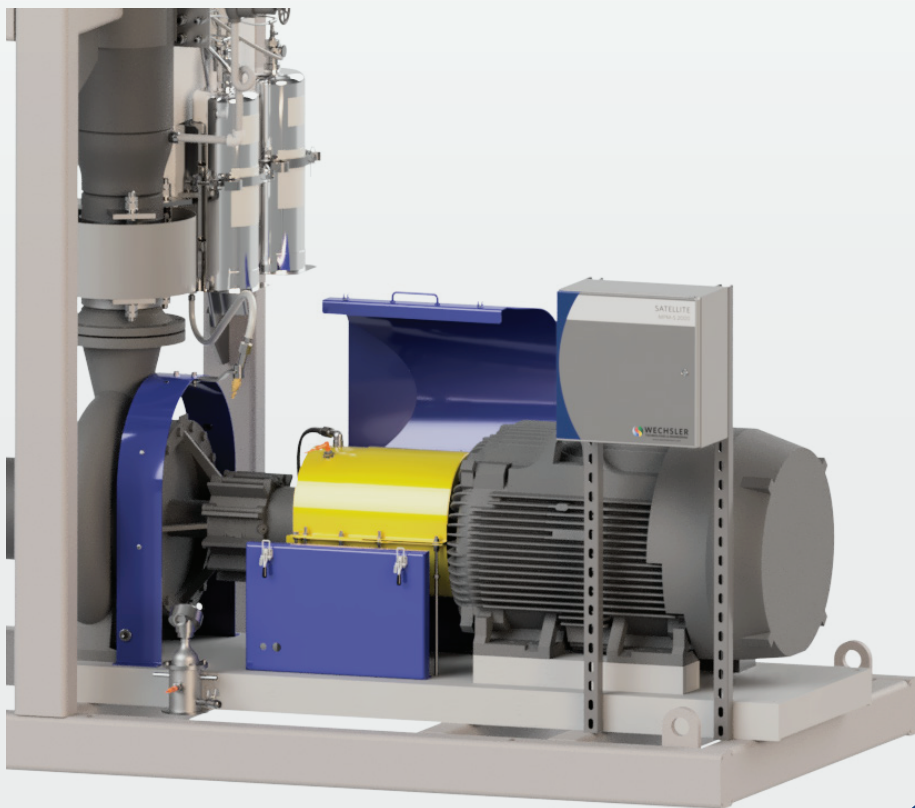


PumpGuard™

Pump Protection System

Localized fire suppression and monitoring for thermal fluid pumps to protect your equipment, process, and people.



WECHSLER
TECHNOLOGIES

The most common cause of fires in thermal fluid systems is the degradation and failure of mechanical seals in thermal fluid pumps.

What would a plant fire cost you?

1

**Personnel
injury or death**

2

**Capital
equipment loss**

3

**Production
downtime**

4

**Extensive foam
cleanup**

The PumpGuard adds layers of protection to reduce the risk of thermal fluid pump fires!

Three Layers of Protection



Forced air cooling to prolong seal life

Dual guard housing (patent pending) directs motor cooling air across the pump's mechanical seal, reducing the seal's operating temperature and prolonging its.



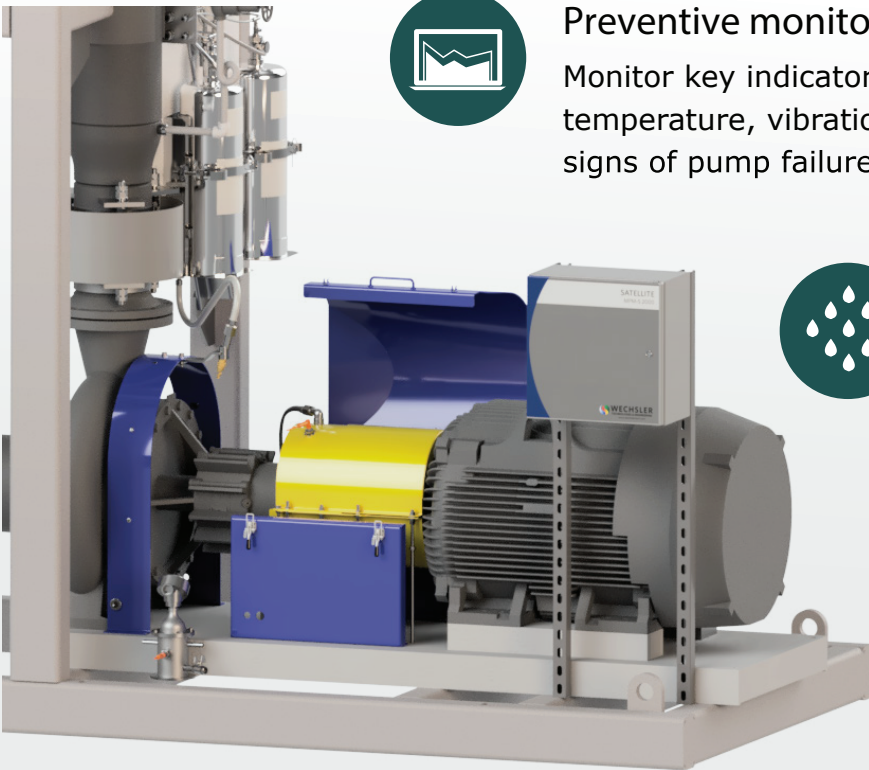
Preventive monitoring to predict possible failure

Monitor key indicators of pump health - including seal temperature, vibration, and leak detection - to detect early signs of pump failure before a fire occurs.



Active local fire suppression for ultimate protection

Foam suppressant delivered via spray nozzle directly to the source of the fire- minimizing affected areas and required cleanup.



Benefits	Conventional	PumpGuard
Preventative	None	Active seal cooling
Early monitoring	None	Leak, temperature, vibration
Early "at source" detection	None	At seal pump & volute
Targeted, local suppression	Limited to none	At seal pump & volute
Downtime on clean-up	Extensive	Short to none

Customize the PumpGuard to your plant's needs with options for total pump protection

1. PumpGuard Base System

Complete, pre-engineered package including the dual guard housing for **forced air cooling** and fire containment, fire-sensing temperature switch, and active, localized fire suppression

2. PumpGuard +

Dual-zone fire suppression coverage to both the mechanical seal AND the volute housing, providing total protection of the entire pump area

3. Seal Protection Package

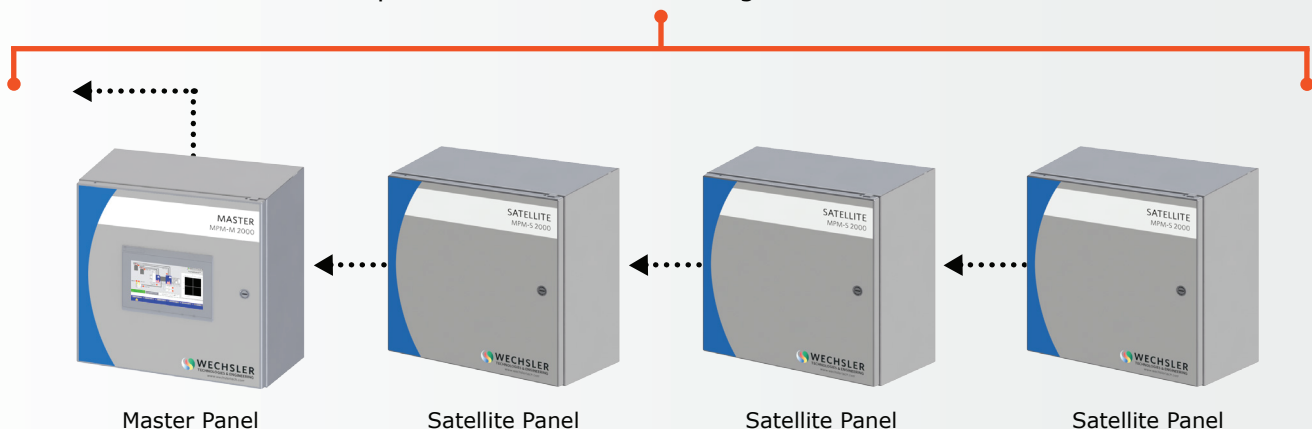
Monitor **seal temperature** and **vibration** to ensure pump health

4. Leak Detection System

Detect leaks due to seal wear and shutdown the pump on catastrophic failure

5. Multi-Point Monitoring System

Monitor all of the inputs from each PumpGuard System at a central HMI and transmit the inputs to the main PLC through a communications network



- » Single-cable communications between panels significantly reduces electrical installation costs
- » Local fault visualization, alarming, and acknowledgement