SlimZone® PREMIER
ZONE CONTROL PANEL



PRODUCT DESCRIPTION

The Robertshaw SlimZone® Premier zone panel is ideal for light commercial applications. It's a constant volume zone system that controls 3 to 19 zones from a single heating and cooling unit. Dedicated thermostats in combination with motorized dampers serve each zone. The control module monitors the zone thermostats and energizes the HVAC system to the requested mode of operation. The SlimZone® Premier automatically controls equipment staging, and all setup and monitoring is achieved by a 4-button keypad with a 4-line by 20-character LCD display.

The basic system consists of the SlimZone® Premier control module which controls up to 3 zones. Additional SlimZone® expansion modules add 2 zones per module and up to 8 expansion modules can be connected to the system for a total of 19 zones. The SlimZone® Premier requires a DSL-520P communicating zone thermostat for each zone. The zone panel is wired to HVAC equipment. A dedicated 24 VAC, 75 VA transformer is needed to power the zone panel. Separate transformers are required for the zone dampers. The SlimZone® Premier provides power to the DSL-520P communicating zone thermostat and any expander modules.

FEATURES AND BENEFITS

- Low profile, ultra slim logic panel houses microprocessor
- Standard unit controls 3 zones
- Expandable up to 19 zones in 2-zone increments
- Compatible with electric, gas, oil or heat pump equipment
- Controls up to 3-stage heat and 2-stage cool for heat pumps
- Controls up to 4-stage heat and 3-stage cool for conventional equipment
- LED indicator displays all system functions with 4 lines by 20 characters
- Constant or automatic fan runs during occupied cycle
- 45-second fan purge into last zone(s) for added comfort
- Smoke input terminals allow for connection to duct smoke detectors
- Perimeter heat control from zone thermostats
- Solid state control module with current limiting protection of all outputs
- 365-day per year clock
- LCD display

Robertshaw®

INTEGRATED COMFORT SOLUTIONS™

SlimZone® Premier DSL-520P Zone Thermostat



The Robertshaw DSL-520P zone thermostat is the exclusive thermostat used with the SlimZone® Premier zone control system. These thermostats exchange data with the control panel to optimize the zoned environment. It's the most advanced solid state, microprocessor temperature control device on the market today. The DSL-520P uses an adaptive control routine based on fuzzy logic to determine an area's heating and cooling needs. The routine calculates the load by evaluating recent room conditions from the sensor within the thermostat or connected remote sensor. It has a symbol to confirm the communication link and temporary timed override when in an unoccupied schedule. The thermostat comes with setpoint adjustment, zone address confirmation buttons, dry contact relay, optional remote sensor terminals, and perimeter heat LED indication.

SlimZone®
PREMIER
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Design Specifications

SlimZone® Premier 2 Zone Expander Module

The Robertshaw SlimZone® Premier zone control panel (SZP-3) can be expanded from 3 to 19 zones by adding the SlimZone® Premier expansion modules (SZEX). These modules add 2 zones to the system per module, and up to 8 expansion modules can be connected to the system allowing for a total of 19 zones. The SlimZone® Premier zone control panel powers the SlimZone® expansion modules.



Robertshaw® Zone Control Systems

ROBERTSHAW PANELS

- Classic panel: up to 2 zones 2701-006
  up to 3 zones 2701-001
- Deluxe panel: up to 7 zones 2701-002
- Premier panel: up to 19 zones 2702-001

ROBERTSHAW DAMPERS

- Rectangular motorized zone dampers
- Round motorized zone dampers
- Bypass non-electric zone dampers

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ITEM	SZP-3 SlimZone® Premier 3 Zone Logic Panel SZEX SlimZone® Premier 2 Zone Expander Module
POWER REQUIREMENTS	Dedicated 24 VAC, 75 VA transformer
OPERATION	• Timeshare • Differential
FUNCTIONAL RATINGS	14˚F to 158˚F (-10˚C to 70˚C)
STORAGE RATINGS	-4˚F to 158˚F (-20˚C to 70˚C)

NOTE: It is recommended that the logic panel be installed in a conditioned environment. If installed in an unconditioned space, the current limiting devices used in the panel are temperature dependent. The following linear relationship exists between the ambient temperature and the operating current.

AMBIENT TEMPERATURE	MAXIMUM CURRENT
-4˚F (-20˚C)	3.40 amps
32˚F (0˚C)	2.98 amps
68˚F (20˚C)	2.50 amps
104˚F (40˚C)	2.03 amps
122˚F (50˚C)	1.80 amps
140˚F (60˚C)	1.58 amps
158˚F (70˚C)	1.35 amps

TERMINAL DESIGNATIONS	**Equipment:** W1, W2, W3, W4, Y1, Y2, Y3, RH, RC, B, O, G1, G2, SMOKE **Thermostat:** 1, 2, 3, 4 **Zone damper:** 24L, 24N, PC, PO
THERMOSTATS	DSL-520P
DIMENSIONS	8.875" x 9.5" x 1.75" (23 cm x 24 cm x 45 cm)
WEIGHT	3 lb. (1.36 kg)
WIRING	Low voltage
MINIMUM ON/OFF TIMES	Adjustable 2 to 8 minutes
PROTECTION	Short cycle
PROGRAM MEMORY	Non-volatile
USER INTERFACE	• Panel setup • System programming • Remote temperature/event scheduling of all zone thermostats • 12/24 hour clock • Temperature display in either ˚F or ˚C • Equipment test

DSL-520P Zone Thermostat Design Specifications

MODE BUTTON	Heat/cool/auto/off
FAN BUTTON	Auto/on control
KEYPAD LOCKOUT	• Prevents setup changes • Limits setpoint adjustments (±3˚)
TEMPERATURE DISPLAY	˚C/˚F
EVENT SYMBOLS	Morning/day/evening/night

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