

**Honeywell**



## AUXILIARY POWER UNIT OVERVIEW

Delivering higher performance and enhanced reliability with a reduced cost of ownership

## Industry Challenges

The industry is being driven towards lower cost of ownership as it relates to fuel consumption, along with stricter emissions and noise standards at some airports. In addition, our customers are looking at more electric capability on board the aircraft for increased passenger comfort, requiring more power from the Auxiliary Power Units (APUs).

## Honeywell's Response

Honeywell is responding to these challenges with our newest HGT1700 APU featuring variable speed capability along with a start generator system providing 150 kVA of electrical power which will lower fuel burn by 10 percent. We are also providing an installation kit with the APU to address noise issues at the airports to support the latest regulations (ICAO Annex 16 Volume 1 Attachment C). These capabilities are further enhanced with our newest narrow body entrant where we incorporate these benefits while adding the new Low-E combustor to further decrease emissions by 25 percent over our competition. Honeywell is also testing new Bio-Fuels in support of green initiatives that will ensure our products exceed future requirements on board the aircraft.

## Our History

Honeywell is the largest producer of gas turbine APUs found on many leading aircraft. With more than 100,000 APUs produced and more than 36,000 in service today, Honeywell has a large APU installed base and is poised for further growth. We're powering more than 150 regional, executive, commercial and military applications, including both fixed wing and rotary wing.

Honeywell APUs continue to be the strong selection preference for high volume platforms like the Boeing B737 and Airbus A320. With our broad range of applications, we can support power requirements from 50 equivalent shaft horsepower up to 1700 equivalent shaft horsepower. Further complimenting our portfolio, we are developing our HGT750 and 131-9C which provide improved fuel consumption and lower emissions, respectively. The newest offering of the RE220 is the HGT400 supporting large cabin business jets and regional airline jets secondary power system requirements. From main engine starting and cabin cooling to electrical power generation, Honeywell's solutions employ leading edge technologies and integrated system architectures to deliver higher performance and enhanced reliability with a reduced cost of ownership. Honeywell has a long, proven history in the APU arena with production of the first gas turbine APU starting in 1948. Our 131-9 family has logged more than 100 million hours of service. Today's challenges have evolved to include fuel costs, achieving green-friendly standards, powering more electric systems on aircraft, supporting growth in emerging regions while also abiding by lower utilization due to airport restrictions. Gas turbine remains the most affordable, lightest weight solution to your power needs.

## Global Network of Support Services

Honeywell's comprehensive support network, spanning the Americas, Europe, Middle East, Africa, Asia and the South Pacific, delivers fully integrated service solutions and 24/7/365 support to meet the needs of the aerospace industry. As a world leader of aviation aftermarket services, Honeywell provides the knowledge and resources to take care of all your service needs – whenever and wherever you require maintenance and repair services.

**APUs Provide**  
Start power for main engine(s)

*Pneumatic power for environmental control systems*

*Drive power for other pneumatic and hydraulic system*

*Electric and pneumatic power for ground operations*

*Backup electrical and pneumatic power for in-flight*

**APU Benefits**  
Enhances main engine starting

*Offers self-sufficiency and operational flexibility*

*Provides optimal performance margin for most favorable cabin comfort in all temperature extremes*

*Reliable source of auxiliary power*

**Meeting tomorrow's standards today.**

## Why Honeywell?

50 years of auxiliary power experience

An industry leader in APU integration

Proven applications in helicopter, and fixed wing aircraft supporting both commercial and military applications

Proven performance – over 100,000 delivered APUs

Advanced manufacturing, production and material processes

Global service and support network

Innovation leader in green technologies

Proven applications in helicopter, and fixed wing aircraft supporting both commercial and military applications

## Honeywell Aerospace

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