

## MICROBIOLOGICAL AIR SAMPLER "SAS SUPER IAQ" cod. 96760



The SAS Super IAQ is a microbiological air sampler especially suited for the Indoor Air Quality. It is based on the same working "impact" principle of the portable "Surface Air System" samplers, to perform microbiological evaluation of the air using "contact plates" or "Petri" dishes.

### WORKING PRINCIPLE AND USE

Unscrew the drilled head and place a contact plate or a Petri dishes filled with medium ( "Agar Contact Blister" ) into the housing. The environmental air is aspirated over the agar surface of the plate and airborne particles are captured on the agar by impaction. The quantity of air depends on the microbiological quality of the environment to be tested. At the end of the preset sampling cycle remove the plate and incubate it according to specific conditions (temperature/time). The number of CFU (colony forming unit) will provide the related microbial contamination.

### TECHNICAL FEATURES

Nominal air flow	100 liters of air per minute
Sampling time	10 minutes to sample 1000 liters of air
Battery	More than 50.000 liters of air (about 8 working hours) with every charge
Charging time	4 hours
Memorized sampling cycles	Up to 100 storable sampling cycles
Memorized volumes	8 memorized sampling volumes
Delayed start	1-2-3-5-10-20 minutes programmable delay
Voltage	8,4 Volt – 2,7 amp/h
Display	Digital, showing the litres of air to be sampled, date, hour, site and operator.
Consumables	No need of any strips or slides but disposable Contact Plates or Petri dishes available both empty and ready made.

### APPLICATIONS

The SAS Super IAQ air sampler suits the following fields of application:

**FOOD AND FEED INDUSTRY:** the Good Manufacturing Practice (GMP) and the food hygiene rules call for the microbial monitoring of products and of the air and surfaces in the manufacturing environments in order to prevent food spoilage from pathogenic bacteria.

**INDOOR AIR QUALITY:** to help improve operating and working areas through consistent monitoring, to study in detail Sick Building Syndrome and to inspect the heating and air conditioning appliances (Hivac) both in public and industrial premises. A good example is the detection of Legionella.

**OUTDOOR CONTROLS:** the SAS Super IAQ is specially suited for outdoor sampling as well as at sewage treatment plants.

**PUBLIC HEALTH:** to increase the standard of microbiological quality of both working and community areas by routine controls and by identifying contamination hot spots.

**HACCP:** the airborne pollution might affect some perishable products, as well as food, at their different manufacturing stages. The SAS Super IAQ allows the monitoring of the "critical" points to prevent spoilage and contamination.

**DISINFECTION EFFICIENCY CONTROL:** The SAS Super IAQ can be used to check the efficiency of the environmental disinfection, sampling the air after and before any treatments.

**DIMENSIONS**

<b>Dimensions</b>	105x110x290 mm
<b>Battery</b>	Rechargeable NiMH (nickel metal hydride) with no memory effects. High autonomy (over 50000 litres/about 8 operating hours at any charge)
<b>Light weight</b>	Sampler: 1750 g; aluminum head: 115 g; disposable head: 30 g.
<b>Construction</b>	Sampling head: aluminum or resin (Dispo Head) Sampling fan: anti-static plastic resin Body: polyamide resin (high shock resistance)

**STANDARD EQUIPMENT****SAS SUPER IAQ cod. 96760 consist of:**

SAS Super IAQ

Aluminum drilled head for 55 mm Contact Plates

Battery charger (est. charging time 3 hours)

Soft carrying case

Remote control

- Sample volumes between 1 and 1999 litres;
- The last sampling volume is displayed when switch on.

**Display**

Wide display screen, high resolution and readability even in darkness.

Real time display of the aspirated liters of air during the sampling.