Fire Pump Service **Testing & Training**

for

Fire Pump Engineers & Firefighters

Making drafting pits and other sources obsolete.

The Draft Commander 3000® A/T Mobile Fire Pump Testing & Training Unit is a unique, environmentally friendly mobile fire testing and training unit that allows you to perform a true pump test from draft with clean clear water, creating a suction lift requiring the use of a primer as per NFPA 1911-2012 Edition, Section 18.7.5.1.

Testing ensures the engine and fire pump are performing with the correct horsepower and the fire pump is pumping the correct amount of GPM. You have the means of testing your fire truck at your desired location, at any time, during various seasons of the year offering unmatched simplicity, accuracy and safety.

The Draft Commander 3000® A/T offers many other functions besides fire pump testing, such as training operations of the fire engine pump and different evolutions of flowing water while using the same water over and over.

The Draft Commander has proven itself as a testing and training device since 2002 by testing thousands of fire trucks by municipalities, government agencies, commercial and industrial fire apparatus service agencies. This unit comes fully equipped to perform pump service tests up to 3,500 plus GPM as per NFPA-1911 and ISO Guidelines.

Through years of design, research and input from the fire service industry, our dedicated staff has developed, in our opinion, the most innovative product to enter the fire service industry in years.

Gary L. Weis, Inventor of the Draft Commander, dedicated to the fire service since 1963.
Ensuring success.

The main reason to test your pumps is for the peace of mind it gives knowing that the apparatus is fully functional and ready to handle a major incident. Additionally, a centrifugal fire pump is a mechanical device, like your car; the very moment it is put into service, it is being worn out.

Always ready.

The Draft Commander allows for mobile Fire Service Pump Testing (per NFPA 1911 and ISO) at your location so the truck is not out of district or having to be driven to a remote location that takes time, drivers, and fuel. Your apparatus stays ready for service and can be disconnected quickly in the event of an emergency.

A great investment for your fire municipality.

ISO (Insurance Services Organization) gives your department the most points for pump tests performed at annual intervals. By doing these tests it helps communities receive maximum credit points to help maintain the lowest insurance rates possible and ensure that their fire apparatus are performing as intended for the safety of their firefighters and the protection of their community.

An excerpt from NFPA standard 1911 - Appendix A:

Investigation has shown that where regular and systematic tests of pumps are not made, defects often exist and can continue undetected for considerable periods under light demands at ordinary fires; these defects only become apparent at a large fire where the pump is called on to perform at or near rated capacity.
When pumping from different water sources, cleanliness can vary causing abrasive premature pump wear. Using test pits will require transport and often contain dirty run-off water and sediment that, over time, can damage your truck’s plumbing. When the pump is run from draft, the water carries with it sand and other foreign material that get in between these surfaces and wears on them, causing them to gradually get farther apart. As these tolerances get bigger, more water is bypassed internally in the pump, thus reducing its capacity. The Draft Commander keeps your pumps and valves protected by only using clean water.

Conventional testing of a pump has involved the grueling task of finding a standing water source such as a swimming pool, lake, or stream. Suitable water sources are becoming more difficult to access and water levels are unpredictable. By utilizing the Draft Commander you will save millions of gallons of water through recycling.

The Draft Commander is a cleaner, more efficient alternative to customary methods of fire pump testing, making drafting pits and other sources obsolete.
A valuable training tool for Fire Departments, Fire Academies and Technical Colleges.

Weis is proud to offer hands-on training and instruction with the Draft Commander for Fire Pump Engineers & Firefighters at your location.

Complete training can be accomplished by using one fire engine that is drafting from the Draft Commander. It would be the same as pump testing from a fire truck booster tank or drafting from a large source of water. Additionally, the Draft Commander is capable of training fire pump operation by simulating a fire hydrant, and can also create changes in pressure to replicate scenarios that are crucial to understanding the operation of a fire pump.

An example of training procedures.

Up to two fire apparatus pumpers can be used with the Draft Commander for training. The first pumper drafts water from the Draft Commander and relays water to second pumper, flowing the GPM simulating a particular fire hydrant in your community as the Fire Pump Engineer at the second apparatus compensates the incoming PSI and GPM into his fire engine.

Example: The Fire Pump Engineer has three or more discharge lines discharging water back into the Draft Commander rear manifolds with shut off nozzles/valves flowing various amounts of GPM and PSI. Meanwhile, Firefighters are controlling each discharge line, shutting each line off and on at the Draft Commander manifolds, like they were actually discharging water on a fire.
Importantly, the fire pump engineer must learn to monitor:

- GPM and PSI flowing to each of the discharge lines discharging water back into the Draft Commander as the firefighters are shutting the nozzles/valves off and on.
- Pressure relief/governor set for the PSI and GPM flowing.
- Vacuum gauge from the fire engine to make sure the Fire Apparatus Pumper is receiving enough water for the amount of water that is flowing to each line.
- Each discharge gauge maintaining correct PSI and GPM.
- Master pressure gauge maintaining the pressure it was originally set at.
  
  Example: Does the Gov/Relief valve setting need to increase or decrease?

- All discharge valves making sure they are in locked position and not vibrating closed which will change GPM/PSI flow.
- All other Pump Panel gauges and valves, such as engine temperature, engine oil gauge, engine RPM (tech), apparatus fuel gauge, pump cooling valve, engine cooling valve, and automatic transmission gauge, if applicable.

Training advantages for your firefighters:

- Learning to perform a Fire Service Pump Test from draft as per NFPA 1911-2012 Guidelines.
- Understanding the importance of having no air leaks during drafting, which causes to lose prime.
- Recognizing the difference in water flow and pressure when changing a two stage pump from pressure to volume.
- Knowing the sounds of the fire apparatus engine and fire apparatus fire pump when flowing water to make sure sounds are normal.
- Learning to flow water with different sizes of fire hose and learn the difference of water flow, calculating friction loss on the discharge lines being used.
- Seeing the engagement of pump in gear and out of gear at an idle.
The Draft Commander has been adopted around the world by military bases such as Army, Marines, Navy, Air Force, and Military Reserve.

An small investment that returns big results.

The Draft Commander will last a lifetime, and in that time span will save you millions of gallons of water, hundreds of hours of service time and labor, and will pay for its own value in a short amount of time, all while ensuring the functionality of your department’s equipment to save lives and property.

We have dedicated years to the design of this product and guarantee its success and value.

Industrial grade fire pump testing reaching 6000 GPM can be accomplished through the use of two Draft Commander units.

With the use of a second Draft Commander Monitor Station or Mini Monitor Station, you are able to perform a pump test on two trucks simultaneously.
The Draft Commander

Draft Commander

Optional Equipment

The Draft Commander Training Kit is available for training your Fire Pump Engineers and Firefighters. It includes training nozzles, gauges, adapters, and fire hoses necessary to properly train your department. Mod.# DC-TK

The Draft Commander 300GPM Transfer Pump Unit is designed to allow the Draft Commander to be used as a stationary water supply, transferring water to firefighting units. Mod.# DC-PTU

The 6" Vacuum Butterfly Suction Valve is used during fire pump engineer training to illustrate scenarios when flowing more water than is available from the hydrant or drafting source. Mod.# DC-VBSV

The 6" Wet Hydrant with Suction Valve is used during fire pump engineer training to enable the flow of water without using a primer on the fire engine. Mod.# DC-WHSV

The Draft Commander Mini Monitor Station allows you to perform a pump test on two trucks simultaneously. The station comes complete with vacuum, pressure, and pitot gauges. Mod.# DC-MMS

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With the added 6" suction drafting tube, you can increase your pump test up to 4000 plus GPM. The portable draft tube can be permanently mounted into the draft reservoir or mounted on the Draft Commander transporter. Mod.# DC-3SDT

The custom-designed Siamese valve is for pump testing 1750 GPM (max. of 2000 GPM) from one side of a fire apparatus. 6" NST swivel female LH by NST male by 6" NST male. Mod.# DC-6x6Siamese

Designed to safety test fire hoses up to 6" in diameter, our Draft Commander Fire Hose Tester can be mounted on the Draft Commander and can be removed to operate independently. Mod.# DC-FHT

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The Adhesive Custom Draft Commander Fire Service Test Placard shows the last time a fire apparatus was pump service tested as per latest NFPA 1911 standards. Mod.# DC-PTP

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The Draft Commander Red/Yellow or Blue/White Chevron offers exceptional visibility and is very effective when maneuvering around the Draft Commander for fire pump testing. Mod.# DC-Chevron-Red Mod.# DC-Chevron-Blue

The Draft Commander Training Kit is available for training your Fire Pump Engineers and Firefighters. It includes training nozzles, gauges, adapters, and fire hoses necessary to properly train your department. Mod.# DC-TK

The Custom Aluminum Wheels can be included as an alternative to the standard rims, preventing corrosion and providing much greater longevity than its steel counterpart. They come in an attractive, clean-cut style. Mod.# DC-AWT

The Draft Commander Gauge Testing Kit is available to verify the Draft Commander monitor gauges for accuracy and calibration. All gauges have the manufacturer span calibration certificate with serial numbers. Mod.# TPMUG-14

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The Draft Commander Custom Designed Full Cover is UV rated and has double reinforcement on the corners to help prevent wear and tear. It is equipped with adjustable straps at the bottom. Mod.# DC-CC

The Draft Commander Monitor Station can be added as a double for the standard equipped Draft Commander Monitor Station and can be used together to perform pump testing on two trucks simultaneously. Mod.# DC-SMS

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The Mounted Spare Tire with Custom Cover can be a helpful feature in case of a flat tire or blow-out. The tire cover is UV rated and made of durable material. Mod.# DC-MST-CC

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**Featured Option: Draft Commander Hose Tester.**

The Draft Commander Hose Tester allows you to test up to four fire hose with the option of simultaneously performing a fire pump test. Ensuring that your Fire Hose is up to performance standards will decrease the likelihood of a hose failure, which can cause serious injury and considerable interruption to emergency response.

Four hoses tested at 300psi during a fire pump test.