



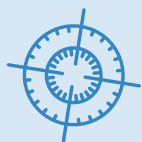
QSGROUP

REAL TIME MONITORING INNOVATORS

INTRODUCTION

QSGROUP is a full-service provider for **CONTAMINATION CONTROL** across the pharmaceutical, scientific, aerospace, biotechnology, and semiconductor sectors.

WE PROVIDE:



CALIBRATION



VALIDATION



DISTRIBUTION



PRODUCTS

VISION

We aim to revolutionize the contamination control market by offering intuitive solutions that empower our customers, **SIMPLIFYING** processes and reducing time and travel.

WHY QSGROUP?

Our goal is to overturn the status quo in the contamination monitoring sector. Through a new approach based on **INSTANTANEOUS** data, we guarantee simple and intuitive compliance without interrupting production continuity.

MISSION



Innovate with increasingly intuitive **REAL-TIME** tools and services



Define **PERSONALIZED** offers based on the specific needs and specializations of every sector



Focus on customer empowerment, enabling them to become **INDUSTRY LEADERS**

QSGROUP WORLDWIDE



ITALY

Barlassina (MB) -
QSGroup Headquarters
Latina branch - from 2025



FRANCE

Paris
French Branch



SWITZERLAND

Lugano
Swiss Branch

with a direct presence at major international client sites.

+300 CUSTOMERS

abbvie



ALFASIGMA



cerbios

Chiesi

Corden
Pharma

Fondazione IRCCS Ca' Granda
Ospedale Maggiore Policlinico

GSK

IBSA

Johnson&Johnson

Lilly

MENARINI
group

MERCK

NOVARTIS



Pfizer

sanofi



THALES

ThermoFisher
SCIENTIFIC

OUR HISTORY

60+
Employees

4

Operational
sites

3

Operational
Redigo
Mobile Lab

3

Brands

 **QSGROUP**
REAL TIME MONITORING INNOVATORS

 **QS-TECH**
SYSTEMS AND TECHNOLOGIES

 **ALTIORLAB**
POWERED BY QSGROUP

2014 FOUNDATION OF QSGROUP (11 employees)

2015 Opening of the **SWISS BRANCH**

2016 Launch of **ALTIORLAB**

2018 ISO CERTIFICATIONS:
ISO 17025 — ISO 21501-4:2005
ISO 17025:2018 — ISO 21501-4:2018

2019 **REDIGO** Mobile Lab

2020 **REBRANDING** new laboratories and offices

2021 2ND **REDIGO** Mobile Lab

2022 Launch of **QS-TECH**
ALTIORLAB
ISO 17025:2018 UOM Certification

2023 Opening of the **FRENCH BRANCH** in Paris

2024 **ISO 17025 CERTIFICATION** on TOC, flow
meters, microbiological samplers, temperature
Launch of activities for **TAKEDA**
in Osaka, Japan

2025 Opening of **LATINA BRANCH**

2026 **ISO 17025 CERTIFICATION** on pressure,
humidity and volume (pipettes)

OUR NUMBERS

+27.000 kg
of CO₂ saved



+5.000
certified instruments



+20
years
of experience



+10
calibrated
measures



+45
cities reached by
Redigo Mobile Lab



+300
national and
international clients



+1.200
calibrated particle counters



+150.000 km
traveled by Redigo Mobile Labs



OUR **BARLASSINA (MB)** HEADQUARTERS

Our headquarters in Barlassina houses state-of-the-art calibration laboratories, operational spaces dedicated to the technical and sales teams, and environments designed to foster collaboration and innovation.



HIGH-PRECISION
LABORATORY
WITH THERMAL BATH



WIND TUNNEL FOR
ANEMOMETER AND FLOW
METER CALIBRATION



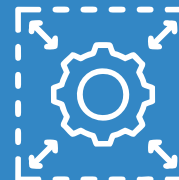
PIPETTE ZONE — AREA
DEDICATED TO MICROPIPETTE
CALIBRATION



EQUIPPED
MEETING ROOM



GREEN SPACES AND
RELAXATION AREAS — GREEN
OFFICE



OPERATIONAL
ENVIRONMENTS
FOR THE FSE TEAM

VALUE PROPOSITION

SALES ACTIVITIES

Local sales presence, management of the customer relationship

PRODUCT

Supply and configuration of the main components

GMP DOCUMENTATION

GMP reference documentation activities: SOPs, risk analysis, technical manuals, regulatory compliance certificates

ALL-IN-ONE SOLUTION

Instruments + validation services + training: on-site 17025 calibration, installation, qualification, particle loss study, flow meters, complete EMS cycle

QSGROUP is committed to delivering comprehensive value through three main pillars

01

Complete and integrated service

Integrated service covering every phase of the product life cycle, from construction to maintenance, qualification, and supply of consumables. Issuance of 17025 accredited certificates with legal validity and international recognition.

02

Operational excellence

Integration between customer needs and QSGroup's ability to manage qualification, maintenance, monitoring systems, decontamination, and innovative solutions.

03

Compliance and safety

Rigorous management of all regulatory and safety aspects. On-site inspections, joint seminars, requalifications, and supply of consumables. Support for GMP instruments, installation, validation, and maintenance.

OUR PRODUCTS

QSGROUP distributes and supports technical instrumentation from leading international manufacturers for the monitoring and control of contamination in regulated environments



ADVANCED
ENVIRONMENTAL
MONITORING
FOR CLEAN ROOMS



MICROBIOLOGICAL
MONITORING WITH
SLIT-TO-AGAR
TECHNOLOGY



MICROBIOLOGICAL
AIR SAMPLERS



RAPID
MICROBIOLOGICAL
WATER MONITORING



MONITORING AND
MAPPING SYSTEM



CONSUMABLES



GLOVE INTEGRITY
TESTERS



CONTINUOUS
CONTAMINATION
CONTROL AND PATHOGEN
REDUCTION FOR CRITICAL
ENVIRONMENTS



MICROPIPETTES



LIFE SCIENCE
TECHNOLOGY



PHOTOMETERS
& AEROSOL
GENERATORS



DECONTAMINATION
SYSTEMS

01 | Advanced environmental monitoring for clean rooms

AeroTrak®

- ◆ Portable and handheld particle counters
- ◆ Applications for semiconductors and special environments

Microbiological and particle monitoring systems

- ◆ Remote particle counters and microbiological air samplers
- ◆ Available in various models, including VHP-resistant versions

BioTrak®

- ◆ Real-time viable particle counter for continuous monitoring

Monitoring software

- ◆ Facility Monitoring Software for secure and scalable management of environmental data

Accessories

- ◆ Probes, sampling tubes, maintenance kits, and original spare parts



02 | Microbiological Monitoring with Slit-to-Agar technology

- ❖ High biological efficiency and precision
- ❖ Compliance with the highest environmental control standards: ISO 14698, ISO 17141, GMP Annex 1



03 | Microbiological Air Samplers

- ❖ Essential instruments for air monitoring in critical environments
- ❖ Precise detection of microbiological contaminants
- ❖ Compliance with international regulations: GMP, ISO 14698, ISO 17141



04 | Rapid Microbiological Water Monitoring

- ❖ Enables microbiological water control during the process, drastically reducing the time between detection and intervention and improving microbiological risk management



05 | Monitoring and mapping system

- ❖ Monitoring and mapping software for laboratories, clean rooms, warehouses, and GXP environments
- ❖ Precise measurements of critical parameters: temperature, humidity, CO₂, pressure
- ❖ Compliance with GxP regulations - ISO 14644 and 21 CFR Part 11 - to ensure high operational efficiency and secure data management



06 | Consumables

- ❖ HP Petri Dishes: Guaranteed longer agar shelf life with a formulation patented by QSGroup. Produced directly by QSGroup.
- ❖ Gloves for isolators, glove boxes, and RABS: Pharma-grade, audit-ready, manufactured in Germany with short lead times. Designed to ensure maximum safety and sterility in critical work environments. Certified, made of high-quality materials, with excellent chemical resistance. Combinations of materials, lengths, and sizes adaptable to every need.
- ❖ Microbiological indicators
- ❖ Cleaning & Disinfection



07 | **Glove integrity testers**

- ❖ Innovative device for glove integrity testing, designed for use in isolators and RABS
- ❖ Fast and accurate integrity verification, with inflation times reduced to a minimum
- ❖ Compatible with Vaporized Hydrogen Peroxide (VPHP)
- ❖ Flexibility thanks to the adapter for various flanges
- ❖ Automatic traceability with RFID technology
- ❖ WiFi connectivity and an ergonomic, compact interface
- ❖ Software management for control and generation of test reports



08 | **Continuous contamination control and pathogen reduction for critical environments**

- ❖ Products based on human-safe Far-UVC technology that improves contamination control and supports environmental hygiene between manual cleanings in all critical areas within the cleanroom and occupied spaces
- ❖ The range varies from decontamination of materials and personal entering the cleanroom to microbial reduction of air and surfaces throughout every critical area



09 | Micropipettes

- ◆ Available from 0.1 µl to 10 ml
- ◆ Ergonomic design, high degree of accuracy and precision
- ◆ Compliance with GxP regulations



10 | Life science technology

- ◆ Washers, RABS, isolators, sterilization tunnels, freeze-dryer loading/unloading systems, hoods, Pass Boxes, LAF carts, and automated handling systems
- ◆ Compliance with cGMP and FDA regulations
- ◆ Experience, versatility, and customization capabilities
- ◆ Investment in R&D to meet customer needs, offering innovative and reliable solutions for maximum operational efficiency
- ◆ Cost-effective: reduced operating costs (more economical peroxide)
- ◆ Faster recovery times

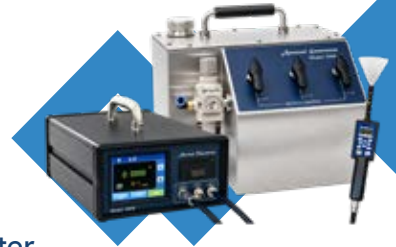


11

Photometers & Aerosol Generators

Aerosol Photometers

- ❖ Highly sensitive light-scattering instruments used to measure the concentration of airborne particles
- ❖ Real-time detection and digital display of leak rates, often equipped with a scanning probe for manual inspections
- ❖ They compare the particulate concentration upstream of a filter with the concentration found downstream. By detecting even the smallest “leak,” they calculate the penetration percentage or the effectiveness of the filtration system



Aerosol Generators

- ❖ Precision instruments designed to produce a consistent, high-concentration flow. By heating or atomizing specific liquids (like PAO or DEHS), they create a controlled “smoke” consisting of sub-micron particles
- ❖ Ability to maintain a constant particle size distribution and concentration over time
- ❖ They provide a known quantity of particulate matter to the upstream side of a filter or system

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Decontamination systems

- ❖ No condensation effect thanks to the unique ultrasonic cold technology
- ❖ Does not require dedicated fans or diffusion systems: it spreads and saturates the area autonomously
- ❖ Low H₂O₂ concentration with high decontaminating power - reduction up to 6 log



OUR SERVICES

QSGROUP offers a complete and integrated service portfolio for the management of contamination-controlled environments. Each service is designed to cover the entire life cycle of systems and instrumentation.

Altiorlab: QSGroup's ISO 17025:2018 certified Laboratory	Certificates with legal validity in over 100 countries. First laboratory in Italy for all ISO 21501-4:2018 points, multi-brand.
Maintenance and Assistance	Preventive, scheduled, and corrective maintenance. Multi-year contracts, original spare parts, dedicated qualified technicians, and guaranteed response times.
Validation and Qualification	IQ/OQ/PQ for cleanrooms, HVAC, autoclaves, isolators, RABS, and clean utilities. Risk analysis, validation plans, URS, SOPs, and smoke studies. Compliance with 21 CFR Part 11 and EU GMP Annex 1.
Environmental Monitoring	Design and management of EMS systems. Continuous monitoring of particulates, microbiology, temperature, humidity, and pressure. FMS software, SCADA, and GMP reporting.
Engineering - QS-Tech	Electrical and technological systems for classified environments. SCADA, GXP networks, sensors, GMP upgrades, sanitization, and energy efficiency.
Instrumentation Distribution	Sales, supply, and after-sales support for environmental monitoring instrumentation. Official partner of TSI, Vaisala, Comecr, Brand and AIGlove System.

ALTIORLAB — ISO 17025 CALIBRATION SERVICE

Founded by QSGroup, ALTIORLAB offers ISO 17025:2018 ILAC MRA certified calibration services that are:

- ❖ Fully compliant with current regulations
- ❖ Legally valid
- ❖ Internationally relevant
- ❖ Recognized by all inspectors



CERTIFIED CALIBRATION FOR



TOC (Online and Laboratory)

First and only in the world

- ❖ Laboratory TOC
- ❖ Online TOC



OPTICAL PARTICLE COUNTERS

- ❖ Portable Particle Counters
- ❖ Palmaries Particle Counters
- ❖ Fixed Particle Counters



PIPETTES

- ❖ Piston-operated pipettes



TEMPERATURE AND HUMIDITY PROBES

- ❖ Temperature and relative humidity probes
- ❖ Data loggers
- ❖ Measuring chains



MICROBIOLOGICAL AIR SAMPLERS

- ❖ Air Sampler/Microbial Impactor
- ❖ Remote Microbial Air Sampler/Impactor



INSTRUMENTS FOR PRESSURE MEASUREMENTS

- ❖ Pressure gauges
- ❖ Fransducers
- ❖ Differential pressure transmitters



AIR FLOW METERS

- ❖ Air flow meters
- ❖ Flow calibrators

PARTICLE LOSS STUDY

Theoretical vs. Experimental Approach **Annex 1 cGMP (§ 5.9 – length < 1 m)**

The representativeness of air sampling is a critical factor in environmental monitoring, governed by ISO 14644-21 and EU GMP Annex 1. QSGroup's ISO 17025-accredited study provides a rigorous academic assessment of particle loss within sampling lines, comparing theoretical deposition models with empirical laboratory data. By analyzing “worst-case” configurations, this study quantifies the impact of tubing length and geometry on aerosol transport. The objective is to provide a scientifically justified framework for the Contamination Control Strategy (CCS), ensuring that sampling systems are not only compliant but validated through a strictly technical and evidence-based approach.

ISO 9001 CALIBRATION

SERVICE — ON-SITE METROLOGY LABORATORY



AIR

Velocity Range: 0.1 m/s – 35 m/s

- ◆ Hot-wire anemometer
- ◆ Vane anemometer
- ◆ Cup anemometer

Flow Rate Range:
100 m³/h – 4,500 m³/h

- ◆ Balometer



PIPETTES

Preventive maintenance, calibration, and adjustment service for single-channel and multi-channel pipettes in compliance with:

- ◆ Reference regulatory standards
- ◆ Manufacturer specifications
- ◆ User specifications



TEMPERATURE / HUMIDITY

T Range: -80°C – 1,100°C

- ◆ Immersion, contact, air and wire probes
- ◆ Resistance thermometers, thermocouples, thermistors
- ◆ Datalogger calibration, infrared thermometers

RH Range: 5% – 95% RH

- ◆ Relative humidity probes, contact probes
- ◆ Datalogger calibration

VALIDATION AND QUALIFICATION **SERVICES**

QSGROUP offers validation and requalification services for systems and equipment in the pharmaceutical sector, with in-depth knowledge of cGMP, FDA, GAMP, ISO, and ANNEX regulations. We handle the drafting and execution of IQ/OQ/PQ protocols, risk analysis, validation plans, and URS.

- ❖ Cleanrooms with variable GMP monitoring systems
 - ❖ Initial and periodic qualification of clean utilities
 - ❖ Initial and periodic qualification of production and packaging equipment
 - ❖ Isolators, open RABS, closed RABS
 - ❖ Glove boxes, extractor hoods, and laminar flow hoods
 - ❖ Autoclaves
-
- ❖ HEPA/ULPA absolute filter integrity testing
 - ❖ Thermo-hygrometric mapping of warehouses, climatic chambers, and refrigerators
 - ❖ Verification of particle contamination classes (at rest and in operation)
 - ❖ Qualification and requalification of HVAC systems
 - ❖ Calibration of pH meters, laboratory conductivity meters, balances, thermostatic baths, melting point apparatus, and ovens

RESERVED AREA

FOR OUR CUSTOMERS



ALWAYS AVAILABLE
CERTIFICATES



MANAGEMENT OF
INSTRUMENT
DUE DATES



AUTOMATIC
REMINDERS



MONITORING OF
LABORATORY
ACTIVITIES

Customers can access the dedicated portal 24/7 to download certificates, keep track of due dates, and receive automatic notifications before the renewal date.

The system allows real-time tracking of the processing status of every instrument within the laboratory.



INSTRUMENT
SENT



INSTRUMENT
RECEIVED



INSTRUMENT
UNDER PROCESSING



INSTRUMENT
SHIPPED



INSTRUMENT
DELIVERED

SERVICE CONTRACTS

	GOLD	SILVER	BRONZE	CUSTOM
HARDWARE TELEPHONE SUPPORT	✓	✓	✓	CONTACT US
SOFTWARE TELEPHONE SUPPORT	✓	✓	✓	
DEDICATED QUALIFIED TECHNICIAN/MANAGER	✓	✓	✓	
ON-SITE REPAIR INTERVATIONS	50%	20%	15%	
REPAIR LABOR	50%	20%	15%	
SPARE PARTS NEEDED FOR THE REPAIR	50%	20%	15%	
RESPONSE TIMES FOR MAJOR OR BLOCKING FAILURES	2 BUSINESS-DAY PRIORITY	4 BUSINESS-DAY STANDARD	6 BUSINESS-DAY STANDARD	
RESPONSE TIMES FOR MINOR OR NON-CRITICAL FAILURES	3 BUSINESS-DAY PRIORITY	5 BUSINESS-DAY STANDARD	10 BUSINESS-DAY STANDARD	

MULTI-YEAR SERVICE PLANS: discounted rates for long-term coverage, with the most competitive fixed price for the entire duration of the contract.

QS-TECH — TECHNOLOGY SYSTEMS

- ◆ Specialization in monitoring systems for clean rooms
- ◆ Network/power/communication infrastructure and sampling pipelines
- ◆ SCADA installation

SPECIALIZED SERVICES FOR PHARMACEUTICAL FACILITIES:


Instrument transfer

Utilities and systems with electrical infrastructure upgrades in compliance with GMP regulations

Creation of data networks, alarm systems, security and video surveillance

Air quality monitoring

Energy efficiency, photovoltaic systems, storage, and electric vehicle charging

Predictive and preventive maintenance

Instrument design and verification

Sanitization, cleaning, inspection, and remediation of aerualic and water systems



info@qsgroup.it
+39 0362 1857411

Legal and operative site:
Via Torquato Tasso, 5 | Barlassina (MB)

Latina branch:
Via dei Marrucini, 13 | Latina (LT)

Lugano branch:
Via Canova, 9 | Lugano (CH)

Paris branch:
105, Avenue Raymond Poincaré, Paris