

Model 110 Canister Conditioning Bench

The Webber EMI Canister Conditioning Bench is used to pre-condition charcoal canisters in accordance with all applicable EPA and CARB protocols.

The Canister Conditioning Bench uses a Windows-based Data Acquisition & Control system, combined with an intuitive graphical user interface and touch screen monitor, to allow the user to quickly set up canister conditioning procedures. The Webber EMI proprietary software package allows for autosequencing of purge / fill cycles, comprehensive data reporting, and includes built-in leak-check and calibration utilities.

The Canister Conditioning Bench is available in either a Single-Station or optional Dual-Station configuration:

- A Single-Station Bench allows the user to condition a single charcoal canister or two charcoal canisters sequentially.
- A Dual-Station Bench allows the user to condition two charcoal canisters simultaneously or up to four charcoal canisters sequentially.



Dual-Station Canister Conditioning Bench



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GENERAL SPECIFICATIONS

- Construction: Modular 19" rackmount enclosure with removable service panels.
 - Dimensions: 72" H x 24" W x 36" D (1.8 m H x 0.6 m W x 0.9 m D)
- Power Requirements: (2 x) 120 / 220 VAC 50/60Hz, 20 Amp single phase.
- Dedicated filter / regulator assemblies for Butane and Nitrogen supply gases.
- Dedicated vacuum pump (1 per station) for purge and leak-check operations.
- Dedicated Scale (1 per station) for direct weighing of reference canister.
- Front panel quick-disconnect fittings for connection to test canisters.
- *Cabinet purge vent blower with low-flow detector and alarm.*
- All 'wetted' component stainless steel, Teflon®, or PVC.
- Purge Air Absolute Humidity and Temperature sensor.
- Standard System Flow Rates:
 - Purge Air: 0 50 slpm (0 − 1.8 cfm)
 - Butane: 0 40 grams/hour
 - Nitrogen: 0 1 slpm
- Mass Flow Controller Accuracy: +/- 1.5% of full scale.





OPTIONAL EQUIPMENT

- External Scales for direct weighing of up to four (4) test canisters.
- Onboard UPS (Uninterrupted Power Supply).
- L.E.L. (Lower Explosive Limit) gas detector and alarm system.
- Humidity control system for purge air supply.

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Control System Features



- Real time monitoring of Test Progress.
- Interactive Test Setup and configuration.
- Minimal operator setup and system maintenance requirements.
- Humidity, Temperature, Flowrate, and Mass charting.

/C	1 A ST IN QUEUE]
TEST SETUR	,						
QUEUE	STATION 1	STATION 2 SELECTED		TEST NAME Load - 2gm Breakthrough			
TASK 1	1A	2B	2B STATION	CANISTER	WEMI	42	
TASK 2	1B		REMOVE	FILL BY MASS FILL BY TIME		STABILIZE CANISTER	
LOAD	TEST	LOAD / SAVE TEST		PURGE CYCLE			
CAVE TEST		DOES NOT INCLUDE			AIR FLOW RATE	22.65	lpm
SAVE TEST		GAINIST ER INFORMATION		CANIST	ER BED VOLUME	1.000	liter
INFOR	MATION	ESTIMATED TIMES		BED VOLUME MULTIPLIER		300.0	x
TE	ST	LEAK CHEC	K 00:00:30	AIR HUMIDITY		8.6	gm/m³
SYS	TEM	PURGE CYCL	.E 00:13:15	AIR TEMPERATURE		25.0	°C
		FILL CYCL	E 00.33.00	FILL CYCLE			
INFORMATION		TOTAL TES	T 00:46:45	BUTANE FLOW RATE		40.0	gm/hr
TEST REPORT FILENAME				co	MPOSURE RATIO	50.0	%
PATH		C:\TESTS\		BREAKT	ROUGH WEIGHT	2.0	gm
REPORT				F	ILL TIME TARGET	0.00	hr
DATALO	DATALOG			CANISTE	R WORKING CAP	20.0	gm
CLEAR FIELDS TO AUTO-GENERATE				WORKING	CAP MULTIPLIER	1.0	х
FILENAMES AT START OF TEST				NUN	IBER OF CYCLES	1	x



- Independent, sequential, and multiple canister conditioning operations.
- User selectable Butane-to-Nitrogen mixture by volume (composure ratio).
- User selectable flow rates: 0 100% of flow range.
- Comprehensive test data and alarm logging.
- Determination of canister working capacity via 'breakthrough' methodology.

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