

PACKAGED VVT CONTROL SYSTEM

Starzone 4000 as manufactured by Zone All Controls Inc., see damper schedule for number and sizes.

The unit shall operate in occupied or unoccupied mode as defined by the Master controller's internal time clock.

Features:

- Modulating dampers.
- Dampers shall drive to full open position during times of no demand to maximize the space ventilation rate.
- Automatic static pressure controlled by-pass dampers.
- Starcom Hub interface and software for connection to owner supplied computer.

Components Schedule

Master control panel SZM-4000

- To facilitate service the Master control panels shall be placed in an accessible and visible location.
- Master control panel shall indicate HVAC mode, alarms, damper positions, and occupied/unoccupied status.

Transformers 24VAC, 40VA

TSA supply air sensor

TOA outdoor air sensor

Model SZT-4000 thermostats

Model AVD zone dampers

- Dampers shall have elliptical blades with gaskets for linear control.

Model RAD by-pass dampers

- By-pass damper shall be complete with static pressure control.

Control Sequence

Occupied Mode:

The circulation fan shall operate continuously.

Cooling

The Starzone 4000 system shall interface to the AHU such that on a call for cooling from the Master controller:

- a) Less than 13°C (55°F)

The fresh air damper shall open under control of the AHU's mixed air economizer to maintain a 13°C discharge air temperature.

b) Greater than 13°C (55°F)

The fresh air damper shall go to its minimum position (adjustable) and the mechanical cooling shall be energized in stages by the Zone All system.

Heating

During a heating demand from the Starzone 4000 Master controller the AHU will stage the heat under the control of the SZM-4000 Master.

Unoccupied Mode

The space temperature will be set back to 16°C (61°F). The circulating fan will normally be off and the fresh air damper will close.

Starcom Hub

The control system will be connected to an owner supplied computer with internet access via a Starcom Hub interface. The software will be capable of but not limited to the following:

- Trend Logging
- Remote access via the internet
- Problem diagnostics
- Remote adjustment of thermostat set point
- Remote adjustment of minimum and maximum position of zone dampers during heating, cooling and ventilation cycles.

Start-up, on-site programming and check out of control system to be provided by Zone All factory authorized personnel.