

## *Fuel Handling Equipment*

*Fuel Conditioning Carts are systems designed for use in non-continuous, indoor applications where liquid test fuels need to be precisely temperature-controlled and exactly dispensed.*



*Fuel Service Carts are designed for dual application--both where fuels need to be drained from test vehicles, and where precise amounts of test fuel need to be dispensed into vehicles or machines that are not in the immediate area.*

*All Fuel Handling Carts conform to all applicable Federal EPA and California ARB regulations. All electrical components within these Carts are enclosed in Class I, Division 2 (Group D) explosion-proof devices as defined by the National Electrical Code.*

*Optional equipment for these units include a Vapor Recovery fuel hose and dispensing nozzle to minimize the potential for fuel vapor release during the vehicle refueling process.*

## Fuel Conditioners

*In its' standard configuration, the Webber EMI Model 107 FC Cart is designed to temperature-condition test fuels to any operator-selected temperature between 50 - 90°F and to precisely dispense fuel at that temperature via a conventional fuel dispensing nozzle. Using our 'closed system' design, temperature conditioning is accomplished with minimal loss of 'high end' hydrocarbon. This Cart's design allows fuel to be siphoned from an in-ground or external fuel storage container and also facilitates the transfer of fuel between two external fuel storage containers.*

*Our exclusive interface system allows an operator to quickly affix a standard 55-gallon drum of test fuel to the mobile drum dolly, which accompanies this Cart. Alternatively, this Cart can be ordered with a stainless steel tank, which also connects via this same interface. In either configuration, a specially constructed thermal jacket is included as standard equipment.*



*Fuel Conditioning Cart shown with standard 55-gallon Fuel Drum on dolly*

*The FC Cart comes equipped with 6" polyurethane-molded tread swivel casters that allow for easy movement.*



*Fuel Conditioning Cart Controls*

*The FC Cart controls have been designed to be easy to use. Via this simple control panel, an operator can:*

- monitor the digitally-displayed actual fuel temperature against the selected, digitally-displayed fuel set temperature;*
- adjust the fuel flow-rate in gallons-per-minute (GPM) both for circulating through the Cart and for dispensing through the fuel nozzle;*
- note the digitally-displayed, precise amount of fuel having been dispensed through the nozzle;*
- activate the E-stop feature of the Cart, shutting down all the Cart's electrical systems.*

## *Fuel Service Carts*

*Webber EMI Fuel Service (FS) Carts are designed to safely store and accurately dispense liquid fuels typically used in a vehicle test laboratory. These carts can be easily filled from any drum or other fuel storage container and then rolled to a vehicle. Using the self-filling suction system that comes as standard equipment on these Carts, these Carts also support quick 'Drain & Fill' of both Light and Heavy Duty test vehicles. ('Drain & Fill' refers to the process described in the CFR for removal of all fuel from a test vehicle's fuel tank before accurately refilling the tank to precisely 40% of its capacity.) In both of these configurations, the Webber EMI Fuel Service Cart's proven design and rugged construction provide easy operator use and excellent product durability.*

*The Webber EMI Light Duty FS Cart is designed for the operator – it is light in weight, easy to use, highly maneuverable and capable of 'draining & filling' any liquid test fuel. The cart can be easily filled from any drum or other fuel storage container and then rolled to a vehicle. (For easier maneuvering across rough surface grades, the Cart can be ordered with optional high pressure, inflatable pneumatic tires.)*

*As standard equipment, the Cart comes with a level indicator and a bottom-located drain plug in the 40-gallon fuel tank, and 8" hard rubber tires and a heavy-duty swivel caster with a foot-operated brake on the front wheel.*



*Light Duty Fuel Service Cart  
shown with optional vapor recovery*



*Heavy Duty Fuel Service Cart*

*The Webber EMI Heavy Duty FS Cart is designed to safely store and accurately dispense larger quantities of liquid test fuels. Like the smaller FS Cart, the Heavy Duty Cart can be easily filled from any drum or other fuel storage container and then rolled to a vehicle to dispense test fuel.*

*This Cart's larger tank, motor and fuel delivery system address the specific needs associated with high fuel-demand testing. This Fuel Cart handles up to 60 gallons of fuel and comes with a larger capacity hose and nozzle.*

## Fuel Handling Carts

<i><b>Fuel Service Cart</b></i>	<i><b>Fuel Conditioning Cart</b></i>
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### Standard Features

<i>Fuel Tank Capacity</i>	40 gallons	--
<i>Dimensions</i>	~20" W x 56" L x 48" H	~54" W x 36" D x 75" H
<i>Weight</i>	~250 lbs. dry; ~750 lbs. wet	~1000 lbs. dry; ~1,200 lbs. w/ext drum
<i>Temperature Range</i>	--	50 - 90 °F
<i>Fuel Hose</i>	Non-collapsible 12' hose	¾" Non-collapsible 12' hose
<i>Fuel Nozzle</i>	Auto-shutoff, unleaded fuel	¾" Auto-shutoff, unleaded fuel
<i>Fuel Filter</i>	Canister-style, screw-on	Canister style, screw-on
<i>Flow Meter</i>	Mechanical; 1/10 gallon resolution; batch and total display	Digital; 1/10 gallon resolution; rate and total display
<i>Fuel Dolly</i>	--	Wheeled drum dolly
<i>Drum Insulator</i>	--	Insulating jacket
<i>Flow Rate</i>	12 GPM	3-12 GPM
<i>Siphon Hose</i>	½" I.D. non-collapsible 10' hose	1" I.D. non-collapsible 10' hose
<i>Transfer rate</i>	8 GPM	--
<i>Power Requirement</i>	120 VAC 60 Hz 10 Amp	230 VAC, Single Phase, 60 HZ, 40 Amp
<i>Finish</i>	High gloss 'RED' enamel with white vinyl "GASOLINE" or "FUEL" decals on tank	Flat black frame with textured red cover panels
<i>Safety Equipment</i>	Self-retracting, reel-mounted, anti-static grounding cable	Self-retracting, reel-mounted, anti-static grounding cable
	Class I, Div. II (Group D) explosion-proof pump & motor	Class I, Div. II (Group D) explosion-proof pump & motor
	Air-tight, lockable, spring-loaded, self-closing fuel cap with anti-flashback screen	Air-tight, lockable, spring-loaded, self-closing fuel cap with anti-flashback screen
	Two-way fuel tank vent with spark arrester and charcoal vapor-adsorbing canister	Two-way fuel tank vent with spark arrester and charcoal vapor-adsorbing canister
	Over-fill safety cutoff	--
	--	Over-temperature cut-off switch
	--	Low fuel circulation flow cut-off switch

### Options

<i>Fuel Tank</i>	30 - 120 gallons	Standard 55 Fuel Drum or custom size stainless steel tanks available
<i>Temperature Range</i>	--	Low range (20-70°F); high range (70-110 °F); extended range (TBD)
<i>Flow Meter</i>	Digital rate/total display; Measurement in liters (1/10 liter accuracy)	Measurement in liters (1/10 liter accuracy)
<i>Fuel Hose</i>	Vapor Recovery delivery hose	Vapor Recovery delivery hose
<i>Fuel Nozzle</i>	Vapor Recovery dispensing nozzle	Vapor Recovery dispensing nozzle
<i>Fuel Dolly</i>	--	Additional wheeled drum dolly
<i>Drum Insulator</i>	--	Additional insulating jacket
<i>Voltage (Frequency)</i>	--	240 VAC 3-phase; 480 VAC 3-phase (50 / 60 Hz)

## *Specialty Fuel Handling Equipment*

*The Webber EMI Heavy Duty Fuel Delivery Trailer is designed to support 'on-site refueling' of test vehicles or off-road equipment needing long-term or high-volume fuel support.*

*Towed behind an appropriately sized customer-supplied transporter, this Fuel Trailer can be hauled anywhere.*

*This Trailer can be configured to transport any liquid test fuel and can be sized according to customer need.*



*Heavy Duty Fuel Delivery Trailer*



*Fuel Conditioning Room*

*The Webber EMI Fuel Conditioning Room is designed for 'out of building' storage of fuel drums and other potentially hazardous materials. All internal parts and systems are Class I, Div. II (Group D) explosion-proof rated.*

*These rooms are designed in accordance with customer requirements as to specific room dimensions and power requirements. These rooms can be ordered to include L.E.L. (Lower Explosive Limit) protective systems, thermostatically controlled HVAC (Heating, Ventilation and Cooling) systems, interior lighting, and fire suppression systems.*