

9B through 9E Advanced Aero Stage 3 Bucket and Stage 3 Nozzle

fact sheet

Achieve Improved Output and Heat Rate Levels, Greater Efficiency and Reliability

GE has redesigned the stage 3 bucket and stage 3 nozzle for the 9B through 9E gas turbines to increase efficiency and to improve output (up to +1*) and heat rate (up to -1%*). With the implemented design improvements, GE offers a bucket and nozzle combination that provides significant benefit to your 9B through 9E gas turbines.

The Advanced Aero bucket and nozzle can be installed separately, or combined for even greater benefits. Together, the redesigned bucket and nozzle provide improved axial flow, which reduces exhaust turbulence. This reduction can reduce maintenance on exhaust diffuser turning vanes.

Benefits

- Incremental 1%* output
- Incremental 1%* heatrate
- Easy installation/upgrade
- More durable components

Features

- Stage 3 Bucket Improvements:
 - New, higher efficiency, 3D aerodynamic design
 - Improved durability due to optimized conical tip shroud fillet (also increases tip shroud engagement)
 - Re-scalloped tip shroud results in improved stage efficiency
 - Extended platform provides better overall bucket balance

- Stage 3 Nozzle Improvements:

- New airfoil 3D aerodynamic design improves output and heat rate
- Significant reduction in Hub Mach number
- Improved airflow exit angle
- Latest GTD-222+ nozzle material
- Improved mechanical design features complement this new design

Applicability

This offering is intended for all 9B through 9E gas turbines.

These new components can be used to replace or easily upgrade old 3rd stage components that have reached their usable life limits. Additionally, customers can also expect to recover significant degradation with these new components.



*at ISO conditions



For more information, contact your GE Energy sales representative or visit www.ge.com/energy.

©2005 General Electric Company. All rights reserved.

GEA-14364 (12/05)