UNITY 2™

CIA 8 Operators Manual

Version 1.0

February 2008

1. UNITY 2 – CIA 8 method

Once the software has been downloaded to the Air Server, the only operating mode available will be On Line Air and an on-line sampling method is displayed. The system is now ready for use with whole-air samples or for continuous on-line monitoring of air or gas streams.

Note: The '**Pump On'** check box has no function.

Note: Selection of '**Dryer On'** (for humid samples) by checking the appropriate box will only be effective if the appropriate option has been installed.
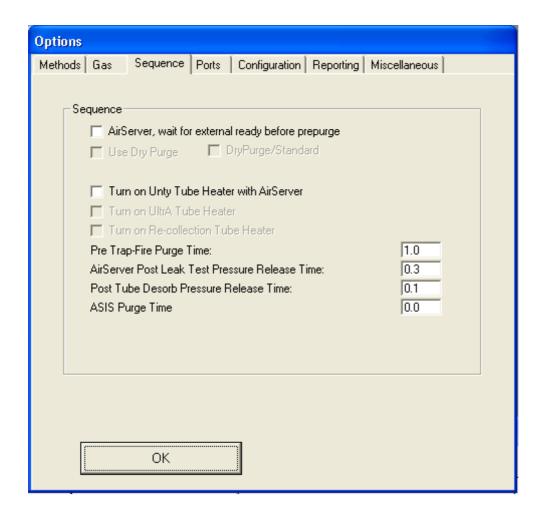
1.1. Internal Standard Addition

The internal standard gas is connected to the '**I.S. in**' 1/8" connector. The flow through the internal standard loop is controlled by the '**I.S. Flow Regulation**' needle valve.

The only additional option available in the method with the CIA 8 compared to the Airserver is the '**Add Standard**' check box. Enabling this option will mean during the '**Prepurge Time**' the 1 mL sample loop will be swept with internal standard at a flow rate determined by the '**IS flow regulation**' needle valve.

Once sampling begins the sample gas sweeps through the 1 mL sample loop carrying the internal standard onto UNITY 2.

1.2. Parameters for on-line mode methods

The options are identical to AirServer with the exception of:

CIA Purge Time : Determines the time the IS loop is purged during sampling. If left at zero the loop will be purged for the duration of the sampling time.