TELEDYNE
INSTRUMENTS
Advanced Pollution Instrumentation
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Service Note

98-040 Rev B
2 May, 2007

INCREASING STABILITY OF NO_2 PERM TUBE OUTPUT

I. SCOPE:

To enhance the performance of the NO_2 output, resulting in a more stable and constant permeation tube output, you should install a dryer at the IZS inlet. As humidity fluctuates, the charcoal has a tendency to absorb or outgas water. This changes the humidity across the perm tube. Since NO_2 is water soluble, this fluctuation in humidity can produce unstable output from the perm tube. Humidity can also cause a buildup on the membrane, resulting in perm tube drift. The procedure provides the user with installation information for adding a Dririte canister to the IZS input.

II. TOOLS:

Adjustable wrenches
Pliers

III. PARTS:

API Part # KIT-37

IV. PROCEDURE:

1. Disconnect the DFU filter from the charcoal/Purafil scrubber on the rear panel of the analyzer.
2. Remove the charcoal/Purafil scrubber from the rear panel of the analyzer.
3. Connect the ¼" union into the nut on the tube of the sealed end of the Dririte canister.
4. Install the DFU filter onto the union on the sealed end of the Dririte canister.
5. Connect the tube from the cap end of the Dririte canister to the fitting on the end of the charcoal/Purafil scrubber.
6. Connect the DFU filter to the rear panel of the M200A.

Please contact API Customer Service if you have questions concerning this or any API equipment and procedures.

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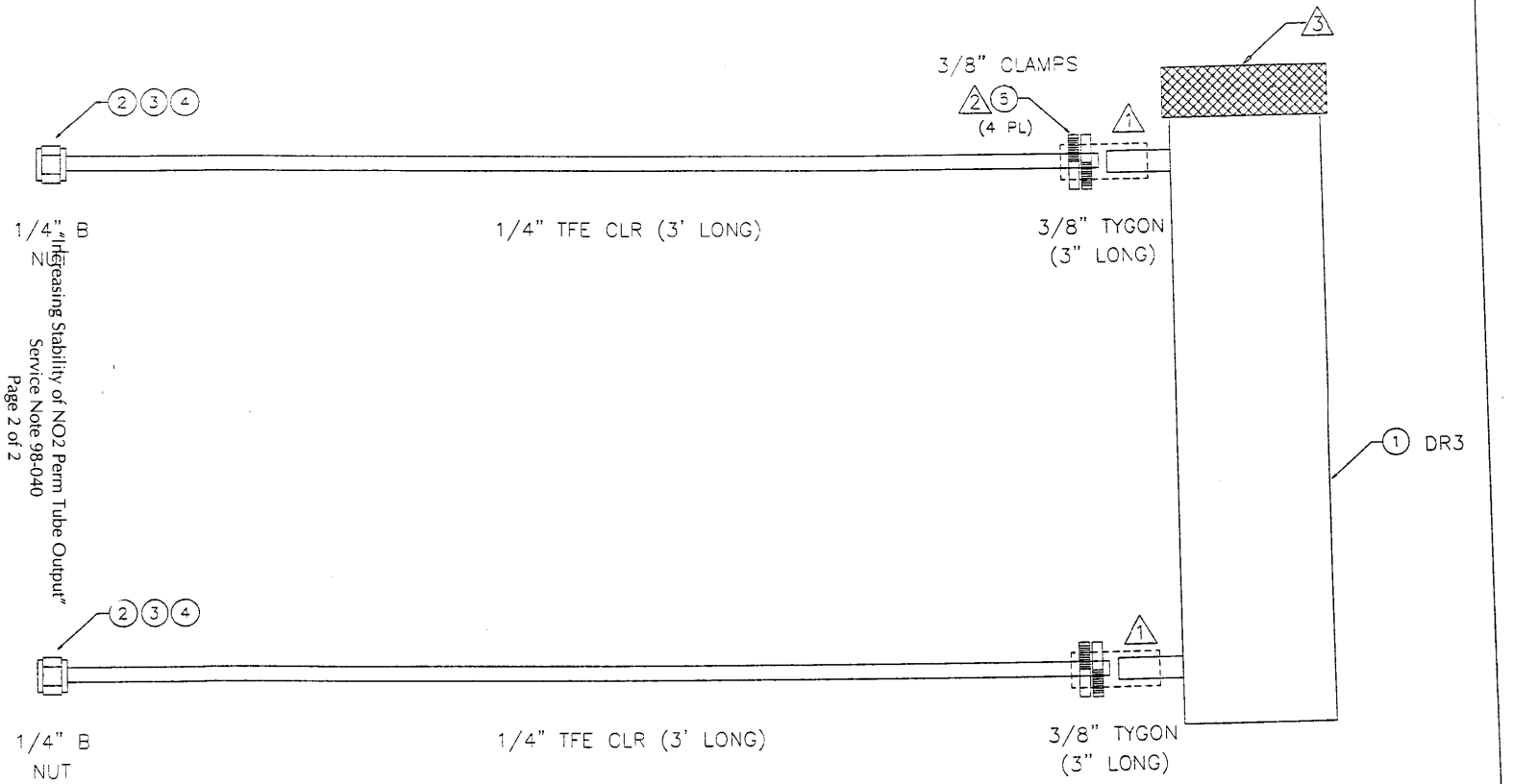
NOTES:

1. PUSH THE TYGON TUBING OVER THE NIPPLE COVERING AT LEAST 4 TO 5 RIBS
2. INSTALL EACH PAIR OF CLAMPS AS SHOWN (CLAMPS MUST BE TOUCHING AND SHOULD ONLY CLAMP THE TYGON AND TFE TUBING)
3. LEAK CHECK AND STAMP ASSY



DATE	ECR#	DESCRIPTION OF CHANGE	BY
12/2/97		A: INITIAL RELEASE	RH

TOLERANCES
X ± .05 XXX ± .005
XX ± .010

ADVANCED POLLUTION INSTRUMENTATION, INC. SAN DIEGO, CA.

APPROVALS	DATE
DRAWN	
CHECKED	
APPROVED	

DO NOT SCALE DRAWING

ASSY, DRIERITE CARTRIDGE

SIZE | DRAWING NO. KIT 37 | REVISION A

SCALE | SHEET