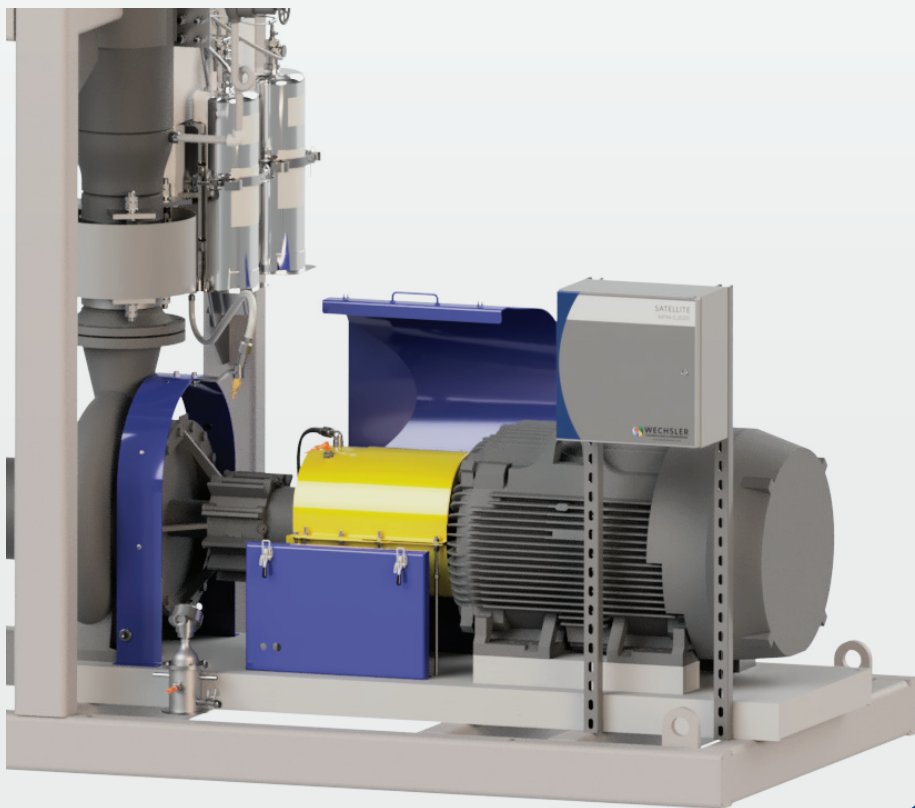


# PumpGuard™

## *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.



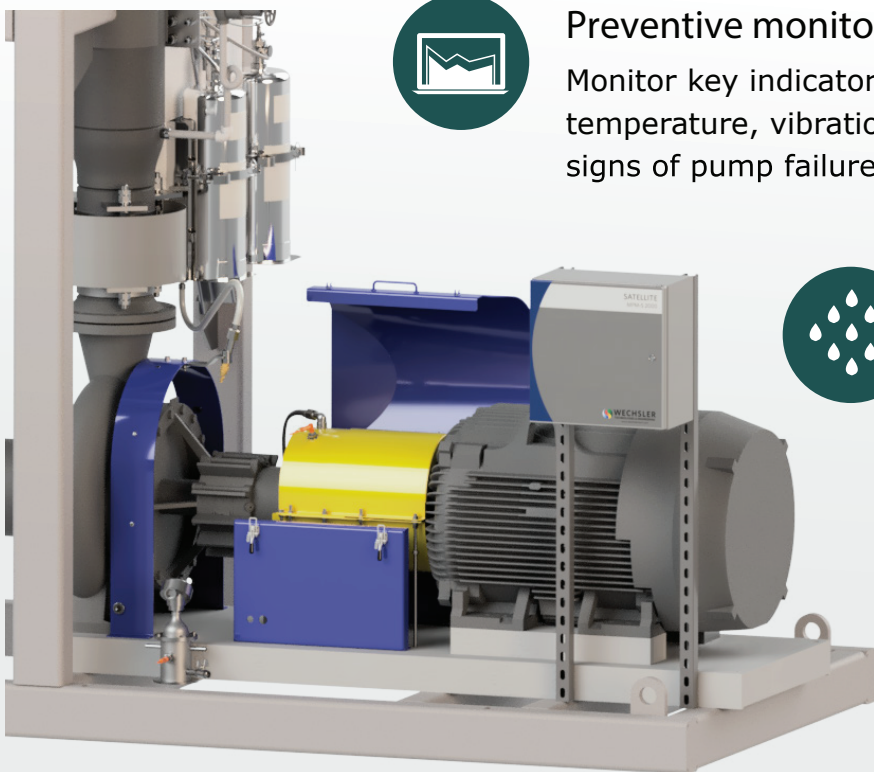
## Preventive monitoring to predict possible failure

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

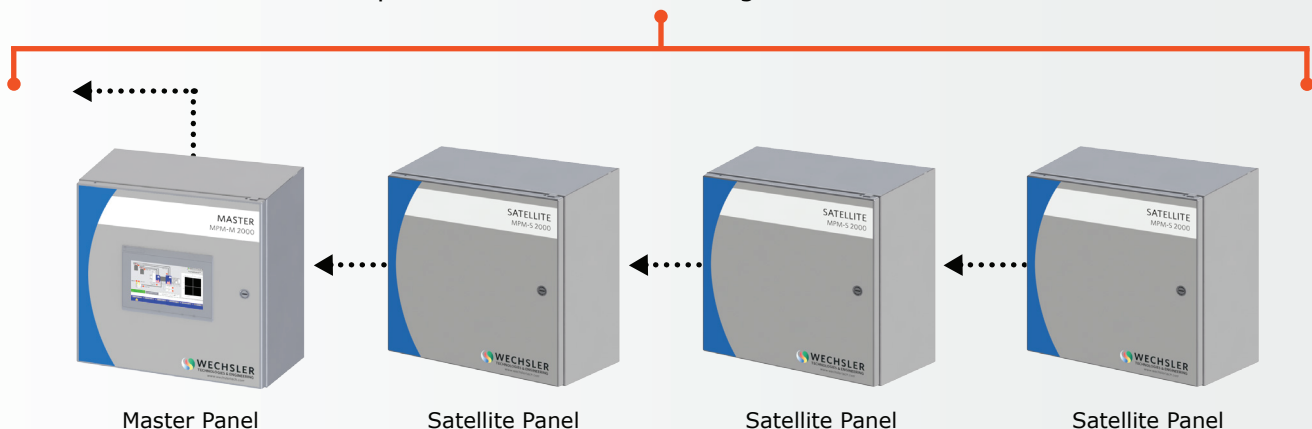
Monitor **seal temperature** and **vibration** to ensure pump health

## 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