

VOSGES srl

Magnetic Catalyzer Department

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**STEPS TO BE TAKEN FOR THE CORRECT INSTALLATION
AND PROPER PERFORMANCE OF VOSGES SUPER
CATALYZER**



**NEW FUNCTIONALITY WITH THE APPLICATION OF
MAGNETIC CATALYZER SUPER CATALYZER**

FUEL: GAS OIL AND HEAVY OIL

1. After checking the equipment on which the Vosges apparatus has to be mounted, the weekly gas oil consumption and production must be verified at the liters counter for, at least, four weeks.
2. After having verified the model of the equipment based on the data required by the same (see our technical service form), and before installing the Super Catalyzer, make a complete analysis of smoke and combustion and take records of the data, including the instant consumption at the moment through the nozzles.
3. If possible, check the time needed to bring the boiler to its full working capacity.
4. Install the Super Catalyzer on the head of the burner, between the pump and the nozzles.
5. At this point it must be noted that on account of the strong magnetic field on the fuel, the combustion velocity will increase, and moreover the thermic performance. In view of the above it might be necessary to reduce the nozzles of the burner, beginning from 10%, consequently it must be reduced the O₂ at the minimum it's possible.
6. Leave the equipment as it is for some time so it may stabilise at new conditions.
7. Make the analysis of the smoke again and, if necessary, make corrections to obtain the optimal value, including the colour of the flame which should be as near as possible to blue marine.
In such working conditions the burner and the boiler will give the best performance and therefore the heat obtained will be perfect and total.
8. It must be noted that the theoretical point of absolute combustion is obtained with the following values

$$\text{CO}_2 + \text{O}_2 = 15.5$$

9. To verify the previous data check again the time necessary to obtain the best value.
10. Check again, at the liters counter and with the same weekly frequency, the consumption and the production, compare them with the consumption and the production before the installation of Vosges Super Catalyzer.
11. In the case that the burner has already an optimal performance and it is in accordance with the boiler (Kw of the boiler correspond to the maximum Kw of the burner), it is possible to reduce again the nozzles of another size.