



Pre-startup checklist for steam fired fluid heaters

The following is a short list of items that should be confirmed prior to the commissioning of your Thermaflo equipment. If the installation instructions have been followed, most of these points will be redundant.

1. Confirm the inlet and outlet heated fluid connections are hooked up correctly to insure the proper direction of flow through the heater.
2. Confirm the steam supply piping is installed following good piping practice. An inlet wye strainer, and properly designed drip leg, with a drip steam trap, has been installed in the steam line drop to unit to remove condensate ahead of the control valve.
3. Confirm the steam condensate is piped to properly gravity drain from the equipment. Condensate should never be returned to an overhead condensate return system without the aid of a properly sized and selected condensate return pump. The exception is when a condensate return pump has been furnished as a direct component of the heater skid package.
4. Ensure the control panel has been wired with the correct phase and voltage electrical source as required. We recommend that each heater control panel be wired through a separate switch between the power source and the heater control panel so that it can be de-energized for service. Follow local building code for all electrical connection.
5. If pneumatic control valve is supplied check that all air lines and wiring connections are hooked up and securely fastened.
6. Check that all the piping and flange connections, including the heat exchanger head bolts, are tight in accordance with the factory Installation & Maintenance Manual that was provided with each heater.
7. Confirm each Pressure and Temperature Relief Valve is piped separately to an open drain or to meet local code requirements.
8. Confirm over Temperature solenoid valve is piped to an open drain or to meet local code requirements.
9. Check that steam can be delivered to the heater at the design pressure & volume required per specification. If unsure consult factory for additional clarification.

10. Check that properly sized steam supply lines are installed and have drip traps at every 150' or at any change in direction. Drip trap must be installed prior to control valve supply take off from main drop.
11. Equipment cannot be commissioned properly unless all of these points have been confirmed. In the event you have contracted for a factory supervised start-up and the equipment is not ready to be commissioned when the technician is on site on the agreed start-up date, you will be charged for any additional time and expenses beyond what the agreement of the contract specifies. Thermaflo technicians are not permitted to complete any tasks that have not been finished.
12. Installation of the equipment is the responsibility of the installing party and not Thermaflo or its agents.
13. You are now ready to begin the start up procedure.

Signature: _____ Date: _____

IMPORTANT: Upon arrival to the jobsite for startup if it is found that the check list above is incomplete or not in fact finished, the startup and commissioning will be delayed and additional startup cost will be incurred.

Thermaflo Engineering