



Connection Instructions - Dontek H3BR Cool-Down Time Controller to Hayward Gas Heater Models H150FDAU, H250FDAU, and H400FDAU

The use of the Dontek H3BR Cool-Down Time Controller on the Hayward HxxxFDAU Model Swimming Pool and Spa Gas Heaters is to avoid nuisance tripping of the Manual Reset 45°C High Water Temperature Limit Switch (MRHWTLs).

In situations where the heater has been running/firing for a while to bring a body of water up to a preset temperature, and before the temperature is reached the circulation pump is turned off like when a chlorinator time clock turns off the pump, this will cause the MRHWTLs to trip because of the residual heat inside the heater continuing to heat the water inside the heat exchanger past 45°C.

By using the Dontek H3BR Cool-Down Time Controller, when the equipment controlling the circulation pump turns it off, the Cool-Down Time Controller will initiate the heater to stop firing/running, and continue to run the circulation pump for the length of time that the Run-On Timer has been set for. Hayward recommends that the preset time of 5 minutes for the Run-On Timer be tried first, as in most installations this should be sufficient. However in some situations the run-on time may need to be extended to no longer than 10 minutes. Follow the Dontek instructions regarding how to adjust the run-on time period.

Connection

- 1) Remove the Upper End Cap Cover from the right hand side of the heater.
- 2) Locate the Water Pressure Switch which is located on top of the Header Manifold Assembly. Refer to Fig 1.
- 3) Run the cable from the H3BR Controller output marked Heater Switch, through the cable protector in the base of the Header Trim Panel and up to the Water Pressure Switch.
- 4) Remove the RED or PURPLE (which ever is connected to it) wire from the terminal of the Water Pressure Switch by sliding off the Quick Fit connector.
- 5) Connect the FEMALE Quick Fit connector from the H3BR controller cable to the now vacant terminal of the Water Pressure Switch.
- 6) Now connect together the MALE Quick Fit connector on the cable from the H3BR controller and the FEMALE Quick Fit connector on the coloured wire that was previously connected to the Water Pressure Switch.
- 7) Re-assemble the heater.

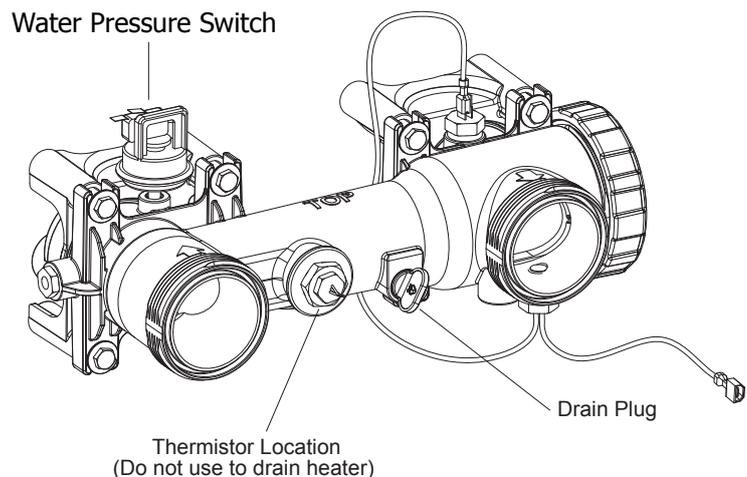


Fig 1 - Header Manifold Assembly