

## Peristaltic Pump Connection, 4000

If you have not read the 4000 General Plumbing Instructions (I1781) for replacing plumbing parts on the KinExA® 4000 please do so now before continuing.

The following Parts and/or Tools are required to complete this installation:

[1] Peristaltic Pump Connection, 4000 (344419)

[1] 5/16" Crowfoot Wrench (043050)

[1] 10-32 Tan Nuts (346201)

[1] 1/16" Tan Ferrules (347113)

[1] Plumbing Puller (027150)

[1] 1/4"-28 Headless Brown Nut (346011)

[1] 1/16" White Ferrule (347016)

[3] Female, Luer to 10-32" Adapter (343437)

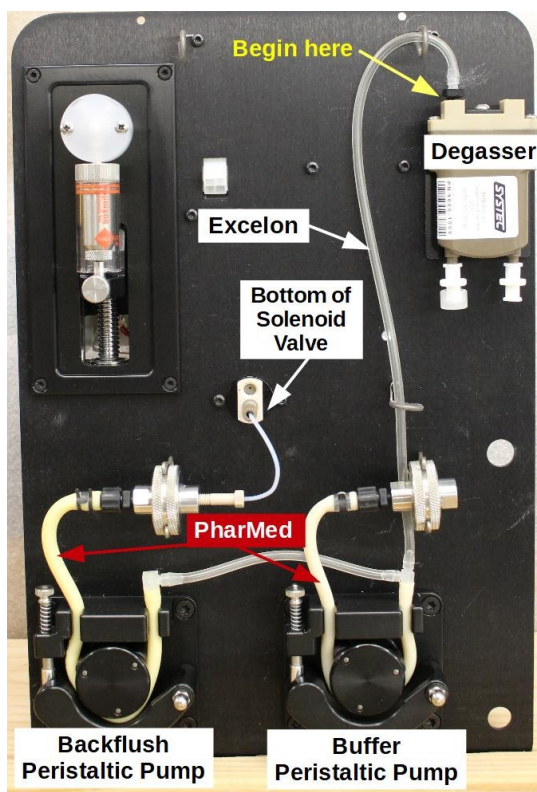


Figure 1. Installing the Peristaltic Pump Connection on the Plumbing Panel.

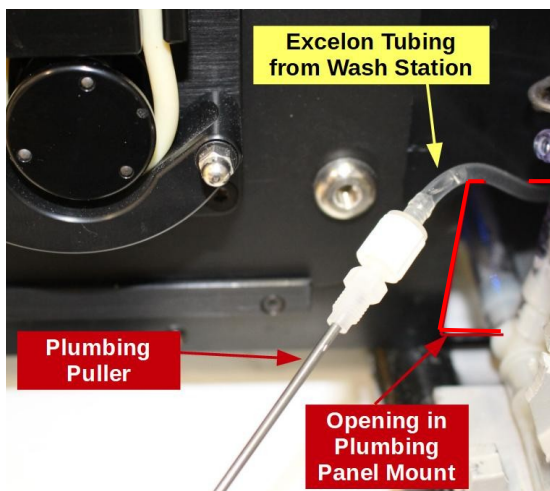
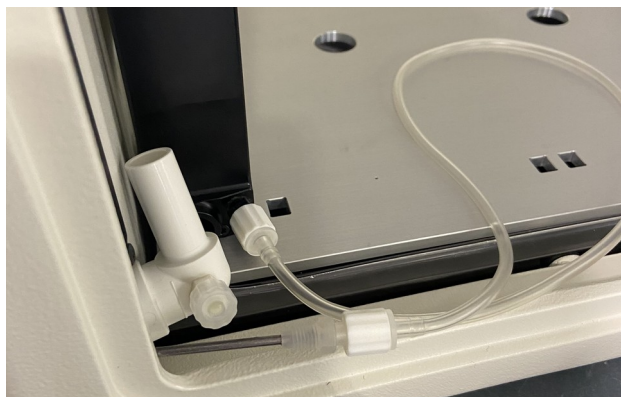


Figure 2. Using the Plumbing Puller to attach the Excelon Tubing.

- Insert the Rotating Hose Barb into the top left hole of the Degasser using the 5/16" Crowfoot Wrench (043050).
  - **Note: Always hand tighten the Hose Barb Adapters followed by a 1/4 turn with the 5/16" Crowfoot Wrench.**
- Route the Excelon Tubing up through the Tubing Support above the Degasser, then down through the next Tubing Support, behind the Buffer Filter, and then neatly insert the PharMed Tubing into the Buffer Peristaltic Pump and attach to the left side of the Buffer Filter using the Adapter as shown in Figure 1.
- Route the Excelon Tubing that branches off the first connection, behind the PharMed Tubing exiting the Buffer Peristaltic Pump, and neatly insert the next section of PharMed Tubing into the Backflush Peristaltic Pump and attach to the left side of the Backflush Filter using the Adapter as shown in Figure 1.
- Insert the lone piece of Milky PTFE Tubing into the **bottom** hole of the Solenoid Valve using a 1/16" White Ferrule (347016) and a 1/4-28 Headless Brown Nut (346011). Route the other end into the open end of the Backflush Filter

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- using a *10-32 Tan Nut* (346201) and a *1/16" Tan Ferrule* (347113).
- Attach a *Female, Luer to 10-32" Adapter* (343437) to the right side of the *Buffer Filter* above the *Buffer Peristaltic Pump*. Hand tighten and then use the *5/16" Crowfoot Wrench* to tighten another  $\frac{1}{4}$  turn.
  - Connect the *1/8" Hose Barb to Male Luer Adapter*, from the lone *Excelon Tubing* included in the package, to the *Female Luer* on the *Wash Station*.
  - Insert the *Plumbing Puller* (027150) through the rectangle opening on the bottom right corner of the *Plumbing Panel Mount* (**Figure 2**) so that the *Female Luer* is pushed in first.
  - Push it all the way up to the *Wash Station* so that the other end of the *Excelon Tubing* can attach to the Luer connection shown in **Figure 3**.
  - Once attached, pull the *Plumbing Puller* back through the *Panel*, disconnect the *Excelon Tubing* from the *Puller*, and then finally connect it to the right side of the *Buffer Filter*.



**Figure 3.** The *Plumbing Puller* is routed near the *Wash Station* so the *Male Luer* can be attached to the *Female Luer*.