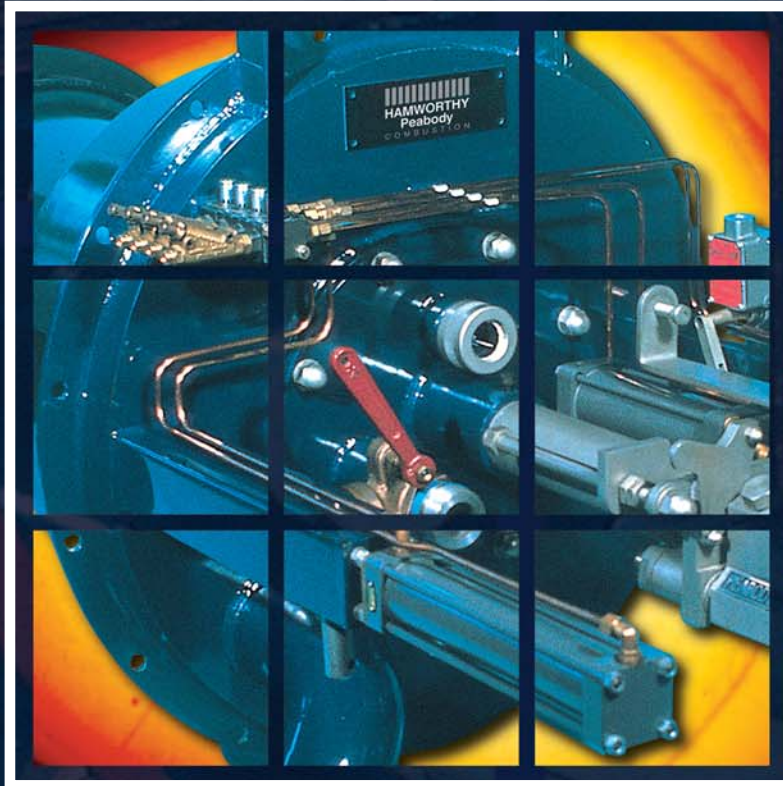


P R O V E N C O M B U S T I O N S O L U T I O N S

High Efficiency Oil & Gas Burner

Model APR



Hamworthy Peabody Combustion's high efficiency APR burner reduces both fuel usage and emissions. Significant operating benefits include:

- Axial-flow venturi design recovers combustion air pressure drop while assuring outstanding fuel/air mixing and combustion.
- Routine 3% low excess air operation.
- Low NOx and suppressed particulate emissions.
- Multi-fuel burner design fires oil, gas or waste fuels alone or in combination.
- Wide turndown range for load leveling and variable power requirements.
- Can be fired in front, opposed, up, down and corner applications.



HAMWORTHY
Peabody
C O M B U S T I O N

APR High Efficiency Burners

Hamworthy Peabody Combustion's APR (air pressure recovery) burner features an efficient venturi register design that assures exceptional efficiency combined with low stack emissions.

Routinely operating at 3% excess air, the APR burner extracts the most energy out of each pound of fuel fired. Considerable savings can be realized with low excess air operation.

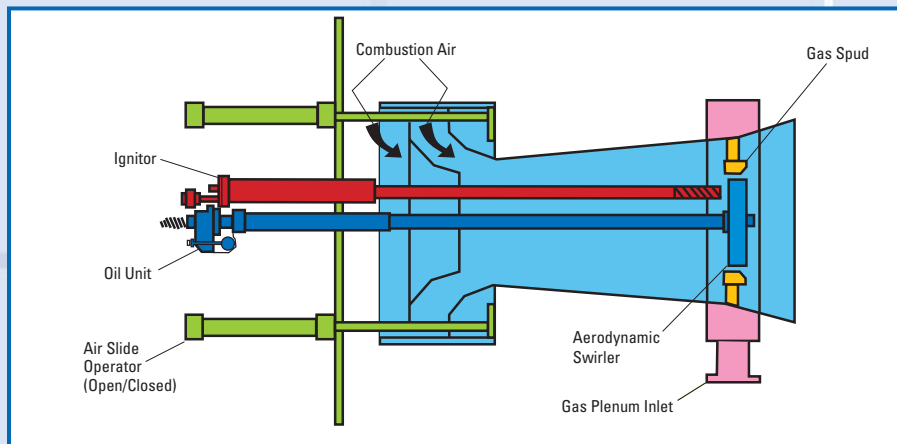
Low excess air operation minimizes the availability of oxygen to form NOx. This combined with fuel staged oil and gas nozzles, allows the burner to meet most emissions regulations.

The straightforward, fixed geometry burner design eliminates moving air doors, complicated mechanisms, and other high maintenance components. Rugged reliability is assured for retrofit and new installations.

Burners are available as complete packages with windbox, ignitor, and burner management equipment installed.

Contact a Hamworthy Peabody representative today for further information about APR burners or technical assistance.

Schematic of APR Burner



Specifications

Throat diameter:	12 to 39 inches
Firing rate:	20 to >250 million BTU/h
Excess air operation:	5% or less typical firing oil or gas
Fuels fired:	Light and heavy oil Natural gas and propane Refinery and waste gases
Oil atomization:	Choice of steam, air or mechanical
Gas unit:	Internal plenum with gas spuds
Register:	Fixed geometry venturi with axial swirl flame stabilization
Ignitor:	Hamworthy Peabody gas-electric, oil-electric or direct spark-high energy
Auxiliary ports:	Flame scanner, sight port
Turndown ratio:	Up to 10:1
Combustion air:	Ambient to 700° F
Fuel pressure:	Oil, 150 psig typical; Gas, 8 psig typical

For further information or to obtain a quotation dealing with any Hamworthy Peabody product, contact:

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Toll free: 1-877-PEABODY
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