



CASE STUDY: ASHCOR HCVC 800 COMBUSTOR FOR HEATER TREATER GAS

ASHCOR flaring systems are designed and manufactured with each customer's specific operational needs in mind. When a customer recently came to the ASHCOR team in need of a high capacity enclosed combustor to burn excess heater treater gas, two ASHCOR High Capacity Vapor Combustor (HCVC) 800 units were commissioned to meet the challenge.

The customer's site in Colorado already employed five working combustors – three of which were used to burn heater treater gas. However, the three existing combustors were insufficient in burning gas at the necessary levels, and the customer faced the possibility of pinching the wells back due to lack of combustor capacity.

Additionally, Colorado's strict flaring [regulations](#) provided a challenge to the customer to operate compliant enclosed combustors with minimal noise pollution, no visible flame and reduced radiant heat.

With this in mind, the customer turned to ASHCOR to build two enclosed combustors that would reliably and efficiently burn the waste gas produced on site. The ASHCOR team worked with the customer to gather data needed for the design including gas composition, supply pressure, temperature, elevation and flow requirements. The units were sized, and the ASHCOR HCVC 800 (standard design 800 mscfd) was selected as the best option for their operating requirements. Ignition controls were provided by the Flame Smart Burner Management System Ei+.

The ASHCOR HCVC 800 units included these design specifications:

- 48 MMBTU/hr firing capacity
- Stainless steel construction
- Gas train controls and monitors gas flow to the burners
- Continuous pilot and flame presence monitoring
- Pressure based system operation
- Proprietary burner design
- Dampers regulate air flow to the combustion zone

Since the units' installation on-site in Colorado in January 2019, they have been operating at or above full design capacity without any down time. The customer has indicated that the site where the units are installed is a harsh environment, especially in winter. The high level of performance the units have demonstrated in their initial weeks of operation has proven them to be a robust solution to the customer's combustor capacity issue.

The ASHCOR team has continued to work with the customer to solve additional on-site challenges, and are currently working to develop a gas dryer system to assist with treating all instrument gas at this location.

In summary, ASHCOR provided this customer with a cost-effective and quick-turnaround flaring solution for a heater treater application, and the ASHCOR HCVC 800 units delivered the extra combustion capacity needed to keep the customer's well pad at full production.

If you're interested in working with the ASHCOR team to develop a flaring solution for your on- site challenge, [contact our team](#) today.