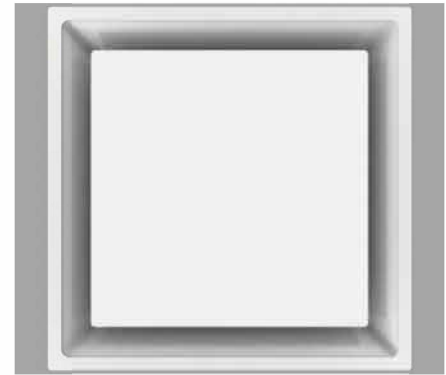
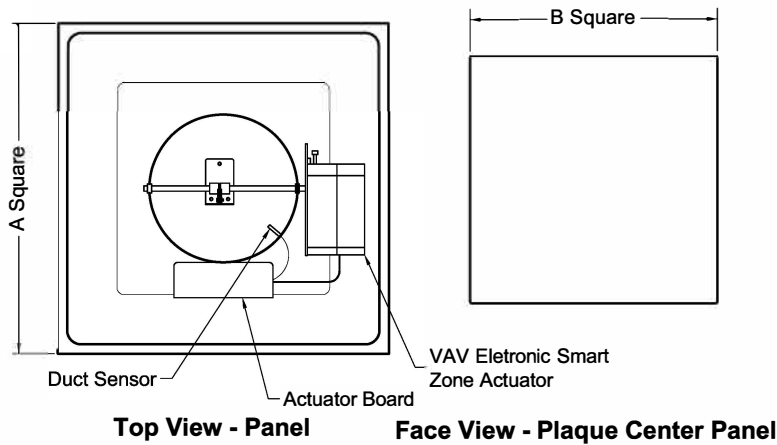


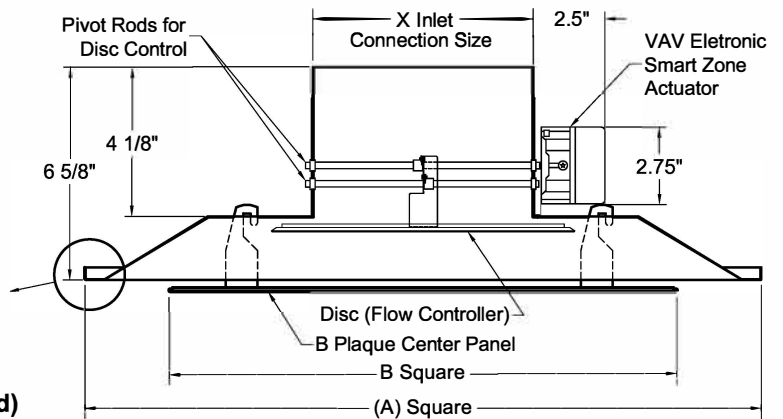
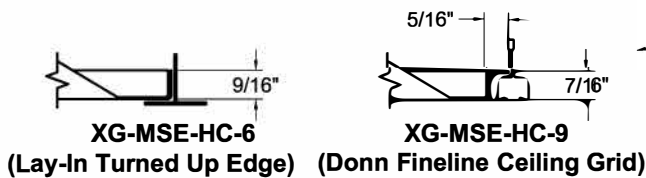
VAV Electronic Smart Zone Diffuser

Models: **XG -MSE-HC 6-12** Electronically Controlled Variable Air Volume Diffuser - Lay-In Turned Up Edge 12x12 Panel
XG- MSE-HC 6-24 Electronically Controlled Variable Air Volume Diffuser - Lay-In Turned Up Edge 24x24 Panel
XG -MSE-HC 9-12 Electronically Controlled Variable Air Volume Diffuser - Donn Finline Ceiling Grid 12x12 Panel
XG -MSE-HC 9-24 Electronically Controlled Variable Air Volume Diffuser - Donn Finline Ceiling Grid 24x24 Panel



X = Inlet sizes (Dia. in Inches)

Model	A - Diffuser Panel	B - Plaque Panel	X
XG-MSE-HC 6-12	12"	9"	6 & 8
XG-MSE-HC 6-24	24"	18"	6 - 14
XG-MSE-HC 9-12	12"	9"	6 & 8
XG-MSE-HC 9-24	24"	18"	6 - 14



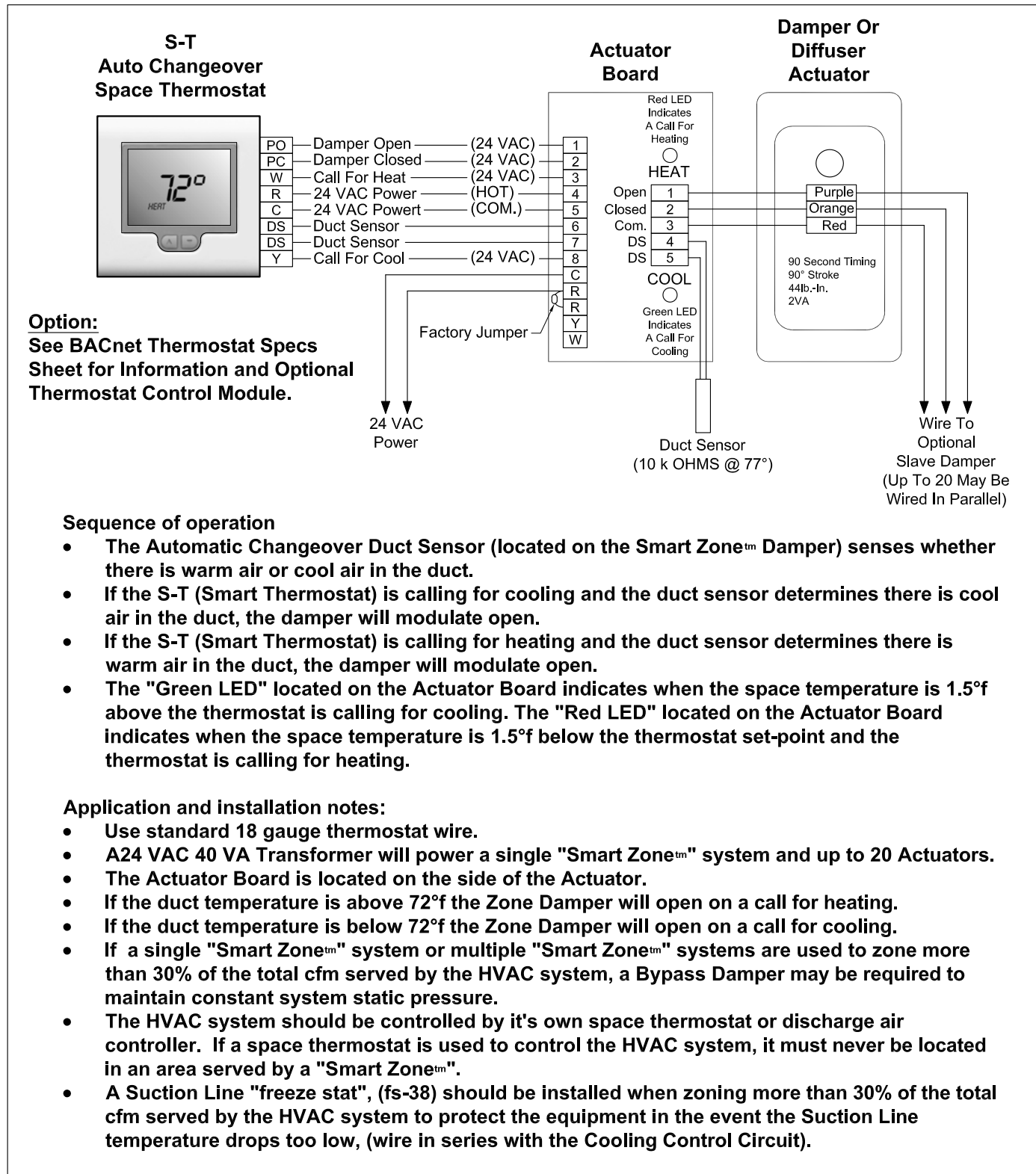
Construction:
 Unitary stamped seamless backpan with Removable Face Plate. Steel construction with Baked White Enamel Finish. 4-way discharge pattern.

Operation:
 Incorporates an Integral Modulating Disk that continually regulates the volume of Supply Air in response to the Wall-Mounted Thermostat.

Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: 01 White Baked Enamel	XG-BAF - Directional Baffles XG-BPRA - By-Pass Relief Adapter	Standard: ST - Auto Changeover Space Thermostat Option: BACnet (Network) Thermostat Control Transformer	<ul style="list-style-type: none"> ● 24 gauge electro-galvanized steel. ● Panel size 12x12 & 24x24. ● Inlet sizes 6" & 8" for 12x12 Panel ● Inlet sizes 6" thru 14" for 24x24 Panel ● Controls: Modulating Wall-Mounted Thermostatic Control. ● Electrical: 24Volt, 2VA, Floating Point, 90 ● Sec. Timing, 44lb.-in.

**Smart Zone Modulating
Stand-Alone Zone Damper Assembly**

 Models: **XG-MSE-HC** Sequence Of Operation, Application And Installation Notes


Smart Zone S-T Smart Thermostat Modulating Zone Thermostat With Auto Changeover

Models: XG-MSE-HC Smart Zone S-T Thermostat With Auto Changeover

SMART ZONE S-T SMART THERMOSTAT MODULATING ZONE THERMOSTAT WITH AUTO CHANGEOVER



DISASSEMBLING THERMOSTAT

Insert a small coin (dime) into the release slot located on the bottom of the thermostat. Gently twist the coin to release the thermostat from the subbase. Avoid twisting the case as this may stress the LCD and cause it to crack or bend the wiring terminal connection pins.

SWITCH FUNCTIONS

There are eight dip switches located on the thermostat PC board. Only dip switches 1, 2 and 3 are active.

SWITCH 1 - Switch 1 is used to lock the thermostat after setup is completed. When the thermostat is locked (ON position) a padlock icon will show on the LCD. When locked, only setpoint changes and status functions can be accessed by the user. **Do not set Switch 1 in the ON position until all SETUP functions are completed.**

SWITCH 2 - Switch 2 is used to display the space temperature and setpoint in Celsius (ON position) or Fahrenheit (OFF position). Select Celsius or Fahrenheit before proceeding to the thermostat SETUP menu.

SWITCH 3 - Switch 3 is used to select two-position (ON) or fully modulating (OFF) damper control to best suit the specific application requirement.

KEY FUNCTIONS

ON/OFF KEY - When the S-T is not locked, this key allows the thermostat to be turned ON or OFF. When in the OFF position, the damper is also driven closed

STATUS KEY - Pressing the STATUS key displays the UNIT number, ZONE number, DUCT temperature and DAMPER position.

UP/DOWN KEYS - These keys are used to increase or decrease the setpoint as well as change thermostat setup values.

ENTER KEY - This key is used to enter changes as well as exit the setup menu. (Refer to **Installation / Operation Manual** for complete setup instructions)

OPERATION

The duct sensor wired to the S-T is designed to select the mode of operation of the damper. If the discharge air temperature is above 72° F, the damper will open on a call for heating. If the discharge air temperature is below 72° F, the damper will open on a call for cooling

TERMINAL DESIGNATIONS

C	24 Vac (Common)
R	24 Vac (Hot)
PO	Power Open
PC	Power Close
DS (2)	Duct Sensor
Y	Cooling Relay
W	Heating Relay
A / B	Modbus Communications

FACTORY DEFAULT SETTINGS

Minimum Heating Damper Position	10%
Minimum Cooling Damper Position	10%
Maximum Damper Position	100%
Unit Number	00
Zone Number	00
Heating Limit	76° F
Cooling Limit	68° F
Actuator Speed	90
Modbus Address	01
Temperature Calibration Offset	0