

***Ecopure*[®] TAR – Energy Optimized Waste Gas Purification**



Environmental and Energy Systems



Technologies · Systems · Solutions

Ecopure® TAR – Thermal Recuperative Exhaust Air Purification



Green technology made by Dürr

Environmental and Energy Systems (EES), a division of the Dürr Group, is a leading provider of solutions for exhaust air and waste gas purification. The latest plant technology provides efficient disposal of waste gas and liquid production residues, and reduces energy consumption with high process reliability. Dürr offers suitable complete solutions for the most diverse industries such as the automotive, chemical, pharmaceutical and coating industries. ■■■■■■

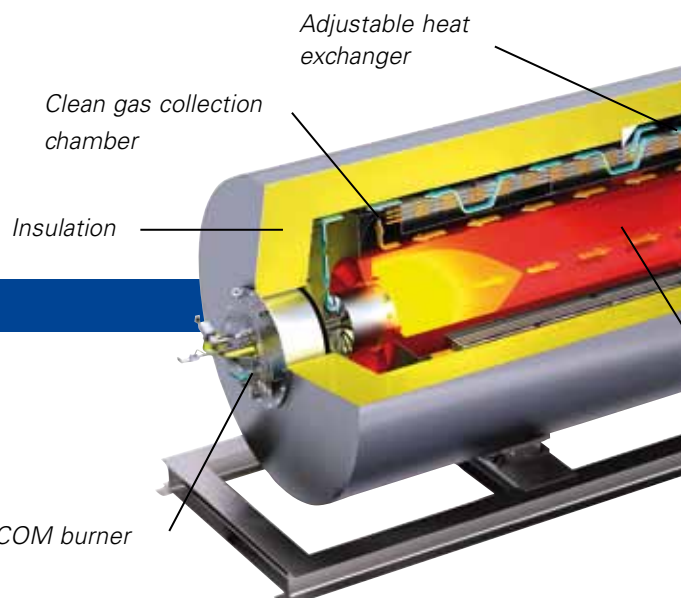
The New TAR Generation IV – Better in the Details

Comply with emission values – reduce energy consumption

The process for **Ecopure® TAR** (thermal recuperative exhaust air purification) is designed for 2,000 - 40,000 Nm³/h, and is generally suitable for plants with secondary heat recovery. It is particularly cost-effective with medium levels of pollutants in exhaust air. With **Ecopure® TAR** combustible organic and inorganic air pollutants contained in process exhaust air are incinerated at temperatures between 700 and 800 °C. The high heat energy contained in the exhaust air after combustion is mostly used to preheat the untreated exhaust air. ■■■■■■

New designs make the new TAR even better, for example:

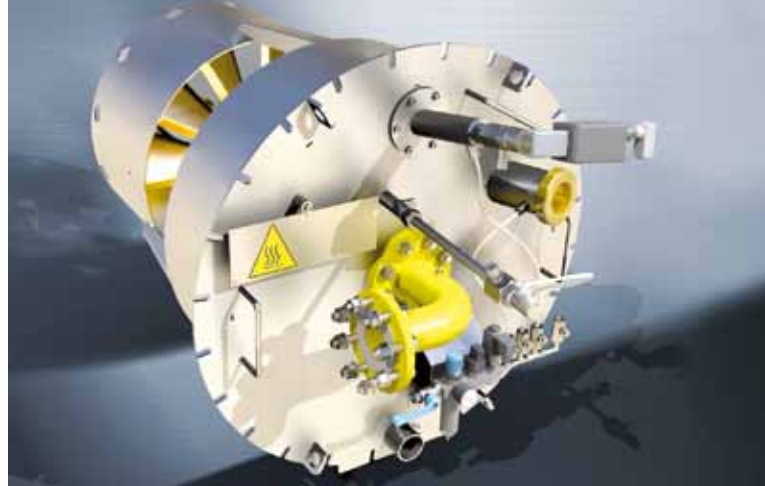
- New reaction chamber design
- Innovative TARCOM burner technology
- Adjustable heat exchanger for control of exhaust air temperature
- Uncompromising selection of materials
- Perfected expansion concept
- Improved thermal insulation



TARCOM burner

The Latest Burner Technology – 10% Energy Savings

The TARCUM burner, specially developed by Dürr for TAR units, leads directly to significant energy savings. Due to its special flame geometry it achieves a perfect combustion result with up to 40 °C lower combustion chamber temperatures when compared to conventional cone burners, depending on the application. This saves material, increases the service life and at the same time significantly reduces operating costs. The TARCUM burner is available for natural gas or LPG operation, and is also available as a dual burner for two different types of gas. (Oil burner on request.)

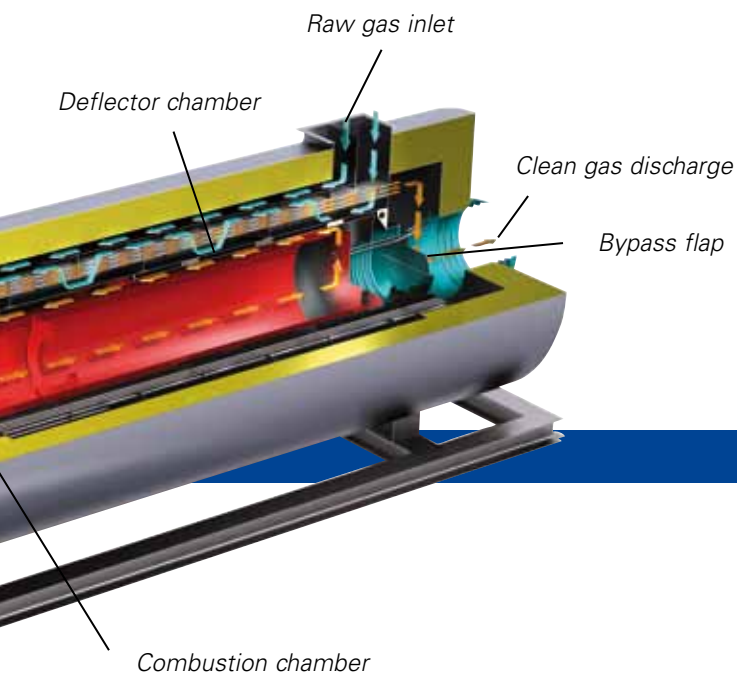


Thinking Ahead – Good Combinations from Heat Recovery

The **Ecopure® TAR** from Dürr can be combined with downstream heat recovery systems. Remaining thermal energy can be used to produce:

- Saturated steam, hot and warm water
- Heat transfer oil
- Hot process air

From the planning to the commissioning of TAR units with waste heat recovery systems (e.g. thermal oil, exhaust air and hot water heat exchangers), Dürr is an expert partner for its customers. The Dürr professionals also undertake the complete integration into production and subsequent service. The experience from the construction of 1,800 TAR systems in the past 40 years speaks for itself.



Ecopure® TAR – Energy Optimized Waste Gas Purification

- TARCOM burner technology – reduced energy input
- Low combustion chamber temperature level – preserves interior materials
- Overload reserve – up to 10% higher airflow overload capacity
- Superior heating-up performance – equipment preheats quickly
- Adjustable heat exchanger (optional) – temperature control with consistent clean gas quality
- Extremely compact design – compare with others

Environmental and Energy Systems
www.durr.com · sales.environmental@durr.com

Environmental & Energy Systems – high technology in environmental protection

