

## GAS GENERATOR

### ***MODELS:***

- ☐ **6 kW - 1"**
- ☐ **12 kW - 1 1/2"**
- ☐ **18 kW - 2"**

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This equipment allows dosing of Amine inside a pipe made of PTFE in a high accuracy way by means of an flow meter. The quantity of Amine is directly settable via control panel.

The air heater, placed on the bottom cabinet, is composed of aluminum casting plates. Inside these plates there's a maze where the air passes through and, due to the contact with hot surface it is heated.

The temperature is controlled by a digital instrument and adjustable thermostat controls the eventual over-temperature. Amine is injected directly into the pipe routed outside the heater, here becomes vapor and it is driven by the hot air flow. The purge procedure is made by means of system composed of electro-valves and analogic servo-valve to control and adjust the air pressure. All the operations, the receipts (100off savable), the manual cycle and the auto-cycle are controlled via PLC.



## GAS GENERATOR ADVANTAGES

1. **EUROMAC's** Gas Generator is supply with an high accuracy instrument that, due the precision, allows a dosing rate of  $0,5 \text{ cm}^3$  of amine, all other Gas Generators do not ensure a similar value. However the main advantage is the consumption rate:  $0,5 \text{ cm}^3$  each kg of sand;
2. This type of Gas Generator works with high temperature, the range at the heater is  $140-150^\circ\text{C}$ . This feature helps the gassing procedure decreasing the gassing time. The high temperature is allowed because the amine is injected directly on the pipe and not on the heater: when the amine is mixed on the hot air flow became gas and can be dispense inside the core box to form the cores;
3. Gas Generator allows is suitable for heavy cores where amines need to be injected in different times during the gassing procedure. When it's necessary use a significant amount of amine, this Gas Generator allows to dispense it in different phases. (i.e.  $100\text{cm}^3$  have to be dispense in 30sec, this amount can be injected splitted in 2 or 3 time during the gassing time). This ensure a saving of amine because the air flow inside the pipe remains full of gas. In a normal Gas Generator, Amine is injected at the beginning of the gassing procedure and all amount achieves the core box immediately, in this case amine is lost from the vents and most of it is not used.

