

## Pump Replacement (Sample)

### Tools and Parts

Part Name	LDAR Part #
Sample Pump Assembly	42490
Pump Clamp (included with Pump Assembly)	6065

Tool	Quantity
Angled side cutters	1



Scan or click QR code for video tutorial.

### Reference Documents

- [WI-phx42-111 Removing/Replacing the Enclosure Lid](#)

### Procedures

**Reminder:** Before you replace a **pump**, *confirm* there is no contamination in the probe / sample delivery system. The contamination that ruined the last **pump**, could ruin the new **pump** if not removed. Contamination will always require an RMA.

1. *Report an Issue.* **Failure to do so voids the warranty.**
2. *Wait* to be instructed by LDARtools Technical Support to change the **pump**.
3. *Remove* the **phx42 enclosure lid**.
4. *Put* the **phx42** into "Sleep Mode."
5. *Cut* the center of the Teflon tubing to *remove* the **pump** (2 on the **Sample Pump**).
6. *Gently* follow the wire to the connector.
7. *Unplug* the connector, pulling from both sides of the connector (not the wire).
8. *Remove* the **pump** from the mounting clip.
9. *Remove* the remaining **Teflon tubing** from the push-to-connect fitting.
10. *Insert* the new **pump's Teflon tubing** through the **pump clamp** opening to the **tubing's** midway point.
11. *Press and hold* on the **pump clamp** for 3-5 seconds, then release and remove the **tubing**.

12. *Plug* in the electrical connection.
13. *Insert* the new pump into the push-to-connect fitting.
14. *Replace* the lid.
15. *Run self-check*
16. To close the reported issue, log into the LDARtools Customer Portal, and enter the new pump serial number in the hardware issue under the “Close Issue with SN” tab and select “Start Sample Pump Warranty.” This will activate the warranty on the pump. **Failure to do this will void the warranty.**

<b>FAQ</b>	<p><b>Are the sample and combustion pumps interchangeable?</b>          They are not, as they have different tubing. Attempting to remove and exchange tubing will damage the pump.</p> <p>To tell them apart, remember that the sample pump has two pieces of Teflon tubing attached whereas the combustion only has one piece of Teflon tubing attached.</p>
	<p><b>What is the warranty on the pump and battery?</b>          Please check the LDARtools Terms and Conditions for Hardware Warranties you can download from the <a href="#">Warranty Documentation article</a> of the LDARtools Knowledge Base.</p>
	<p><b>Will we have to service the diaphragms on the pumps?</b>          No. The pumps are designed to be plug and play. You cannot service the diaphragms.</p>