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10-009

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HOW TO INSTALL A CHARCOAL SCRUBBER INTO A M100X FOR AIDING IN HC REMOVAL

I. PURPOSE:

To install a charcoal scrubber into an M100x analyzer to aid the kicker in removal of hydrocarbons. By cleaning the exhaust of the reaction cell before it goes into the outer jacket of the kicker. This will aid the kicker in the removal of hydrocarbons.

II. TOOLS:

9/16" Wrench
1/2" Wrench
Tubing Cutter
#2 Philips Head Screwdriver

III. PARTS:

072030000 KIT, HC REMOVE AID SCRUB M100X

IV. PROCEDURE:

NOTE See FIGURE 1 during all steps to install the scrubber into the unit.

1. Turn off the power switch and unplug the analyzer. Remove the screws holding the cover on and then remove the cover from the analyzer.
2. Locate the reaction cell, and then locate the 1/4" brass elbow fitting that is coming out of the top of the reaction cell. Disconnect the piece of tubing from this fitting.
3. Take the charcoal scrubber from the kit and place it in the analyzer with the DFU particulate filter on the top.
4. Take the 1/4 brass union from the kit and remove the nut and ferrules from one side of the union and install them onto the 1/4 elbow from step 2.
5. Install the union onto the tubing that was disconnected in step 2, using the existing nut and ferrules.
6. Take the TU0000005 (Black 1/4 tubing) from the KIT and plumb up the scrubber so that the bottom, side without the filter, goes to the brass elbow. Then plumb up the brass union installed in step 4 to nylon union connected to the blue DFU filter.
7. Exact placement of the scrubber and running of the tubing will vary from analyzer to analyzer depending on what the model of the unit is and the options installed. See Figure 1 for an example of how a completed installation may look. **You will want to make sure that the scrubber is relatively vertical and not lying down horizontally in the analyzer.**

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8. Leak check the analyzer (Remove vacuum or pressure slowly to avoid sudden suspension of the activated carbon) and if all is good, reinstall the cover and power plug. Turn the unit back on and ensure it is working properly.



Figure 1

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