



## Series Gen 1 Blower

AKA Gen 1 on demand

Version V1

Feature Blower, rocker

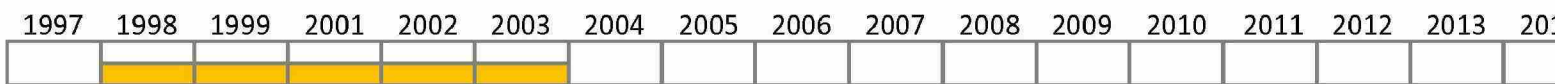
2 port, 4 port

Hardware round remote

No shutoff sw

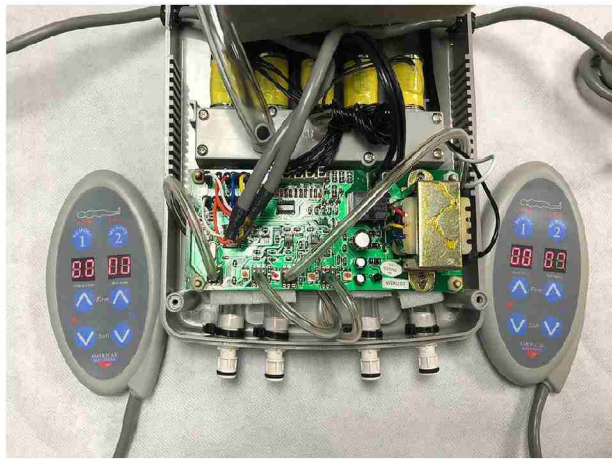
Software On Demand

Sales Jan 1998 – De



- The entire control unit was supplied to us by 9<sup>th</sup> Wave in Connecticut.
- The blower controllers were produced and sold in a two port version (one hose per side of a dual chamber mattress) and a 4 port version (two hoses per side in a dual chamber mattress allowed for separate mid body adjustment and shared head/foot adjustment on each side of the mattress).
- This controller utilized a motor inside the housing attached to a fan which directed air in to an open area and when the solenoid was energized it opened and allowed air to pass through the port.
- This was an on demand controller that had no memory settings or pressure sensors.
- This controller could not over pressurize the chambers because it could not generate pressure in excess of 1 psi.
- The hard wired remotes utilized a rocker switch to inflate and deflate the chambers. There was one rocker switch per remote for the two hose version and two rocker switches per remote for the four hose version.





## Series Gen 2 Pump

AKA Gen 1 digital

Intelligent Air

Version **V1** (original)

Feature Compressor

Hardware Round or elliptical buttons, Arco transducers

Software Arco

Sales Dec 2003 – \*e

System does not go on our 2004 pricelis

1997	1998	1999	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
						*										

- Hardwired remotes and power cord. Available with no memory that had a membrane switch or a memory remote that had a numeric pressure setting.
- The PCBA was from Arco as well as the Manifold.
- This manifold was a pre-existing manifold and we had to plug a few ports as you can see from the picture and then we had to add a piece of tubing with a branch Y that sits under the PCB between the manifold and the front of the housing to allow the pressure sensor line to connect to the transducer.
- We purchased these outer housings in the USA and drilled all holes in them and then did all the assembly in Corona, CA. This same housing was used on a medical pump that was produced by 9<sup>th</sup> Wave (Ed Gilchrest).
- These controllers had a real time pressure display and we

- These were direct drive controllers. When you pressed and held down the pump would start to inflate. When the inflate button was held down, the number on the remote would jump to the target setting. When you released the inflate button a real time pressure display would be shown. As the pressure starts to increase, the display would continue to hold the inflate button down until it would turn off intermittently because it would think the pump was full. When you would realize it was not full and allow the pump to inflate again and this would continue to occur until it reached the maximum setting of 40 mmHg.
- The controller also had two memory settings. When you saved your favorite setting, when you pressed the memory button, the pump would automatically go to that new "target" setting. When you would press the way to the target setting it would start to inflate periodically so it could take a pressure reading and release air a little at a time in order to



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