

Endothermic generators type THERMOLEN

In order to produce high quality of endothermic-gas, the composition of gas/air is a very important factor. The quality of the combustible gas should be always the same quality. The supply of natural gas and air is done in the same way as for the exothermic gas generation. Air and natural gas are mixed in a very special way in the retort inlet. The so created mixture is controlled by a flame non return safety device. The retort made of a special centrifugal casting is filled with catalyst in order to speed up the reaction. After the gas has left the retort it will be cooled down and transported to its final usage.

The demand for safety and availability of the systems was growing during the last years. Following this demand FK Industrieofenbau + Schutzgastechnik has designed beside the standard 1-retort systems a 2-retort system in order to fulfill these demands.

The new designed double-retort systems have the advantage that the range of produced gas varies from 30 m³/h up to 120 m³/h produced gas.

Beside the safety aspect is it possible to operate these newly designed units also only with one retort. Both retorts have independent heating systems and automatic temperature adjustments and controls.

The heating-up time for the system is just 30 minutes.

The special designed and FK-made cooler is a compact stainless steel unit and is direct connected to the retort without a distance piece in between. Due to this very compact design the building of soot is eliminated.



Endothermic generator type THERMOLEN with two retorts



Endothermic generator type THERMOLEN with one retort