![Spring Air logo] **Spring Air**
Engineering Energy Savings

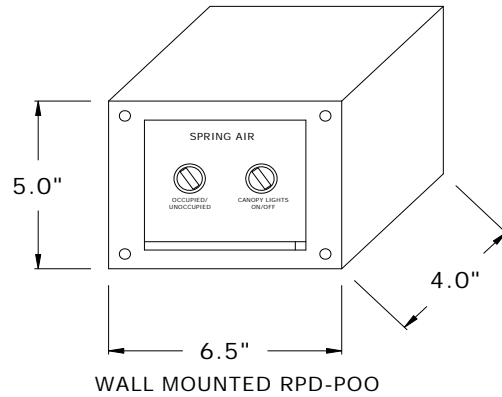# Hood Controller
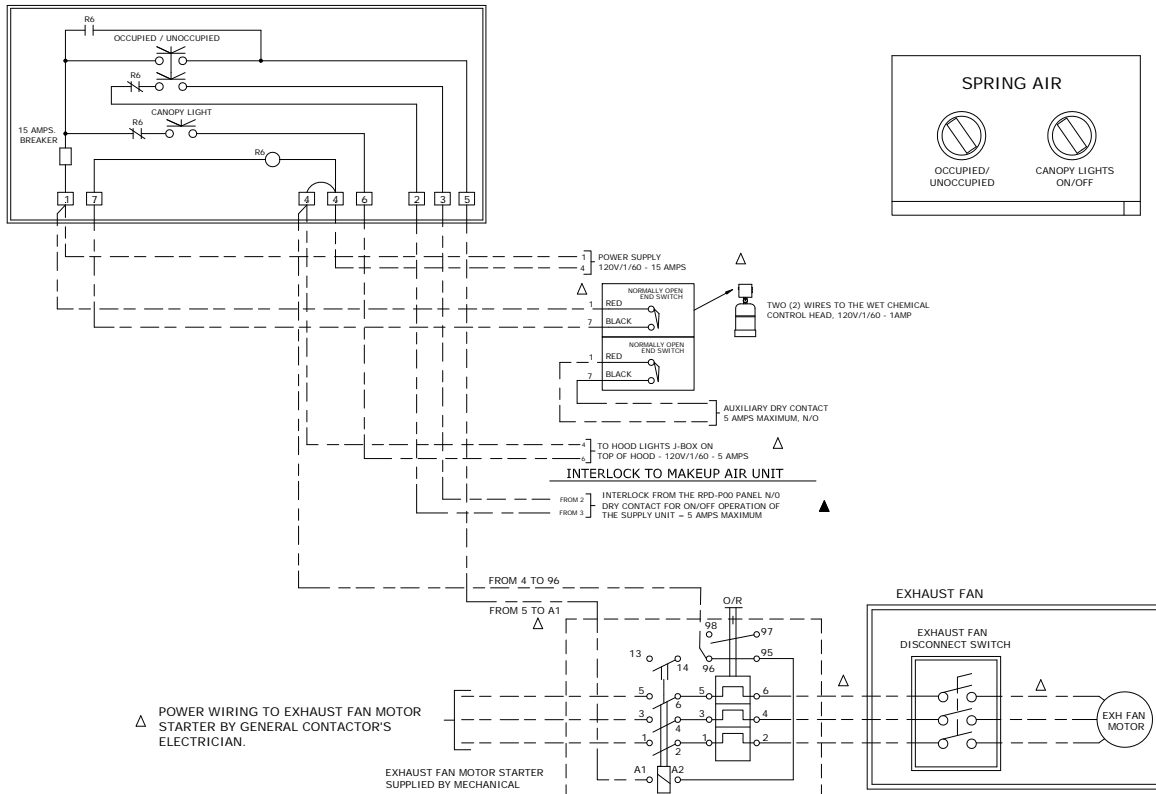## *For Commercial Kitchen Exhaust*

RPD-POO

General

The RPD-POO controller is used in conjunction with a Spring Air System commercial kitchen exhaust hood. The controller can be wall mounted or mounted on the front of the hood.

The RPD-POO wall mounted panel is CSA certified, UL listed, and housed in a stainless steel enclosure with a No.4-finish. The controller includes a fan on/off switch and a canopy light on/off switch.
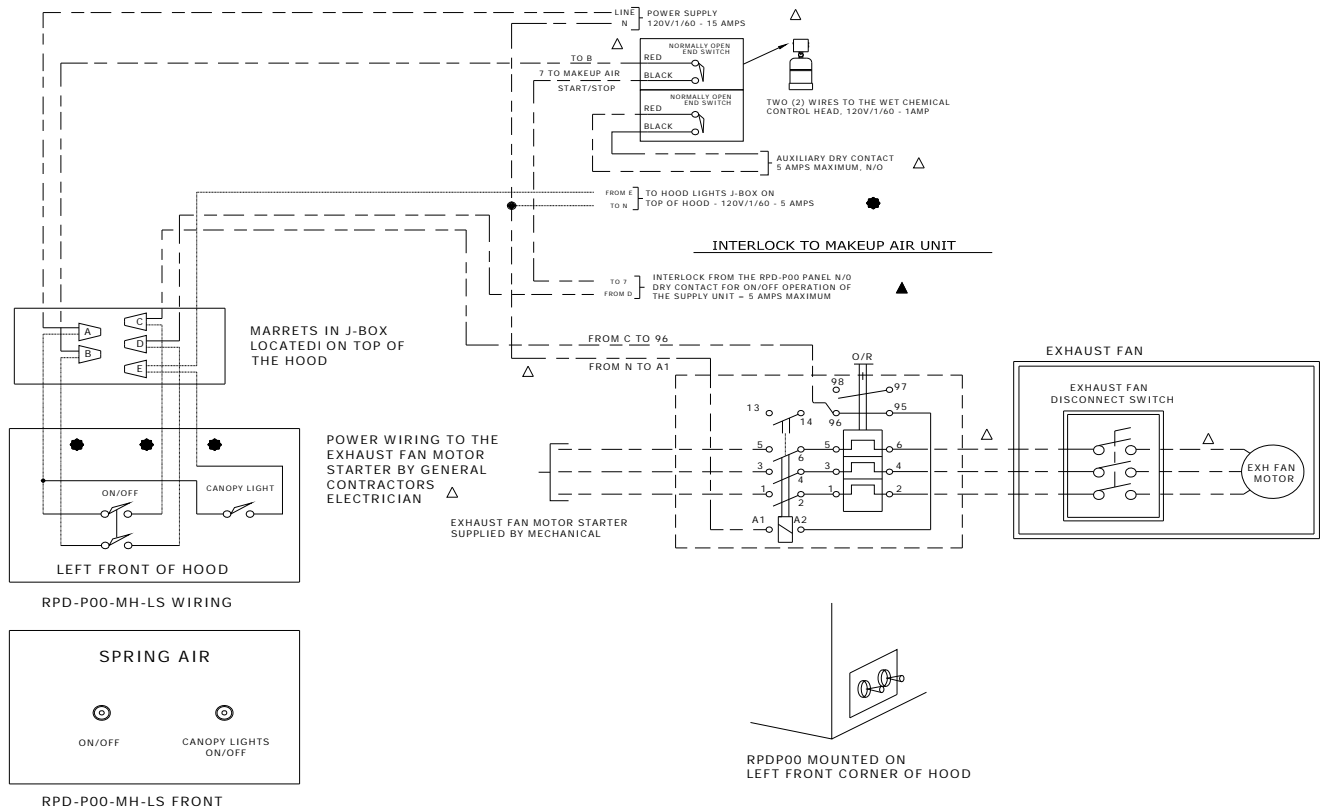
The panel can also be interlocked to a supply fan and the surface fire suppression.
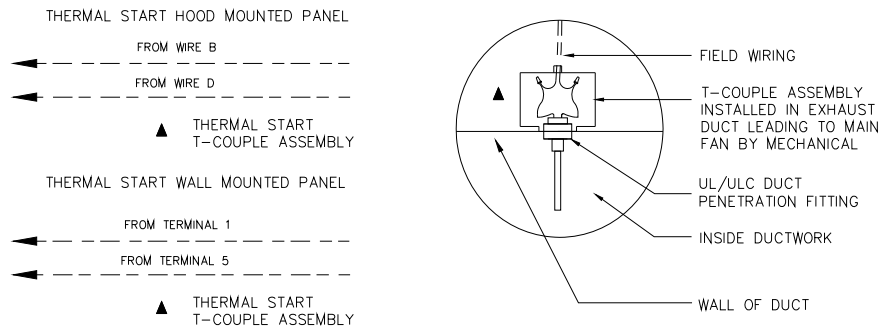

WALL MOUNTED RPD-POO

Wall Mounted RPDPOO Electrical Schematic

Hood mounted Electrical Wiring Schematic

POWER SUPPLY 120V/1/60 - 15 AMPS

LINE N

TO B
7 TO MAKEUP AIR
START/STOP

NORMALLY OPEN END SWITCH
RED
BLACK

NORMALLY OPEN END SWITCH
RED
BLACK

TWO (2) WIRES TO THE WET CHEMICAL CONTROL HEAD, 120V/1/60 - 1AMP

AUXILIARY DRY CONTACT 5 AMPS MAXIMUM, N/O

FROM E
TO N
TO HOOD LIGHTS J-BOX ON TOP OF HOOD - 120V/1/60 - 5 AMPS

INTERLOCK TO MAKEUP AIR UNIT

TO 7
FROM D
INTERLOCK FROM THE RPD-P00 PANEL N/0 DRY CONTACT FOR ON/OFF OPERATION OF THE SUPPLY UNIT – 5 AMPS MAXIMUM

MARRETS IN J-BOX LOCATEDI ON TOP OF THE HOOD

A C
B D
   E

FROM C TO 96
FROM N TO A1

POWER WIRING TO THE EXHAUST FAN MOTOR STARTER BY GENERAL CONTRACTORS ELECTRICIAN

EXHAUST FAN MOTOR STARTER SUPPLIED BY MECHANICAL

ON/OFF   CANOPY LIGHT

LEFT FRONT OF HOOD

RPD-P00-MH-LS WIRING

O/R
98 97
13 14 96 95
5   5   6
3   6   3   4
1   4   1   2
   2
A1 A2

EXHAUST FAN

EXHAUST FAN DISCONNECT SWITCH

EXH FAN MOTOR

RPDP00 MOUNTED ON LEFT FRONT CORNER OF HOOD

SPRING AIR

ON/OFF   CANOPY LIGHTS ON/OFF

RPD-P00-MH-LS FRONT

The RPD-POO hood mounted panel is CSA certified, UL listed, and housed in a J-box. The controller includes a fan on/off switch and a canopy light on/off switch. The canopy light switch is connected directly to the canopy lights install on the roof of the hood. The fan on/off switch wiring is run to a J-box mounted on the roof of the hood. The RPD-POO panel can also be interlocked to a supply fan and the surface fire suppression.

Thermal Start Option

In some jurisdiction a thermal-start is a requirement of the International Mechanical Code. Should the duct temperature rise to indicate that there is cooking under the hood then the exhaust fan must turn on automatically. The Spring Air Systems thermal start uses a T-couple assembly mounted in the hood exhaust duct collar with a UL/ULC duct penetration fitting. When the hoods are supplied by Spring Air Systems the T-Couple is factory installed. When the hoods are by others the T-Couple are shipped loose for installation by others. The T-Couple temperature setting is adjustable and factory set to 100F (38C)

THERMAL START HOOD MOUNTED PANEL
FROM WIRE B
FROM WIRE D
THERMAL START T–COUPLE ASSEMBLY

THERMAL START WALL MOUNTED PANEL
FROM TERMINAL 1
FROM TERMINAL 5
THERMAL START T–COUPLE ASSEMBLY

FIELD WIRING
T–COUPLE ASSEMBLY INSTALLED IN EXHAUST DUCT LEADING TO MAIN FAN BY MECHANICAL
UL/ULC DUCT PENETRATION FITTING
INSIDE DUCTWORK
WALL OF DUCT

Specification

Spring Air Systems commercial kitchen exhaust controller model RPD-POO for hood or wall mounting. The control is complete with fan on/off and canopy light on/off switches. The RPD-POO can be interlocked to the supply fan and the surface fire suppression system.

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