Application:

Cast iron high mass dedicated boiler c/w fully automatic snow melt circuit
(one low temp. circuit - fully automatic modulating water temperature for snow melting c/w snow/ice detector and in-slab sensor.)

Control Sequence:

• SnowMelt control unit provides the correct water temperature for the HeatLink® snow melting system. By correlating outside air temperature, surface moisture, supply and return system water, boiler return water & slab temperature for the snow melt circuit, the control unit then activates the 4-way mixing valve motor which in turn modulates the supply water temperature to the snow melting circuits (see ELECT 1.12 & 1.13).

• Boiler to fire either: 1) Independently on its own operating aquastat which in turn controls boiler water temperature or 2) By activation through a relay of the controllers. APPLICATION TO USE OPTION (____). (Note: Wire gas valve in series with high limit safety aquastat.)

• Pumps (P-1 & P-2) to be wired directly with their own disconnect switches. Pump P-1 & P-2 to operate either: 1) Continually or 2) By activation through a relay of the snowmelt controller (see ELECT 2.4).

FOR THIS PARTICULAR APPLICATION P-1 & P-2 TO OPERATE AS PER OPTION (____).

Note:

• Air vents, expansion tanks, pressure relief valves etc. For boiler as per local codes.
• Drawings are for HeatLink® suggested system layout only. User must determine if system layout will work for their particular application!
• Use isolation ball valves for all circuits and components.
• Expansion tank sizing for the snow melting circuit to take into account the ratio of glycol freeze protection in the system.