

Bryan Steam Water-Pak Sequence of Operation

Cold service (potable) water enters the storage tank through the cold service (potable) water connection in the storage tank and is directed downward towards the bottom of the tank through an internal diffuser tube.

A continuously running bronze circulation pump draws the cooler service (potable) water from the bottom of the storage tank and circulates it through the indirect heat exchanger mounted in the upper drum of the boiler vessel. The heated service (potable) water exits the indirect heat exchanger and is discharged back to the upper portion of the storage tank.

A storage tank operating control is mounted in the incoming line to the indirect heat exchanger. This control will cycle the boiler on and off based on the required set storage temperature for the storage tank.

A storage tank limit control is also supplied mounted in the upper portion of the storage tank. This control is a safety control set to insure that the temperature of the storage tank does not escalate to an unsafe temperature should the tank operating control ever fail. This control is wired in series with the tank operating control to shut down the boiler should an unsafe condition arise.

It always recommended that tempering valves be utilized on the tank discharge water supply or at the point of usage, to insure a safe delivery temperature for applications involving occupant usage.

