



# Diffusers

Power Market

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## Diffusers That Tame

### HIGH VELOCITY EXHAUST FLOW

Diffusers are located in one of the most volatile environments in a gas turbine power plant. The extreme heat, vibration and high velocity of the exhaust gases are the major factors to consider in how the diffuser should be designed and built to perform. Innova is an OEM trusted supplier of diffusers that have a unique geometry to redistribute highly turbulent exhaust gases to either simple exhaust systems or HRSGs. Made with quality materials, our diffusers are built to last.



DIFFUSER FOR SIMPLE CYCLE POWER PLANT

## Features

- » Proven internal liner designed to structurally and thermally withstand hot, turbulent exhaust gases
- » Consideration for gas turbine compressor bleed pipe interfaces
- » Utilizes special high temperatureresistant materials and an expansion joint at the gas turbine manifold interface

## Add-on Services

- » Acoustical consulting
- » Field technical assistance/installation
- » Commissioning
- » Retrofits available to any site worldwide

## Add-on Products

- » Higgott-Kane™ silencing system
- » Bypass system with diverter damper
- » SCR /CO catalyst system
- » Anti-icing system/inlet heating system
- » Acoustic buildings, barriers and enclosures

## Noise Management™ Assembly Details

- » Acoustic design
- » Exhaust flow analysis
- » Structural/mechanical design
- » Fatigue analysis

## Leverage our Experience

Due to the operating nature of gas turbines, poorly designed diffusers can easily develop cracks and erosion due to prolonged operation and extreme heat. Inadequate designs can also cause considerable stress on the exhaust equipment and excessive noise.

Innova provides end-to-end solutions for gas turbine power plants and this knowledge translates to knowing what potential problems can occur and how to engineer a product to avoid them. Our exhaust diffusers are fabricated under strict quality control as set out by our ISO 9001:2008 certification which ensures you receive the very best equipment for your site.

Regardless of which turbine is on your site, Innova has an exhaust diffuser design to assist the transition of the gas stream into the exhaust silencer, stack or HRSG.



## DESIGN SOFTWARE TOOLBOX

- Finite Element Analysis (FEA)
- Computational Fluid Dynamic Analysis (CFD)



Balance Without Compromise™

[WWW.INNOVA-GL.COM](http://WWW.INNOVA-GL.COM)  
[INFO@INNOVA-GL.COM](mailto:INFO@INNOVA-GL.COM)