

INTERNAL PUMP CHANGE NOTIFICATION**I. PURPOSE:**

To notify customers of the change implemented to internal pumps used in the T100/T300/T400/T800 series of Teledyne instruments.

II. TOOLS:

N/A

III. PARTS:

07748XXXX

IV. PROCEDURE:

1. This note is to inform you of a change that has been made to the internal vacuum pump assemblies contained in our T100, 300, 400 and 800 series instruments. Earlier in 2017, these internal pumps were found to have decreased lifetime, resulting in premature (i.e. less than one year in some cases) damage to the pump's internal diaphragms. Once we became aware of this issue, Teledyne API worked with the supplier (KNF) to provide an alternative pump with longer lifetime, extending the internal diaphragm replacement interval. Beginning in late 2017, we switched completely over to the new style pump and no longer provide the previous style. The new pump has been added to all of the pump assembly kits contained in this family of instruments. It is a drop in replacement, (**Teledyne API part number: 07748XXXX**). However, the new pump does require a different pump rebuild kit.
2. Below are further details for identifying which pump is in your instrument so that you can decide which rebuild kit you require. Or, instead of rebuilding the old style pump, you can replace it with the new style pump assembly using P/N 07488XXXX (Complete Pump Assembly) or 084340000 (Pump only no fittings).
3. Both pumps look very similar from the outside. To identify which one you own, observe the 'Type' listed on the label located on the side of the pump motor. The old style pump will show 'PU3060-N811' and the new style pump will show 'PU4292-N811'. For the old style pump, the rebuild kit part number is **PU0000096**. For the new style pump assembly, the rebuild kit part number is **PU0000110**. Each pump should contain a sticker with the correct rebuild kit part number located on the top of the pump. If for some reason the sticker is not present or legible revert to the pump Type to determine the rebuild kit.



Location of pump Type (Side View)



Location of rebuild sticker (Top View)

Old vs. New

KNF Pump Model Number	Complete Pump Assembly P/N	Pump Only (No Fittings)	Rebuild P/N
PU3060-N811- Old	07748XXXX Rev B	076900000	PU0000096
PU4292-N811- New	07748XXXX Rev C	084830000	PU0000101

Pump Matrix

TAPI P/N	Instrument Model
077480000	300EU/TU, 320EU/TU, 80xE/T
077480200	10xE/T, 400E/T
077480300	3x0E/T (no flow controller (FC))
077480400	3x0E/T (FC included)
077480500	100EU/TU, 108EU/TU
077480600	A-Style

If you have any questions, please contact Teledyne API directly (+1 858.657.9800 ph); (sda_techsupport@teledyne.com), your local Teledyne API distributor, or Teledyne API Regional Sales Manager for support.