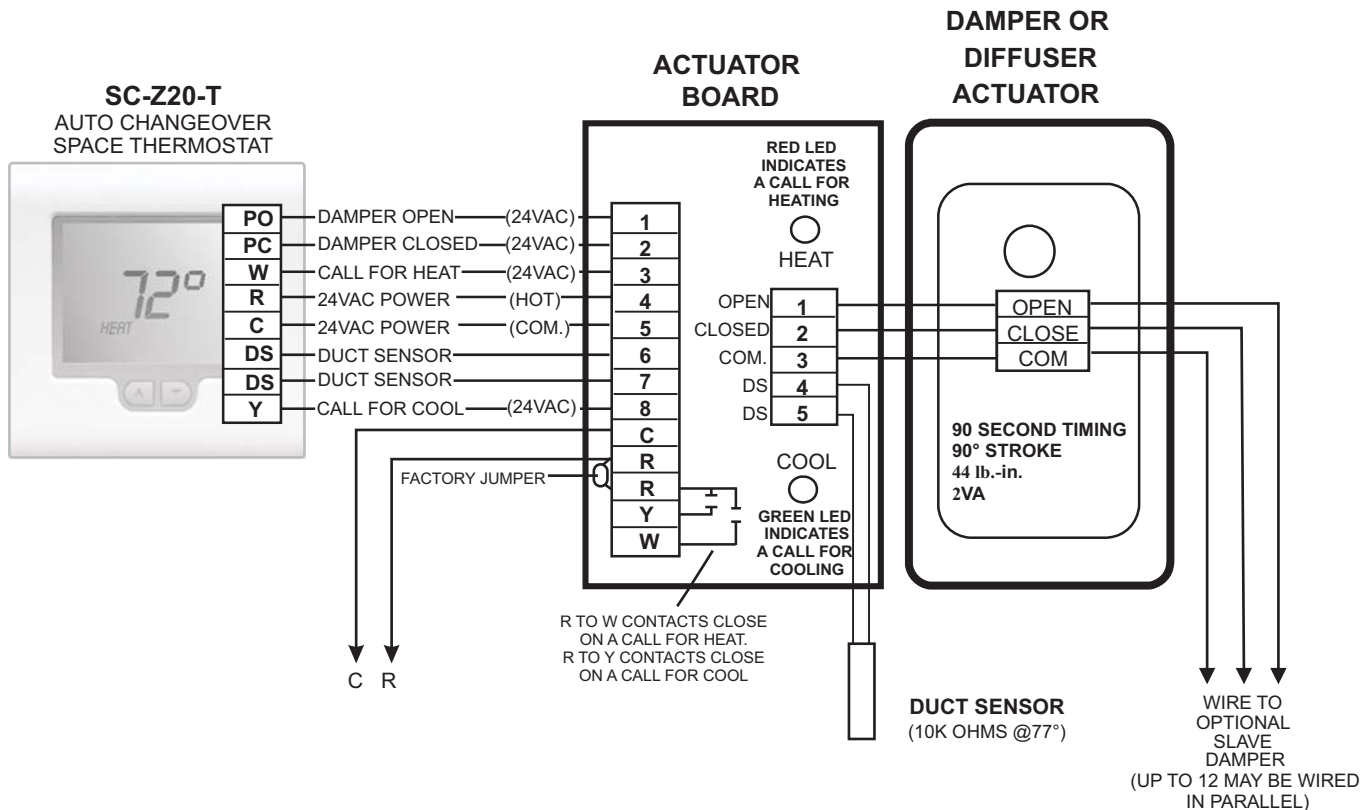




SC-ZONE ONE™ MODULATING STAND-ALONE ZONE DAMPER ASSEMBLY



SEQUENCE OF OPERATION:

The automatic changeover duct sensor (located on the Zone One™ damper) senses whether there is warm air or cool air in the duct. If the SC-Z20-T thermostat is calling for cooling and the duct sensor determines there is cool air in the duct, the damper will modulate open. If the SC-Z20-T thermostat is calling for heating and the duct sensor determines there is warm air in the duct, the damper will modulate open.

The green LED located on the actuator board indicates when the space temperature is 1.5° F above the thermostat setpoint and the thermostat is calling for cooling. The red LED located on the actuator board indicates when the space temperature is 1.5 below the thermostat setpoint and the thermostat is calling for heating.

APPLICATION AND INSTALLATION NOTES:

Use standard 18 gauge thermostat wire.

A 24VAC 40VA transformer will power a single Zone One™ system and up to 20 actuators.

The actuator board is located on the side of the actuator.

If the duct temperature is above 72° F, the zone damper will open on a call for heating.

If the duct temperature is below 72° F, the zone damper will open on a call for cooling.

If a single Zone One™ system or multiple Zone One™ systems are used to zone more than 30% of the total CFM served by the HVAC system, a bypass damper may be required to maintain constant system static pressure.

The HVAC system should be controlled by its own space thermostat or discharge air controller. If a space thermostat is used to control the HVAC system, it must never be located in an area served by a Zone One™.

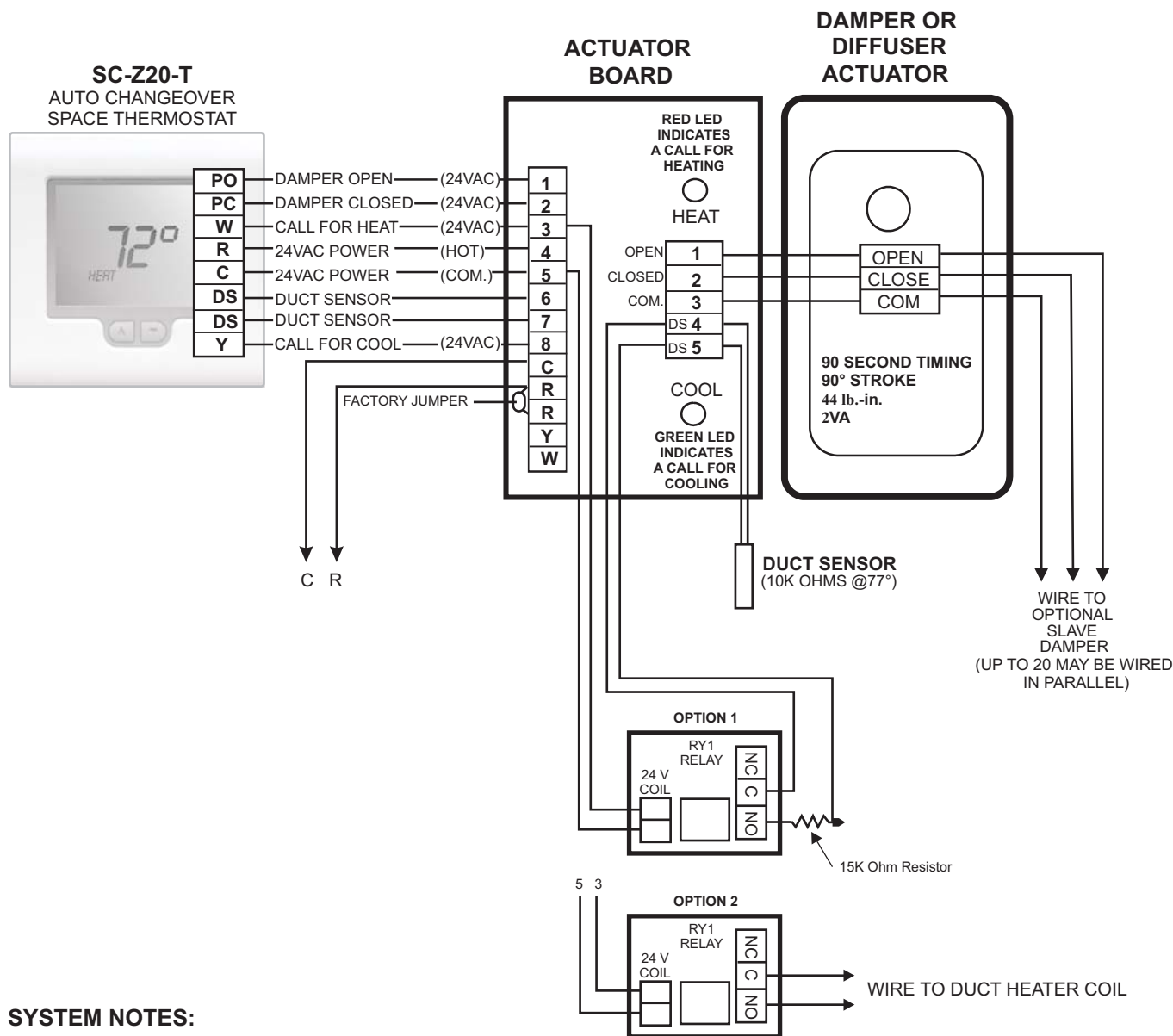
A suction line freeze stat (SC-FS) should be installed when zoning more than 30% of the total CFM served by the HVAC system to protect the equipment in the event the suction line temperature drops too low (Wire in series with the cooling control circuit).



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SC-ZONE ONE™ MODULATING STAND-ALONE ZONE DAMPER ASSEMBLY

WIRING DIAGRAM FOR ZONE HAVING AN ELECTRIC DUCT HEATER



SYSTEM NOTES:

18 gauge plenum-rated thermostat wire is recommended.

A 24VAC 40VA transformer is required to power thermostat and actuator.

A 15K Ohm resistor must be wired to RY-1 relay contacts and paralleled with the duct sensor. The relay coil is wired to terminals 3 and 5 on the actuator board. When the thermostat calls for heating, the relay coil will be energized and the resistor will change the ohms value translating to a higher duct temperature which will drive the damper open. The electric duct heater relay coil can be wired to the actuator board R and W terminals. Remove factory jumper as illustrated.

**SPECIFIED
CONTROLS**

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SC-ZONE ONE SC-Z20-T MODULATING ZONE THERMOSTAT



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 SC-Z20-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 SC-Z20-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

SPECIFIED

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SC-06-1268-051717

APPLICATION:
The model SC-ZD-XX is a round commercial zone control damper assembly that includes a damper, modulating actuator, duct temperature sensor, and actuator control board. The SC-ZD-XX zone damper is used with a SC-Z20-T, P+I zone thermostat.

AVAILABLE SIZES:
Diameters: 6", 8", 10", 12", 14", 16", 18", 20"
Length: 6" - 20" diameter = 10"

CONSTRUCTION:
Shell Material: 18 gauge spiral steel
Damper Material: 18 gauge
Shaft: 1/2" aluminum

AIR FLOW & PRESSURE:
Max static pressure: 2 inches w.c.
Max velocity: 2,000 fpm
CFM: 0 - 4,000 cfm

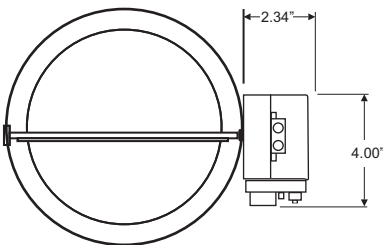
DAMPER ACTUATOR:
24 VAC, 2VA, 3-wire floating point actuator, 90 second stroke

OPERATION:
Continually regulates supply air volume in response to SC-Z20-T thermostat control

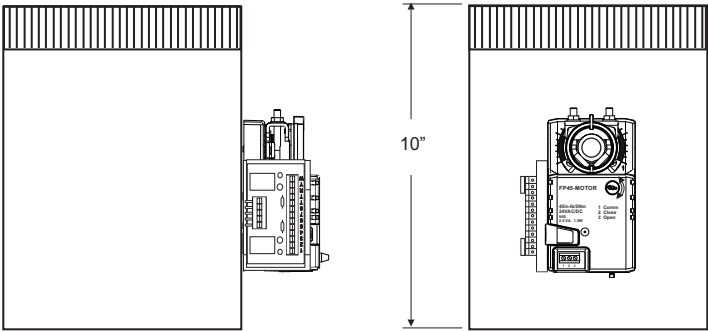
COMPONENTS:
Damper, actuator, PC board and discharge air sensor

AIR HANDLER CONTROL:
Space thermostat
Discharge air controller

WARRANTY:
Damper: 5 Years



DAMPER SIZE	"A" DIMENSION
6"	10"
8"	10"
10"	10"
12"	10"
14"	10"
16"	10"
18"	10"
20"	10"



APPLICATION:

The model SC-SD-XX is a round commercial auxiliary zone control damper assembly that includes a damper and modulating actuator. The SC-SD-XX zone damper can be used as an auxiliary damper when wired to a SC-ZD damper actuator in applications where more than one damper is required in a single zone.

AVAILABLE SIZES:

Diameters: 6", 8", 10", 12", 14", 16", 18", 20"
Length: 6" - 20" diameter = 10"

CONSTRUCTION:

Shell Material: 18 gauge spiral steel
Damper Material: 18 gauge
Shaft: 1/2" aluminum

AIR FLOW & PRESSURE:

Max static pressure: 2 inches w.c.
Max velocity: 2,000 fpm
CFM: 0 - 4,000 cfm

DAMPER ACTUATOR:

24 vac, 2va, 3-wire floating
point actuator, 90 second stroke

COMPONENTS:

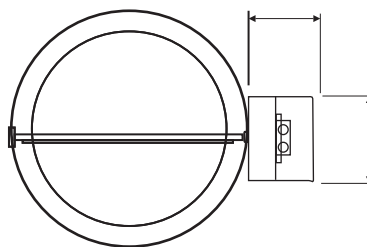
Damper and actuator

AIR HANDLER CONTROL:

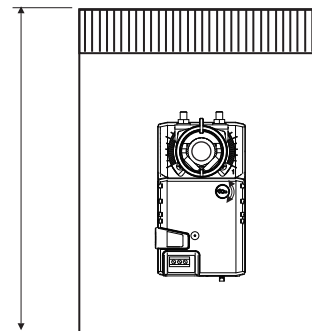
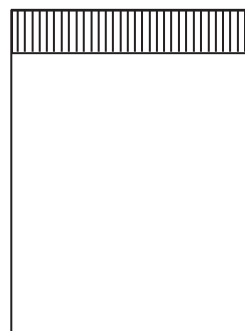
Space thermostat
Discharge air controller

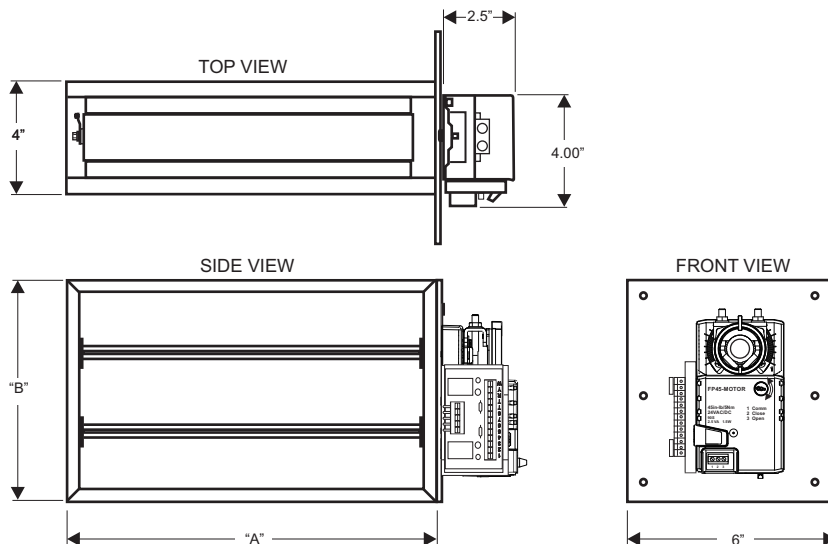
WARRANTY:

Damper: 5 Years



DAMPER SIZE	"A" DIMENSION
6"	10"
8"	10"
10"	10"
12"	10"
14"	10"
16"	10"
18"	10"
20"	10"





APPLICATION:

The model SC-ZD-XXXX is a rectangular commercial zone control damper assembly that includes a damper, modulating actuator, duct temperature sensor, and actuator control board. The SC-ZD-XXXX zone damper is used with a SC-Z20-T, P+I zone thermostat.

AVAILABLE SIZES:

Side mount models are sized width (A) by height (B) with actuator on the (B) dimension.
Bottom mount models are sized width (A) by height (B) with actuator on the (A) dimension.
(A) and (B) dimensions are undercut 1/4".
Standard sizes range from 8" x 8" up to 36" x 24" in 2" increments.

CONSTRUCTION:

Frame: 1/16" extruded aluminum
Blades: 1/16" extruded aluminum (parallel design)
Flange: 1/16" aluminum
Shaft: 1/2" aluminum
Bushings: Nylon

AIR FLOW & PRESSURE:

Max static pressure: 2 inches w.c.
Max velocity: 2,000 fpm
CFM: 0 - 4000 cfm

DAMPER ACTUATOR:

24 vac, 2VA, 3-wire floating
point actuator, 90 second stroke

OPERATION:

Continually regulates supply air
volume in response to SC-Z20-T
thermostat control

COMPONENTS:

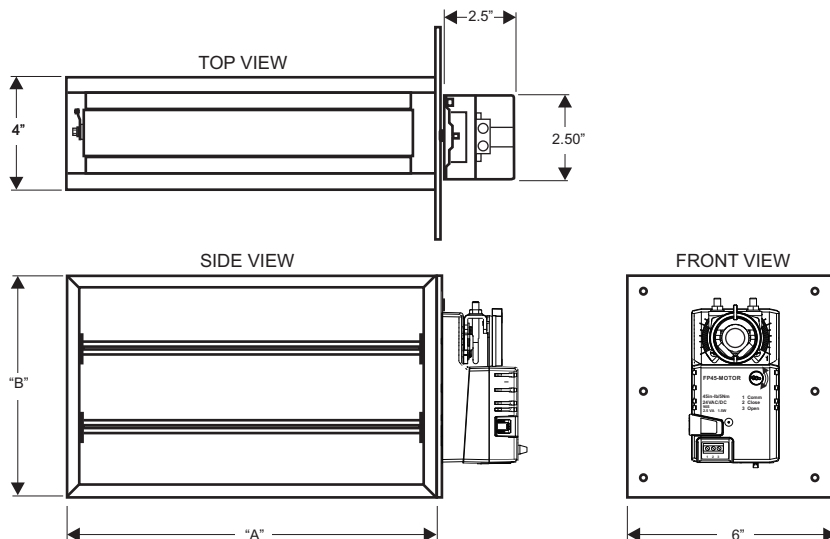
Damper, actuator, PC board
and discharge air sensor

AIR HANDLER:

Space thermostat
Discharge air controller

WARRANTY:

Damper: 5 Years



APPLICATION:

The model SC-SD-XXXX is a rectangular commercial auxiliary zone control damper assembly that includes a damper and modulating actuator. The SC-SD-XXXX can be used as an auxiliary damper when wired to a SC-ZD damper actuator in applications where more than one damper is required in a single zone.

AVAILABLE SIZES:

Side mount models are sized width (A) by height (B) with actuator on the (B) dimension.
Bottom mount models are sized width (A) by height (B) with actuator on the (A) dimension.
(A) and (B) dimensions are undercut 1/4".
Standard sizes range from 8" x 8" up to 36" x 24" in 2" increments.

CONSTRUCTION:

Frame: 1/16" extruded aluminum
Blades: 1/16" extruded aluminum (parallel design)
Flange: 1/16" aluminum
Shaft: 1/2" aluminum
Bushings: Nylon

AIR FLOW & PRESSURE:

Max static pressure: 2 inches w.c.
Max velocity: 2,000 fpm
CFM: 0 - 4000 cfm

DAMPER ACTUATOR:

24 VAV, 2VA, 3-wire floating
point actuator, 90 second stroke

OPERATION:

Continually regulates supply air
volume in response to SC-Z20-T
thermostat control

COMPONENTS:

Damper and actuator

AIR HANDLER:

Space thermostat
Discharge air controller

WARRANTY:

Damper: 5 Years

APPLICATION:

The Model SC-VD-XX VAV Diffuser is used to vary the supply air volume from a wall-mounted thermostat. The diffuser is designed to maintain the coanda effect (draft free) of discharge air along the ceiling, providing a sustained discharge velocity throughout the volume range. The VAV Diffuser is used with a SC-Z20-T, P+I zone thermostat.

AVAILABLE SIZES:

Face Size: 24" X 24" (23.75" x 23.75")

Neck Size: 6", 8" for 12" x 12" face size
6", 8", 10", 12", 14" for 24" x 24" face size

CONSTRUCTION:

Face Plate: Removable 18 gauge steel with baked white enamel finish
Back Cone: Unitary stamped 18 gauge steel

DIFFUSER ACTUATOR:

24 VAC, 2VA, 3-wire floating point actuator, 90 second stroke

OPERATION:

Diffuser: Integral modulating disk that continually regulates supply air volume in response to thermostat control

Air Volume Range: 118 to 710 cfm

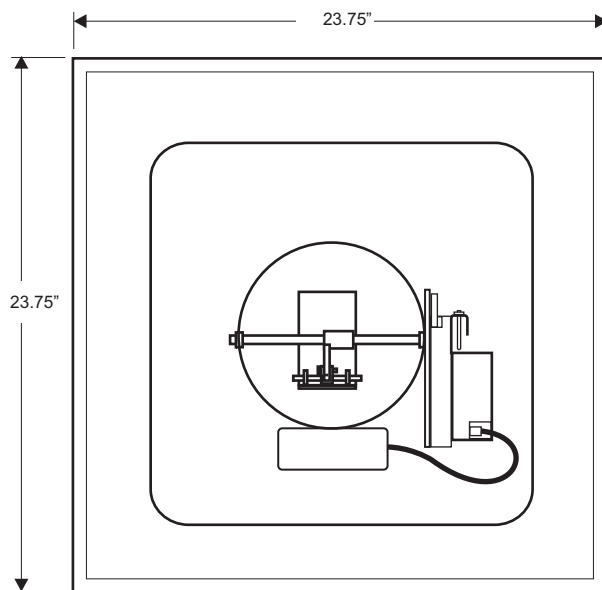
Static Pressure: Not to exceed .25" W.C.

COMPONENTS:

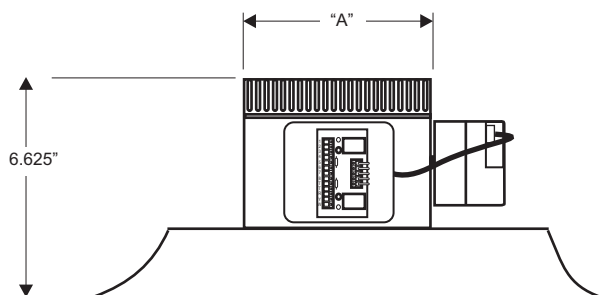
Diffuser, actuator, PC board and discharge air sensor

AIR HANDLER CONTROL:

Space thermostat
Discharge air controller



TOP VIEW



SIDE VIEW

WARRANTY:

Diffuser: 5 Years

ENGINEERING DATA

SC-VD-XX 24" x 24" SC-VD-XX VAV Diffuser Assembly

Part Number and Neck Size	Neck Velocity (FPM)	300	400	500	600	700	800	900	1000	1200	1400
	Velocity Pressure	0.006	0.01	0.016	0.022	0.031	0.04	0.051	0.062	0.09	0.122
SC-VD-06 6" Ak = 0.19	Airflow (CFM)	60	80	100	120	140	160	180	200	240	280
	Total Pressure	0.009	0.011	0.017	0.025	0.034	0.044	0.057	0.070	0.100	0.135
	Horizontal Throw	1-1-2	1-1-4	1-2-4	1-3-5	2-3-6	2-4-7	3-4-8	3-4-9	4-5-11	4-6-11
	Noise Criteria	<15	<15	<15	<15	<15	<15	17	21	28	34
SC-VD-08 8" Ak=0.26	Airflow (CFM)	105	140	175	210	245	280	315	350	420	490
	Total Pressure	0.011	0.018	0.028	0.040	0.055	0.072	0.091	0.112	0.162	0.220
	Horizontal Throw	1-2-4	2-3-6	2-4-7	3-4-9	3-5-10	4-6-12	4-6-12	5-7-13	6-9-14	7-10-15
	Noise Criteria	<15	<15	<15	<15	<15	17	21	25	32	38
SC-VD-10 10" Ak=0.34	Airflow (CFM)	165	220	275	330	385	440	495	550	660	770
	Total Pressure	0.017	0.029	0.043	0.060	0.082	0.108	0.136	0.168	0.243	0.331
	Horizontal Throw	2-3-7	3-4-8	3-5-10	4-6-12	5-7-13	5-8-14	6-9-15	7-10-16	8-12-18	10-13-19
	Noise Criteria	<15	<15	<15	<15	15	20	24	28	35	41
SC-VD-12 12" Ak=0.40	Airflow (CFM)	240	310	390	470	550	630	710	790	940	1100
	Total Pressure	0.023	0.037	0.059	0.085	0.115	0.151	0.191	0.237	0.338	0.461
	Horizontal Throw	2-4-7	4-5-11	5-7-14	5-8-15	6-9-16	7-11-17	8-12-18	9-14-19	11-15-21	13-16-23
	Noise Criteria	<15	<15	<15	<15	18	23	27	31	38	43
SC-VD-14 14" Ak=0.51	Airflow (CFM)	320	430	530	640	750	860	960	1070	1280	1500
	Total Pressure	0.031	0.050	0.078	0.114	0.155	0.202	0.256	0.316	0.453	0.619
	Horizontal Throw	3-4-8	4-7-13	6-8-16	7-10-17	8-12-19	9-13-20	10-15-21	11-16-23	13-17-25	15-19-27
	Noise Criteria	<15	<15	<15	<15	20	25	29	33	40	45

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Units: Total Pressure = in. wc; Velocity Pressure = in. wc; Effective Area (Ak) = ft.².
4. Throw - feet at 150 fpm, 100 fpm and 50 fpm terminal velocities.
5. NC is based upon 10dB room absorption (Re: 10⁻¹² watts) evaluated at 125 thru 4000 Hz octave bands.
6. Flow hoods are recommended for system balancing.



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APPLICATION:

The Model SC-VD-XX-SD VAV Diffuser includes a diffuser and modulating actuator. The SC-VD-XX-SD can be used as an auxiliary damper when wired to a SC-VD-XX diffuser actuator in applications where more than one diffuser is required in a single zone.

AVAILABLE SIZES:

Face Size: 24" X 24" (23.75" x 23.75")

Neck Size: 6", 8" for 12" x 12" face size
6", 8", 10", 12", 14" for 24" x 24" face size

CONSTRUCTION:

Face Plate: Removable 18 gauge steel with baked white enamel finish

Back Cone: Unitary stamped 18 gauge steel

DIFFUSER ACTUATOR:

24 VAC, 2VA, 3-wire floating point actuator, 90 second stroke

OPERATION:

Diffuser: Integral modulating disk that continually regulates supply air volume in response to thermostat control

Air Volume Range: 118 to 710 cfm

Static Pressure: Not to exceed .25" W.C.

COMPONENTS:

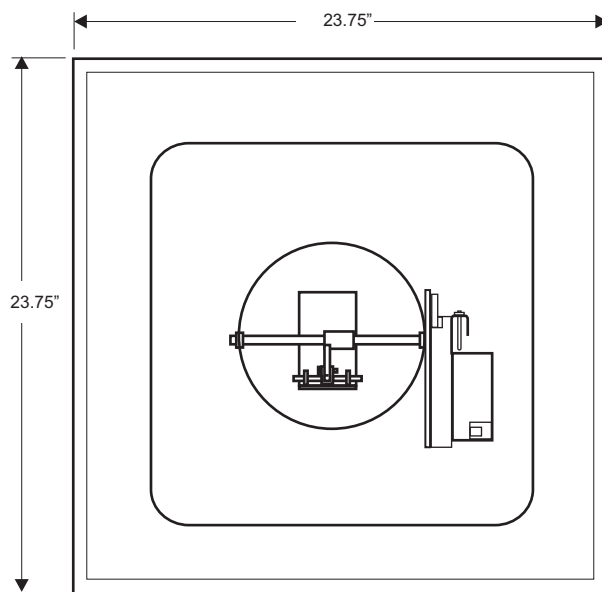
Diffuser and actuator

AIR HANDLER CONTROL:

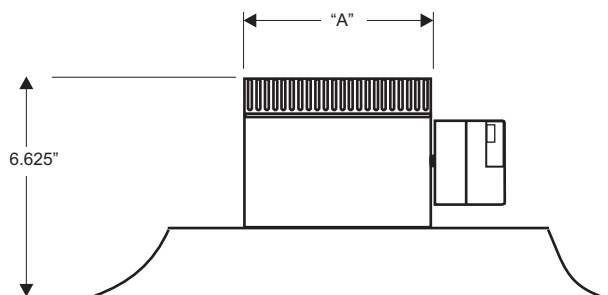
Space thermostat
Discharge air controller

WARRANTY:

Diffuser: 5 Years



TOP VIEW



SIDE VIEW

ENGINEERING DATA

SC-VD-XX-SD 24" x 24" SC-VD-XX-SD Auxiliary VAV Diffuser Assembly

Part Number and Neck Size	Neck Velocity (FPM)	300	400	500	600	700	800	900	1000	1200	1400
	Velocity Pressure	0.006	0.01	0.016	0.022	0.031	0.04	0.051	0.062	0.09	0.122
SC-VD-06-SD 6" Ak = 0.19	Airflow (CFM)	60	80	100	120	140	160	180	200	240	280
	Total Pressure	0.009	0.011	0.017	0.025	0.034	0.044	0.057	0.070	0.100	0.135
	Horizontal Throw	1-1-2	1-1-4	1-2-4	1-3-5	2-3-6	2-4-7	3-4-8	3-4-9	4-5-11	4-6-11
	Noise Criteria	<15	<15	<15	<15	<15	<15	17	21	28	34
SC-VD-08-SD 8" Ak=0.26	Airflow (CFM)	105	140	175	210	245	280	315	350	420	490
	Total Pressure	0.011	0.018	0.028	0.040	0.055	0.072	0.091	0.112	0.162	0.220
	Horizontal Throw	1-2-4	2-3-6	2-4-7	3-4-9	3-5-10	4-6-12	4-6-12	5-7-13	6-9-14	7-10-15
	Noise Criteria	<15	<15	<15	<15	<15	17	21	25	32	38
SC-VD-10-SD 10" Ak=0.34	Airflow (CFM)	165	220	275	330	385	440	495	550	660	770
	Total Pressure	0.017	0.029	0.043	0.060	0.082	0.108	0.136	0.168	0.243	0.331
	Horizontal Throw	2-3-7	3-4-8	3-5-10	4-6-12	5-7-13	5-8-14	6-9-15	7-10-16	8-12-18	10-13-19
	Noise Criteria	<15	<15	<15	<15	15	20	24	28	35	41
SC-VD-12-SD 12" Ak=0.40	Airflow (CFM)	240	310	390	470	550	630	710	790	940	1100
	Total Pressure	0.023	0.037	0.059	0.085	0.115	0.151	0.191	0.237	0.338	0.461
	Horizontal Throw	2-4-7	4-5-11	5-7-14	5-8-15	6-9-16	7-11-17	8-12-18	9-14-19	11-15-21	13-16-23
	Noise Criteria	<15	<15	<15	<15	18	23	27	31	38	43
SC-VD-14-SD 14" Ak=0.51	Airflow (CFM)	320	430	530	640	750	860	960	1070	1280	1500
	Total Pressure	0.031	0.050	0.078	0.114	0.155	0.202	0.256	0.316	0.453	0.619
	Horizontal Throw	3-4-8	4-7-13	6-8-16	7-10-17	8-12-19	9-13-20	10-15-21	11-16-23	13-17-25	15-19-27
	Noise Criteria	<15	<15	<15	<15	20	25	29	33	40	45

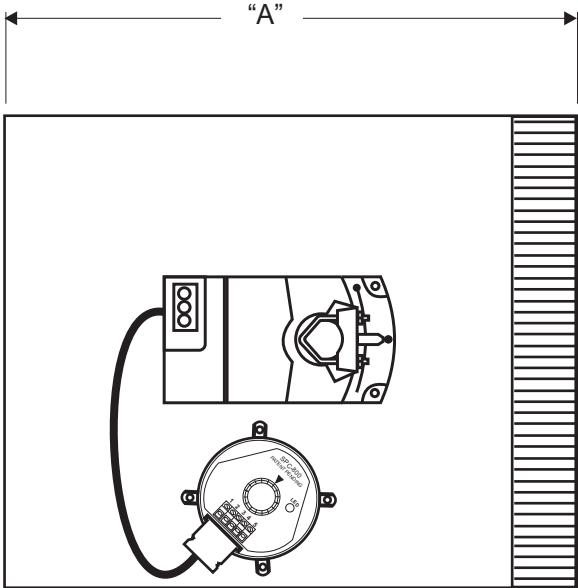
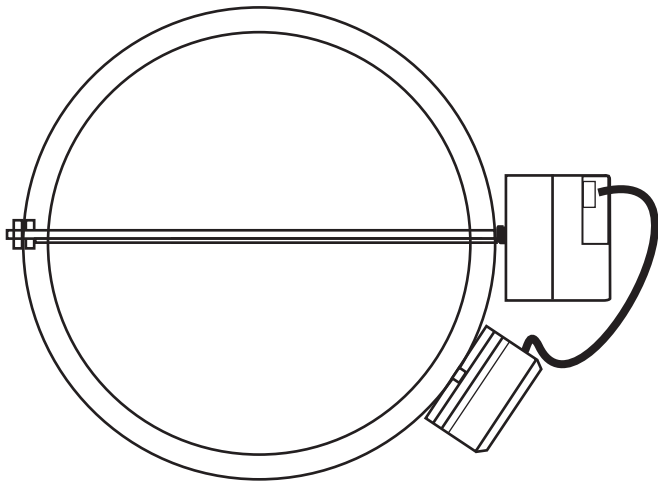
Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Units: Total Pressure = in. wc; Velocity Pressure = in. wc; Effective Area (Ak) = ft.².
4. Throw - feet at 150 fpm, 100 fpm and 50 fpm terminal velocities.
5. NC is based upon 10dB room absorption (Re: 10⁻¹² watts) evaluated at 125 thru 4000 Hz octave bands.
6. Flow hoods are recommended for system balancing.



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Specification Sheet
Round Electronic Bypass Damper
Used in commercial zoning applications



DAMPER SIZE	"A" DIMENSION
12"	13"
14"	14"
16"	14"
18"	14"
20"	14"

SPECIFICATIONS

DIMENSIONS:

Damper models SC-EB-XX are available in standard sizes from 12" to 20".

APPLICATION:

Compatible for zone control and other HVAC applications in maintaining system static pressure from 0.08" to 0.80" W.C.

CONSTRUCTION:

18 gauge spiral steel shell
18 gauge steel blade
1/2" aluminum shaft
Nylon bushings
Air tight blade seals
Minimum position adjustment

FACTORY MOUNTED STATIC PRESSURE CONTROL:

1/4" I.D. flex hose connection
Tubing and plastic pressure probe included
Solid state control design
Built-in LED for damper direction
0.08" to 0.80" W.C. pressure range
40" W.C. maximum pressure
1 Amp switching current at 24 VAC

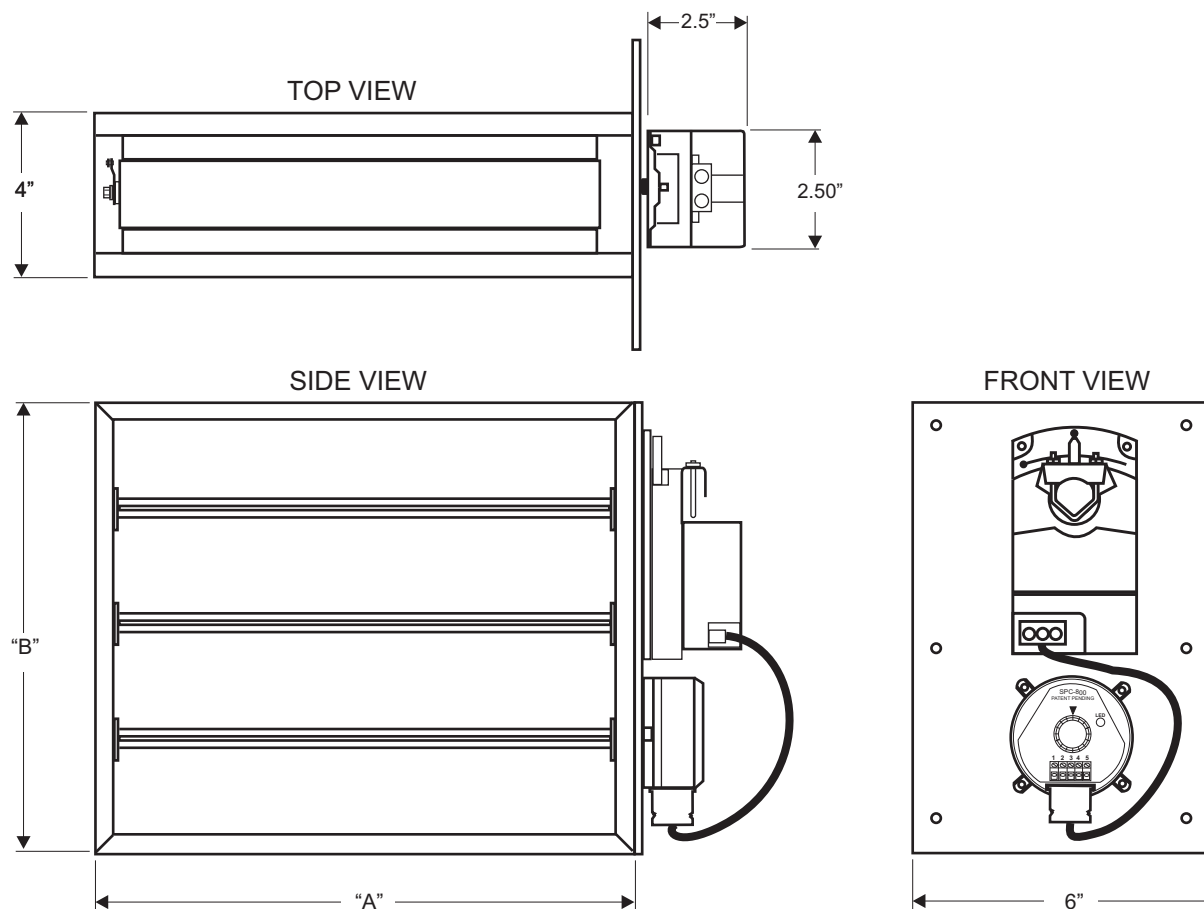
ELECTRICAL:

24 Volt, 2 VA, floating point
90 second timing
44 lb.-in.

Specification Sheet

Rectangular electronic bypass damper

Used in commercial zoning applications



SPECIFICATIONS

DIMENSIONS:

Damper models SC-EB-XXXX are sized width (A) by height (B) with actuator on the (B) dimension. Actual (A) and (B) dimensions are undercut 1/4". Standard sizes range from 8" x 8" up to 36" x 24" in 2" increments.

APPLICATION:

Compatible for zone control and other HVAC applications in maintaining system static pressure from 0.08" to 0.80" W.C.

CONSTRUCTION:

1/16" extruded aluminum frame
1/16" extruded aluminum parallel blades
1/16" aluminum mounting flange
Nylon bushings
Minimum position adjustment

ELECTRICAL:

24 Volt, 2VA, floating point
90 second timing
44 lb.-in.

STATIC PRESSURE CONTROL:

Factory mounted on "B" dimensions 14" and up
1/4" I.D. flex hose connection
Tubing and plastic pressure probe included
Solid state control design
Built-in LED for damper direction
0.08" to 0.80" W.C. pressure range
40" W.C. maximum pressure
1 Amp switching current at 24 VAC

The SC-Z20-T thermostat is designed to work with the SC-Z20 modulating zone control panel and the Zone One, stand-alon zone damper or VAV diffuser. Depending on the application, the SC-Z20-T can be configured to modulate the damper actuator or provide two-position control. The SC-Z20-T should be installed in a zone being served by the damper or diffuser and in a location that represent the ambient space temperature. It should not be installed in an area where drafts are present, near the floor, behind doors or on an external wall.

The SC-Z20-T contains a set of dip switches numbered 1 through 8. Only dip switches 1, 2, 3, 6 and 7 are active. Switch 1 is used to lock the thermostat after setup is complete. When the thermostat is locked, only setpoint changes and status functions can be accessed by the user. Switch 2 is used to display the space temperature, duct temperature and setpoint in Celsius or Fahrenheit. Switch 3 is used to select two-position or fully-modulating damper control. Switch 6 is used to control the display of Heat and Cool. Switch 7 is used to control the display of the space temperature.

HOW IT WORKS:

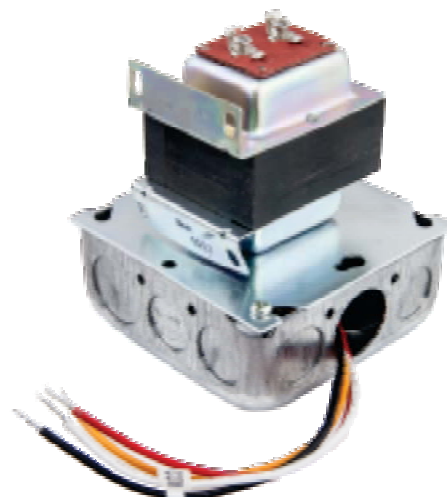
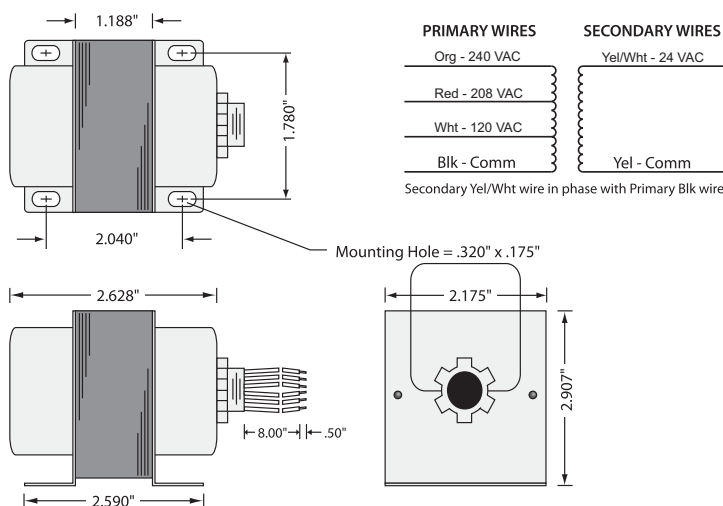
The SC-Z20-T is a single setpoint, auto-changover thermostat. The thermostat wires to a factory mounted actuator board on a zone damper or VAV diffuser that uses a 3-wire, floating point actuator. A duct sensor is wired to the actuator board. The thermostat uses the sensor to determine whether the temperature in the duct is compatible with the thermostat call. For example; if the thermostat calls for cooling and the duct temperature is below 72° F, the damper will be allowed to drive open; otherwise, the damper will maintain its minimum position. The same applies for a heating call. The temperature in the duct must be above 72° F or the thermostat will keep the damper at its minimum position.



Specifications:

Input voltage:	24 VAC 50/60 Hz +/- 15%
Relay rating:	24 VAC @ 1A maximum per relay
Operating temperature:	32°to 122° F
Operating RH:	0-95% (non-condensing)
Display size:	2-3/4" W x 1-7/8" H
Accuracy:	+/- 1° @ 77° F
Temperature sensor:	10K NTC Type II
Control range:	36° F to 96° F
Backlight:	Blue Electro Luminescent
Backlight life:	3,000 hours to half brightness
Approvals:	FCC Part 15 C-tick
Dimensions:	4.0" H x 4.375" W x 0.875 D

The SC-TR40-B is a 40 VA, 240/208/120 to 24 VAC transformer used in low voltage applications. The transformer is factory mounted to a 4" x 4" junction box for primary wiring.



SPECIFICATIONS

VA Rating: 40VA
Frequency: 50/60 Hz
Mounting: Foot & Single Threaded Hub
 TRMP44K0 Mounting Plate Provided
Over Current Protection: Thermal Fuse (Fuse not field replaceable)
Dimensions: 2.628" x 2.175" x 2.907" (w/ .500" NPT Hub)
Wire Length: 8" Typical w/ .5" Strip
Operating Temperature: -30 to 140° F
MTBF: 100,000 Hours @ 77° F
Construction: Split-Bobbin
Weight: 2.20 lbs.
Approvals: Class 2 UL5085-3 Listed, C-UL, CE, RoHS