



Micropollutants high volume sampler



Main Characteristics:

- According to:
 - ISO 12884 (particulate/gas)
 - ISO 16362 (particulate)
 - USEPA TO9 (particulate/gas)
 - USEPA TO13A(particulate/gas)
- Electronically controlled flowrate to standard and actual condition
- Large graphic display back-lighted with keyboard and RS232 interface
- Programming with permanent clock
- Sampling time with 1" resolution and selectable from 1' to 168h
- Measured and stored parameters:
 - Flowrate, Total volume, Ambient temperature, Ambient pressure, filter load
- Capable of storing up to 60 sampling reports
- Capable of storing the sampling flow with 5 minutes interval
- Light alloy cabinet of small size and light weight suitable for outdoor mounting
- SMS remote control (*)
- Sample conditioning depending on wind direction and velocity (*)

ECHO HiVol is a "stand alone" automatic instrument designed to be used outdoor even in severe weather conditions.

The Venturi gas meter used is made according to EN ISO 5167 standards.

This kind of gas meter gives many advantages compared to other measure systems: the measures stability in the long term, the capability of being used with all weather conditions, a reduced sensitivity to stain thanks to the gas meter self cleaning profile and the absence of elements which are sensitive once in contact with inhaled air.

The flow measure and regulation in relation to actual condition, make ECHO HiVol a unique instrument.



This particular characteristics makes useless the previous calibration of the instrument before every use.

Echo HiVol is equipped with a three stages brushless blower, practically maintenance free, and its averaged life is higher than 20000 hours (more than 2 non-stop operating years).



Cabinet's lock details

* Optional

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Two different kind of samplig inlet entirely interchangeable are available.

flow rate between 180 and 220 l/min.

The PUF sampling module with filter holder of 102 mm and adsorbing cartridge (for PUF or XAD2) of 58 x 125 mm allows simultaneous sampling of particulate and gas fractions with

In alternative a filter holder for total particulate (TSP) on membrane of 150 mm diam. is available.

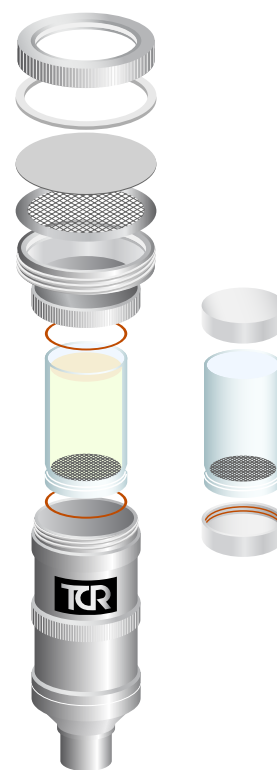
This is required for working up to a 500 l/min flow.

Technical characteristics

Range	100 - 600 l/min (6 - 36 m ³ /h)
Pump	3 stages brushless blower
Pump maintenance interval	20 000 operating hours
Power supply	220/240 Volt 50Hz (3.5 A)
Operating condition	-3 + 40°C (-20 + 40°C with low temp. kit*)
Low temperature kit	AA99-009-9901SP
Size mm (w x d x h)	440 x 340 x 830 (without stand)
Weight kg	15 Kg
ECHO HiVol Sampler	AA99-020-0000SP

Spare parts accessories and consumables

Aluminum stand	AA99-020-9900SP
Wind direction/speed interface	AA99-009-9907SP
Wind direction/speed sensor	AA99-009-9908SP
GSM Modem	AA99-020-9903SP
Software to download data	AA99-009-9909SP
Calibration kit	AA99-020-9905SP
PUF sampling module	AA99-020-0010SP
Spare glass cartridge	AA99-020-0011SP
2 PTFE end caps for cartridge	AA99-020-0012SP
25 quartz fibre filter 102 mm diam. box	AA99-016-9950CR
100 glass fibre filter 102 mm diam. box	AA99-016-9951CR
10 PUF cartridge h75 mm box	AA99-016-9955CR
10 PUF cartridge h50 mm box	AA99-016-9956CR
PUF aluminum canister for shipping	AA99-020-0019SR
Filter holder for TPS diam. 150 mm	AA99-020-0020SP
25 quartz fibre 150 mm diam. box	AA99-018-9910CR
50 glass fibre 150 mm diam. box	AA99-018-9911CR



PUF sampling module and cartridge with caps detail

AA99-020-0010SP



Filter holder for TSP collection detail

AA99-020-0020SP

* Optional

ECHO HiVol
HI VOLUME SAMPLER

AZIENDA CON SISTEMA QUALITÀ
CERTIFICATO DA DNV
UNI EN ISO 9001