

WHY CHOOSE CIB UNIGAS

Relation between NO_x emissions and CO

Emissions of nitrogen oxides and carbon monoxide are strongly correlated as both depend on the stoichiometry of the combustion. Excess of air affects both emissions and the efficiency of the generator. In a logic of compromise, reducing fuel consumption requires a reduction of excess air.

The limit is given by the emission of CO. In the burners of the previous generation this choice had priority on NO_x emissions.

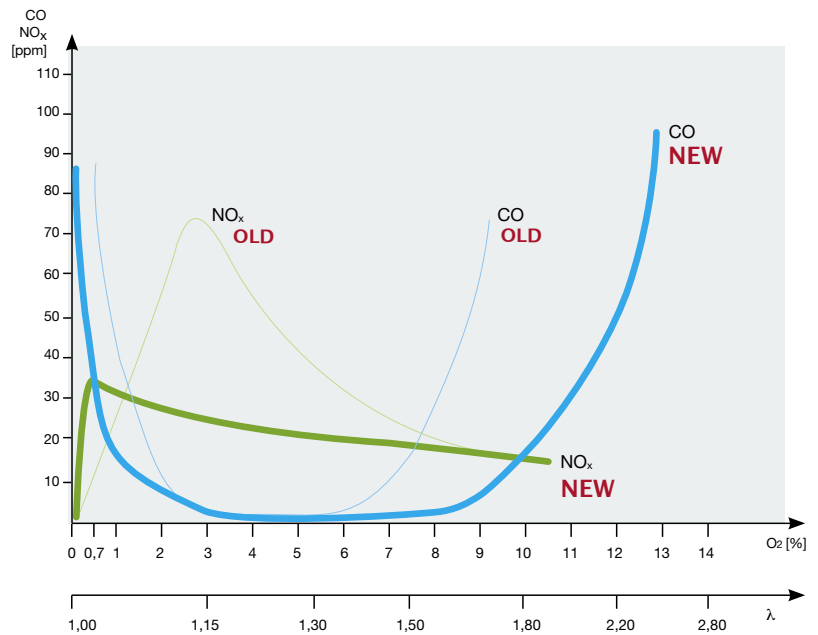
THE "ECOLOGIC" BURNER SERIES HAS REACHED A GREAT GOAL: WIDE RANGE OF COMBUSTION FLEXIBILITY

The development of low burners emissions represent a real revolution in the way NO_x and CO interact when changing the excess of air.

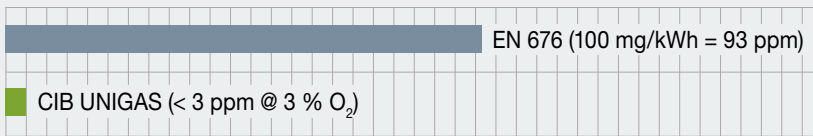
The new series of Low NO_x burners from the CIB UNIGAS ensures zero CO values in a very wide range of operation, with residual oxygen between 0,5 % and 8 %, while maintaining low NO_x emissions almost constant.

The advantage is obvious: the careful choice of the generator makes possible, for example, to set the oxygen at 1,5% without formation of CO; increasing the efficiency of the thermal group without deteriorate the NO_x emissions.

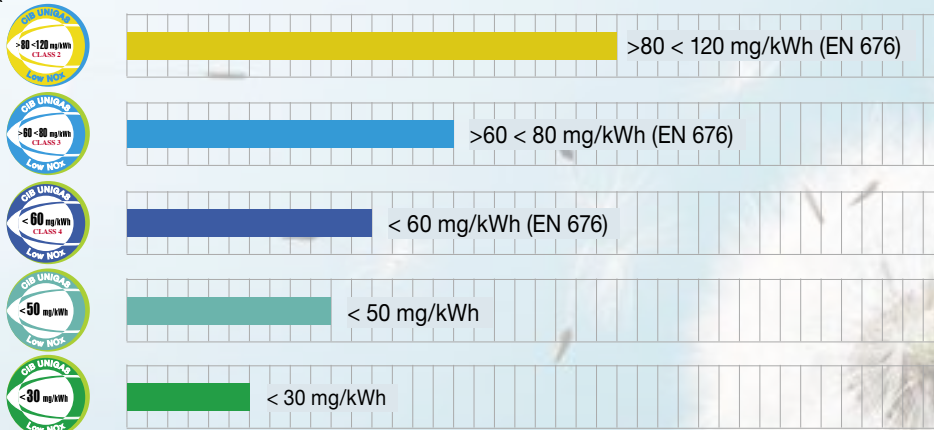
It is economical and ecological.



EMISSION LIMIT CO



NO_x EMISSION LIMITS ON 3 SMOKE-PASS BOILERS



Reverse flame boilers: contact our Technical Department.