

# Sampling Equipment

## For Environmental Odors

Collecting odor gasses onsite with 10L sampling bags for 6-30 seconds. This sampling method suits the use of Vacuum Bottles, Suction Bottles, Suction Cases and Pumps.

## For Exhaust Port Sampling

This sampling method requires 1-3 minutes to collect 3-20L of odor gasses which suits the use of Pumps and Suction cases.

In addition when collecting gas at the exhaust area, be aware of high temperature, humidity and dust that may be mixed into the gas.

## 2-Way Suction Case

For Environmental Odors

For Exhaust Port Sampling



### Features

**Able to use in two ways, a Very useful tool.**

Can be used as suction bottle and suction box.

The cock is replaceable.

Specifications	
Capacity	10L
Dimensions (Body)	ø 230 mm, L820mm
Gross weight	8 kg
Materials	Vinyl chloride

**Notes** Sampling by attaching "Suction bag F type"  
For sampling by depressurization, depressurize by estimating the meter on the product.

Product Name	Type, Specification, Unit	Notes
2Way Suction Case	For 10L/1 pc	
Spare cock	White/1 pc	
Spare cock	Orange/1 pc	Compatible with Suction Box

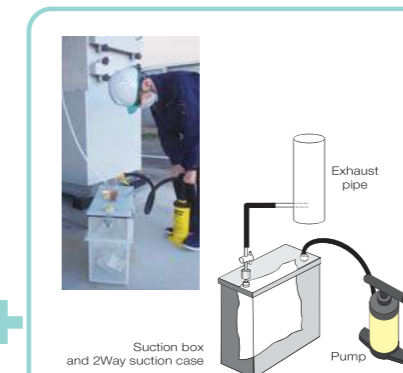
### Characteristics

- Can be used with the suction bottle method (as a suction bottle) and indirect sampling method (as a suction box).
- Gas can be collect both environmental and exhaust port odors.
- Gas with negative pressure can also be collected.
- Samples can be collected even in places where power is not available.
- The body is made of vinyl chloride, so the risk of damage is extremely low\*  
\*Comparison with glass suction bottles and acrylic PVC suction boxes.
- Easy to handle even for beginners with a decompression meter.



#### Suction Bottle Method (Suction Bottle)

The method of collecting gas (odor) in a sampling bag attached to the inside of the suction bottle by decompressing the inside before operating and opening the cock at the time of sampling.



#### Indirect Sampling Method (Suction Box)

This is a method of collecting gas in a sampling bag attached to the suction box while reducing the pressure inside the suction box.

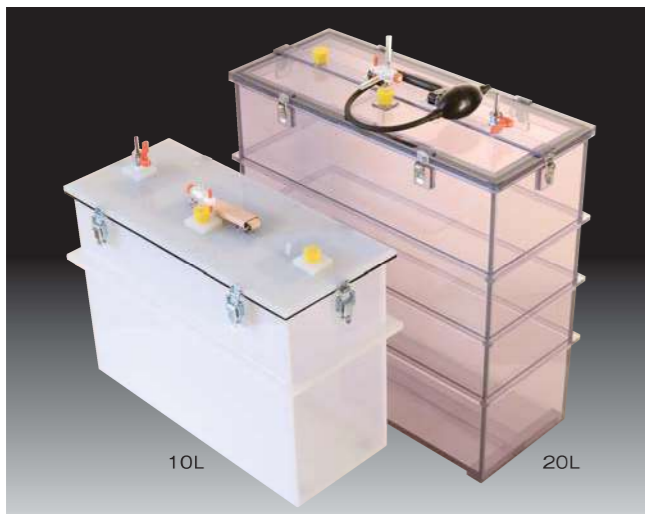


#### 2-Way Suction Case (Suction Bottle + Suction Box)

## Suction Box

For Environmental Odors

For Exhaust Port Sampling



### Features

#### Convenient to sample

Conduct sampling by depressurizing the box by pumping, and take sample gasses into a sampling bag at the same time. The sample gasses connect directly to the specific bag without passing through the pump.

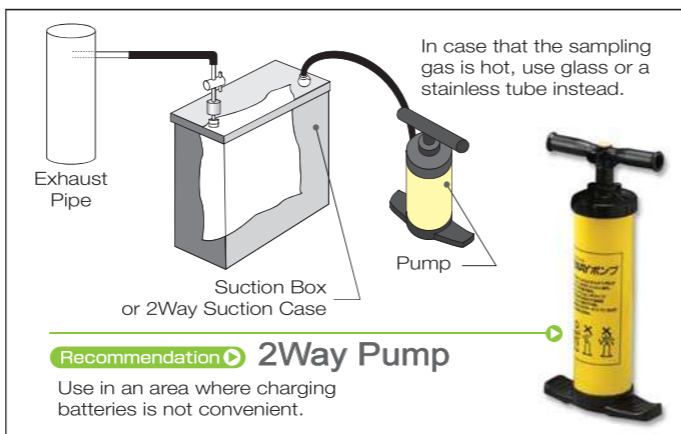
Specifications	10L	20L
Capacity	10L	20L
Dimensions	H387mm/W502mm/L200mm	H545mm/W526mm/L216mm
Case Dimensions	H355mm/W490mm/L190mm	H510mm/W510mm/L200mm
Gross Weight	About 6kg	About 12kg
Materials	Acrylic	PVC

**Caution** Even though the tools are compatible for both sampling environmental and exhaust port odors, they are different sampling conditions.

Product Name	Type, Specification, Unit	Notes
Suction Box 10L	1 pc	
Suction Box 20L	1 pc	
2Way Pump	1 pc	Handy Type

### Characteristics

- This is a standard item for indirect sampling, available in two sizes: 10L and 20L.
- It can be collected even where the power supply cannot be secured by a 2Way Pump (sold separately).



# Flex -pump DC 1-N50 Type

For Environmental Odors For Exhaust Port Sampling



**Able to collect odors quickly**  
**Flow rate : more than 50L/min**  
**Current maximum realized flow-rate**

Specifications	
Flow rate (normal usage)	minimum 50L/min (New battery)
Weight	500g (including batteries)
Dimensions (Body)	L317mm(including cassette) Body Diameter L38mm Cassette diameter L94mm Inlet port 12ø (10ø) Outlet port 10ø (8ø) * ( ) is inner diameter.
Accessories	AA battery (Alkaline battery) 6 pcs
Materials	Body - Aluminum Cassette - ABS Resin

## Features

This DC1-N50 type was developed to be able to collect gasses as much as possible in a short period of time. Especially suited for sampling at site boundary.

Product Name	Type, Specification,Unit	Notes
Flex -pump DC1-N50 type	1 pc	Includes AA battery (Alkaline battery) 6 pcs

# Flex -Pump DC 1-NA Type

For Environmental Odors For Exhaust Port Sampling



Specifications	
Flow rate (normal usage)	With adapter 35L/min, Without adapter 26L/min
Weight	500g (including battery)
Dimensions (Body)	L280mm(including cassette) Body diameter L38mm Cassette diameter L94mm Inlet port 12ø (10ø) Outlet port 10ø (8ø) * ( ) is inner diameter.
Accessories	D battery (Zinc-carbon battery) 2 pcs
Materials	Body - Aluminum Cassette - ABS Resin

## Features

DC1-NA type is suitable for sampling at a location where it is inconvenient for big sampling tools, especially sampling environmental odors.

**Only 500g in weight! Comfortable anytime and anywhere.**  
**Easy to carry is its biggest advantage.**

Product Name	Type, Specification,Unit	Notes
Flex -pump DC1-NA Type	1 pc	Includes D battery (Zinc-carbon battery) 2pc
Adapter for DC1-NA Series	1 pc	Includes D battery (Zinc-carbon battery) 1 pc

## Cassette for DC 1-Series

Product Name	Type, Specification,Unit	Notes
Cassette for DC1-series	1 pc	DC1-NA type AND DC1-N50 type use common cassettes.

## How to Change a Cassette ( Both DC 1-N50 Type / DC 1-NA Type) ※For DC1-N50 Type, pliers are needed to take the screw off.

- Do not rotate the cover and base at the same time. Please hold the base's hump while removing the cover and blade's fixed screw.  
(Caution : please be careful, since the fixed screw will be replaced by the reverse-thread screw.)  
Take out the blade and the base.  
\* For N50 Type, the ring for the reverse-thread screw is included.
- Assemble a new cassette by referring to step 1. in reverse.(Caution : When changing the cassette, please do not fasten the cover, base and blade's fixed screw too tightly.)
- Please switch on to then test if it operates properly.  
(Cause : if there is loud noise or vibration, please check the assembling of blade and base).

## Notes

DC1-N50 type uses 6 AA batteries (Alkaline batteries).  
 DC1-NA type uses D batteries (Zinc-carbon batteries).  
 Cassette is made from odorless materials (\* ABS Resin), and will not affect the sampling.  
 Cassette can be changed in consecutive sampling due to density or different conditions of sample.  
 Cassette is washable to be economical.  
 DC1-NA Type can boost its power by enhancing the adapter by adding one more battery (Zinc-carbon battery).  
 Please note, specification or appearance may be changed without notice.  
 \* ABS Resin (Acrylonitrile-Butadiene-Styrene Resin)

## Cautions

- Since the cassette can be melted by heat, please be aware of it when collecting high temperature gasses. (Temperature cannot exceed over 80°C)
- This pump is not compatible with negative pressure gasses.
- When a cassette gets dirty, please remove it from the pump body. After washing, please check its odor. It can be reused just in case it is odorless.
- Dropping of this tool can cause malfunction, please hold it carefully.
- Please do not run the tool without its cover, since the running blade can cause injury.
- For DC1-NA type, please use only Zinc-carbon batteries, otherwise the lifespan of its motor will be shortened.  
(Please do not use Zinc-carbon battery together with Alkaline batteries. There are risks of chemical spills and explosions).

# Multi Pump DA Type

For Exhaust Port Sampling



**Compatible with both battery and electricity**

Specifications	
Power supply	1)Built-in battery 2)AC100~240V
Charge voltage	AC adapter input voltage AC100~240V, Output voltage DC12V 2A
Battery	DC12V 12Ah 2pcs
Charging time	6 hrs fully charged
Flow rate(Normal usage)	4L/min
Dimensions	W:140+(14), H:170+(7+22), D:225+(10)mm
Weight	4.5 kg
Runtime	2 hrs of consecutive operation(Normal usage)
Accessories	Shared cassette tube x 1, AC adapter

※ In order to improve the product, the specifications and appearance are subject to change without notice.

## Features

Formerly, this type of equipment can only be operated by either batteries or electricity. Now, the Multi Pump DA Type has been developed to be the device that can operate separately by two types of power sources.

## Notes

The shared cassette tube is distinguished by the nozzle's color.  
 White - Inlet Port  
 Black - Outlet Port

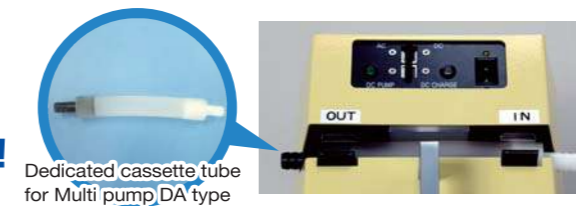
Product Name	Type, Specification,Unit	Notes
Multi Pump DA Type	1 pc	One dedicated cassette tube is included.

## Dedicated Cassette Tube for MultiPump DA type

This cassette tube is used exclusively for Multi-pump DA type. It needs to be replaced every time it is used.

Product Name	Type, Specification,Unit	Notes
Dedicated cassette tube for MultiPump DA type	1 box	5pcs/box

## Replace every sampling!



## Image Using a Flex Pump



## Multi-Pump Connection Diagram

