

## GAS CONDENSATION PREVENTION

### Application

Many industries use gases for everything from fuel to manufacturing of fiber optic cable. Different gases require different types of heat for condensation prevention or process heating. Natural gas is a mixture of water and hydrocarbon liquids that are present in gaseous components that are in the natural gas supplied to end users. Gases from landfills or reclaimed from other processes may have contaminants in suspension that would be undesirable should the gas condense. The temperature, moisture content, and pressure of the gas will have an impact on the formation of condensate. Gas condensate may not be present when temperatures are warmer; however, condensate can form inside industrial facilities during winter when pipes are in cooler or unheated areas. Condensates increase maintenance costs in fuel gas transmission lines by corroding pipes, and clogging components. In addition to damaging the system, condensate can cause errors in flow measurement, variation in properties of the fuel, and particulates may prevent valves for fully closing.

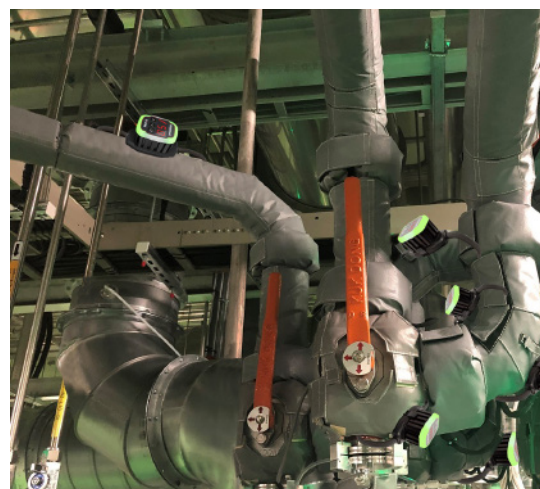
Gas handling systems need to deliver high-quality gases with consistent physical properties while minimizing environmental impact. End users need to protect their gas piping by using heat and insulation to prevent condensation.

### Solution

BriskHeat offers several solutions for heating piping and components both indoors and outdoors. Gases used for sensitive processes may require heating systems which not only prevent condensation, but may require more sophisticated heating and control systems. These can hold the gas to a more specific temperature to react for a specific process. BriskHeat's team of account executives and application engineers can assist with everything from simple heating systems for fuel gases to thermal simulations required for process heating solutions.

Custom cloth heating jackets with integrated LYNX® temperature control modules provide excellent temperature uniformity required for process gas heating applications. They are often used for high vacuum systems, flat panel, and fiberoptic cable manufacturing. Our custom design optimizes heat transfer by providing jackets that fit snugly around pipes, valve, pumps, and other components. BriskHeat offers several lines of cloth jackets to meet your needs.

For simple condensation of gases in unheated areas or those close to exterior walls, self-regulating heating tapes and insulators are the most economical way to prevent condensate from fowling your system.



### Thermal Simulation & Analysis



### Industries

Chemical Processing/Extractions  
Energy/Power Generation  
Gas & Oil  
Gas Handling

Manufacturing  
Semiconductor, Flat Panel,  
Photovoltaic/Solar

### Types of Users

Process Engineers  
Piping Contractors  
Facility Maintenance Personnel