

## HYDROCARBON ABATEMENT SYSTEM

The oil and natural gas industry and environmental agencies around the world are working to find solutions to reduce greenhouse gas emissions. With methane (CH<sub>4</sub>) having 25 times the impact on global warming compared to carbon dioxide (CO<sub>2</sub>), Solar Turbines has developed a modular hydrocarbon abatement system (patent pending). This system mitigates the effects of fugitive greenhouse gas emissions from the primary seal vent on Solar's centrifugal gas compressors using dry gas seal systems. The modular solution leaves the compressor operation unchanged without jeopardizing the safety, reliability, availability and efficiency of the equipment.

The abatement system collects and burns the dry gas seal primary vent gas (typically CH<sub>4</sub> rich natural gas). Through 98% efficient combustion, CH<sub>4</sub> is converted into CO<sub>2</sub> and H<sub>2</sub>O which are safer for the environment. This system is composed of three modules. The first module consists of a backpressure system for the primary vent enabling the capture of the vented fugitive gas into an accumulator (second module) without the need for additional compression equipment. The third module in the system is an enclosed burner that effectively and efficiently reduces hydrocarbon emissions.

The modular system is designed for simple integration on all TurboTronic™ 4 or newer control system packages with dry seal equipped centrifugal compressors. Solar designs and installs the standard system per unit. Multi-body, multi-unit, and other control systems can be evaluated upon request.

### Key Benefits

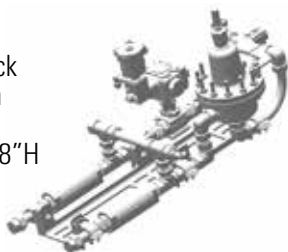
- Reduction of CH<sub>4</sub> emissions
- Easy integration and maintenance
- High efficiency (98%) and smokeless operation
- Smooth and steady operation

### Specifications

- Designed for TurboTronic 4 and newer control systems; other controls systems can be evaluated upon request
- Single system per compressor body; multi-body and/or multi-unit can be evaluated upon request
- NEC and ATEX certified

#### Module 1

Primary Vent Back Pressure System  
On Skid  
30"L x 15"W x 18"H  
110 lbs



#### Module 2

Accumulator  
Off Skid (outside bldg)  
54"L x 40"W x 98"H  
1200 lbs



#### Module 3

Enclosed Burner  
Off Skid (outside bldg)  
30" Dia x 228"H  
2000 lbs

