

Charcoal Canister Conditioning Systems



Model 110 Dual Station Canister Bench

Webber EMI Charcoal Canister Conditioning Systems utilize our Windows-based Data Acquisition & Control (DAC) system, allowing a user to quickly set up and precisely load charcoal canisters in accordance with all applicable EPA and CARB protocols.

These Conditioning Systems are offered in either a single station configuration - which allows the user to precondition and load a single canister or two charcoal canisters sequentially – or in a dual station configuration – which allows the user to load two canisters simultaneously or up to four canisters sequentially.

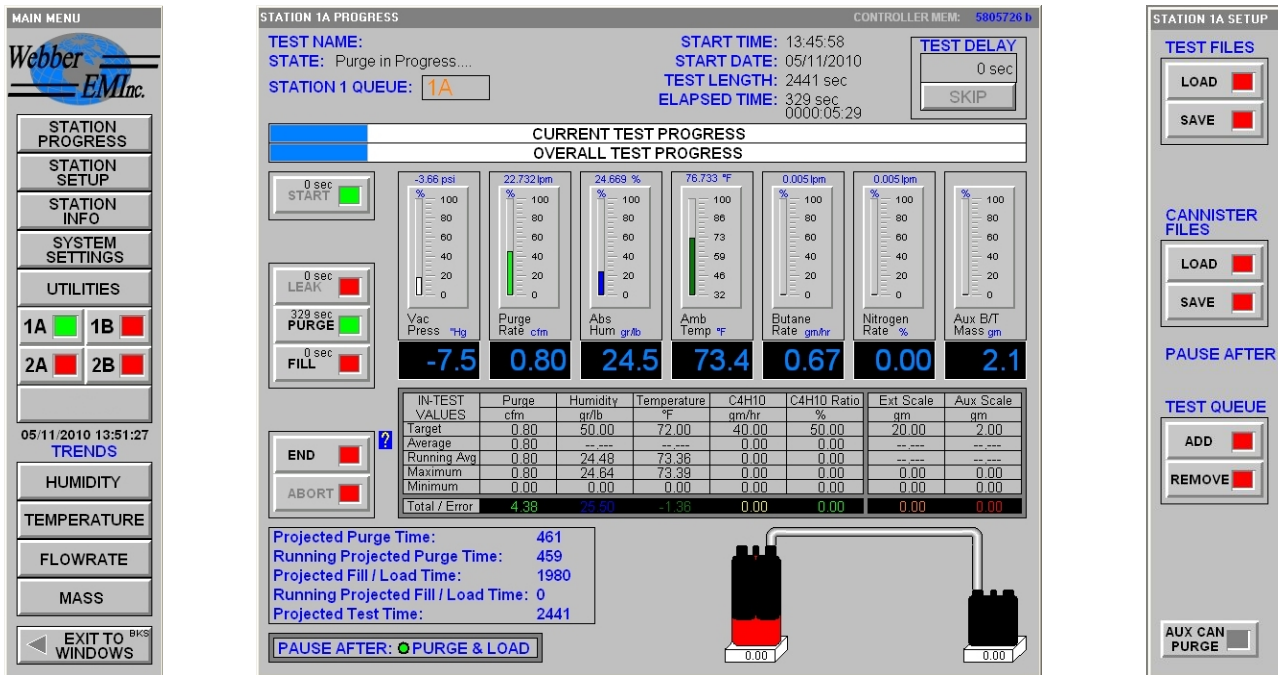
The Webber EMI proprietary software insures faster set-up times, auto-sequencing of ‘check / fill’ events, comprehensive data reporting and includes a built-in calibration utility.



Equipped with Sartorius Scale(s)

Standard features

- Meets all required EPA/CARB conditioning procedures.
- Sturdy modular enclosure and system design for ease of installation and expansion.
- Independent, sequential, and multiple canister loading operations.
- Minimal operator setup and system maintenance requirements.
- All 'wetted' components: Stainless Steel, Teflon®, or PVC.
- Ability to confirm calculated canister bed volumes & working capacity via EPA / CARB approved 'breakthrough' methodology.
- Canister Loading: User selectable Butane-to-Nitrogen percentage by volume.
- Butane/Nitrogen loading with high capacity vacuum-driven canister purge.
- Software selectable flow rates –
 - Butane Loading to CFR regulations
 - Purge Air Flow to CFR regulations
 - 50% Butane to 50% Nitrogen mixture composition by volume



STATION 1A PROGRESS CONTROLLER MEM: 5805726 h

TEST NAME: START TIME: 13:45:58
 STATE: Purge in Progress... START DATE: 05/11/2010
 STATION 1 QUEUE: 1A TEST LENGTH: 2441 sec
 ELAPSED TIME: 329 sec 0000:05:29

CURRENT TEST PROGRESS
OVERALL TEST PROGRESS

0 sec START
 0 sec LEAK
 329 sec PURGE
 0 sec FILL

Vac Press: -3.66 psi
 Purge Rate: 22.732 lpm
 Abs Hum: 24.689 %
 Amb Temp: 76.733 °F
 Butane Rate: 0.005 lpm
 Nitrogen Rate: 0.005 lpm
 Aux B/T Mass: 2.1 gm

IN-TEST VALUES	Purge	Humidity	Temperature	C4H10	C4H10 Ratio	Ext Scale	Aux Scale
	cfm	gr/lb	°F	gm/hr	%	gm	gm
Target	0.80	50.00	72.00	40.00	50.00	20.00	2.00
Average	0.80	24.49	73.36	0.00	0.00	---	---
Running Avg	0.80	24.64	73.39	0.00	0.00	0.00	0.00
Maximum	0.80	24.64	73.39	0.00	0.00	0.00	0.00
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total / Error	4.36	25.50	-1.36	0.00	0.00	0.00	0.00

Projected Purge Time: 461
 Running Projected Purge Time: 459
 Projected Fill / Load Time: 1980
 Running Projected Fill / Load Time: 0
 Projected Test Time: 2441

PAUSE AFTER: PURGE & LOAD

STATION 1A SETUP

TEST FILES
 LOAD
 SAVE

CANNISTER FILES
 LOAD
 SAVE

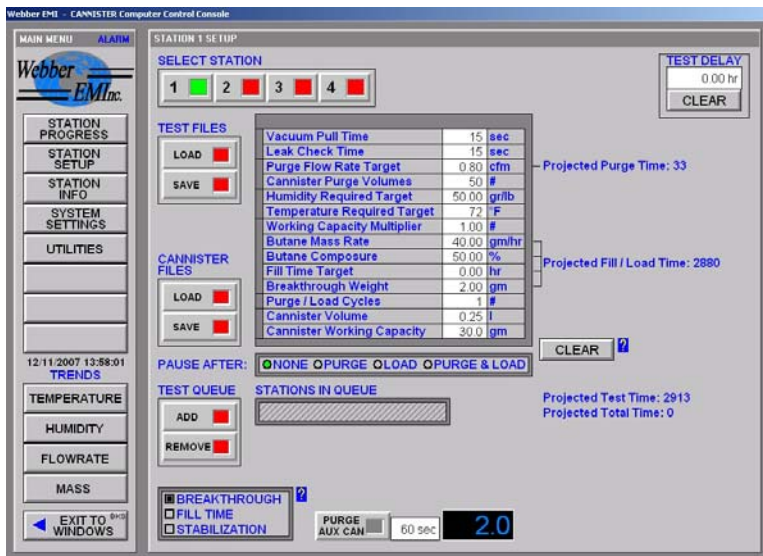
PAUSE AFTER

TEST QUEUE
 ADD
 REMOVE

AUX CAN PURGE

General Specifications

- *Flow Rates:*
 - *Purge to 50 slpm*
 - *Butane to 1400 grams/hour*
 - *Nitrogen to 50 slpm*
- *Enclosure dimensions: 72”H x 24”W x 36”D.*
- *Mass Flow Controller Accuracy: +/- 1% of full scale.*
- *Repeatability: +/- 0.15% of full scale.*
- *Power requirements: (2 x) 120 / 220 VAC 50/60Hz, 20 Amp single phase.*



Data Acquisition

- *Data & alarm logging*
- *Comprehensive test report generation*
- *Temperature & humidity charting*
- *Flowrate Charting*
- *Mass Logging*

Optional features

- *Second station with separate controls.*
- *Onboard UPS (uninterrupted power supply).*
- *L.E.L. (lower explosive limit) alarm system.*
- *Barometric pressure monitoring.*
- *Humidification control of purge air.*
- *Butane/Nitrogen Ratio from 0-100%*