

# Herculan ConstaBoost™ Storage Systems

- Overcome low pressure, undersized or intermittent water service • Regain pressure lost to undersized treatment equipment • Great performance from Low Yield Wells
- Get Consistent Pressure over a Wide Range with an Expandable System

## SSPB-210WSV Multi Unit Systems

- Complete, fully automatic Turn Key System will go through a 24" door and assemble in minutes
- Each tank has its own delivery pump installed inside
- Increase storage and delivery rate by connecting several tanks using specially designed frames
- Control operates the connected systems as one
- System provides consistent pressure turning on and off pumps as demand changes
- Lead pump changes at each start
- Built in alarm circuit for low water and pump overload for each connected system
- Control has alarm contacts for auto dialers and remote alarms
- Built in circuit breakers, status lights and HOA switches for each connected unit
- Electric solenoid controlled fills with manual activation feature
- Built in water meters can be used to set fill rate and track total water used
- Optional remote reader available for meter
- Optional Spray Boom to remove Radon, Hydrogen Sulfide and other gases from water
- When used with low yield well adjustable fill rate prevents over pumping of well(s)
- In Community well systems restricted fill rate relieves strain on community well and pump.
- Tanks made of HDPE resin meeting FDA regulation 21 CFR 177.1520 © 3.1 & 3.2
- Level controls NSF 61 compliant
- Check & Cycle Stop valves of No Lead Brass
- Pumps contain no brass
- Use with chemical feed systems to adjust pH, disinfect etc.
- Comprehensive manual included
- Optional UV disinfection systems for inlet, outlet or both
- System will operate while any unit is down for service



The unit shown is made of three SSPB210WSV100-20 Herculan ConstaBoost Static Storage Systems connected and controlled by a CNT-SJE4PMP-ALT. The system can be expanded as the control will operate 4 of these units. As seen the system stores 600 gallons of water can deliver 66 gpm at 55 psi. The system fill rate is adjustable 0-18 gpm.

Sold By:

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***“The water you need  
The performance you want”***

## Provide High Delivery Rates and allow for Future Expansion

Often there is a need to provide a storage/booster system for a large use that is likely to grow with time. These systems allow you to design and provide for the expected expansion without the need to buy all of the equipment up front. This system is made up of modules which can be added at any time now or in the future if you have provided for them in the control you order at the beginning. The system shown on the front is made up of 3 HCBSS systems connected together and operated as a single unit. As shown this system has 630 gallons of storage and three 20 gpm pumps but the control is capable of running 4 systems. A 4<sup>th</sup> system can be added at any time to increase storage to 840 gallons and delivery capacity to 92 gallons per minute. The result would be a system that can deliver 1.5-92 gpm at consistent pressure and no single pump failure will put the system out of service. The control unit will set off an alarm to tell the operator that a pump has failed.

When booster pump maintenance is required, one module can be shut down or even replaced without interrupting service to the building. When well maintenance is required, the system can function from storage to maintain service while the work is done.



- Patented PumpChamber™ makes most of stored water usable
- Electric solenoid fill has fill rate adjustment stem and manual activation lever.
- Built in water meter shows even smallest water movement. Use to set fill rate, verify solenoid fill shuts off completely and keep track of water use
- Cycle Stop® Valve provides consistent pressure
- 1 ½" Over flow must be piped to drain, sump or other area where water can do no harm
- Water proof electrical disconnect for pump and fill circuits

## Single Well

A well of moderate yield can be used to supply a large home or even an irrigation system with much less storage than you might imagine. With the tank fill rate restricted to less than the well yield the well is protected from the damage caused by over pumping while the plumbing connected to the output side of the system benefits from high flows at consistent pressure so you would think you were connected to city water. It is possible to run high volume showers, use several bathrooms at the same time or even operate a properly designed irrigation system using a well that would be inadequate using a standard pump/pressure tank system.

## Well Share

These arrangements can become a problem, particularly when well yield is barely or less than adequate. A running toilet, stuck stock tank fill or loss of control at any outlet can result in an empty well and everyone out of water.

If each home on the well share has a Herculan ConstaBoost Static Storage System with the fill rate restricted to their share of the water nobody can empty the well. If a toilet runs at their house, their tank could be pumped empty but the well will not be affected, other users will still have water and there will be water to refill the empty tank once the problem is fixed. Built in water meter reveals abusers.

If others on the well share are not interested in an HCB, a single user can install one. The well can still be emptied by someone else's negligence but the family with the HCB will still have water long after everyone else has run out.

## Community Well Systems

Community well systems may have many homes connected. Any well can be affected by drought or competition from other wells so well yield can change. In addition the peak demand need of the system can change depending on the number and age of people who live in the community and by changing times.

Homes that are remodeled are likely to have water saving toilets, faucets and even clothes washers but there is also the possibility that the master bath shower will have body sprays and multiple shower heads. The net result could be a higher required peak demand flow rate so a system that once provided adequate peak demand pressure may not be doing so now.

If well yield has been affected by increased development in the area or drought, the well may be over pumped frequently. Over pumping can strain the well pump and damage the well, further diminishing its yield.

When an HCB System with restricted fill is installed in one of the homes on a Community Well System, strain on the system is reduced and system storage increases. If a 210 gallon HCB were installed in each of 15 houses on such a system the result would add 3,150 gallons of distributed storage and 150 gallons per minute or more of peak demand delivery capacity.

In this way, it is possible to convert a Community Well System that cannot now meet peak demand flow requirements into one that can, even with the addition of several more homes!

Pump Installed	Delivery Rates at Outlet of CP Models										
	@35 PSI	@40 PSI	@45 PSI	@50 PSI	@55 PSI	@60 PSI	@65 PSI	@68 PSI	@72 PSI	@75 PSI	@80 PSI
½ HP 10 GPM	13	12.5	12	11.0	9.0	8.0	4.25	1.5	Off		
¾ HP 10 GPM	14	13.5	13	12.5	12	10.5	7.0	1.5	Off		
1 HP 10 GPM	14.5	14.2	14	13.5	13	12	7.5	1.5	Off		
1 HP 20 GPM	23.0	23.0	22.5	20.0	18.0	13.0	8.0	4.0		1.5	Off
1.5 HP 20 GPM	27.0	26.0	25.0	24.0	21.0	19.0	13.5	1.5	Off		