

# HIGH TEMPERATURE RE-CIRCULATION FANS



## MODELS FOR FURNACES AND THERMAL TREATMENTS

### WHY RIMOR?

Rimor is the only Italian company that can always offer industrial fans that are both belt-free and bullwheel-free and are connected to the case and axle thanks to innovative, reliable cooling solutions (water or air based) and thanks to the choice of the most adequate materials for extremely high temperatures. Customers particularly appreciate the possibility of layouts that are able to guarantee, at a reduced speed, important flow rates with parts welded or fused together.

The correct strategy for air handling has to be chosen in accordance with the layout of the elements that have to be heated: helicoidal (for furnaces without internal compartments) centrifugal (high speed and optimal air distribution that avoids stratifications).

### MAIN FEATURES

The furnace and thermal treatment sector requires reliable and durable solutions for its high temperatures processes.

The applications are multiple and require solutions that are compact, resistant and that can guarantee high yields.

This sector requires:

- compact solutions that can generate gas burners' combustion air in a compact way with minimum noise levels
- air handlings systems inside industrial furnaces that can guarantee uniformity of temperature and an increment of the heat transfer coefficient
- hot gases extraction with energy recovery
- heated elements cooling systems
- compartmentalization in controlled atmosphere with nitrogen and hydrogen that avoids metals oxidation

Rimor provides engineering competency and consultancy to every furnace manufacturer by providing dimensioning and certifying its products with the use of computational fluid dynamics. Rimor manufactures gas extraction and combustion fans, regulation valves for high temperatures, various types of stirrers for internal air handling in furnaces, special motors for high temperature processes, heat recovery ventilation and hot gas ejectors.