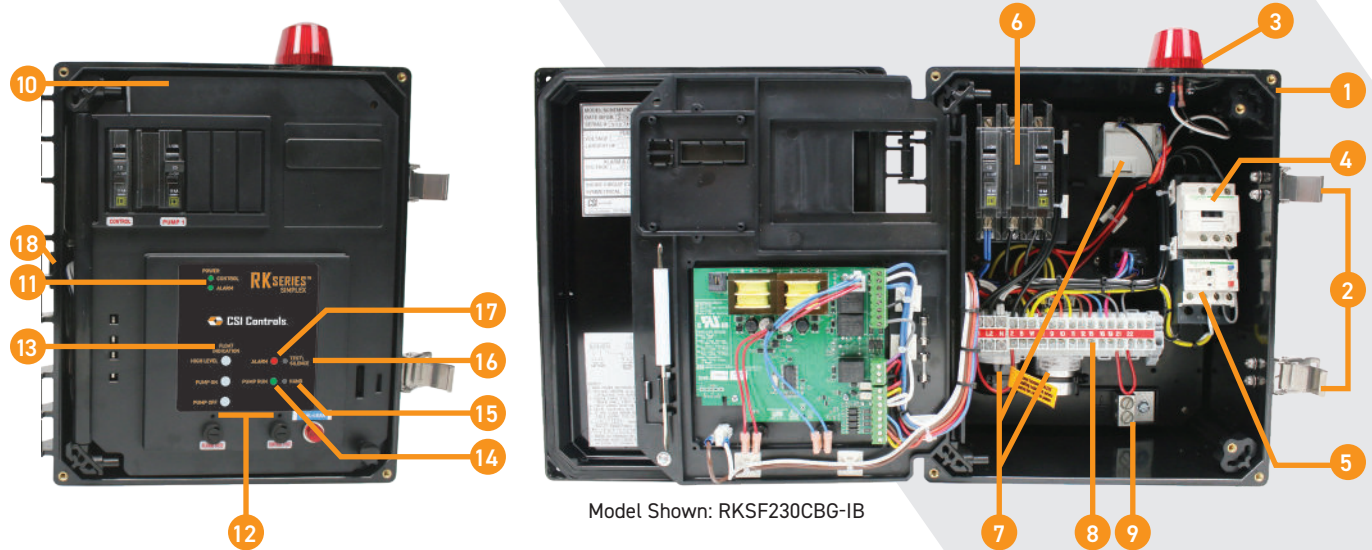


# RK Series™ Single Phase Simplex Capacitor Start/Run

Single Phase, Simplex Grinder with External Start/Run Capacitors



Model Shown: RKSF230CBG-IB

The RK Series™ Single Phase Simplex Grinder panel is designed to control one 230 VAC single phase pump with external starting components in water and sewage installations. The protective inner door features panel operating status indicators, control buttons and provides access to the pump and control circuit breakers.

## FEATURES

- NEMA 4X engineered thermoplastic enclosure with lockable latches
- Flashing red 360° alarm beacon with horn, includes innovative touch to silence pad
- Float indication lights allow the user to see the status of each float and flashes should a float fail out-of-sequence
- Pump push to run with low level protection when activated manually
- Includes easy access touch safe fuses
- Timed dose control option available or can be easily retrofitted in the field
- External capacitor kit components are installed for variety of pumps - consult factory when ordering



US Patent No.  
7,075,443 and 7,471,207

## OPTIONS



Optional Digital Interface Board (DIB)



Optional Digital Display Center (DDC)

Display options for viewing pump elapsed time, cycle counts and timed dose control

## COMPONENTS

1. NEMA 4X enclosure rated for indoor or outdoor use
2. Lockable latches for added safety
3. 360° red alarm beacon for visual alert
4. IEC motor contactor controls the pump motor load by switching the electrical lines
5. IEC overload to provide pump motor current overload protection
6. Circuit breakers provide pump and control/alarm disconnect and branch circuit protection
7. Capacitor kit includes start relay, start capacitor, run capacitor
8. Terminal strip easy field wiring of incoming power, floats, and pump
9. Ground lugs
10. Molded inner door protects from high voltage, and mounting location for indicators, control buttons, and controller circuit board
11. Green LEDs provide power indication for control and alarm circuit power
12. Red LEDs provide indication when either control or alarm fuse is blown
13. Float status LEDs provide tank level indication and float out-of-sequence detection (High Level - red, Pump Start Level - yellow, Pump Stop Level - green)
14. Green Pump Run LED provides indication when pump is called to run
15. Pump Hand/Run button operates the pump manually
16. Alarm Test/Silence button
17. Red LED alarm indication for high water
18. Piezo alarm horn



# CSI Controls®

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## RK SERIES™ SINGLE PHASE SIMPLEX CAPACITOR START/RUN CONTROL PANEL

Model	FLA Range	Enclosure Type	Input Power VAC - PH	Circuit Breakers
RKSF230CBG	0-12	NEMA 4X	230-1	Motor & Control/Alarm, Capacitor Circuitry*
RKSF230ACBG	0-12	NEMA 4X	230-1	Motor, Control & Alarm, Capacitor Circuitry*
Options	Description			
AMB	Amber beacon (red beacon is standard)			
DC	Digital Display Center (DDC) 4-character LED			
DCTD	Time Dosing DDC 4-character LED			
FC20	(3) 20 foot (6.1m) mechanical control switches / pipe clamp			
FC20CW	(3) 20 foot (6.1m) mechanical control switches / cable weight			
FR20	(3) 20 foot (6.1m) mercury control switches / pipe clamp			
FR20CW	(3) 20 foot (6.1m) mercury control switches / cable weight			
FC30	(3) 30 foot (9.1m) mechanical control switches / pipe clamp			
FC30CW	(3) 30 foot (9.1m) mechanical control switches / cable weight			
FR30	(3) 30 foot (9.1m) mercury control switches / pipe clamp			
FR30CW	(3) 30 foot (9.1m) mercury control switches / cable weight			
FC50	(3) 50 foot (15.2m) mechanical control switches / pipe clamp			
FC50CW	(3) 50 foot (15.2m) mechanical control switches / cable weight			
FR50	(3) 50 foot (15.2m) mercury control switches / pipe clamp			
FR50CW	(3) 50 foot (15.2m) mercury control switches / cable weight			
GR	Gray enclosure (black enclosure is standard)			
HD1	Heavy Duty 1: Increase breakers and wire gauge to allow 12-18 FLA			
HD2	Heavy Duty 2: Increase breakers and wire gauge to allow 18-24 FLA			
HS	Heat Sensor Terminals			
HTR	Anti-Condensation Heater			
IB	Digital Interface Board (DIB) 32-character LCD			
IBTD	Time Dosing DIB 32-character LCD			
LA	Lightning Arrestor			
OL##	Pump Overload - specify amperage after OL (Example: OL02 = 2 amp pump, OL20 = 20 amp pump)			
SF	Seal Failure Indicator Light			
X	Auxiliary Alarm and Redundant Off Circuitry (control switch not included)			

\*Contact factory for capacitor circuitry details.

**SEE PRICE BOOK FOR LIST PRICE.**

### SPECIFICATIONS

**VOLTAGE SUPPLY:** Pump: 230 VAC 50/60 Hz 1Ø  
Control/Alarm: 115 VAC 60 Hz 1Ø

**ENCLOSURE:** 12 x 10 x 6 inch (30.5 x 25.4 x 15.2 cm)  
NEMA 4X ultraviolet stabilized thermoplastic rated for indoor/outdoor use with mounting feet

**INNER DOOR:** molded thermoplastic

**LOCKING LATCHES (2):** stainless steel, padlockable

**FLOAT CONTROL VOLTAGE:** 115 VAC

**MOTOR STARTER:** IEC contactor and IEC overload

**PUMP AMPS:** 0-12 Amps, 12-18 Amps, 18-24 Amps

**ALARM HORN:** 83-85 decibel rating

**FLASHING RED LED ALARM LIGHT 360°**



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California Prop 65 requires the following: WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov