

UNITY 2™

CIA 8 Installation Manual

Version 1.1 (Changes: Section 2.4)

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1.	Introduction	2
2.	Installing the CIA 8 onto UNITY 2	2
2.1.	Sample line connection	2
2.2.	Connecting UNITY 2 to CIA 8 when no dryer is fitted	3
2.3.	Connecting the MFC in CIA 8 to UNITY 2	3
2.4.	Downloading the operating software to UNITY 2 – CIA 8	4
2.5.	Detecting and setting the external MFC.....	5

1. Introduction

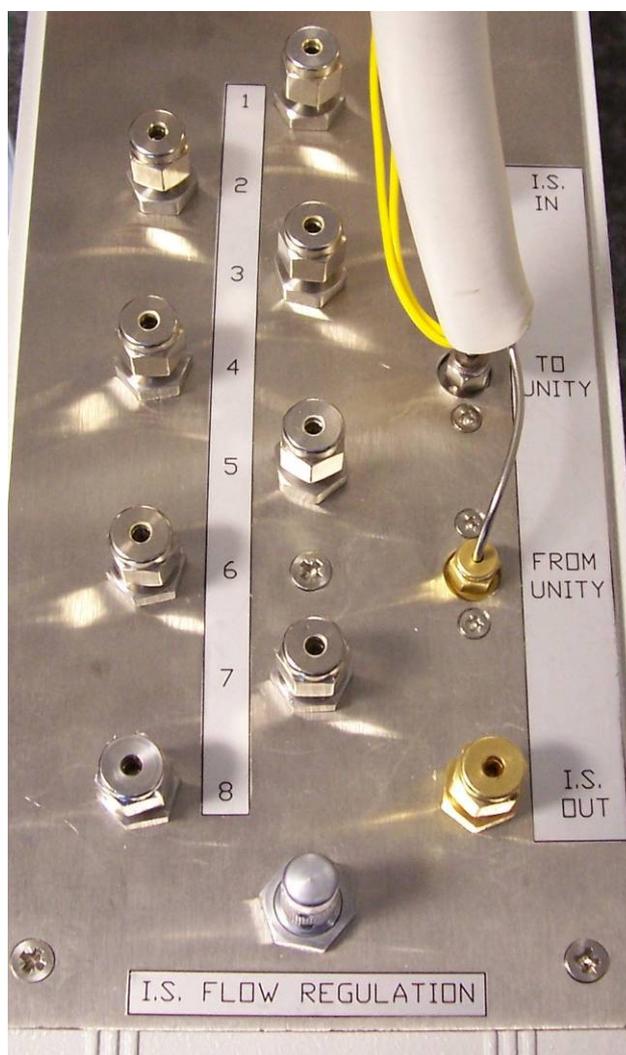
The CIA 8 is an extension of the Air Server for work that requires up to 8 channels with internal standard addition.

2. Installing the CIA 8 onto UNITY 2

See the Air Server installation manual. Below are the deviations from the Air Server instructions.

2.1. Sample line connection

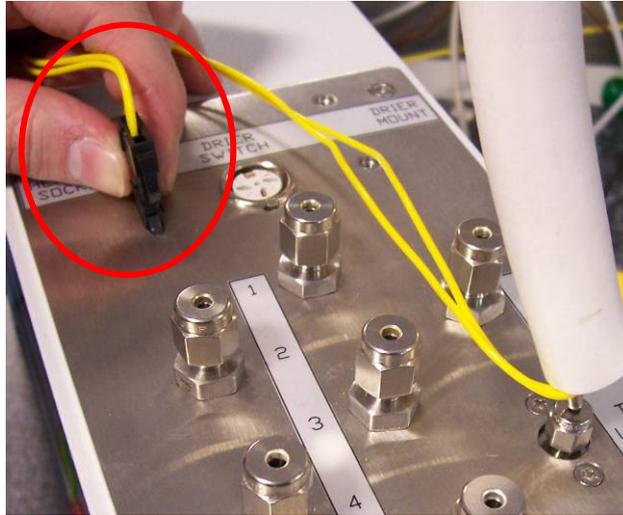
Sample lines are connected to the fittings on the top plate of the CIA 8 labeled 1 – 8. Internal standard gas is connected to the 'IS In' fitting.



2.2. Connecting UNITY 2 to CIA 8 when no dryer is fitted

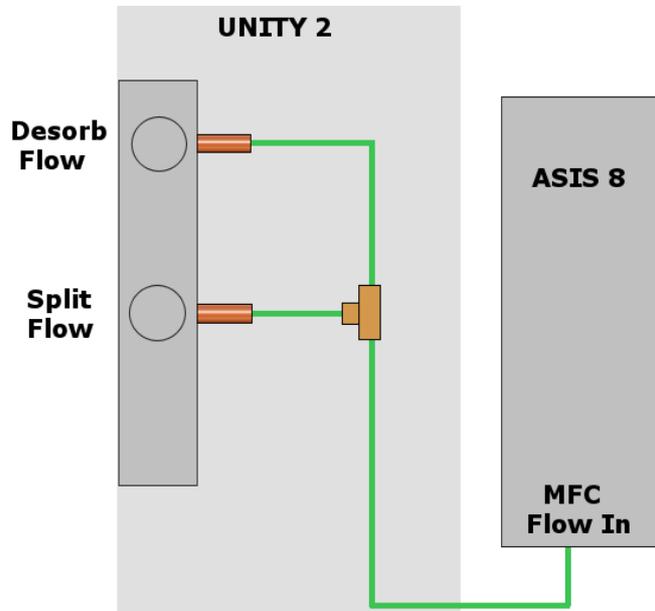
Connect the two 1/16" nuts on the heated transfer line as shown above with the brass connector in the 'From UNITY' position and the stainless steel connector in the 'To UNITY' position.

Next connect the heater connector as highlighted.



2.3. Connecting the MFC in CIA 8 to UNITY 2

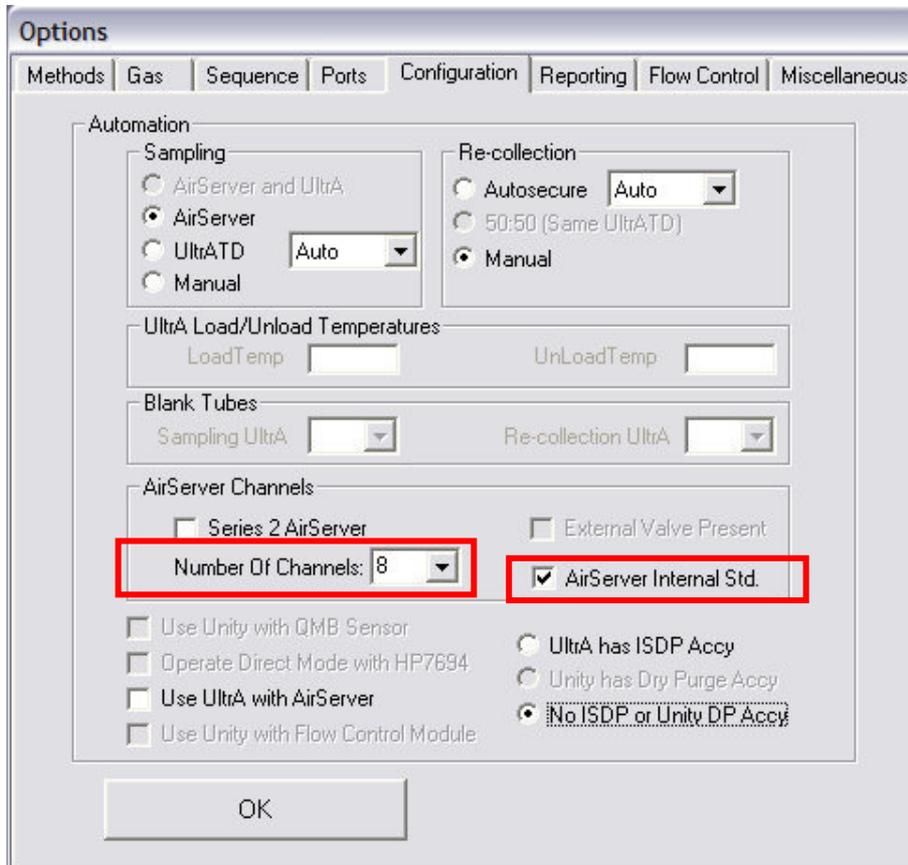
Using 1/16" PEEK and 1/8" T pieces connect the outlet lines from the split and desorb needle valves together and connect to the 'flow in' union on the back panel of CIA 8.



2.4. Downloading the operating software to UNITY 2 – CIA 8

Once the firmware has been downloaded click on the '**View**' menu of the software, click on '**Options**' and then select the '**Configurations**' tab.

Ensure the '**Number Of Channels**' is set to 8 and the '**Air Server Internal Std.**' check box is ticked as shown. Do **not** tick '**Series 2 Airserver**'.



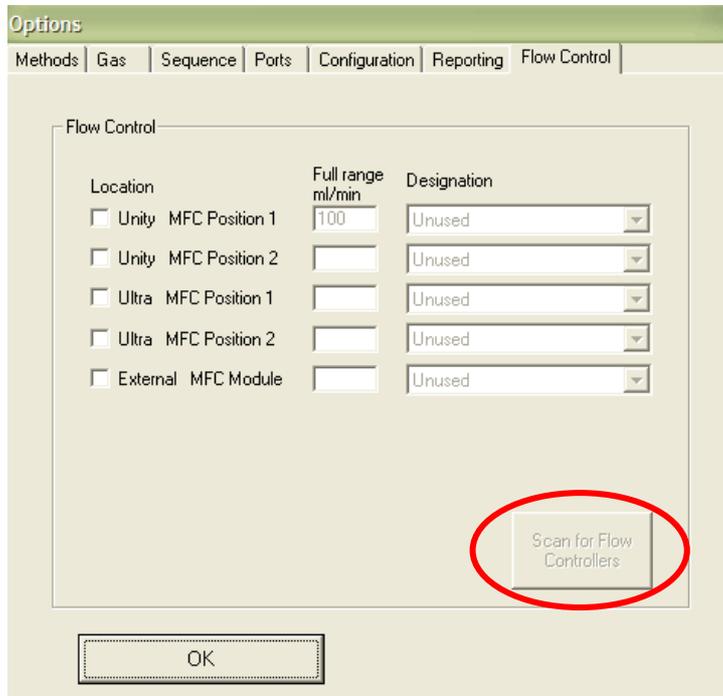
A "**Change of System Configuration**" warning message will be displayed – click '**OK**' a "**Configurations Options**" dialogue box then appears - click '**OK**'.

Click '**OK**' on the Options page - a "**Software is shutting down**" message will be displayed telling you that the software is closing in order to effect the changes just made.

Recycle the power on the CIA 8 and then restart the UNITY 2 software by double clicking on the UNITY icon on the desktop. Wait as the software is downloaded to the CIA 8.

2.5. Detecting and setting the external MFC

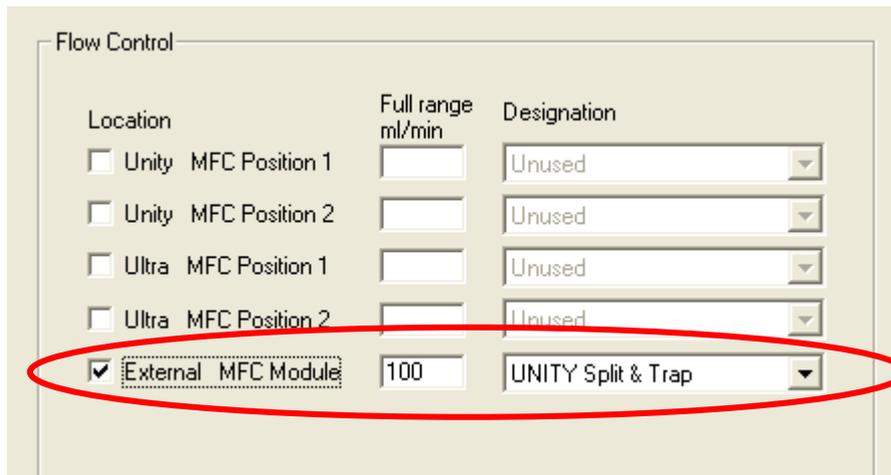
CIA 8 contains a MFC which is external to UNITY 2. Once the CIA 8 is correctly configured (see above) go to '**View – Options – Flow Control**'



Click '**Scan for Flow Controllers**' (password is **Davinci**) to automatically detect all MFCs present.

Designate the external MFC to control the '**UNITY Split & Trap**' flow by using the drop down dialogue box.

Enter the maximum flow of the MFC into the '**Full range ml/min**' box.



Ensure the Split and desorb needle valves on the UNITY 2 are open enough to allow the desired flow.