary alarm contact, form C type	\$40.00	<input type="checkbox"/>	16A 10' cord in lieu of 20' (per float)	- \$2.00
<input type="checkbox"/>	8AC Display board includes: ETM counter, events (cycles) counter, alarm counter.	\$100.00	<input type="checkbox"/>	16B 15' cord in lieu of 20' (per float)	- \$1.00
<input type="checkbox"/>	9_A Pump overload specify amperage after number 9 followed by letter "A". Example: 912A = 12 amp pump.		<input type="checkbox"/>	16C 30' cord in lieu of 20' (per float)	\$5.00
<input type="checkbox"/>	<input type="checkbox"/> 0-30 FLA	\$120.00	<input type="checkbox"/>	16D 40' cord in lieu of 20' (per float)	\$15.00
<input type="checkbox"/>	<input type="checkbox"/> 30-40 FLA	\$200.00	<input type="checkbox"/>	17C Sensor Float® / internally weighted (per float)	\$5.00
<input type="checkbox"/>	10E Lockable latch	\$40.00	<input type="checkbox"/>	17D Sensor Float® / externally weighted (per float)	\$7.00
<input type="checkbox"/>	10F Lightning arrester	\$160.00	<input type="checkbox"/>	17G SJE MilliAmpMaster™ / pipe clamp (per float)	\$0.00
<input type="checkbox"/>	10K Anti-condensation heater	\$100.00	<input type="checkbox"/>	17H SJE MilliAmpMaster™ / externally weighted (per float)	\$7.00
<input type="checkbox"/>	11C NEMA 1 alarm panel (must select option 6A)	\$65.00	<input type="checkbox"/>	19F Fourth float to separate alarm from lag	\$25.00

**SAMPLE**

<b>MODEL</b>	<span style="border: 1px solid black; padding: 2px 10px;">IFS8</span>	<span style="border: 1px solid black; padding: 2px 10px;">1</span>	<span style="border: 1px solid black; padding: 2px 10px;">W</span>	<span style="border: 1px solid black; padding: 2px 10px;">1</span>	<span style="border: 1px solid black; padding: 2px 10px;">1</span>	<span style="border: 1px solid black; padding: 2px 10px;">4</span>	<span style="border: 1px solid black; padding: 2px 10px;">H</span>	<span style="border: 1px solid black; padding: 2px 10px;">912A 12B</span>		
Alarm Package									LIST PRICE IFS8	\$1400.00
Enclosure Rating									1	Base
Starting Device									W	Base
Pump Full Load Amps									1	Base
Pump Disconnect									1	Base
Float Switch Application									4	\$140.00
Options: Pump Overload, Motor Start Components Supplied by Customer									H	Base
									912A	\$120.00
									12B	\$110.00
									<b>TOTAL LIST PRICE</b>	<b>\$1770.00</b>