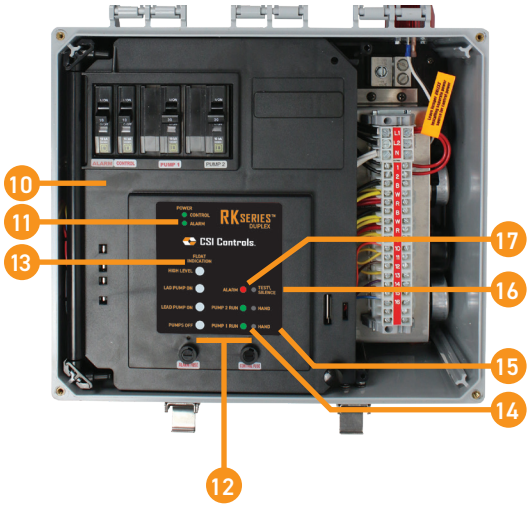
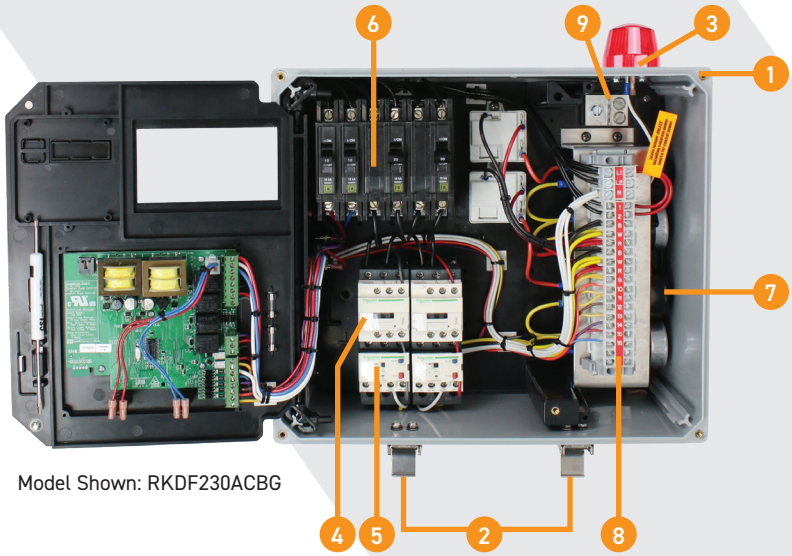
RK Series™ Single Phase Duplex Capacitor Start/Run

Single Phase, Duplex Grinder with External Start/Run Capacitors





Model Shown: RKDF230ACBG

The **RK Series™ Single Phase Duplex Grinder** panel is designed to control two 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

5 YEAR WARRANTY

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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 contactors control the pump motor load by switching the electrical lines
5. IEC overloads to provide pump motor current overload protection
6. Circuit breakers provide pump and control/alarm disconnect and branch circuit protection
7. Capacitor kits includes start relay, start capacitor, run capacitor
8. Terminal strip easy field wiring of incoming power, floats, and pumps
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 indications (High Level - red, Pump Lag Start - yellow, Pump Start Level - green, 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 audible alarm (not shown)

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RK SERIES™ SINGLE PHASE DUPLEX CAPACITOR START/RUN CONTROL PANEL

Model	FLA Range	Enclosure Type	Input Power VAC - PH	Circuit Breakers
RKDF230CBG	0-12	NEMA 4X	230-1	Motor & Control/Alarm, Capacitor Circuitry*
RKDF230ACBG	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	(4) 20 foot (6.1m) mechanical control switches / pipe clamp
FC20CW	(4) 20 foot (6.1m) mechanical control switches / cable weight
FR20	(4) 20 foot (6.1m) mercury control switches / pipe clamp
FR20CW	(4) 20 foot (6.1m) mercury control switches / cable weight
FC30	(4) 30 foot (9.1m) mechanical control switches / pipe clamp
FC30CW	(4) 30 foot (9.1m) mechanical control switches / cable weight
FR30	(4) 30 foot (9.1m) mercury control switches / pipe clamp
FR30CW	(4) 30 foot (9.1m) mercury control switches / cable weight
FC50	(4) 50 foot (15.2m) mechanical control switches / pipe clamp
FC50CW	(4) 50 foot (15.2m) mechanical control switches / cable weight
FR50	(4) 50 foot (15.2m) mercury control switches / pipe clamp
FR50CW	(4) 50 foot (15.2m) mercury control switches / cable weight
GR	Gray enclosure (included as 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: 14 x 12 x 6 inch (35.6 x 30.5 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 motor protection switches and IEC motor contactors

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

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