

JCS Industries Inc.

Model 4120 Liquid Vacuum Switchover



- **Wide Rate Range: 3 to 2,000 GPD**
- **Adjustable cycle settings**
- **Chemical Compatibility: All common disinfection chemicals.**
- **System flexibility: Same four Control Modes of the Model 4100 Controller.**
- **Vacuum system: Offers safety with no leaks**

The JCS Industries Model 4120 Liquid Vacuum Switchover is a robust device that has been designed to aid in applications where impurities or fouling materials might cause a feed-water or primary vacuum source injector to clog or become inefficient. In such a case, the Model 4120 automatically allows for a second, backup injector to take over the chemical feed process. The Model 4120 will, as soon as reduced flow is detected, instantly shut down the primary vacuum source or injector and switch flow to the secondary injector or vacuum source, thus allowing uninterrupted operation.

The digital display of the Model 4120 provides the necessary alarms to switch from one vacuum source to another and, alert operations personnel that a catastrophic failure has occurred. The JCS Model 4120 can also be set up to operate in conjunction with external vacuum generating devices such as the JCS Model 4140 Chemical Induction System.

Technical Specifications Model 4120

Range		➤	3 to 2,000 GPD
Wet End Materials		➤	PVC, Teflon, Poly Pro, Viton, Hypalon
Power Supply		➤	110/220VAC, 50/60 Hz
Power Consumption		➤	16 watts
Battery Backup		➤	12 V, 4 Amp Hours
Operating Temperature		➤	32° to 120°F
Enclosure Protection		➤	IP 66,67
Display		➤	Backlit LCD, 16 characters X 2 lines
Connections	0–1,000 GPD 0–2,000 GPD	➤	0.25" NPT 0.5" NPT
Inputs	Remote Start/Stop	➤	Volt Free
Outputs	System Switch Adjustable System Failure	➤	Volt Free
Dimensions (include Mounting Board)		➤	12.0"W x 33.0"H x 10.0"D
Weight		➤	22 Lbs (10 kg)

Characteristics

When used in conjunction with the JCS Model 4100 Automatic Vacuum Liquid Feeder, the JCS Model 4120 will automatically switch both vacuum and chemical sources to ensure trouble free and reliable operations.

In the event of a total system failure the JCS Model 4120 is equipped with an adjustable relay contact that, when tied into an external alarm, will alert operations personnel.

In lieu of the standard solution injectors the JCS Model 4120 can be used with chemical induction mixers to achieve the same results.