

FORMALDEHYDE GAS ANALYSIS DETECTION

To check formaldehyde emission in the production of wood-based panels, the "Gas Analysis Formaldehyde" investigation tool by Vetrotecnica has been designed according to the EN ISO 12460-3 / 717-2 standard



Vetrotecnica gas analysis formaldehyde, designed and built according to the **European Standard EN ISO 12460-3 gas analysis method EN 717-2** to check formaldehyde emissions from wood-based panels, has become, during its development, the tool of reference for most of the analysis laboratories operating in the field, above all for the absolute constructive simplicity of this instrument.

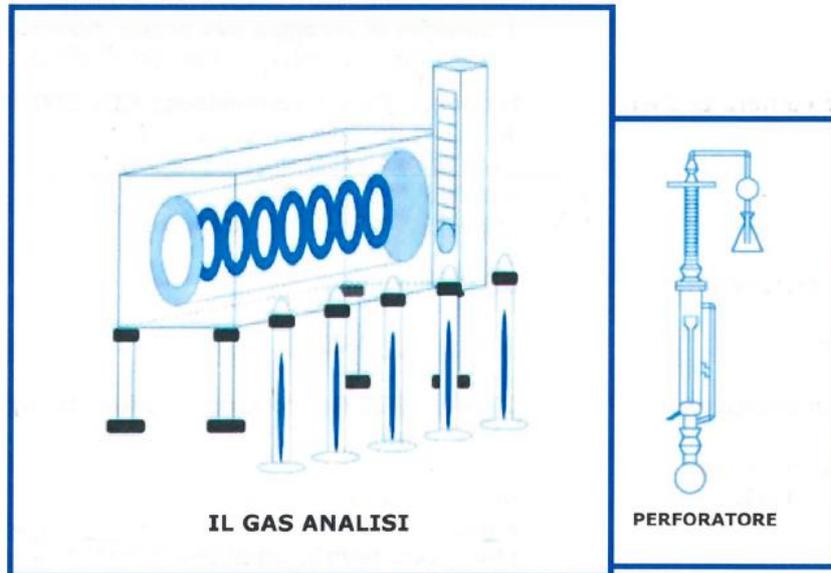
This essential construction gave the possibility to create a precise, reliable device that is easy and economical to use for the operator, capable of guaranteeing the repeatability of the analysis method. Vetrotecnica, to complete the gas analysis tool, has selected a line of equipment, glassware and accessories for the correct reading of the analytical data.

Vetrotecnica Gas Formaldehyde Analysis is supplied with a thermostatic bath with external circulation pump, stainless steel tank with lid with a capacity of 5 liters, 8 glass bubblers, two bottles for washing and drying, silica gel, plexiglas supports.

In addition of making and developing the gas analysis, Vetrotecnica of Padua has been the reference company since 1942 in the design and construction of scientific glass equipment, as well as in the distribution of the most established brands of analytical instrumentation, glassware, chemical reagents and consumables for analysis laboratories.

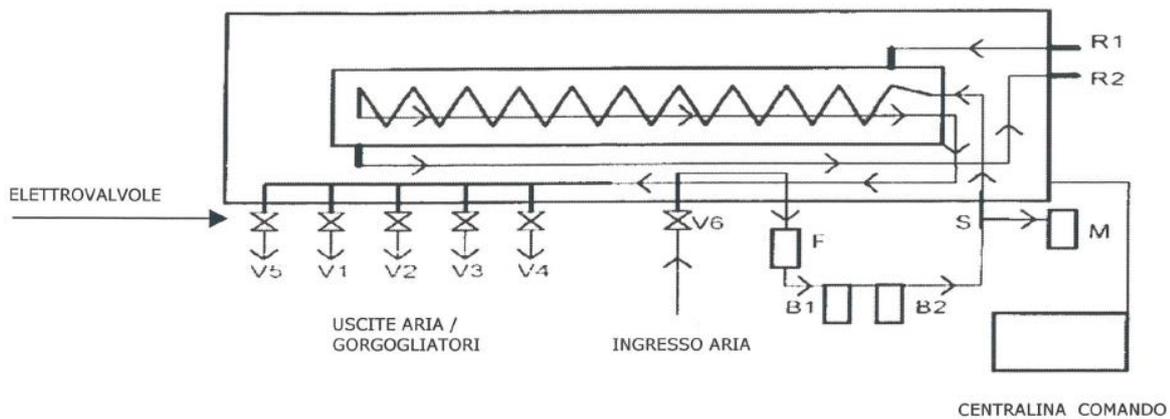
Furthermore, Vetrotecnica also produces the PERFORATOR for the determination of formaldehyde in wood-based panels according to EN 120.

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SCHEMA GAS ANALISI



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TECHNICAL FEATURES

- **Sample size:** 400 mm x 50 mm x panel thickness
- **Analysis chamber:** air proof.
- **Working temperature:** 60 °C ±0,5 °C.
- **Inlet air humidity rate:** 2%
- **Inlet air tretment:** by means of no.1 washing bottle with distilled water and no.1 drying bottle with silica gel.
- **Analysis chamber thermostating:** by means of thermostatic device on 5 liters capacity stainless steel basin with external circulation pump (approx flow rate: 8 lt/min.)
stability: ±0,05°C
reading: ±0,1°C
- **Feeding air pressure:** 0,5 bar
- **Working overpressure:** 1000÷1200 Pa
(pressure gauge/manometer controlled)
- **Air flow rate::** 1 lt/min. ±0,05
- **process control unit**
GAS ANALYSIS CONTROL : with digital display for temperature and pilot lamps for main switch, start, on/off cycle, air inlet, cycle phases.

N.4 electrovalves with outlet for scrubbers connection.
N.1 electrovalve for air vent.
- supplied glassware:
N.8 glass scrubbers
N.1 drying bottles with silica gel
N.1 inlet air washing bottle

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