

# OPTIMA Series

## SZC5 - Zone Control Panel

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### Overview

The SZC5 is a Hydronic Zone Control Panel which can control five zone pumps or zone valves. The universal application of the SZC5 means that only one zone control panel needs to be stocked. The advanced microcontroller based SZC5 includes many features such as Domestic Hot Water Priority Timeout, Pump Exercise, Pump Run-On, and Boiler Warm Up.

### Features

- **Zone Pump or Zone Valve Operation**

The SZC5 can be used in a zone pump or zone valve heating system. Zone power terminals are provided to accept 110VAC power for zone pumps or 24VAC for zone valves. The SZC5 then supplies this voltage to each zone when a call is received.
  - **Thermostat Power**

The SZC5 can supply 24 VAC to thermostats which require power to operate. Thermostat Power terminals are provided to accept 24VAC from an external transformer.
  - **Digital Display**

Large 2 x 16 character display provides status information as well as easy parameter adjustments in plain English.
  - **Expandable to 10 Zones**

A single SZC5 can control up to five zones. Two SZC5s can be connected together and configured to control up to ten zones. *Cable must be ordered separately.*
  - **Domestic Hot Water Zone**

The first zone can be configured as a heating zone or a Domestic Hot Water (DHW) Zone. The DHW zone can be configured to have priority over the heating zones.
  - **Domestic Hot Water Priority Timeout**

The length of time that a Domestic Hot Water call has priority over the heating zones can be limited. This will prevent the space temperature from falling too far during long domestic hot water demands.
  - **Domestic Hot Water Priority Exclusion**

One heating zone can be excluded from Domestic Hot Water Priority for those zones which are difficult to keep warm during long Domestic Hot Water demands.
  - **Pump Run-On**

A Pump Run-On delay time can be set to help dissipate heat from the system and send it to the last zone which called.
  - **Pump Exercise**

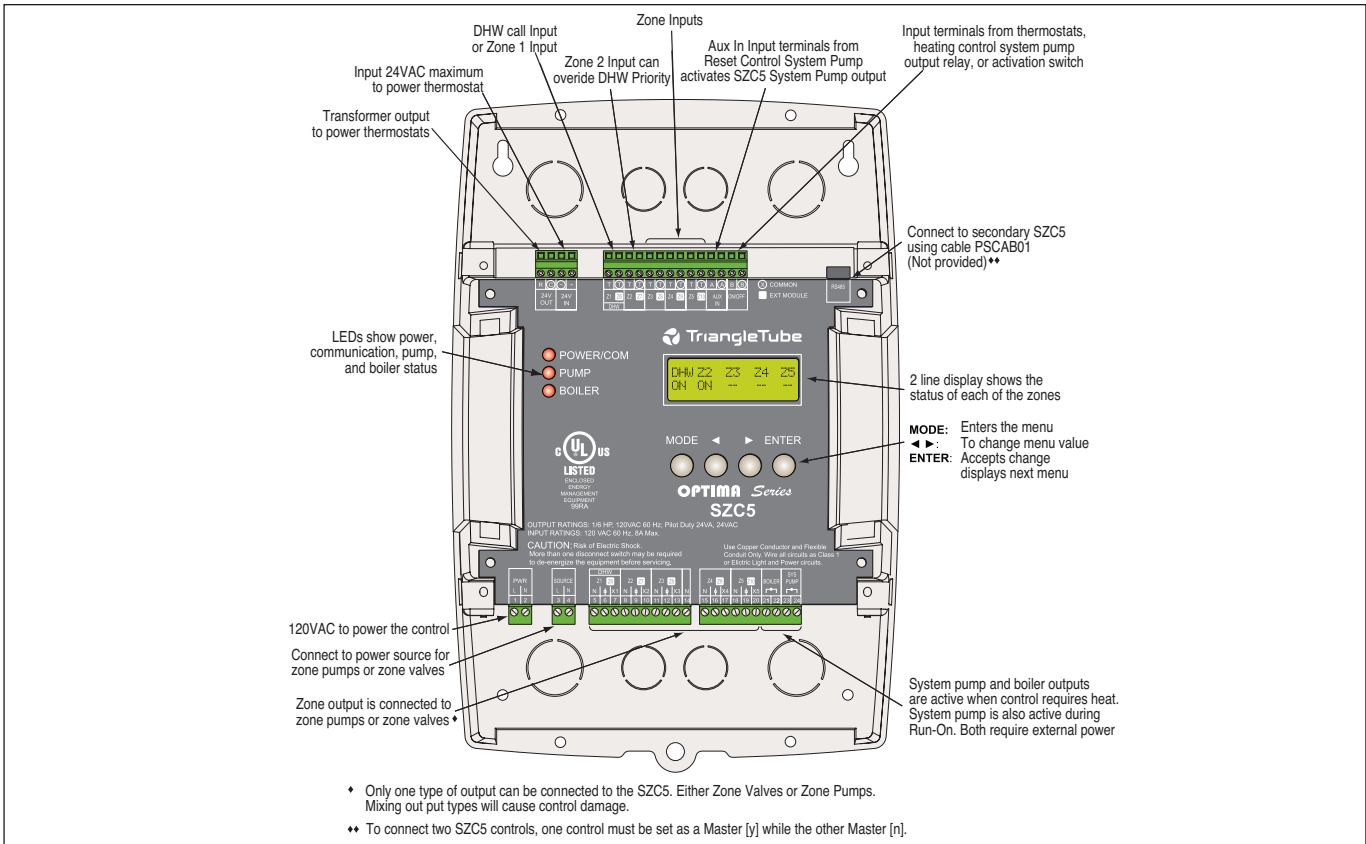
The Pump Exercise feature can be enabled to energize each pump for 15 seconds when it has not run during the last week.
  - **Boiler Warm Up**

A Boiler Warm Up time can be set to allow a boiler to warm up before activating any of the zones.
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	Item Description
PSCON09	SZC5 Zone Control Panel
PSCAB01	SZC5 Communication Cable (Optional)

## SZC5 Specifications

Voltage Input:	120VAC 60 Hz
Power Consumption:	15 VA Max
System Pump and Boiler Outputs:	2 N.O.S.P.S.T
Zone Outputs:	5 Zones (Sourcing Power)
Zone Power:	Either 24VAC or 120 VAC depending on the input to the Source terminals
Zone Pump Output Relay Ratings:	1/6 HP, 120 VAC 60HZ
Zone Valve Output Relay Ratings:	24VA (1 Amp, 24VAC 60Hz)
Display:	32 character (2 rows with 16 characters each)
LEDs:	3 (1 Power/Communication, 1 System Pump, and 1 Boiler)
Buttons:	4 (Mode, ◀, ▶, and Enter)
Control Operating Mode:	Master or Slave
Zone Operation Modes:	Zone Valve or Zone Pump
Boiler Warm-up:	0,2,5,10 minutes
Pump Run-On:	0,2,5,10 minutes
Domestic Hot Water:	Zone 1 is adjustable as heating zone or DHW zone
Domestic Hot Water Priority:	Can be set to No Priority, 30, or 60 minute priority
Pump Exercise:	Can be enabled or disabled
Thermostat Inputs:	5 Thermostat inputs (can be dry contact, 24 VAC, or Honeywell power robbing)
Enable/Disable Input:	1 Dry-contact adjustable to enable on Short or Open
Maximum number of SZC5s connected:	2 (Set one as Master and the other as Slave)
System Pump Enable Input:	1 Dry-contact to enable System Pump Output on Short
Dimensions:	3-1/2" x 13-1/4" x 8-3/4"
Weight:	2 pounds
SZC5 Communication Cable:	PSCAB01 Ordered Separately



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