





INSTRUCTION MANUAL

Model : PP Heavy-Duty Vacuum Bottle

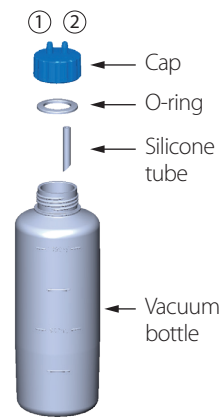
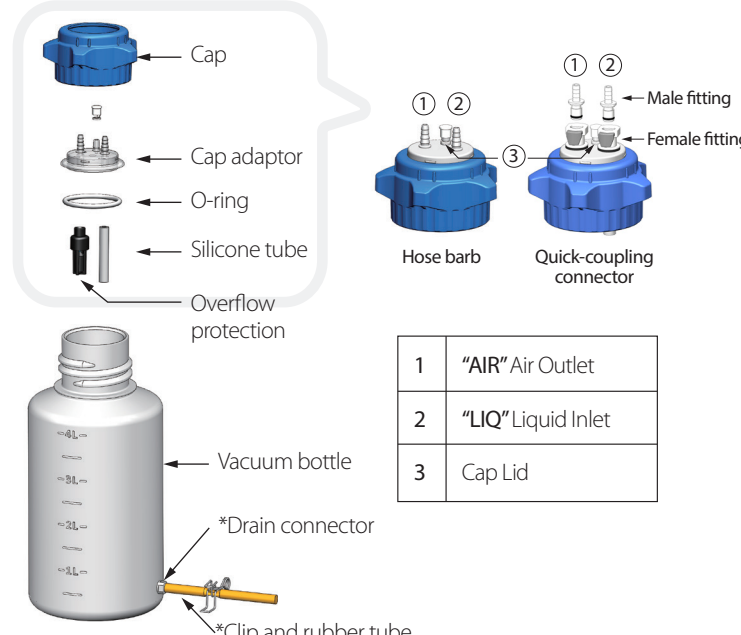
Carefully check if the shipping carton is damaged before unpacking. Please check the items according to standard package list. If you have any question, please preserve serial no. & shipping carton and contact your dealer for quick solution.

Model	PP Vacuum Bottle, 1000 mL	PP Vacuum Bottle, 4000 mL		
	197100-10	197200-47	197200-48	197200-53
1. Cap	GL45	B83	B83	B83
2. Connector / adaptor	Hose barb (ID6)	Hose barb (ID4~ID8)	Hose barb (ID4~ID8)	Quick-coupling connector (ID6)
3. Overflow protection	-	Yes	Yes	Yes
4. Bottle	1000 mL	4000 mL	4000 mL	4000 mL
5. Drain device	-	-	Yes	-
				

Maintenance

1. Non-abrasive, neutral, no film former detergent is recommended for bottle cleaning.
2. The bottle are autoclavable, at 121 - 123 °C (250 - 253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min. Please remove the cap from bottle before autoclaving to prevent bottle deformation.
3. Thick and durable wall of this bottle can hold near full vacuum for 24 hours.
4. The PP bottle are applicable to most of low concentrated chemicals, please refer to chemical compatibility chart before use.
5. Do not keep strong organic compounds in this bottle for long-term storage.

Usage Guide

Bottle	1000 mL PP Bottle	4000 mL PP Bottle
	197100-10	197200-47 / 48 / 53
		

Installation and Operation

1. Install the silicone tube and overflow protection device on cap inside labeled "LIQ" and "AIR" respectively. Then push the installed cap adaptor upward to stick to the cap.
 - 1000 mL PP bottle has only silicone tube and is installed on "LIQ" side.
2. Connect the "AIR" air outlet (1) to inlet of vacuum pump and with silicone tube.
3. Connect the "LIQ" liquid inlet (2) to manifold or suction kit with silicone tube.
4. Plug the 3rd opening on cap adaptor with cap lid (3) to keep airtight, then remove it for pressure release.

Quick-Coupling Connectors (for 197200-53)

Press and hold the button on female fitting to release male fitting, and female fitting will close immediately to keep airtight.

Drain Device (for 197200-48)

1. Connect the rubber tube to drain connector and clip the rubber tube to seal liquid.
2. Remove the cap lid for pressure release before drain the waste liquid.
3. Remove the clip, or clip on the drain connector, to drain out waste liquid.

Ordering Information

197100-10	1000 ml, PP Vacuum Bottle
197200-47	4000 ml, PP Vacuum Bottle
197200-48	4000 ml, PP Vacuum Bottle with Drain
197200-53	4000 ml, PP Vacuum Bottle with 1/4 inch Quick-Coupling Connector

197000-60	GL45 Suction Cap
197201-38	Quick-Coupling Connector, Male Fitting, 1/4 inch
197201-39	Quick-Coupling Connector, Female Fitting, 1/4 inch