

**BULLETIN
PB-5120-001**

PRODUCT: 5120 TEG
DATE: 25-FEB-2011

SERIAL NUMBER RANGE:
START: none
END: none



5120 with Optional Flame Arrestor Kit

5120N-12-SI-SO-FA: PN 9560-08232
5120N-24-SI-SO-FA: PN 9560-08233

This document clarifies the design of the Flame Arrestor Kit used in Gentherm Global Power Technologies' (GPT) general-purpose Model 5120N thermoelectric generator (TEG).

It must be noted that if a customer defines an area as hazardous (i.e.: may contain hazardous gases such as in a Class 1, Division 2 area) then TEG models 1120 & 1500 are the only GPT TEGs suitable for installation in these hazardous areas. The addition of a flame arrestor kit does not make the Model 5120 suitable for use in a hazardous area. For hazardous area use, TEGs require reduced surface temperatures (below hazardous gas ignition temperatures), addition of air intake and exhaust flame arrestors, and other modifications.

The natural gas fueled Model 5120N TEG with Flame Arrestor Kit has been tested in compliance with API Recommended Practice 12N, for the Operation, Maintenance and Testing of Firebox

Flame Arrestors as it applies to continuously run, gas fired, natural draft burners.

The Flame Arrestor Kit includes a flame arrestor on the air intake, which has been tested in compliance with CSA standard Z343-98. GPT considers compliance with API 12N and CSA Z343-98 as evidence that the Flame Arrestor Kit is adequate for use in unclassified areas.

Ultimately, decisions concerning the installed location and operation of a TEG (with or without a flame arrestor) are the responsibility of the customer, and installations should comply with all applicable regulations.

All TEG operators should be trained to follow the safe start-up procedure as outlined in the applicable TEG operating manual. GPT offers formal training programs on a regular basis. For further information contact GPT at the number below.

For more information contact:

Local Representative:

Alternate Contact:

Customer Service
Gentherm Global Power Technologies, Canada
001-403-236-5556
Customer.Service@Globalte.com