

**GROTON CONSOLIDATED MIDDLE SCHOOL
GROTON, CONNECTICUT
STATE PROJECT NO. 059-0190 N
POST-BID ADDENDUM NO. 8
April 25, 2019**

**THE BID DUE DATE FOR BID PACKAGES 1.10L - LOCKERS AND
1.11 - FOOD SERVICE EQUIPMENT REMAINS
TUESDAY, APRIL 30, 2019 @ 2:00 P.M.**

PLEASE SUBMIT ONE ORIGINAL AND ONE COPY OF YOUR BID. THE FOLLOWING DOCUMENTS MUST BE INCLUDED IN YOUR BID, OR YOUR PROPOSAL WILL BE DEEMED NON-RESPONSIVE:

1. FORM OF PROPOSAL
2. BID SECURITY (BID BOND OR CERTIFIED CHECK) - EXCEPTION: Bid Package 1.10L - Lockers
3. CTDAS UPDATE STATEMENT (if bid exceeds \$500,000.00)

I. REVISIONS TO SPECIFICATIONS

None.

II. REVISIONS TO TECHNICAL SPECIFICATIONS

1. Specification Section 11 4000 - Food Service Equipment

- a. Revise Paragraph 4.29
ITEM NO. 30 - VENTILATOR WITH HEAT SENSOR ONE REQUIRED

Add Paragraph D as follows:

- D. The food service equipment vendor shall provide a UL / NFPA compatible manual balancing damper on the hood structure discharge throat flange. Device to either be field or factory installed per governing code. Manual Volume Damper shall be equal to ZH Zoneflow 10" Wide (NFPA 96 & UL compatible for installation onto commercial kitchen exhaust system), refer to cut sheet issued per Post-Bid Addendum No. 8.

- b. Revise Paragraph 4.33
ITEM NO. 34 - VENTILATOR WITH HEAT SENSOR ONE REQUIRED

Add Paragraph D as follows:

- D. The food service equipment vendor shall provide a UL / NFPA compatible manual balancing damper on the hood structure discharge throat flange. Device to either be field or factory installed per governing code. Manual Volume Damper shall be equal to ZH Zoneflow 10" Wide (NFPA 96 & UL compatible for installation onto commercial kitchen exhaust system), refer to cut sheet issued per Post-Bid Addendum No. 8.

- c. Revise Paragraph 4.34
ITEM NO. 35 - FIRE SUPPRESSION SYSTEM

ONE REQUIRED

Add Paragraph E as follows:

- E. Note: Item No. 34 – Ventilator with Heat Sensor shall be provided with

“Note left end of Ventilator shall be provided with additional 1'-0" long x 5'-9" wide section to encompass Fire Suppression System, Item No. 35, complete with hinged access door on 5'-9" end to access system. Provide all necessary structural support for Fire Suppression System.”

The food service equipment vendor shall provide and demonstrate the means and method for installation of operational fire suppression system piping with distribution to both Item Nos. 30 and 34 based upon the locations shown on the contract drawings.

III. REVISIONS TO DRAWINGS

None.

IV. ATTACHMENTS TO ADDENDUM

<u>Description</u>	<u>Pages</u>
Zoneflow ZM & ZH Zoneflow Dampers Cut Sheet	2

END OF POST-BID ADDENDUM NO. 8

Zoneflow Dampers

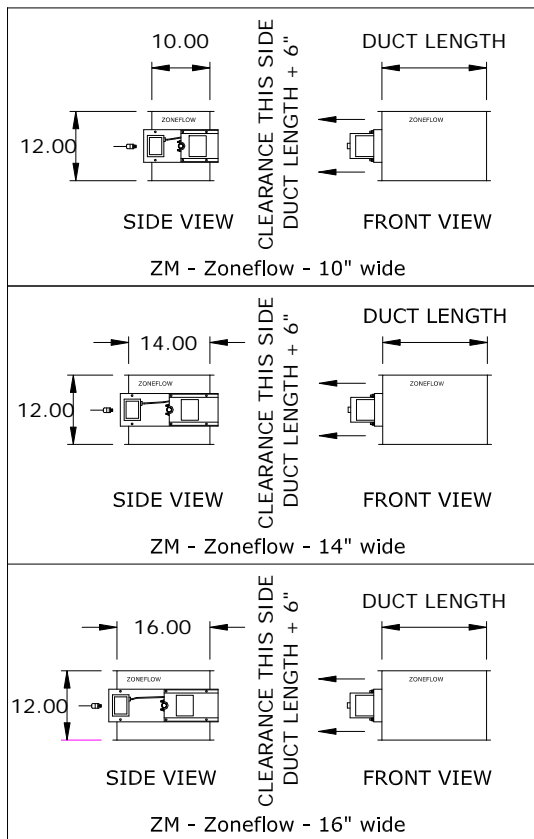
Exhaust Volume Control Dampers

Zoneflow ZM & ZH

General Description

ZM Zoneflow Series:

The Spring Air Systems ZM ZoneFlow is designed to be installed in a commercial kitchen NFPA-96 exhaust duct to automatically modulate or balance the exhaust air volume between multiple hoods connected to a common fan.



The ZM ZoneFlow is UL/ULC listed and can be supplied loose or welded to the exhaust duct collar of any Spring Air Systems hood. The ZM Zoneflow provides automatic modulation of the commercial kitchen hood exhaust volume. The ZM Zoneflow is powered by either 24VDC or 24VAC and controlled using a 4-20 milliamp signal. The ZM Zoneflow damper position is modulated to balance a series of individual hoods connected to one exhaust fan or to provide demand ventilation control of a series of hoods connected to one exhaust fan using the Spring Air Truflow system.

The ZM ZoneFlow is 12" deep in the direct of exhaust air flow and matches the length and width dimensions of the hood exhaust duct collar. The inlet and outlet of the ZM ZoneFlow has a 1" perimeter flange. The ZM

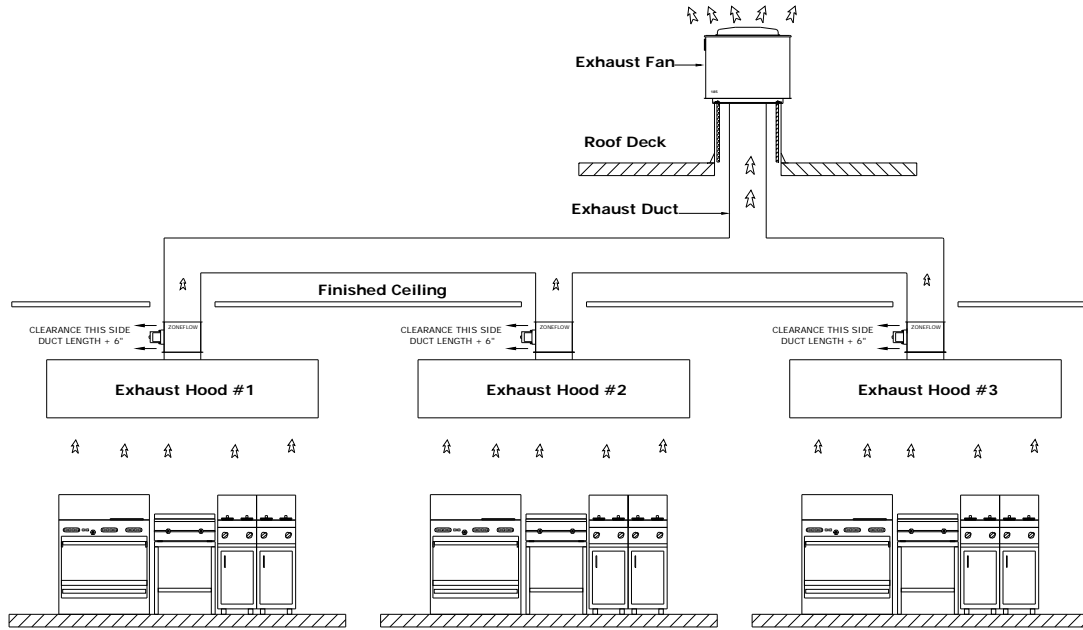


ZoneFlow assembly includes a removable, bolted, carbon steel, access door sealed with high temperature gasket. The access door is removable for inspection and cleaning of the internal control damper and interior duct. Mounted on the access door is a modulating motor U bolted to the internal control damper shaft. The modulating motor is provided with a protective, painted, steel shield. The modulating motor is factory wired to a J-Box also mounted on the access door. Power and control signal are provided through a CAT5 plug on the J-box. The modulating motor requires 24VDC or 24VAC power and a 4-20 milliamp control signal.

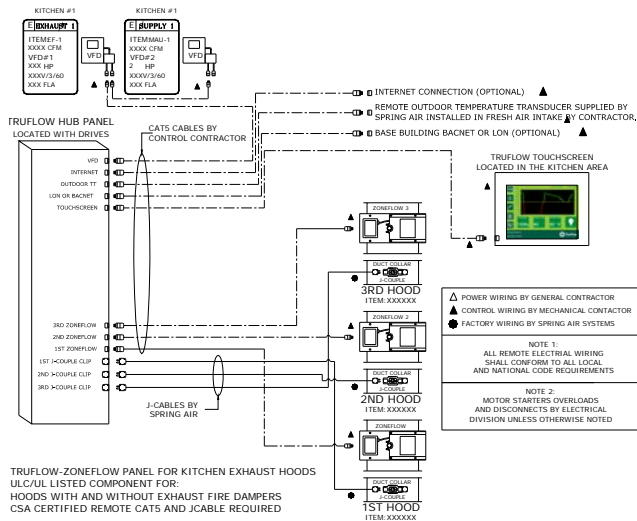
ZH Zoneflow Series:

The Spring Air Systems ZH ZoneFlow is designed to be installed in a commercial kitchen NFPA-96 exhaust duct to manually balance the exhaust air volume between multiple hoods connected to a common fan. The ZH ZoneFlow is UL/ULC listed and can be supplied loose or welded to the exhaust duct collar of any Spring Air Systems hood. The ZH Zoneflow damper position is manually adjusted to balance a series of individual hoods connected to one exhaust fan

The ZH ZoneFlow is 12" deep in the direct of exhaust air flow and matches the length and width dimensions of the hood exhaust duct collar. The inlet and outlet of the ZH ZoneFlow has a 1" perimeter flange. The ZH ZoneFlow assembly includes a removable, bolted, carbon steel, access door sealed with high temperature gasket. The access door is removable for inspection and cleaning of the internal control damper and interior duct. Mounted on the access door is a locking quadrant to manually adjust the control damper.



ONE EXHAUST FAN/THREE HOODS WITH ZM ZONEFLOW



TRUFLOW-ZONEFLOW PANEL FOR KITCHEN EXHAUST HOODS
ULC/UL LISTED COMPONENT FOR:
HOODS WITH AND WITHOUT EXHAUST FIRE DAMPERS
CSA CERTIFIED REMOTE CAT5 AND J-CABLE REQUIRED

Truflow-Zoneflow

The ZM Zoneflow can be connected to a Truflow-Zoneflow Demand Ventilation control panel. Each ZM Zoneflow is individually modulated to match the exhaust volume required with the amount of cooking under the hood. As the control damper within the ZM Zoneflow opens and closes the Truflow-Zoneflow panel modulates the exhaust fan variable speed drive to match the total exhaust volume required for each hood. Refer to the Zoneflow Engineering Manual for additional information covering the Truflow-Zoneflow Demand control system.

ZH Zoneflow Manual Series Specification

The Spring Air Systems UL/ULC listed hood shall be supplied with a UL/ULC listed ZH ZoneFlow Manual damper. The ZH ZoneFlow shall be supplied loose or mounted to the hood duct collar. The ZH ZoneFlow shall be 12" deep in the direct of air flow and match the length and

width dimensions of the hood exhaust duct collar. The inlet and out of the ZH ZoneFlow damper shall have a 1" perimeter flange. The ZH ZoneFlow assembly shall include a bolted access door with high temperature gasket. The access door is easily removable for inspection and cleaning of the ZH ZoneFlow damper and duct interior. The access door shall include a locking quadrant for fixing the ZH ZoneFlow balancing damper position.

Engineering Data

Item Number: _____
 Model Number: ZH-_____
 Exhaust Volume: _____
 No of Exhaust Duct Collars: _____
 Size of Exhaust Duct collar: _____
 Zoneflow Type: Manual with locking quadrant

ZM Zoneflow Automatic Series Specification

The Spring Air Systems UL/ULC listed hood shall be supplied with a UL/ULC listed ZM ZoneFlow Modulating damper. The ZM ZoneFlow shall be supplied loose or mounted to the hood duct collar. The ZM ZoneFlow shall be 12" deep in the direct of air flow and match the length and width dimensions of the hood exhaust duct collar. The inlet and out of the ZM ZoneFlow shall have a 1" perimeter flange. The ZM ZoneFlow assembly shall include a bolted access door with high temperature gasket. The access door is easily removable for inspection and cleaning of the ZM ZoneFlow damper and duct interior. The access door shall include a modulating damper motor connected to a junction box with a CAT5 connection. The modulating damper motor requires 24VDC power and a 4-24millamp control signal. The hood shall have 3 incandescent lights evenly spaced along the length of the hood. All lights common to one section of the hood to be inter-wired by Spring Air Systems.

Engineering Data

Item Number: _____
 Model Number: ZM-_____
 Exhaust Volume: _____
 No of Exhaust Duct Collars: _____
 Size of Exhaust Duct collar: _____
 Zoneflow Type: Modulating with modulating motor