Lafil 200 Lafil 200 - Plus Lafil200 - BioDolphin Suction system



Important Notice

- Read and comply with this manual before installing or operating the equipment.
- Please ensure that the power supply voltage matches the voltage rating for the instrument.
- Please operate the instrument in well ventilated area and keep away from inflammables.
- This instrument is not corrosion-proof pump. It is not suitable for pumping acid, base or organic vapors or gases directly.
- Do not modify the equipment without authorization.
- Clean and maintain the instrument and accessories according to the maintenance method after every use.

Unpacking

Carefully check if the shipping carton is damaged before unpacking. Please check the items according to standard package list. If you have any questions, please preserve serial number, shipping carton and contact your dealer for quick solution.

Item	Designation
1	Lafil 200 suction unit
2	Power Adapter
3	Operating Manual



• Lafil 200 - Plus

Item	Designation	
1	Lafil 200 suction unit	
2	4L PP vacuum bottle with	
	quick-coupling connectors	
3 Plus Suction Kit		
4	Silicone Tube	
5	Power Adapter	
6	Foot Switch (optional)	
7	Repair Kit	
8	Operating Manual	



• Lafil 200 - BioDolphin

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Assembly & Disassembly Diagram

(1). Lafil 200

Position	Designation
1	Power switch
2	Vacuum regulator
3	Inlet
4	Foldable handle
5	Power plug



(2). PP Waste Bottle

Position	Designation
1	"LIQ"Inlet, 1/4 inch quick-coupling connector
	(optional: 5/16 inch quick-coupling connector)
2	"AIR"Outlet, 1/4 inch quick-coupling connector
	(optional: 5/16 inch quick-coupling connector)
3	Quick pressure relief hole
4	Сар
5	QC cap adaptor
6	Overflow Protection
7	Silicone Tube
8	Bottle body

(diagram shows in next page)



(3). 3.5L Glass Bottle :

Position	Designation
1	GL45 suction cap
2	O-ring
3	Silicone Tube
4	3500ml Glass Bottle



(4). Accessories :

• BioDolphin Suction Kit



Position	Designation	Position	Designation
1	Handle	2	1-channel tip adaptor (50 mm)
3	1-channel tip adaptor (150 mm)	4	1-channel SS adaptor (40 mm
5	1-channel SS adaptor (80 mm)	6	8-channel SS adaptor (40 mm)
7	1-channel tip adaptor with ejector	8	8-channel tip adaptor with ejector
9	Rack		

• Plus Suction Kit



Position	Designation	Position	Designation
1	Handle	2	1-channel tip adaptor (150 mm)
3	1-channel tip adaptor with ejector	4	8-channel tip adaptor with ejector

Installation and Operation







Maintenance

- 1. Please suck in pure water to clean the tubing after every use.
- 2. Suction accessories and silicone tube are autoclavable. Please clean and autoclave if need.
- 3. Lafil 200 suction unit is not autoclavable. Please clean the case by pure water or 75% alcohol.
- 4. It is strongly recommended to replace the main parts (internal rubber adaptor, O-ring and SS spring) of the handle every year at least to keep good aspiration.
- 5. Silicone tubes are consumables, please replace at least every half year to ensure good aspiration.

Troubleshooting

Symptoms	Possible causes	Remedy
	1. No electrical supply	Check the power supply conform
Instrument fails to		to power specified on main unit or
start		the switch is broken
Start	2. Power switch off	Switch on power
	3. High vacuum still	Release the vacuum
	1. Air outlet clogged	Clean or replace the air outlet
Vacuum fails to adjust	2. Weak power supply	Check the power supply
	3. Leak in the system	Check tubing, seals and coupling,
		replace if necessary
	1. Leak in the system	Check tubing, seals and coupling,
		replace if necessary
Low filtration speed/	2. Liquid overflow	Check if the suction bottle is
poor vacuum		overflowing
	3. Weak power supply	Check the power supply
	4. Filter clogged	Replace filter

Ordering Information

197200-01(02)	Lafil 200, Vacuum Pump with AC 100-240V adaptor, US plug (EU plug)
197203-01(02)	Lafil 200 – BioDolphin, Large Capacity Suction System with
	AC 100-240V adaptor, US plug (EU plug)
197205-01(02)	Lafil 200 – Plus, Large Capacity Suction System with
	AC 100-240V adaptor, US plug (EU plug)
197200-53	4L PP Heavy-Duty Vacuum Bottle with 1/4 inch quick-coupling
	connectors
197200-54	4L PP Heavy-Duty Vacuum Bottle with 5/16 inch quick-coupling
	connectors
197000-60-3500	3.5L laboratory glass bottle (include GL45 suction cap)
199100-00	New BioDolphin Suction Kit - LB
199200-00	Plus Suction Kit - LB
199100-51	Repair Kit (include L type cleaning rod, SS spring, silicone sleeve)
199100-68	Silicone Tube (Ф4.2 x 8 mm), 200cm
199100-53	Seal Pack of handle (includes O-ring P7, AS004, AS012, sleeve, valve)