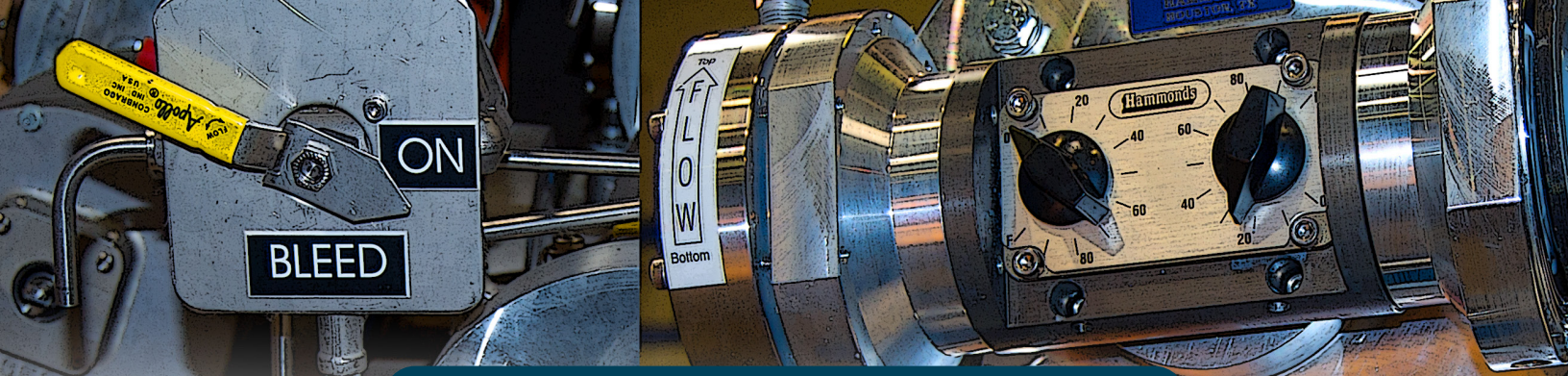




ADDITIVE INJECTION CARTS

Fluidpower MODEL HC

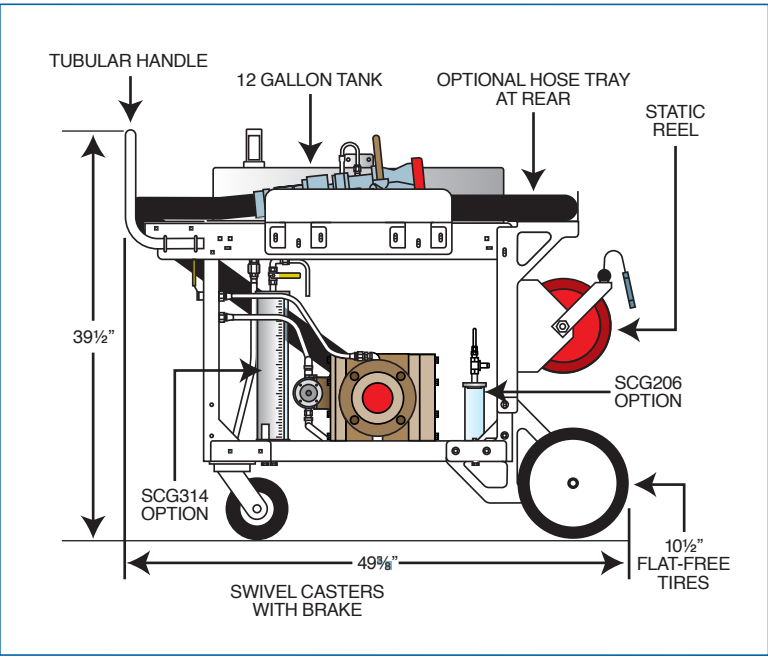
Portable Hydrant Cart

Sometimes an existing refueler or hydrant system is not the ideal point for injecting additives. Permanently installing an injector may limit the user's ability to offer flexibility in his additive program. The Hammonds HC portable cart is the answer. This system **can inject up to four additives** at any point in your fuel delivery system. Between transport and storage, storage and hydrant system, hydrant system and refueler, or refueler and aircraft, the HC portable injector **provides unlimited capability**. The standard unit is equipped as shown in the specifications. Single point or overwing connections can be matched to fit your exact application.

- Inject up to 4 additives simultaneously
- Unique Fluid-Powered Injection
- Product meters or pulsers not required
- Even and accurate blending
- Hammonds Model 600 fluid motor
- 10 gallon additive storage tank
- Injection ratios: 0-4,000 PPM (depending on application)
- 10' x 2.5" aviation fueling hose

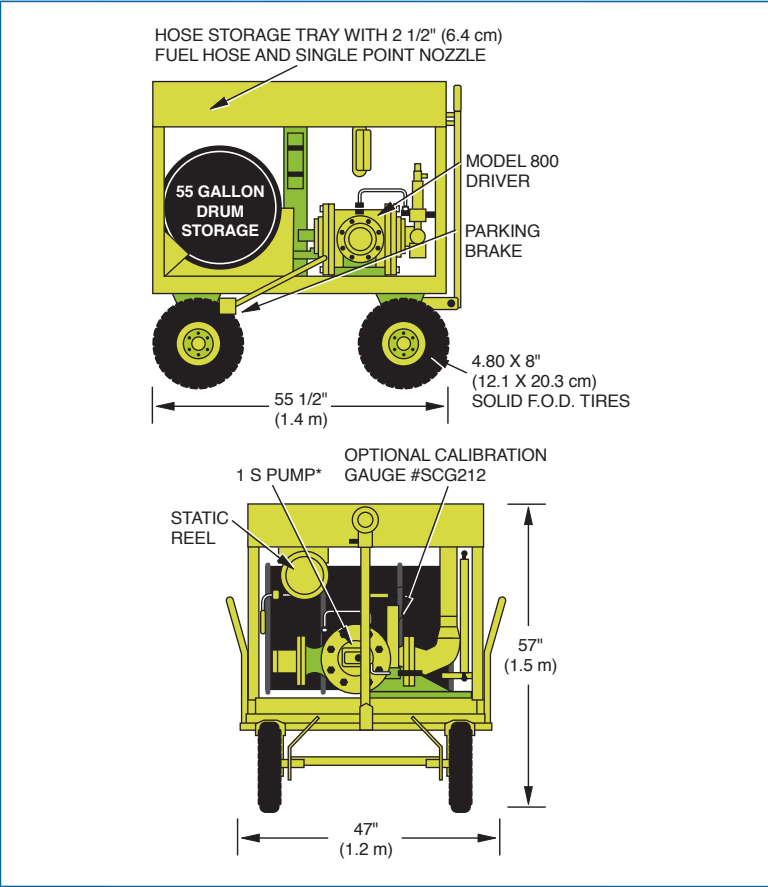
The HC Cart is ideal for... Corporate and Commercial Maintenance operators injecting additives required during periodic maintenance operations

- Model 150 GPM 7-75
- Model 600 GPM 20-250
- Model 800 GPM 75-700
- Model 1000 GPM 100-1100



The AC Cart is ideal for... high rate, large volume injection of additives typically associated with Airline Refueling

- Model 600 GPM 20-250
- Model 800 GPM 75-700
- Model 1000 GPM 100-1100



Fluidpower MODEL AC

Portable Hydrant Cart

The AC portable additive system provides **precise ratio injection** of biocides, FSII (Fuel System Icing Inhibitor), corrosion inhibitors and anti-static compounds. Designed specifically for high rate, large volume transfers, these systems handle typical airline fueling operations. Although a 55 gallon drum capacity is standard, the AC cart can be ordered with **additive storage up to 110 gallons**, sufficient to treat multiple large volume transfers. **Operation is automatic** with nothing to turn on and off or adjust. A single point connection from the hydrant vehicle into the cart, and the cart single point fueling nozzle into the aircraft is all that is required. Single and dual hose arrangements are available.

- Inject up to 4 additives simultaneously
- Unique fluid-powered injection
- Product meters or pulsars not required
- Even and accurate blend
- Precise injection ratios
- 55 gallon drum carriage
- Parking brake
- Injection ratios: 0-4,000 PPM (depending on application)

SPECIFICATIONS

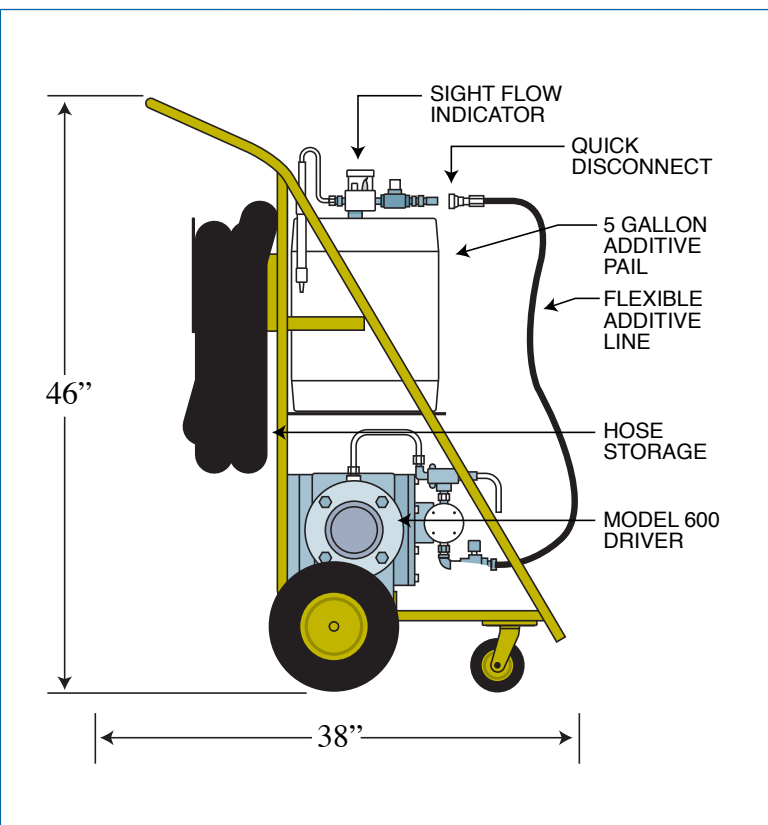
- Hammonds Model 800 fluid motor
- Hammonds 1S pump for ratios up to 445 ppm
- Number of additives: 1 standard, 2, 3, or 4 optional
- Product Inlet: Single point receptacle
- Product Outlet: Single point fueling nozzle
- Injection ratios: 0-4000 PPM depending upon application
- 75-700 GPM (280 - 2650 lpm) continuous operation standard
- 50-750 GPM (190 - 2800 lpm) intermittent operation
- Product temperature range: -40° - +120°F (-40° - +50°C)
- Maximum product line pressure: 100 PSI
- 55 gallon drum rack with hold down
- Drum quantity level gauge
- HV Sight Flow Indicator with suction strainer
- Large capacity desiccant dryer
- Product hose: 15' x 2 1/2" aviation fueling hose
- Stainless steel flexible additive hose with quick disconnects
- Parking brake
- Static ground reel
- 4.80 x 8" (12 x 20 cm) F.O.D. tires
- Product viscosities: to 10,000 SSU
- Fuels, oils, additives, and liquid gases

CONSTRUCTION MATERIALS

- Hard anodized aluminum or carbon steel
- Metering pump: All wetted parts 300 series stainless steel
- Elastomers: Aflas®, Viton® and Teflon®
- Mechanical Seal: Carbon on ceramic
- Overall dimensions: 47"W x 55.5"L x 57"H
- Weight: 1,000 lbs.



The PHC1 Cart is ideal for... small, low-volume fueling operations that can't justify fixed systems.



MODEL PHC1

Portable Hand Cart

The PHC1 Portable Hand Cart is designed to support **either single-point or over-wing fueling** and includes a Hammonds Fluid-Powered injector, additive storage, a hose leading from the injector to the aircraft and the appropriate fueling nozzle. A hose from a refueler, fueling cabinet or fuel farm connects to the inlet of the cart and fuel is delivered to the aircraft through the hose and nozzle mounted on the cart. **Fast, spill-proof connection** is insured by a dry break fuel hose connection into the cart. The lightweight walk-along cart stores everything required and is handled easily by one person. Since the flow of fuel powers and controls the injector, there is **no need for external power**, batteries or air, and the system is passive providing for automatic operation anytime fuel passes through the system. The PHC1 Portable Hand Cart is ideal for small, low-volume fueling operations that can't justify fixed systems or those operators that need to treat their fuel with biocides such as **BioborJF®** or any other additive.

- Single additive injection
- 7-75 GPM or 20-250 GPM

STANDARD FEATURES

- Hammonds Model 600 fluid-powered injector
- 5SF 5 gallon pail adapter with On/Off valve and desiccant dryer
- 10 foot 1 1/2" fuel hose
- OPW 1 1/2" Model 295 over-wing nozzle with duckbill
- Single point inlet connection
- Static grounding reel and cable
- Hose storage
- Four-wheel cart for hand transport
- All stainless steel additive fittings and braided hose to container with dry break connection

OPTIONS

- Single point nozzle
- 2" hose
- Additive meter with digital readout and totalizer
- Suction calibration gauge
- Model 150 or Model 800 Injectors available

Over-Wing nozzle and hose (Optional)



Single-Point nozzle and hose (Optional)

