



ZONING

Modulating Zone Control

The SC-Z20 is a modulating zone control system that allows a single HVAC unit to have up to 20 individual zones. The SC-Z20 works with single-stage, multi-stage and heat pump systems. Each zone is controlled by its own proprietary Z20-T space thermostat and a ZD Series 3-wire zone damper or VD Series diffuser. It has an auxiliary heat control option for each zone. SD Series dampers can be paralleled for zones requiring multiple dampers. The SC-Z20 is an affordable alternative to higher cost VAV systems with minimal programming required.



ESP Zone Control

The SC-Z6-ESP zoning system is designed to fit up to twelve-zone applications for single-stage, multi-stage or heat pump equipment in residential and light commercial applications. This zone control system comes with built in ESP static pressure control which eliminates the need for a bypass damper when used with floating point actuated dampers such as the SC-SD or SC-MD dampers. A wide range of control options provides ultimate application flexibility. Three and four zone ESP panels are also available.



Two-Position Zone Control

The SC-Z6 is a six zone, two-position forced air zone control panel that can be expanded to as many as 12 zones. The panel can be used with single stage, multi-stage, or heat pump equipment including dual fuel systems having up to 3 stages of heating and 2 stages of cooling. Slide switch system configuration makes setup quick and easy. A wide range of control options provides ultimate application flexibility.

STAND ALONE ZONING

Modulating Zone One Dampers



The Zone One is an SC-ZD stand-alone control damper assembly designed to solve over-heating and over-cooling problems. It can be used to control a single room, or parallel multiple dampers to modulate air flow in multiple rooms. Each zone requires an SC-Z20-T and can be paralleled to SD Series dampers if needed. The SC-ZD features a 24VAC, 2VA floating-point actuator (45 lb-in).

VAV Diffusers



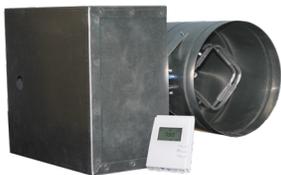
The SC-VD diffuser is used to vary the supply air volume and is controlled from a SC-Z20-T wall-mounted thermostat. This diffuser is designed to maintain the coanda effect (draft free) of the discharge air along the ceiling, providing a sustained discharge velocity throughout the volume range. The wall-mounted thermostat gives closer temperature control and eliminates the need for a step ladder to adjust the setpoint. The SC-VD features a 24VAC, 2VA floating-point actuator (45 lb-in). It is available in 12" x 12" or 24" x 24" models with five neck sizes. Optional surface mounting kit, relief collar and baffle kit are available.

BACnet VAV Diffusers



The electronic BACnet Diffuser is used to vary the supply air volume from a factory supplied, wall-mounted, adjustable, communicating BACnet thermostat. The diffuser is designed to maintain coanda effect (draft free) of discharge air along the ceiling, providing a sustained discharge velocity throughout the volume range. The BACnet interface is designed to allow integration into the BAS, providing information, scheduling and adjustment via the factory supplied, wall-mounted, adjustable, communicating thermostat or via a BACnet Building Automation System by others.

Pressure Independent Zone One



The SC-PIZ is a round terminal air unit retrofit option for over-heating and over-cooling problems in specific areas or zones. The SC-PIZ is available in 6 sizes to handle 80 CFM - 4,200 CFM. The SC-PIZ is equipped with the SC-VAV controller. This system can also be integrated into any BACnet BAS.

DAMPERS

Control Dampers



Specified Controls offers dampers in a variety of sizes, configurations and types with actuators or with mounting plates to allow contractors to provide actuators. Side mount or bottom mount configurations are available. All dampers are manufactured in the USA.

Round: 4" - 20" stock (up to 36" round by special order)

Rectangular: 6"x6"- 30"x18" in stock-even sizes only (6"x6" up to 6'x6' in all sizes by special order)

DAMPERS (continued)

Outside Air Dampers

Outside Air Dampers are designed for new construction or retrofit applications requiring exhaust, fresh air intake, on-off or modulating control. Typical applications include restrooms in high rise buildings and outside air for small split systems. SC-OAD-P includes a plate mounted to the damper which allows any direct coupled actuator to be utilized, including DDC controllers.



Electronic Bypass Dampers

SC-EB electronic bypass dampers are used to automatically bypass excess air when an increase in duct static pressure occurs due to closing of zone dampers. The SC-EB dampers utilize a 24VAC, 2VA floating-point actuator (45 lb-in) along with the SC-SPC static pressure control. The SC-SPC has a fully calibrated setpoint dial for easy setup and adjustment. The SC-SPC maintains the system static pressure by modulating the bypass damper. SC-EB electronic bypass dampers are recommended for systems from 0.08" WC up to 1.20" WC static pressure. They are available in round and rectangular.



Electronic Balancing Dampers

The SC-BAL damper is an electronic balancing damper which utilizes a 9V DC direct coupled actuator. This 9V motor provides direct proportional control of the damper position when using the hand held damper positioner (SC-BAL-C). Simply turn the indicator knob to the appropriate damper position and press the power button for 10 seconds. The damper will open or close to the exact position desired. The hand-held adjuster uses a standard 9V battery to power the damper to the correct position. Electronic balancing dampers are great for inaccessible areas of any building and can be used in any application that may require remote adjustment of balancing dampers. Only Specified Controls SC-BAL dampers provide accurate and definitive damper positioning with our Patent Pending 9V motor and hand-held adjuster.



SPECIALTY CONTROLS

CO2 Sensor

A combination of poor ventilation and/or over population in an enclosed space can lead to a build up of carbon dioxide that, if left unchecked, can cause a variety of adverse health effects. The SC-CO2-TH offers an intelligent way to monitor and reduce CO2 levels in an interior space by being able to introduce fresh outside air at a controlled rate. The SC-CO2-TH requires very little user interaction. It can monitor the levels of carbon dioxide as well as humidity and temperature within the applied space and is capable of initiating alarms and corrective action if any of these exceed configurable levels.



Fresh Air Ventilation

The Fresh Air Ventilation system is designed to introduce fresh air into a home through an intake damper controlled by a micro-processor logic panel. The SC-VCS has single adjustment setup, exhaust fan control option, outdoor temperature and/or humidity limit option and damper override capabilities. It is easy to install and meets ASHRAE Standard 62.2. The SC-VCS kit comes with a control panel, 20VA transformer and round damper. The control panel is available separately and can be ordered with additional size dampers.



GAS DETECTION

Specified Controls is happy to provide Gas Detection Systems or individual components. The products are of the highest quality, most reliable and are simple to install and configure. Specified Controls is happy to provide customized for the job AutoCAD control drawings, schematics and technical support. We also have factory trained Gas Detection Commissioning Experts which can visit your jobsite and assure that the system is installed and functioning properly through commissioning of the Gas Detection System.



UNIVERSAL THERMOSTATS

The SC-T32-P universal thermostat is a perfect mix of aesthetics, intuitive operation and performance at an amazingly affordable price. The SC-T32-P is compatible with most commercial HVAC systems. Version 2.20 is available with integrated Modbus communications. Optional wallplates, indoor and outdoor sensors are available. The SC-T32-TS is a universal, low-cost touchscreen thermostat. The SC-T32-TS can be battery powered or hardwired which makes it ideally suited for use in light commercial applications. Optional wallplates, indoor and outdoor sensors are available. SC-T32-TS are ASHRAE compliant. The SC-T32-VNP is a vertical, non-programmable thermostat. This universal thermostat can be battery operated or hardwired to power. All three models can control up to 3H/2C equipment. The SC-T32-TS and SC-T32-VNP both comply with ASHRAE 62.2 residential ventilation standards.



EXHAUST FAN CONTROL SYSTEM

The SC-EFC constant pressure system is designed to control exhaust air in varying building applications. The system includes a controller with integral pressure transducer, pressure tap, 24v stepdown transformer and enclosure (standard NEMA 1). The SC-EFC can be used with any ECM motor to control the fan speed and is capable of control or maintaining pressure at up to 1" of pressure. In either BACnet or LonWorks communication, the SC-EFC is capable of integration into virtually any Tridium BAS.

