

Glycerin Burning in S-200 Burners

INOV8 found during testing glycerin that the burning results differ based on the characteristics of the glycerin and the base oil that it is mixed with. The INOV8 burner preheater temperature and pressure settings were based on the glycerin sample and the base stock of vegetable oil that is available at INOV8. The settings most likely will require adjustment to accommodate your installation parameters and available base stock. Contact INOV8 when you are ready for start-up for assistance.

Please be mindful of the following when burning glycerin:

1. It is a good idea to install clear plastic for the return line off of the vapor eliminator. That will allow you to monitor the presence of the glycerin as it is usually dark in color.
2. Do not attempt to burn glycerin ONLY in the INOV8 burner as it will solidify in the internal oil passages.
3. When first starting the burner, use the base stock of vegetable or petroleum oil ONLY, until the boiler reaches operating temperature before opening the valve to begin burning the glycerin.
4. Slowly increase the quantity of glycerin.
5. The flame color from glycerin is an intense orange.
6. Before shutting down the system for an extended period of time, turn off the glycerin valve and run the burner for at least 30 minutes.
7. During the preheating of glycerin, vapors are released. In most cases the built-on vapor eliminator is capable of venting these vapors, but some glycerin may require additional preheating upstream of the burner. If your glycerin produces an over-abundance of vapor, contact your sales representative who can assist you with a custom setup.