Enviro Unit Controller
For Kitchen Exhaust and Supply Dry Hoods

RPD-KD11

General

The RPD-KD11 KES Enviro controller is used in conjunction with a *Spring Air Systems* KES Enviro unit, a kitchen makeup air and dry kitchen hoods.
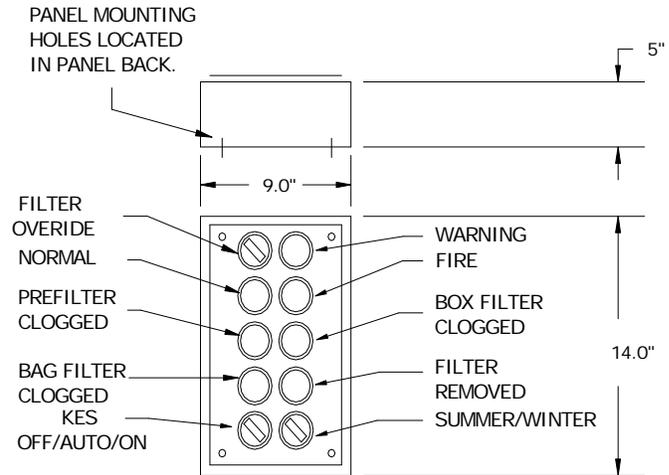
The RPD-KD11 is CSA certified, UL listed, and housed in a stainless steel enclosure with a No. 4 finish. The standard controller includes an *ON/OFF* and Override switch, pilot lights for NORMAL, OVERRIDE, , WARNING, PREFILTER CLOGGED, BAG FILTER CLOGGED, BOX FILTER CLOGGED, FILTER REMOVED, and FIRE; and interlocks to the supply Unit, and hood fire suppression system.

Operation

At the start of the cooking day, rotate the *ON/OFF* selector switch to the *ON* position. The kitchen Enviro Unit energizes and the fresh air supply unit activates. Some supply unit have motorized fresh air damper that must open before the supply unit starts. The panel monitors the operation of the KES Enviro unit. Pressure transducers in the KES filter unit activate to annunciate filter clogged or filter removed. If the filters are not maintained regularly and a filter clogs the KES will shut down and the corresponding filter light will energized. At the same time the warning light flashes. Rotate the Override switch and the unit will start again and operate for another 4 hours until the filters can be changed. In the event of a fire, the surface fire suppression microswitch closes to shut off the supply systems controlled by the panel. Text readout indicates status of

RPD-KD11 DIMENSIONAL DATA

system at all times. Inside the panel the PLC displays the filter clogged and filter removed set points and the actual current static pressure across each filter.

Specification

The Spring Air Systems model RPD-KD11 Enviro controller shall be supplied with each KES-ISH filter and KESF fan unit to provide operational control and annunciation of the commercial kitchen ventilation system. The controller shall be CSA certified, housed in a stainless steel EMAC1 enclosure with No. 4 finish, complete with a microprocessor, interlocks to the building management system, fire suppression system, supply fan, and override switches, and pilot lights and PLC text message annunciation for Normal, Prefilter Clogged, Bag Filter Clogged, Box Filter Clogged, Filter Remove, and Service.

Option:

24 hour time clock settings

No interlock to the supply unit

No interlock to the surface fire suppression system.

RPD-KD11

Enviro Unit Controller
For Kitchen Exhaust
Water Wash Hood

RPD-KW10

General

The RPD-KW10 KES Enviro controller is used in conjunction with a Spring Air Systems KES Enviro unit, and water wash hoods.

The RPD-KW10 is CSA certified, UL listed, and housed in a stainless steel enclosure with a No. 4 finish. The standard controller includes an Override switch, pilot lights for NORMAL, OVERRIDE, WARNING, PREFILTER CLOGGED, BAG FILTER CLOGGED, BOX FILTER CLOGGED, FILTER REMOVED, and FIRE.
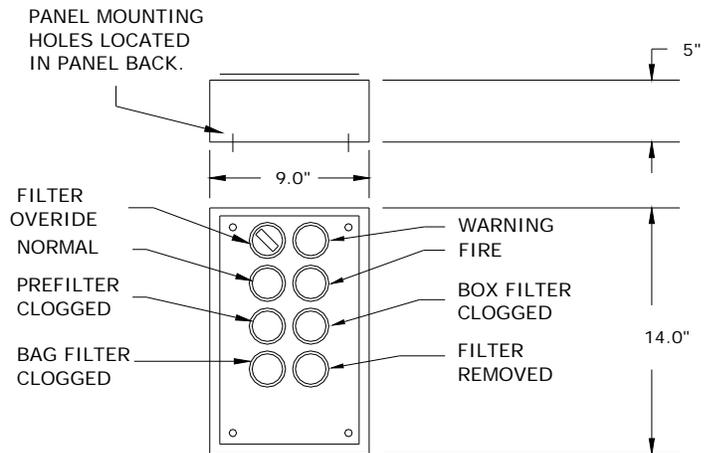
Operation

At the start of the cooking day, rotate the selector switch on the water wash panel to the on position. The kitchen Enviro Unit energizes unit activates. The panel monitors the operation of the KES Enviro unit. Pressure transducers in the KES filter unit activate to annunciate filter clogged or filter removed. If the filters are not maintained regularly and a filter clogs the KES will shut down and the corresponding filter light will energized. At the same time the warning light flashes. Rotate the Override switch and the unit will start again and operate for another 4 hours until the filters can be changed. In the event of a fire, the surface fire suppression micro-switch closes to shut off the supply systems controlled by the panel. Text readout indicates status of system at all times. Inside the panel the PLC displays the filter clogged and filter removed set points and the actual current static pressure across each filter. The supply fan, interlock to the surface fire suppression system are all connected to the water wash hood control panel.

RPD-KW10 Remote Annunciation Panels

Used in conjunction with a Water Wash Ventilator

Specification

The Spring Air Systems model RPD-KW10 Enviro controller shall be supplied with each KES-ISH filter and KESF fan unit connected to water wash hood to provide operational control and annunciation of the commercial kitchen ventilation system. The controller shall be CSA certified,

RPD-KW10 DIMENSIONAL DATA

The KES RPD-KW10 remote control panel activates unit shut down upon any of the conditions listed below.
1. Operation of the KES-ISH with dirty or clogged pre-filters, bag filters, or box filters.
2. Operation of the KES-ISH with the bag for box filter removed.
3. Low air volume through the KES-ISH.
4. A fire in the KES-ISH inlet
The remote annunciation panel RPW10 is located in the kitchen near the water wash control for annunciation of the following conditions:

housed in a stainless steel EMAC1 enclosure with No. 4 finish, complete with a microprocessor, fire, override switches, and pilot lights and PLC text message annunciation for Normal, Prefilter Clogged, Bag Filter Clogged, Box Filter Clogged, Filter Remove, and Service.

RPD-KW10