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# ANALYZER HOUSE - PROCESS CONTROL SYSTEM



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## PROCESS

Analyzer Houses are complete integrated systems able to execute several automatic and on-line analysis of process fluids (gas or liquid).

Loccioni is able to carry out and provide quality engineering services and complete solutions for systems integration, from the detailed design to the start-up of the customized solutions.

The analyzer cabinets are designed and manufactured to house process analyzers such as **gas chromatography (GC)**, **continuous gas analyzer (CGA)**, **moisture analyzers** and other analyzers including **sample conditioning systems (SCS)**, **power distribution boxes (PDB)**, **signal junction boxes (SJB)**, **heating ventilation air conditioning (HVAC)**, **cylinder racks** and **data acquisition and handling system (DAHS)**.

Analyzer cabinets are mainly made of stainless steel (SS304, SS316) or electro-galvanized sheet steel (painted according to specifications required) with or without insulation.

The dimensions of analyzer cabinets could vary subject to the quantities of process analyzers to be installed.

## TECHNICAL FEATURES

- > Analyzers integration (GC, IR, UV, FT-IR and etc.) with the sample conditioning systems (SCS)
- > Installation in Hazardous areas:  
Zones 1 or 2; Class I, Divisions 1 or 2, Groups B, C, D
- > HVAC system
- > Pipe headers for instrument air, drain and/or vent
- > Power distribution board (PDB)
- > Alarm and safety panel (ASP)
- > Horn, beacon and/or flashing warning light
- > Gas, fire and smoke detectors
- > Lighting fixtures
- > Working bench
- > Junction boxes (power, analog signal, digital signal & communication)
- > DAHS (data acquisition and handling system)

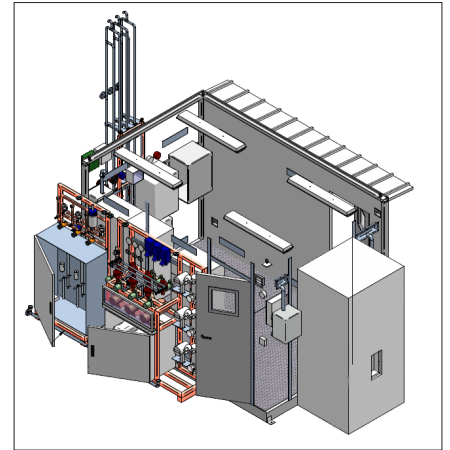
## KNOW-HOW

The requirements for customized process analytical systems have been strongly increasing from plant owners, EPC companies and equipment makers who are expecting **quality systems, timely services and turn key solutions** that Loccioni is able to provide.

Competences of measuring and testing have been developing for years within the power generation and oil&gas sectors. This leads Loccioni to well understand the process analytical systems as well as adopt the same approach already developed with world-class manufacturers of process equipment and analyzers: this means providing **quality engineering services and complete solutions for systems integration**.

## OUR SERVICES

- > System engineering
- > Engineering design
- > Systems integration
- > Assembly & installation
- > Project management
- > Calibration & testing services
- > Site services
- > Maintenance services



1. System design



2. Internal devices



3. External devices



4. Pipelines