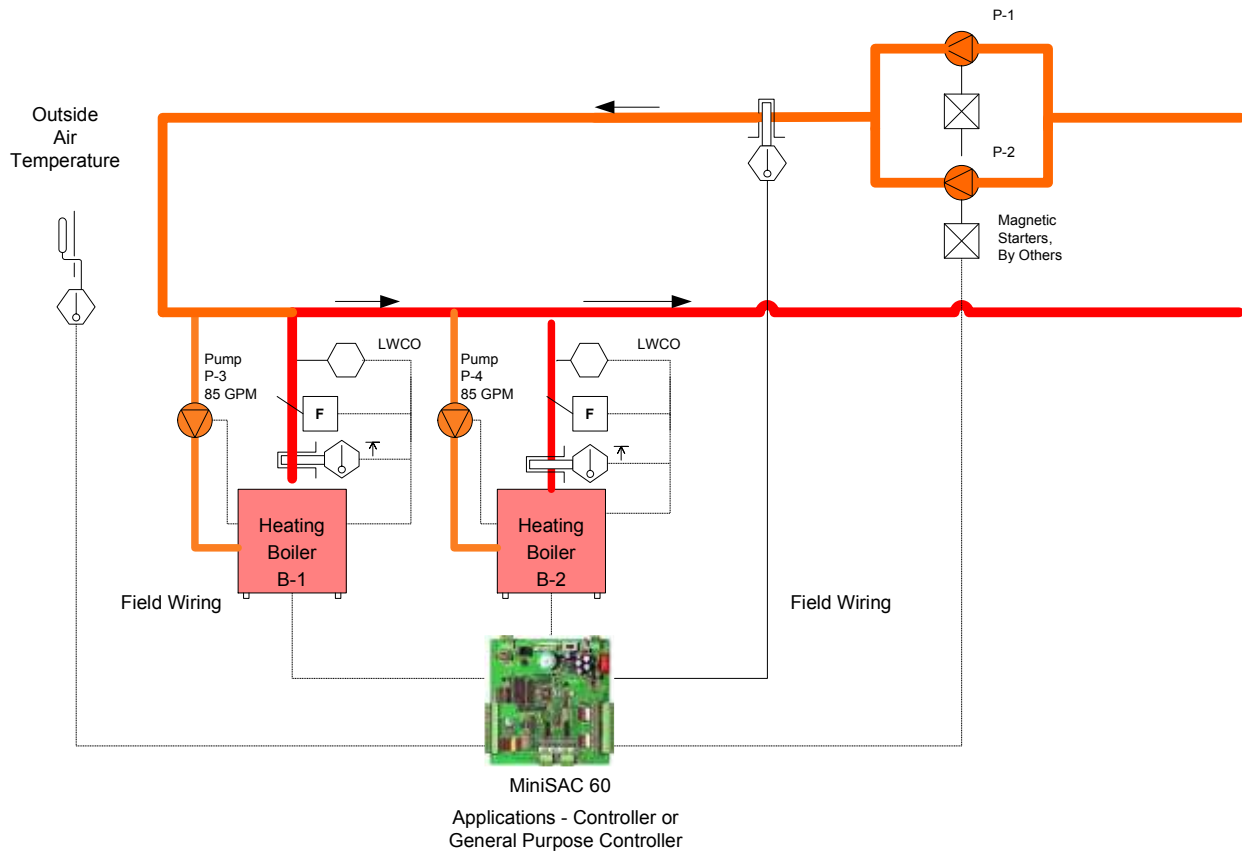


Boiler Controller



Description

Electronic controller provides affordable operating control, lead/lag rotation and automatic seasonal shutdown of boilers with outside air reset. Product line can accommodate any number of boiler stages, and can accommodate modulating boilers, and optional alarm annunciation and optional additional monitoring points and fully integrated secondary water loop control. Controller can be integrated into an Empire Controls DDC system, either at time of installation or at a later date.

Guide Specification

Products

2.x Boiler Controller

Boiler Controller complete with Outside Air Temperature and HWST sensor and liquid crystal display type operator interfaces, Model BNR-BLR as manufactured by Empire Controls Limited of Woodbridge, Ph 905-264-7282, Fax 905-850-8564, empire@empirecontrols.com. In the event of conflict, this paragraph supercedes any mention of operating controls in the boiler specification. Not networking controllers are not acceptable.

Execution - Sequence of Operations

3.4.x Boiler Controller

Controller cycles and/or modulates boilers in stages as required to maintain HWST at setpoint. HWST Setpoint is reset as a function of OAT, while maintaining setpoint high enough to prevent condensation. Controller disables boilers and heating pumps when OAT is above Heating Lockout Setpoint. As a default, LCD on Empire Controller continuously displays HWST in degrees Celcius. Maximum HWST Setpoint and Reset Ratio are operator adjustable with password protection. Minimum setpoint is technician adjustable only.

Optionally, controller provides lead/lag rotation of heating pumps. (Specify which pumps) At designer's option, the Empire controller can control HWRT instead of HWST.

Mount controller enclosure on wall, and provide 120 volt power from nearest panel. Connect temperature sensors and boiler control relays to terminal strip in controller enclosure. Check operation of sensors and boilers, tune controller loop.

Empire Controls Limited

80 Regina Road, Unit 19
Woodbridge, Ontario
L4L 8M5

Ph. 905-264-7282 Fax 905-850-8564
empire@empirecontrols.com