



Sage Zone Control Circulator Panel & Valve Panel



The key to making a condensing boiler actually *condense*



In most heating systems, standalone condensing boilers don't condense all the time. They operate at higher temperatures than necessary, and use more fuel than necessary.

Sage Zone Control Panels are innovative products which lower firing rates and raise efficiency by constantly analyzing zone demand and adjusting boiler output accordingly.

Saves Fuel

Includes **EXCLUSIVE HeatMatch™** software which calculates zone demand, measures supply water temperature, and automatically adjusts maximum firing rates starting at low fire (instead of high fire).

Protects the Boiler

Reduces boiler “short cycling” to extend the life of the heating system.

Three-temperature versatility is perfect for buildings with a mix of high and low heat radiation and/or an indirect water heater.

Installs Faster

Plug & play – Snap-in RJ45 cable eliminates labor for boiler wiring. Includes factory settings for easy setup.

Touch Screen (on the boiler) controls settings and adjustments and monitors BTUs and cycle history.

Easy setup! No high voltage (120V) wire prep needed for domestic hot water priority.

Additional features include:

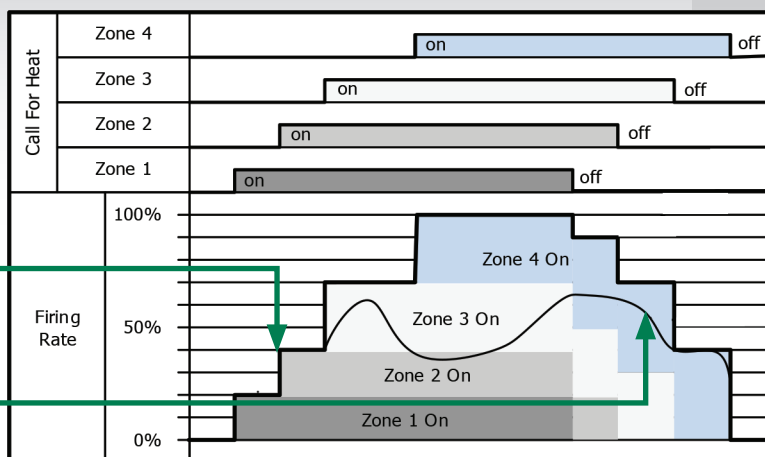
- Advanced switching relay for non-modulating boilers
- Supports extra relays for Velocity brand boilers
- Advanced freeze protection
- Configurable primary circulator output
- Priority protection
- DHW post-purge
- Circulator exercise
- Interconnectivity with other zone controls
- Front external indicator lights
- Sealed relays
- Fuse protection
- ZC/ZR connections also available
- 4 zones, expandable to 16 zones with 4 zone controls
- Universal thermostat compatibility
- Factory-tested
- UL approved

Immediate fuel savings & boiler preservation

Less over-firing and short-cycling means less boiler wear

Summed maximum firing rates for each zone on the coldest days
and

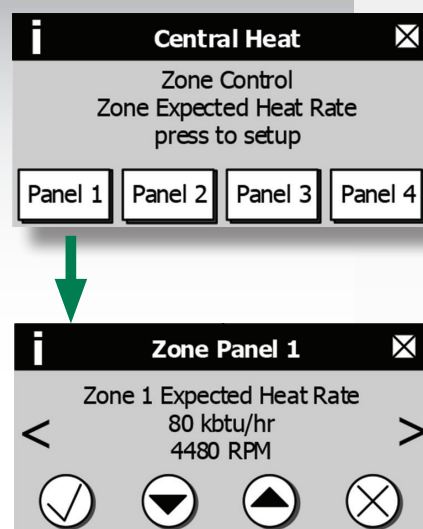
Actual, modulated firing rates on most other days



HeatMatch™ is easy...

Factory pre-sets provide a quick and easy out-of-the-box heating solution.

Full zone control at your fingertips giving full custom control over the heating system. Interact with zone control and efficiency information via the touchscreen on Sola 2.2 equipped Raptor and PhantomX boilers.



Sage Zone Control - Circulator Panel (104590-01) & Valve Panel (104589-01) RJ45 (cat 5) cable included

Panel	Zones	Input Voltage	Max Output	Enclosure (inches)		
				Width	Height	Depth
Valve Panel	4W/ Priority	120/60/1 VAC	24 VA per zone 40 VA per transformer	12-1/4	8	3
Zone Panel			20 amps combined load	10-3/4	7	2-3/4

- Valve panel pump end switches are rated 1/6 HP, 5 amps at 120 VAC
- Circulator panel relay connections (incl. ZC/ZR) rated 1/3 HP (6 FLA, 36 locked rotor amps - LRA) at 120 VAC
- All thermostat RWC connections supply a 24 VAC class 2 output
- All boiler/EnviraCOM 123 connections supply a 24 VAC class 2 output
- Main and priority end switch connections are rated at 24 VAC, 1 amp

Requirements for high efficiency condensing boilers

- Sage2.2/2.3 controller with version 3219.4716 or newer and LCD display; GT02r07 or newer, GT02L