

Automatic Air Sampling Pump GSP-300FT-2

Compact integrated suction pump
Optimal suction even at maximum load

The Model GSP-300FT-2 has been designed small and compact air sampling pump available with an integrated flowmetre for Hand-held, Personal or site sampling. This small size air sampling pump can be possible to carry on constant flow rate for 10 hours continuous sampling. This air sampling pump employs an extremely low noise air pump and automatic shut-off air pump by preset timer or volume for integrated flow rate and accumulated time.



- Flow volume of 50-250mL/min can be set for the inserted detector tube
- The fixed flow function automatically regulates load changes
- Real-time flow volume and integrated flow volume are automatically corrected to the values for 20°C(68°F)
- Automatic start enables sampling to begin after a preset time
- Automatic stop at preset time/volume, with total flow and transpired time calculations
- Ventilation system configured for uninterrupted sampling
- Compact and lightweight; 10 hrs. continuous operation on 2 AA batteries
- Specially-suited detector tubes for continuous workplace sampling (10 min.)
- Activated carbon and other solid-collecting detector tubes can be utilised



Specifications

Integrated flow rate	0 - 250 mL/min
Real-time flow rate Parametres	50 mL/min : 0.0 - 34.5 kPa , 100 mL/min : 0.0 - 30.0 kPa 150 mL/min : 0.0 - 25.0 kPa , 200 mL/min : 0.0 - 21.0 kPa 250 mL/min : 0.0 - 16.5 kPa
Selectable modes	Timer mode: Automatic shut-off of air pump at preset time; digital display of integrated flow rate Fixed parametre mode: Automatic shut-off of air pump at preset volume; digital display of elapsed sampling time
Display	LC digital display (backlit) Real-time Flow Rate mL/min Integrated Flow Rate : 0.000-999.9L Elapsed sampling time : 0-999min
Configuration / features	Mass flow sensor (with temperature correction) and diaphragm suction pump, dustproof, splashproof construction, automatic start function, and with initial presetting circuit for maintaining a constant volume of flow
Accuracy of real-time/integrated flow volume values	Standard deviation of +/- 5% (for a minimum real-time flow of 50mL/min at a fixed temperature)
Operating Temperature / Humidity range	Temperature : 0 - 40 °C(32 - 104 °F) Humidity : 10 - 90 %RH (no condensation)
Power source	Alkaline dry battery AA type (x 2) allows 10 hrs. continuous operation
Dimensions	80(W) x 40(D) x 140(H) mm
Weight	300g(including batteries)
Accessories	Alkaline dry battery AA type (x 2), detector tube adaptors, screwdriver, black suction nipple (already attached before shipping), tube tip holder, instruction manual, etc

Detector tube

Substance to be measured	Tube no. & name		Measuring range (ppm)	Scale range (ppm)	No. of tests per box	Detector tube type	Notes
Acetone	151TP	Acetone	25-800	(25)-800	10	Automatic air sampling pump	
Acrylonitrile	191TP	Acrylonitrile	0.2-12.6	0.2-3.0	5	Automatic air sampling pump	
Benzene	121TP	Benzene	0.1-14.5	0.1-5	5	Automatic air sampling pump	
Chlorine	8TP	Chlorine	0.05-0.6	0.05-0.6	10	Automatic air sampling pump	Residential environment
p-Dichlorobenzene	127P	p-Dichlorobenzene	100-3000 $\mu\text{g}/\text{m}^3$	100-3000 $\mu\text{g}/\text{m}^3$	5	Automatic air sampling pump	Residential environment
Ethyl benzene	122P	Toluene	110-2750 $\mu\text{g}/\text{m}^3$		5	Automatic air sampling pump	Residential environment
Ethylene oxide	163TP M	Ethylene oxide	1-50	1-50	5	Automatic air sampling pump	
	163TP	Ethylene oxide	0.1-5	0.1-5	5	Automatic air sampling pump	
Formaldehyde	91P	Formaldehyde	0.02-1.44	0.02-0.4	10	Automatic air sampling pump	Residential environment Indoor environment
	91PL	Formaldehyde	0.01-0.80	(0.01)-0.20	10	Automatic air sampling pump	Residential environment Indoor environment
	91TP	Formaldehyde	0.01-1.75	(0.01)-0.50	10	Automatic air sampling pump	
Hexane	102TP	Hexane	2-80	2-80	10	Automatic air sampling pump	
Hydrogen cyanide	12TP	Hydrogen cyanide	0.3-9.0	0.3-4.5	10	Automatic air sampling pump	

Substance to be measured	Tube no. & name		Measuring range (ppm)	Scale range (ppm)	No. of tests per box	Detector tube type	Notes
Hydrogen fluoride	17TP	Hydrogen fluoride	0.05-9.0	0.05-3.0	10	Automatic air sampling pump	
Hydrogen sulphide	4TP	Hydrogen sulphide	0.1-2.88	0.1-1.6	10	Automatic air sampling pump	
Isopropyl alcohol	113TP	Isopropyl alcohol	20-400	20-200	10	Automatic air sampling pump	
Methanol	111TP	Methanol	20-300	20-300	10	Automatic air sampling pump	
Methyl ethyl ketone	152TP	Methyl ethyl ketone	20-300	20-300	10	Automatic air sampling pump	
Nitrogen dioxide	9P	Nitrogen dioxide	0.02-0.20	0.02-0.20	10	Automatic air sampling pump	Residential environment
Tetrachloroethylene	133TP	Tetrachloroethylene	2.5-84	2.5-40	5	Automatic air sampling pump	
Toluene	122TP	Toluene	2-80	2-80	5	Automatic air sampling pump	
	122P	Toluene	100-7000 $\mu\text{g}/\text{m}^3$	100-2500 $\mu\text{g}/\text{m}^3$	5	Automatic air sampling pump	Residential environment
Trichloroethylene	132TP	Trichloroethylene	1-33	1-15	5	Automatic air sampling pump	
Vinyl chloride	131TP	Vinyl chloride	0.2-9.6	0.2-3.0	10	Automatic air sampling pump	
Xylene	123TP	Xylene	2-80	2-80	5	Automatic air sampling pump	
	122P	Toluene	540-13500 $\mu\text{g}/\text{m}^3$		5	Automatic air sampling pump	Residential environment

How to use

1.

Break tips off the detector tube using the tube tip holder.



2.

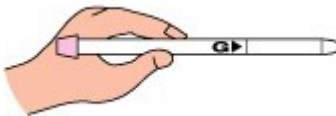
Insert the detector tube to the inlet of the rubber tube holder.

Put the power switch to ON. Adjust the flow rate, confirm that the timer of the air sampling pump is set, then push the start button.



3.

After sampling, remove the detector tube from the rubber tube holder and read the concentration of the tube.



Options



Protective cover for detector tube GSP300-14

Enables the detector tube to be securely set up for measuring and helps to avoid possible injury to the user as well as damage to the detector tube itself.



Carrying case GSP300-15

Comes with convenient carrying belt.



Gas sampling pump tripod stand GSP-TRIPOD

For use with GSP-300FT-2.



Rubber caps DTP-1-20/DTP-2-20

Reusable rubber caps can be attached to the broken edges of the detector tubes as an extra precautionary safety measure.



Tube tip holder 722

The Tube tip holder doubles as a detector tube tip breaker and a storage receptacle for up to 260 broken tips, thereby preventing glass fragments from scattering.