

# HOT AIR GENERATOR



# WESMAN COMBUSTION EQUIPMENT

## HAG

Wesman's Hot Air Generators supply air/gas heated to elevated temperatures by mixing it efficiently with products of combustion from a burner. Our Hot Air Generators supply clean hot air/gas at the required pressure and temperature, depending on the application. Our systems provides excellent fuel economy and combustion control features for optimum results.

### KEY FEATURES

- Thermal Efficiency
- Robust Construction
- Multiple Fuel Options
- Control Options
- Gas and Oil Skids for Fuel Handling
- Blowers for HAG

### THERMAL EFFICIENCY

Wesman's Hot Air Generator (HAG) are equipped with highly efficient burner systems. Our range of pressure jet burners provide uniform heating across wide operating conditions.

#### Burner Design:

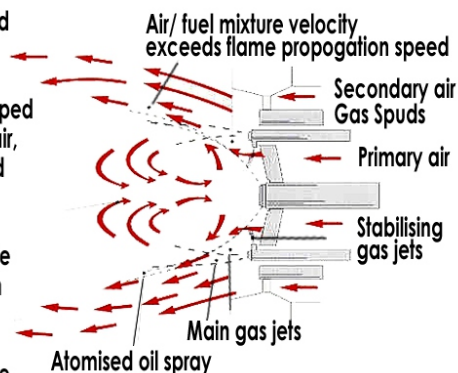
- High Combustion performance with low excess air
- Low atomizing medium consumption
- High turn-down ratio with good atomization
- Constant atomizing pressure over entire turn-down
- Wide flame stability over different ranges of operating conditions
- Suitable for ambient or pre-heated air

The flame shape is controlled by atomiser/ nozzle design and register aerodynamics

Gas recirculation zone developed by the highly swirled primary air, reinforced by the lesser swirled secondary air

Recirculation hot gases provide a continuous source of ignition for flame stability

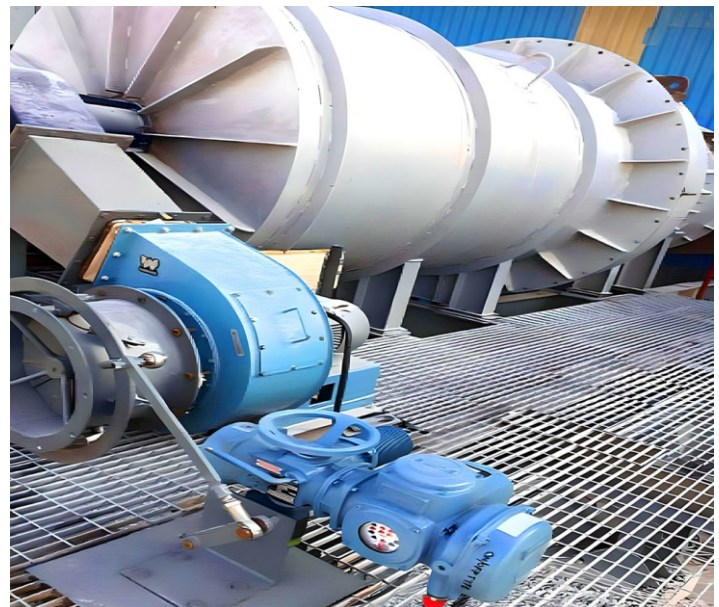
Mixing of secondary air into the flame envelope



Wesman's Burner systems provide excellent air fuel distribution via our nozzle mixing and swirler systems, which give the required heat distribution and uniformity for optimum combustion.

### ROBUST CONSTRUCTION

- Sturdy shell structure
- Double wall construction for dilution air
- High quality refractory and insulation
- Interconnections for gas/oil/air handling systems
- Shell structure designed with ventury mixing and circular outlet



## FUEL OPTIONS

- Wesman's Hot Air Generators can be fired with single fuel or dual fuel options. Following fuels can be fired (but not limited to):

- Natural Gas
- Furnace Oil
- HSD
- LDO
- Waste Gas/oil

- Dual fuel systems can be fired in isolation or in combination, if required.

## CONTROL OPTIONS

- We offer multiple options for operating Hot Air Generators:

### -Simple Manual Operations

- Basic Controls: Interconnected Air and Oil Control valves

### -Automated burner management systems

- Relay based controllers
- PLC based controllers

### -Flame detection and pilot gas ignition available



## GAS & OIL SKIDS FOR HOT AIR GENERATORS

- Wesman supplies customized fuel handling oil/gas skids for hot air generators.

- Full range of valves, gauges and pressure switches along with associated fittings for oil and gas are supplied as part of our solution.

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## BLOWERS FOR HOT AIR GENERATORS

- We supply a full range of Blowers for Hot Air Generator Applications:

- Combustion Air Fans
- Dilution Air Fans

### -Accessories:

- Inlet Guide Vane Damper
- Transmitters
- Venturi Tubes
- Expansion Joints
- Ducting

## INDUSTRIAL APPLICATION

- Hot Air Generators are applied in the following industries (but not limited to):

- Cement
- Minerals
- Chemicals
- Fertilizers
- Coffee/Tea
- Petrochemical
- Refineries
- Pulp & Paper
- Power Generation

### REGIONAL SALES AND SERVICE OFFICES:

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