Ventilation Control Quick-Start

WARNING!!

Installation of this equipment should only be performed by a qualified professional. Any alteration to the internal wiring will void warranty and UL 508A listing.

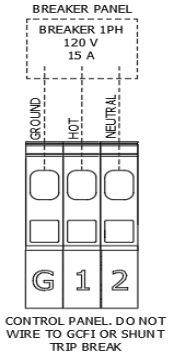
Electrical Connections

REFER TO WIRING DIAGRAM FOR SPECIFIC MODEL

Power for Controls

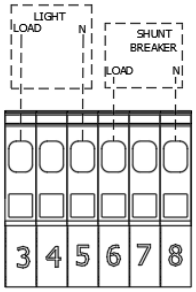
115 VAC, power to controls (Terminal 1, 2, and G)

BREAKER PANEL TO
PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAK SIZE SHOWN IS
MAXIMUM ALLOWED



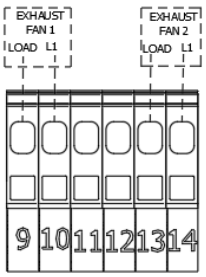
Power for lights/shunt trip (powered from control panel)

115 VAC, power to lights (Terminal 3, 4, and 5) and shunt trip (Terminal 6, 7 and 8)



Connection for Exhaust Fan Controls

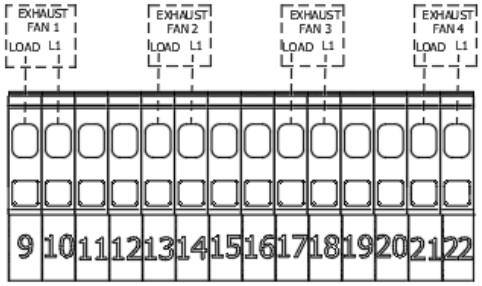
1351 Figure 1.0



1351 – Figure 1.0

115 VAC, power to controls (Terminal 9) power to fan (Terminal 10)
115 VAC, power to controls (Terminal 13) power to fan (Terminal 14)

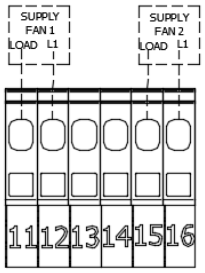
1353 Figure 1.1



1353 – Figure 1.1
115 VAC, power to controls (Terminal 9) power to fan (Terminal 10)
115 VAC, power to controls (Terminal 13) power to fan (Terminal 14)
115 VAC, power to controls (Terminal 17) power to fan (Terminal 18)
115 VAC, power to controls (Terminal 21) power to fan (Terminal 22)

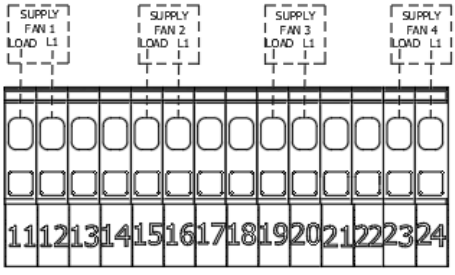
Connection for Supply Fan Controls

1351 Figure 1.2



1351 – Figure 1.2
115 VAC, power to controls (Terminal 11) power to fan (Terminal 12)
115 VAC, power to controls (Terminal 15) power to fan (Terminal 16)

1353 Figure 1.3

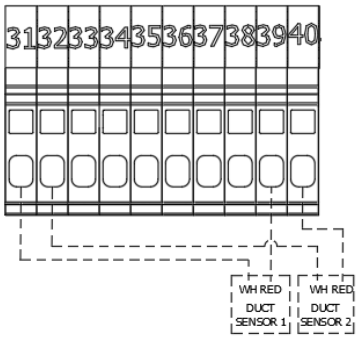


1353 – Figure 1.3
115 VAC, power to controls (Terminal 11) power to fan (Terminal 12)
115 VAC, power to controls (Terminal 15) power to fan (Terminal 16)

115 VAC, power to controls (Terminal 19) power to fan (Terminal 20)
115 VAC, power to controls (Terminal 23) power to fan (Terminal 24)

Signal for Duct Thermostat

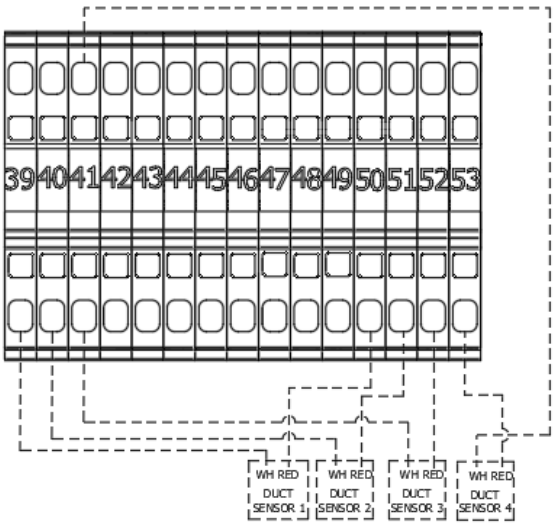
1351 Figure 2.0



1351 – Figure 2.0

115 VAC, signal power from Duct Thermostat (Mounted on roof of hood) terminals 31 and 39
115 VAC, signal power from Duct Thermostat (Mounted on roof of hood) terminals 32 and 40

1353 Figure 2.1



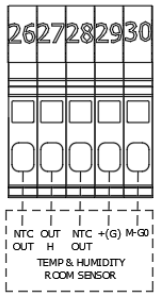
1353 – Figure 2.1

115 VAC, signal power from Duct Thermostat (Mounted on roof of hood) terminals 39 and 50
115 VAC, signal power from Duct Thermostat (Mounted on roof of hood) terminals 40 and 51
115 VAC, signal power from Duct Thermostat (Mounted on roof of hood) terminals 41 and 52
115 VAC, signal power from Duct Thermostat (Mounted on roof of hood) terminals 41 and 53

Connection for Room Temperature/Humidity Sensor

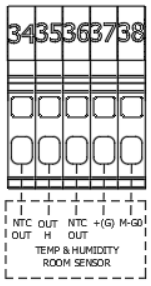
NOTE: WIRE TO CONTROL BOARD. INSTALL SENSOR IN ROOM AWAY FROM HEAT SOURCES. DO NOT INSTALL SENSOR ON CEILING GRID

1351 Figure 3.0



1351 – Figure 3.0
NTC OUT (Terminal 26), OUT H (Terminal 27), NTC OUT(Terminal 28), +(G) (Terminal 29), M-GO(Terminal 30)

1353 Figure 3.1

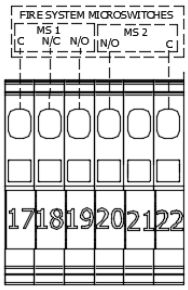


1353 – Figure 3.1
NTC OUT (Terminal 34), OUT H (Terminal 35), NTC OUT(Terminal 36), +(G) (Terminal 37), M-GO(Terminal 38)

Signal for Fire System

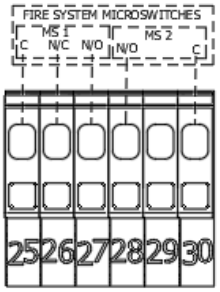
Low Voltage 18/2 wire

1351 Figure 4.0



1351 – Figure 4.0
MS1 - Common (Terminal 17), N/C (Terminal 18), N/O (Terminal 19)
MS2 - Common (Terminal 22), N/O (Terminal 20)

1353 Figure 4.1

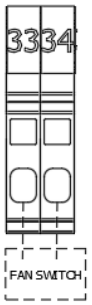


1353 – Figure 4.1
MS1 - Common (Terminal 25), N/C (Terminal 26), N/O (Terminal 27)
MS2 - Common (Terminal 30), N/C (Terminal 28)

Wiring for Fan Switch

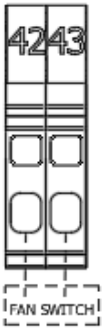
Low Voltage 18/2 wire

1351 Figure 5.0



1351 – Figure 5.0
FS - (Terminal 33), (Terminal 34)

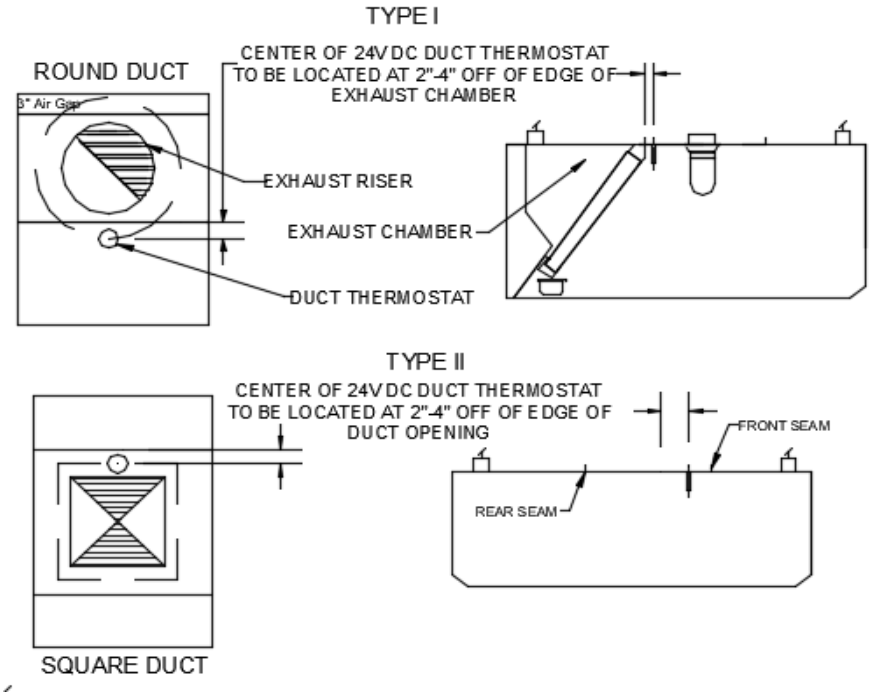
1353 Figure 5.1



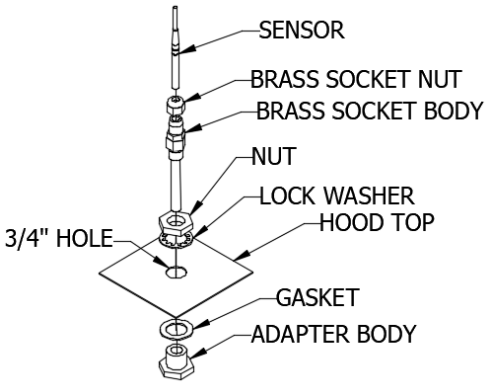
1353 – Figure 5.1
FS - (Terminal 42), (Terminal 43)

Typical Hood Temperature Sensor Installation

TEMPERATURE SENSOR LOCATION Figure 6.0



HOOD TEMPERATURE SENSOR INSTALLATION Figure 6.1



- Drill ¾” hole in desired location (as determined from above).
- Place gasket on adapter body insert into ¾” hole
- Add lock washer and nut and tighten
- Screw brass socket body into adapter

- Insert temperature sensor into nickel-coated brass socket
- Tighten nickel-coated brass socket nut around sensor.

VFD Fan Wiring – See Manual

Connection Checklist

- ☐ Main Control Panel Power
- ☐ Power in and out for ALL fans
- ☐ BOTH Fire Micro-Switches
- ☐ Exhaust Fan Switch
- ☐ Supply Fan Switch
- ☐ Light Switch
- ☐ Hood Thermostat(s)