

INDUSTRIAL HOT AIR GENERATORS

ENEVA designs and manufactures **industrial hot air generators (indirect fired heaters)** for a wide range of industrial processes requiring clean and reliable hot process air. Since combustion gases and process air are completely separated, ENEVA systems are ideally suited for **food industry and hygiene-sensitive applications**.

Compared to steam-based air heating systems, ENEVA hot air generators offer:

- ✓ Lower investment cost
- ✓ Higher operational efficiency
- ✓ Faster commissioning
- ✓ Reduced operating complexity

Our units can be manufactured in **carbon steel or stainless steel**, with **air outlet temperatures up to 300°C** and **thermal capacities up to 7 MW per unit**.

Product Overview (HAG)

ENEVA hot air generators are designed to heat **ambient or recirculated process air** indirectly, ensuring no contamination of the process air by combustion gases. Systems can be configured for **liquid or gaseous fuels** and engineered to match variable process loads with high turn-down ratios. By integrating **flue gas recuperators**, overall system efficiencies can exceed **95%**.

Key Technical Features

- Indirect heating – no mixing of flue gas and process air
- Design temperature: up to 300°C
- Thermal capacity: up to 7 MW (single unit)
- High turn-down ratio burners
- Low pressure drop, optimized heat transfer surfaces
- Designed for thermal expansion and long service life
- Compact and modular construction

Construction & Design

- Smoke tube and multi pass construction
- Vertical or horizontal design options
- Carbon steel or stainless steel construction
- Optimized refractory usage for uncooled hot surfaces
- Welded fabrication with controlled quality procedures
- Thermal insulation applied after fabrication to minimize heat losses

Advantages of ENEVA Hot Air Generators

- High thermal efficiency
- No pressure risk inside the plant
- Fast start-up and low first heat losses
- Low maintenance requirements
- Long operational lifetime
- Tailor-made engineering solutions

Delivery Scope (Optional)

- Burner (ambient air or preheated air)
- Flue gas recuperator
- Process air fan
- Air ducts and expansion compensators
- PLC control panel
- Frequency inverter for fans

