



Analyser shelters

Having selected the analysers and correctly designed sampling systems, another factor in the success of the solution is the environment in which the instruments operate. Some analysers, such as the Hobre WIM, will work with little or no protection from the elements. However many require a controlled environment that can only be provided by a properly engineered and constructed analyzer shelter. By grouping several instrument together, an analyzer shelter can be economically justified, and a working environment provided for both instruments and personnel alike.

The design of the analyzer shelter must consider many factors. Local ambient conditions, hazardous area classification, sample type, analyzer type together with client specifications will all influence the final design and content of the shelter.

Some examples of key elements are shown below;

- Construction – stainless steel, concrete, GRP. Top lift bottom lift. Single integrated unit or modular construction. Fire resistant.
- Environment control – Fresh air ventilation, with heating, with air conditioning. Redundant ventilation and/or air conditioning.
- Safety – Gas detection systems, safety interlock systems. Independent control systems, electronic or hardwired control. Safety systems integrated with client system.

