

AQUATROL Zoning System

AQ255 and AQ257 Zoning Expansion Panel for Hydronic Zoning System



The AQ255 and AQ257 family of AQUATROL Expansion Zoning panels work with AQ2000 Boiler Control Panels and AQ1000 Communicating Thermostats to control up to 4 space heating zones (or 8, for the AQ25582B Panel). Can be combined with additional expansion zoning panels and an AQ2000 control panel for a total of 16 space heating zones.

- AQ257 for zoning with zone valves with end switches
- Auto test function to test zones at system start up. It allows for operator controlled testing of zones; includes pause/restart capability.
- LED lights for visual diagnostic of zone operation.
- Allows zoning with either “Normally Open” or “Normally Closed” zone valves.
- Adjacent zoning panels can operate different zone equipment - one panel may control 4 pumps while another may control 4 zone valves.
- Easily switch from zone valves to pumps with same zoning module - just flip one DIP switch. Ensure correct voltage is applied to all zone equipment on a panel (120 Vac for pumps, 24 Vac for valves)
- R-C transformer and B-B data bus terminal connections (network communication) for easy expansion.
- Zones can be set to energize a group pump via Aux Out dry contacts on main control panel (AQ250, AQ25A, AQ251, AQ252) or expansion control panel (AQ254).
- Zone synchronization through Zone of Greatest Demand control.
- 38 VA Transformer with self resetting electronic fuse.

Application: Zoning control for hydronic zoning system

Dimensions, Approximate: 9 1/2 in wide x 8 in. high x 3 3/8 in. deep (24 cm wide x 20.3 cm high x 8.5 cm deep)

User Interface (Setting, Programming): (DIP Switches)

Electrical Connections (Line Voltage): Wire-clamp screw terminals, Maximum 2 x 14 AWG each on line voltage terminals

Control and Zoning Panel Temperature Rating: 32 F to 130 F (0 C to 55 C)

Thermostat Compatibility: AQ1000 Series 2-wire communicating thermostats and most digital thermostats

Zone Module Thermostat input: Low voltage, Class II, 2-wire polarity-insensitive, digital communicating with power link to AQ1000 series thermostat.

Zone Output Contact Rating: 120 Vac/250 Vac, 5A, 1/3 HP

B-B Communication Bus Terminals: Low voltage, Class II, 2-wire polarity-insensitive, digital communicating link to other Control or Zoning modules.

R-C Input (on Control and Zoning Modules): 24 Vac Class II (input on Control and Zoning Modules)

Operating Humidity Range (% RH): 5 to 90% RH, non-condensing

Approvals

Canadian Standards Association: CSA C/US Certified to CSA and UL Standards, File No. LR76030

	Product Number	Type of Zoning Devices Controlled	Number of Zones Controlled	Weight		Replacement Parts
				lb	kg	
*	AQ25542B/U	Zone pumps or 2-wire valves (line voltage)	4	2.1 bs	1 kg	AQ15540B 4-zone pump expansion module
*	AQ25582B/U	Zone pumps or 2-wire valves (line voltage)	8	2.6 bs	1.3 kg	AQ15540B 4-zone pump expansion module
*	AQ25742B/U	2-wire valve (24 Vac)	4	3.9 bs	1.8 kg	AQ10X38 24 Vac 38 VA transformerAQ15540B 4-zone pump expansion module
*	AQ25744B/U	Zone valves with end switches (24 Vac)	4	3.9 bs	1.8 kg	AQ15740B 4-zone valve with end switch expansion moduleAQ10X38 24 Vac 38 VA transformer
* TRADELINE models • SUPER TRADELINE models						