



AutoRAE Lite for QRAE II QRAEII Upgrade Instructions

Pre-requisite: Firmware of QRAE II should be V3.00 or higher

QRAE II Unit Check

- 1 Diffusion model
 - 1.1 Old generation QRAEII diffusion model (*S/N:155-000001~155-099999 and 155-50001~155-506586*) will not support AutoRAE Lite.
 - 1.2 QRAE II diffusion model (*S/N 155-506587~155-599999 and 155-100001~155-499999*) with firmware V2.05 or before, need to upgrade the firmware to V3.00 (**File: QRAE II V3.00 German.Fwm, or QRAE II V3.00 Spanish.Fwm**) through ProRAE Studio V1.14 Build 170.
- 2 Pump model
 - 2.1 Confirm the pump gas plate is the new one; the physical design will include a filter stem and allow an external filter to be attached (screwed) on the front. A conversion kit for 2 instruments is available (**Part Number: 020-3604-002-FRU**).



Old



New

- 2.2 QRAE II pump model (*S/N 181-000001 and later*) with firmware V2.05 or before, need to upgrade the FW to V3.00 (**File: QRAE II V3.00 German.Fwm, or QRAE II V3.00 Spanish.Fwm**) through ProRAE Studio V1.14 Build 170.

QRAE II FW Upgrade through ProRAE Studio

- 1 Install software: ProRAE Studio V1.14 Build 170 from Website <http://www.RAEsystems.com/>.
- 2 Run ProRAE Studio and upgrade the FW to V3.00, the QRAE II unit's configuration will be restored to the factory default settings. When you Power on the unit again, you will find the SPE sensor need conditioning, Cal expired, all sensors are alarming and Pump alarm (if a diffusion unit), so you must:
 - 2.1 Perform fresh air calibration to eliminate the sensor alarms.
 - 2.2 For pump model, manually block pump inlet. Re-enter pump stall value through Diagnostic Mode if pump alarm fails to activate.
 - 2.3 If a diffusion unit, change the Pump Mode to Diffusion mode through Programming Mode/Change Monitor Setup/Pump Mode/Diffusion Mode.
 - 2.4 Restore any changes to span value, alarm, datalog interval or other settings through ProRAE Studio V1.14 Build 170 or via unit's Programming Mode.