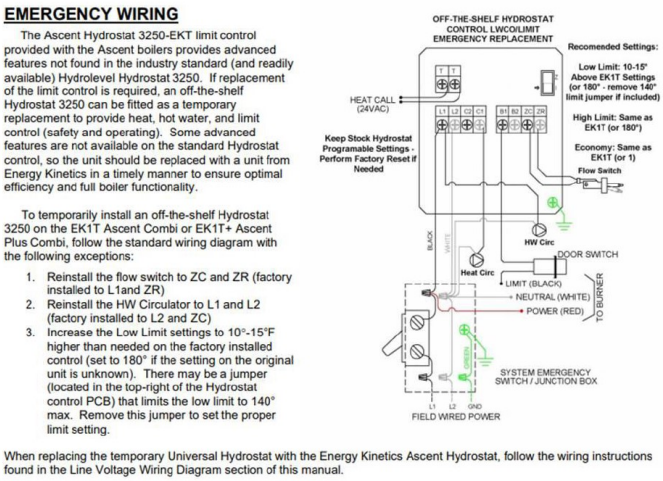
TECHTiPS

Emergency Wiring for Ascent Hydrostat

Substituting an OEM part with a part on your service vehicle or on the shelf at a local supply house can be simple with just a few steps.

Most components of Energy Kinetics boilers can be found at your local supply store; however, certain parts are original equipment manufacturer (OEM) items and can only be obtained directly from our factory. In the event of a failure of an OEM part and if a replacement is not available in your inventory, we aim to assist you in restoring the homeowner's system to operational status promptly. To facilitate this, we have developed emergency part substitutions.



EMERGENCY WIRING

The Ascent Hydrostat 3250-EKT limit control provided with the Ascent boilers provides advanced features not found in the industry standard (and readily available) Hydrolevel Hydrostat 3250. If replacement of the limit control is required, an off-the-shelf Hydrostat 3250 can be fitted as a temporary replacement to provide heat, hot water, and limit control (safety and operating). Some advanced features are not available on the standard Hydrostat control, so the unit should be replaced with a unit from Energy Kinetics in a timely manner to ensure optimal efficiency and full boiler functionality.

To temporarily install an off-the-shelf Hydrostat 3250 on the EK1T Ascent Combi or EK1T+ Ascent Plus Combi, follow the standard wiring diagram with the following exceptions:

1. Reinstall the flow switch to ZC and ZR (factory installed to L1and ZR)
2. Reinstall the HW Circulator to L1 and L2 (factory installed to L2 and ZC)
3. Increase the Low Limit settings to 10°-15°F higher than needed on the factory installed control (set to 180° if the setting on the original unit is unknown). There may be a jumper (located in the top-right of the Hydrostat control PCB) that limits the low limit to 140° max. Remove this jumper to set the proper limit setting.

OFF-THE-SHELF HYDROSTAT CONTROL LWCO/LIMIT EMERGENCY REPLACEMENT

Recomended Settings:
Low Limit: 10-15° Above EK1T Settings (or 180° - remove 140° limit jumper if included)
High Limit: Same as EK1T (or 180°)
Economy: Same as EK1T (or 1)
Flow Switch
HEAT CALL (24VAC)
Keep Stock Hydrostat Programable Settings - Perform Factory Reset if Needed
HW Circ
DOOR SWITCH
Heat Circ
LIMIT (BLACK)
NEUTRAL (WHITE)
POWER (RED)
TO BURNER
SYSTEM EMERGENCY SWITCH / JUNCTION BOX
FIELD WIRED POWER

When replacing the temporary Universal Hydrostat with the Energy Kinetics Ascent Hydrostat, follow the wiring instructions found in the Line Voltage Wiring Diagram section of this manual.

Emergency Wiring for Ascent Hydrostat

This document provides guidance for replacing an Ascent Hydrostat with a standard Hydrostat, requiring only minor wiring modifications. It is important to note that **this replacement is temporary**; a new Ascent Hydrostat should be installed in the system eventually, as the current substitution may lead to reduced efficiency, and reduced hot water production and overall system performance.

ON SITE MINUTES?

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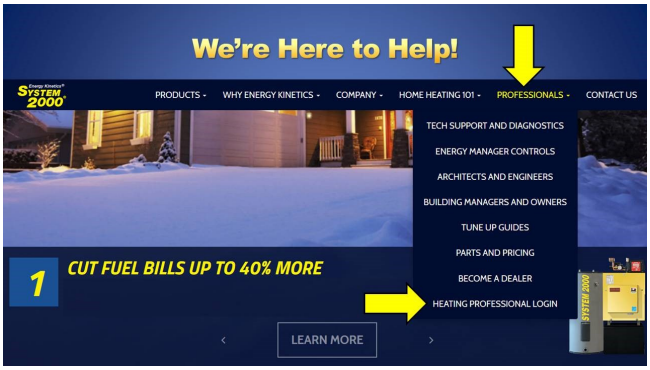
If you have been on the job for 20 minutes and you haven't solved the problem give us a call!
(908)735-2066

www.energykinetics.com



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