

# GAS PRODUCTION UNIT

## PRODUCT OVERVIEW



Gas Production Units (GPUs) are enclosed pieces of equipment that regulate well stream flow, pressure and temperature. GPUs separate the various components found in a natural gas stream. When natural gas is extracted from underground reservoirs, it often contains impurities and unwanted substances such as water, hydrocarbon liquids and inorganic gases. GPUs use a combination of separation and temperature adjustments to remove unwanted components and prepare gas for further processing, pipeline delivery or transport.

### 1 HEAT SOURCE

Indirect line heaters are utilized to maintain optimal temperatures. RBI GPUs use a firetube submerged in a glycol medium that transfers heat to a coil. The Indirect line heater stabilizes temperatures before pressure drops.

### 2 PRIMARY SEPARATION

In this stage, the gas stream is passed through a 2 or 3 phase separator, where the bulk of the liquid hydrocarbons and water are removed.

### 3 METERING

Metering of gas, oil and water streams for production accounting, pipeline monitoring and sales data.

### 4 I&E

Instrumentation and Electrical Packages are customized based on customer requirements.

## SPECIFICATIONS

- Two or three phase separation
- Separators are typically 20" to 42" outside diameter
- Enclosed cabinet available for challenging operating environments

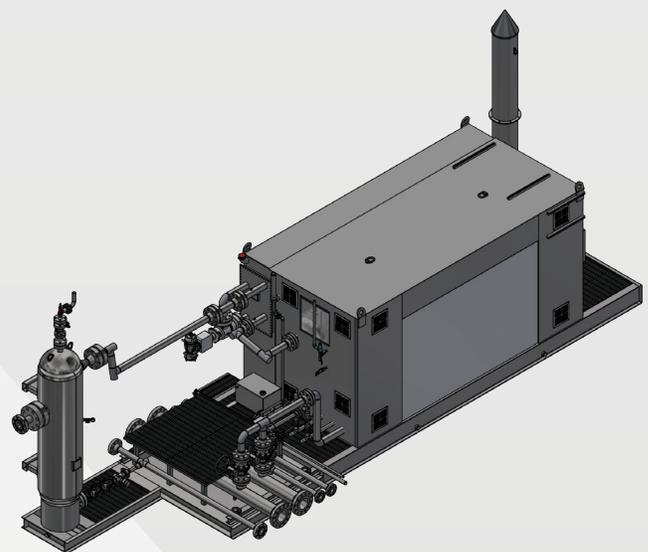
## APPLICATIONS



FLOWBACK



PRODUCTION





## FEATURES

- Indirect Line Heater – Built to 12K Specifications
- I&E Options
- Supply Gas System with Gas Preheat Coil, Supply Gas Scrubber, Burner and Pilot Controls and Emergency Shut-Off
- Meter Tube with Junior or Senior Type Orifice Fittings
- Hinged Stack for Transport with Bird Screen
- Pressure Relief, Temperature and Level Gauges and Other Necessary Instrumentation
- Interlocking Units Available
- Separators and Scrub Pots Built To ASME Section VIII, Div 1 or 2
- Separator Internals – Weir Bucket or Interfacing Style with Mist Extractor and Baffles
- Two or Three Phase Separator, with Drain, Pressure Relief, Level Controllers, Dump Valves and High/Low Shutdown
- Integral Skid and Walk-Through Cabinet or walk-in cabinet and modular designs available
- Natural Draft Burner with Flame Arrestor
- Removable Split-Pass Coil Bundle with Choke
- Process Piping Built to ASME B31.3

## PRODUCTION BENEFITS

- GPUs ensure that the natural gas extracted meets the required quality standards for transportation and consumption. By removing impurities and other unwanted substances, they improve the overall quality of the gas.
- Additionally, GPUs help reduce emissions and waste generated during production, thus contributing to minimizing the environmental impact of natural gas extraction.

