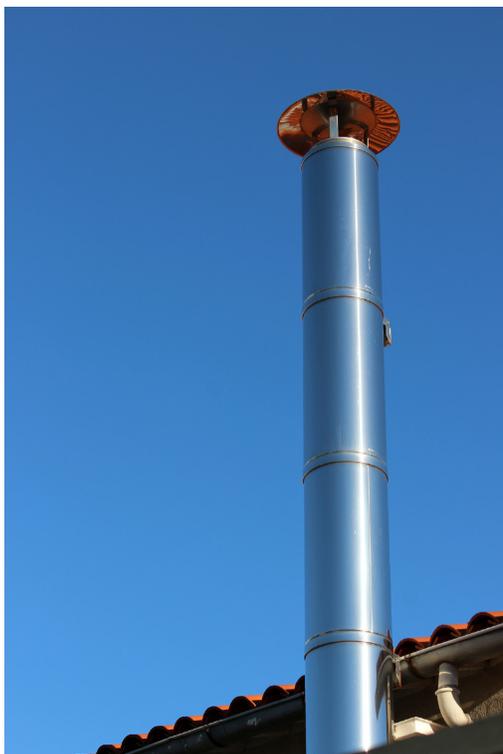# SPARTAN CONTROLS

StackVue™
Early Detection System

Identifying a fire in the tubes of a heat exchanger is a difficult proposition. An oil fire will generally have black smoke exiting the stack, but not always, as a smaller amount, a higher level oil (such as pentane), or a gas might not produce any visible smoke. To address this, operators must monitor the system through instrumentation, but currently don't, as it's not cost-effective to have an O2 Stack Analyzer on such a small appliance.

To address this need, the StackVue™ continuously monitors for the ignition of liquid hydrocarbons within the heat exchanger tube. By analyzing clean natural gas exhaust for unwanted hydrocarbons, specifically oil or a derivative of the oil gases passing in the flue stack. The combustion of another hydrocarbon can be detected and the system will provide a safety shutdown to the burner management system to ensure that there is no chance of continued fire or excessive appliance or building damage.

- 24/7 Monitoring
- Plug and play into any existing system
- Low power requirements
- Datalogging for events or maintenance
- Preserve people, property and process

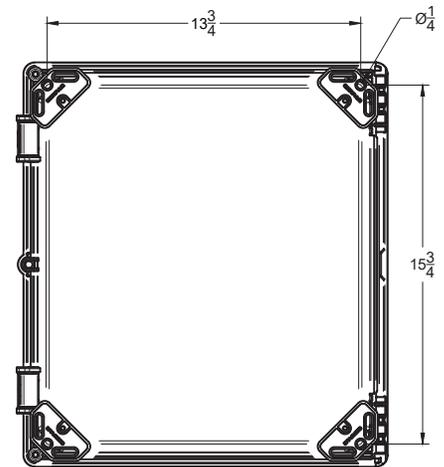# SPARTAN CONTROLS

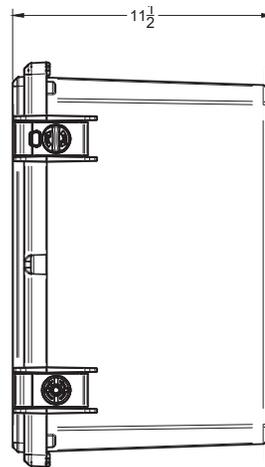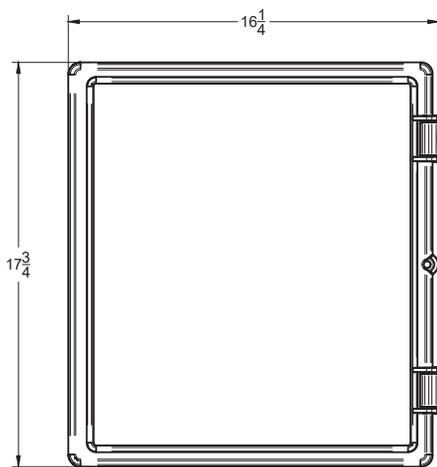## StackVue™
Early Detection System

Continuous stack monitoring through day and night ensures safety and reliability of the base unit. It is adaptable to both Brownfield and Greenfield by integrating onto many existing systems. As soon as the sensor is plugged into the box, the sensor reference is recognized along with a set of predetermined registers in the ECM, which start flowing data.

Applications

Appropriate where a fire tube is submerged in process. Examples include oil water separation, glycol heaters, or glycol reboilers. The system will be used different types of stacks throughout multiple applications from commissioning to decommissioning.

Technical Specifications

Environment	-25℃ to 40℃
Ingress Protection	NEMA 4x
Size	17 3/4" x 16 1/4" x 11 1/2"
Weight	15 lbs
Power Requirements	24 VDC
Area Classification	CLASS I, DIV. 2 GROUPS C & D, T3

BACK VIEW
MOUNTING HOLE PATTERN