



# ***Gas Turbine Heat Recovery Steam Generation***



***Extreme Duty  
Fabric Expansion Joint Assemblies***

## GT/HRSG

**Baker Energy Group** specializes in the design, manufacture and supply of High Temperature Fabric Expansion Joints and Framework Assemblies for GT/HRSG Systems. Gas Turbine Exhaust Systems have unique design characteristics. This includes **HIGH** output exhaust gas temperatures that can exceed (760 C / 1400 F), with accompanying **HIGH** exhaust gas velocities and movements, at varying pressures. The design must consider the operating conditions applicable to the System. Material considerations include: **Zero Shot Ceramics, Silica Glass Textiles & Insulation along with Innovative Metal Frame Design.**

### Design



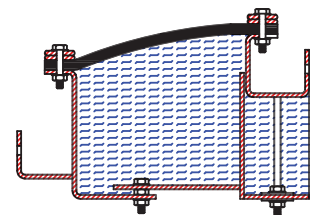
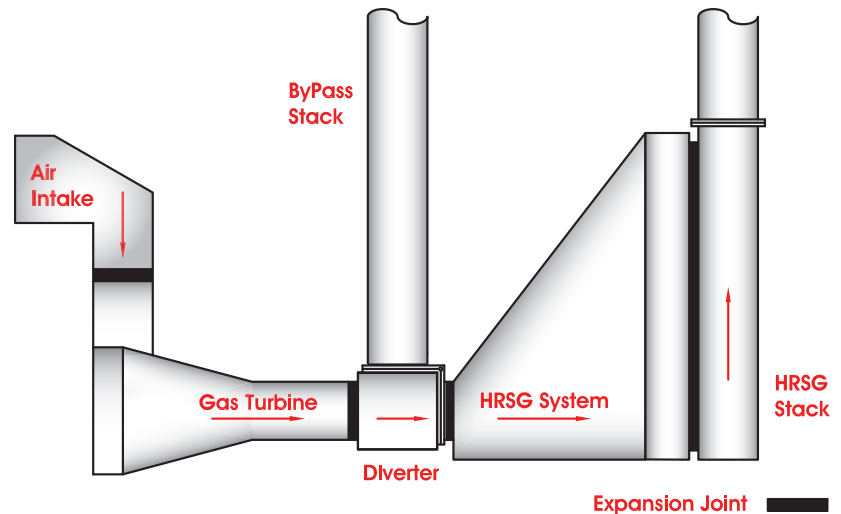
### Fabrication



### Assemblies

## GT/HRSG

### System Diagram



## EXTREME

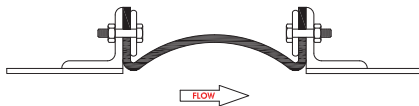
**Thermal & Mechanical Movement Control Designs**

## GT/HRSG

### DESIGNS FOR:

- ◆ THERMAL & MECHANICAL MOVEMENT CONTROL
  - ◆ ROUND & RECTANGULAR FRAME ASSEMBLIES
  - ◆ ONE-PIECE & SECTIONAL FRAME DESIGNS
  - ◆ ACOUSTICAL DESIGN FOR SOUND & VIBRATION ABSORPTION

### AIR INTAKE

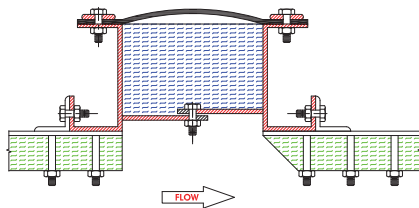


- ◆ GH-300E-A EPDM/ARAMID – 300F (149C) Continuous
- ◆ GH-400F-A VITON/ARAMID – 400F (205C) Continuous

*Viton is a registered Trademark of the Dupont Company*



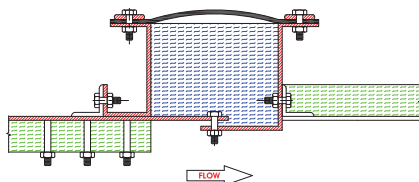
### COLD TO COLD



- ◆ GH-1200H-CA-SS COMPOSITE W/2MIL 304SS 1000F (538C) Continuous
- ◆ GH-1500H-CA-I COMPOSITE W/ 2MIL INCONEL 1500F (807C) Continuous

*CERAMIC & SILICA GLASS TEXTILES & INSULATION*

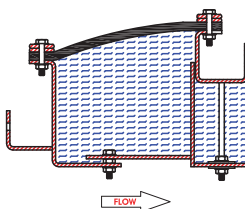
### COLD TO HOT



- ◆ GH-1200H-CA-SS COMPOSITE W/2MIL 304SS 1000F (538C) Continuous
- ◆ GH-1500H-CA-I COMPOSITE W/ 2MIL INCONEL 1500F (807C) Continuous

*CERAMIC & SILICA GLASS TEXTILES & INSULATION*

### HOT TO HOT



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*CERAMIC & SILICA GLASS TEXTILES & INSULATION*





## ***Mission / Vision***

*Baker Energy Group, as a wholly owned business unit of Baker Bohnert, is a unique “**Single Source**” concept for the design and manufacture of Fabric Expansion Joints and Breaching Framework. This also includes **on-site** technical support and **service**.*

*Baker Energy Group joins Baker Bohnert as it enters its seventh decade of providing to the Power Generation, **Gas Turbine / Heat Recovery Steam Generation**, Chemical and Processing Industries world-class service, quality, value and information.*

*This “**Single Source**” concept is structured to utilize the most advanced sealing technologies in concert with the best state of the art thermal management products available. With this, Baker Energy Group will produce the most flexible, cost effective and longest lasting expansion joints on the market today.*

# ***GT/HRSG***