



LIFETEK 33 XP-R

Automatic Isokinetic System

MEGA SYSTEM
s.r.l.

POLLUTION CONTROL SYSTEMS

The LIFETEK 33 XP-R is an automatic sampler designed to be efficient and reliable. This features makes it suitable for the execution of sampling operations complying with the European directives on occupational health and safety. In fact, it can be used for constant flow rate sampling in INDOOR and OUTDOOR environments and EMISSION isokinetic sampling.

If connected to any Isocheck series processor, the LIFETEK 33 XP-R sampler allows to perform automatic isokinetic collecting operations in compliance with standards UNI EN 16911-1 and UNI EN 13284. This greatly simplifies and facilitates the climb to the stack, as the sampler won't need to be brought to the top.

The LIFETEK 33 XP-R sampler is available with a double head membrane pump, ensuring high precision in flow regulation over the whole operating range. The high head of the pump, combined with the electronic management and control system, allows to automatically compensate for the fluctuation of the load losses due to filter clogging and to keep constant the flow rate or the isokinetic flow throughout the sampling period.

Main features:

- Polyester keypad and backlit LCD display
- Electronic system for AUTOMATIC load loss compensation
- digital vacuum meter for collecting line load loss measurement.

- Digital flow setting and change through the keypad (even during sampling).
- Automatic flow regulation (no external accessories or flow meters required).
- Electronic sensor measuring the temperature of the sampled air at the meter inlet for the subsequent volume standardisation calculation.
- Recording and display of temperature and sampled volume.
- Dedicated software for constant flow rate ENVIRONMENTAL sampling.
- Software for SEMI-AUTOMATIC ISOKINETIC COLLECTIONS with manual inputting of duct parameters (UNI EN 16911-1 / UNI EN13284-1 / ISO 9096)





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- Calculation of the isokinetic flow in relation to the nozzle
- Interface for the connection of a processor of the ISO-CHECK series to execute automatic isokinetic sampling with continuous update of the aspiration flow according to the stack conditions
- Alarm management (whenever an alarm is triggered, it is recorded, and the fault is notified).
- "Backup" software function in case of power supply failure with automatic restart and event logging

- RS232 serial interface for data downloading to PC (no need for dedicated software, as data downloading can be accessed through HYPER TERMINAL)

The instrument is sold complete with holding bag, with accessory pockets, shoulder strap and test report.

Note: The test report also specifies the calibration procedure used and the primary reference standards. The primary standards used are certified by LAT Centres or by international Calibration Centres accredited by bodies which are members of E.A. – European co-operation for Accreditation (an association representing the European accreditation bodies).



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TECHNICAL SPECIFICATION

Pump

Double head membrane pump, 2 m³/h
High head (>600mmHG)

Operative Range

0,3 ÷ 25 l/min

Dry Gas Meter

Non-resettable dry gas meter
Maximum Error: ±2 %

Digital Dry Gas Meter

Sampling volume and flow are shown on the display

Communication Interface

RS232 for connection with a processor of the ISO-CHECK series for automatic isokinetic sampling

Interface for management and programming

Alphanumeric display 80 characters (40x2 lines)
Polyester keyboard

Data download interface

RS232 to download stored data on a PC

Operative Temperature

-10 °C ÷ +40 °C - 95% UR

Power

Main power: 230Vac – 50Hz
External Batteries 12Vcc (not included)

Size and weight

240x260x285mm – 7Kg



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