

The FluidGuard™

*Permanent, Cost-Efficient System to Protect
YOUR Oil From Thermal Degradation*

At a Glance:

- Increased Safety
- Reduced Downtime
- Maximize System Heating Performance



WECHSLER
TECHNOLOGIES & ENGINEERING

Protect your Thermal Fluid!

When most organic thermal fluids are exposed to high operating temperatures, as is necessary in many of today's production environments, the fluids will thermally degrade over time. This creates low boilers (light ends) with a low vapor pressure (i.e. vaporize at low temperatures), which accumulate in the fluid and decrease your fluid's flash point. This potentially exposes your system to risks such as pump cavitation, resulting in failures and downtime. Additionally, the vapors generated by low flashpoint liquid ignite much more easily, which presents a general fire and personnel risk if exposed to the atmosphere.

Traditionally this has been addressed by:

- Costly oil replacement
- Periodic on-site treatments and repeated remedial costs
- Installation of generally ineffective "low boiler removal" systems



The FluidGuard™

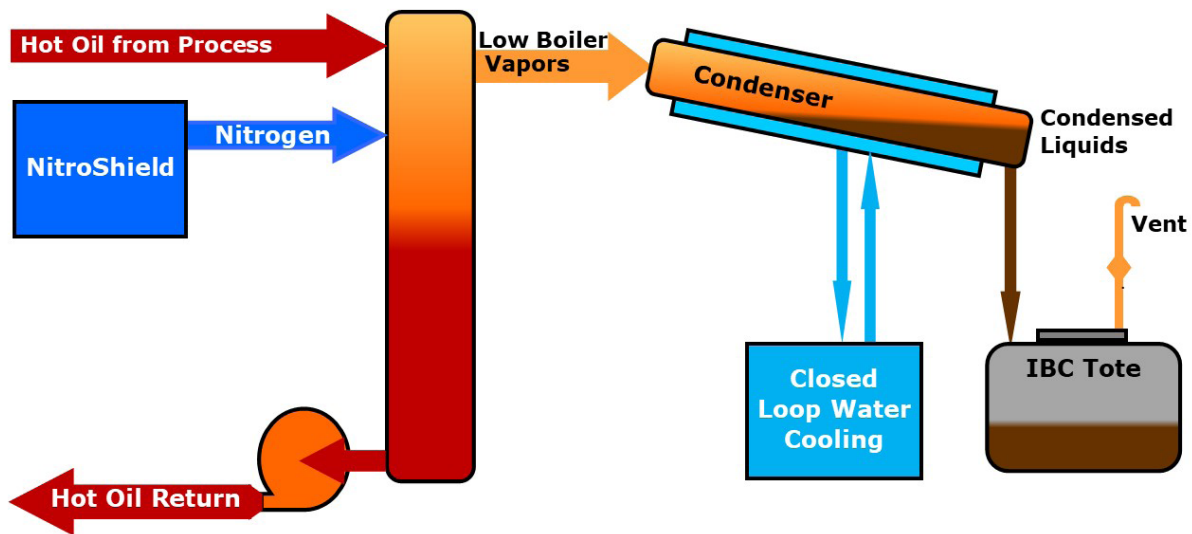
Wechsler Technologies and Engineering has now developed **The FluidGuard™**; a **permanent** solution to maintain and protect your oil!

It is a permanently installed system, incorporating our proven **Nitro-Shield™** technology to continuously remove harmful low-boilers from your thermal fluid and maintain **safe flashpoint levels at all times**. It can also recover the flashpoint of fluid with existing issues or damage. The best thing: it is fully automated and operates in the background, providing full-time protection. You will never know it's there!

How does it work?

- 1 A hot slip-slip stream of fluid is atomized in the reaction vessel, creating a mist, which allows the low boilers to evaporate
- 2 The vapor and liquid are separated using a proprietary separator contained in the reaction vessel
- 3 Our proven, self-generating **Nitro-Shield™** unit injects protective nitrogen to remove the vapor from the reaction vessel and protect the hot fluid
- 4 The vapors are condensed in the condenser and collected in the IBC tote tank as a liquid for disposal or recycling
- 5 The treated hot fluid is returned to the heating system via the return pump

The entire process is automated and can be monitored on either the local MMI or remotely on your control system (via Ethernet connection)



Features & benefits:

- 🛡️ **Reduce risk** and **improve safety**
- ✗ **Eliminate equipment damage** due to cavitation & **reduce system downtime**
- 🔥 **Consistent heat transfer** performance
- 💧 **Extend fluid life** & **reduce waste**
- 💡 Compact, skid mounted enclosure for **clean & simple install**
- ✅ **Permanent solution**

