



Series Gen 1 Blow

AKA Gen 1 on dem

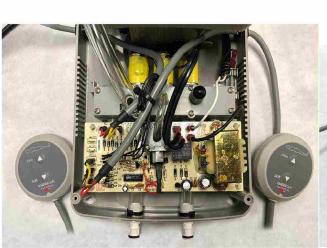
Version V1 Feature Blower, rocke 2 port, 4 port Hardware round remote No shutoff sw Software On Demand

Sales Jan 1998 – De

1997	1998	1999	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	201

- The entire control unit was supplied to us by 9th Wave in
- 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 per
- 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 1 Pun

AKA Gen 1 on dem

Version V1
Feature Compressor

Hardware round remote Shutoff switch Software On Demand /

Sales Apr 2001 – De

1997 1998 1999 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 20:

50 lpm compressor.

• The PCB was from Arco as well as the manifold and the solenoids were from

 This manifold was a <u>pre-existing</u> manifold from Apollo and we had to plug one port as you can see from the picture and then we had to add a piece of tubing to go from the top of the manifold to the pressure switch.

 These were direct drive controllers meaning when a button was pressed and held down the pump would turn on and add air the entire time the inflate button was held down until it reached 1 psi and then the mechanical pressure switch would cut off the power to the compressor. This was a pressure switch not a pressure transducer.

 We purchased these outer housings from 9th Wave and drilled all the 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 9th Wave.

The Gen 1 on demand pump 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 was an on demand controller that had no memory settings or pressure sensors.

 The hard wired remotes utilized a membrane switch to inflate and deflate the chambers. There was two membrane switches per remote for the two hose version and four membrane switches per remote for the four hose version.





Series Gen 2 Pun

AKA Gen 1 digital Intelligent Air Version **V1** (original) Feature Compressor

Hardware Round or ellip 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 20

- 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 <u>pre-existing</u> 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 9th Wave (Ed Gilchrest).
- These controllers had a real time pressure display and we
- These were direct drive controllers in pressed and held down the pump would time the inflate button was held down. the number on the remote would jump released the inflate button a real tild displayed. As the pressure starts to increase to hold the inflate button down off intermittently because it would thin turn off the compressor so it could take would realize it was not full and allow the again and this would continue to occur maximum setting of 40 mmHg.
- The controller also had two memory set when you saved your favorite setting setting you could simply press the mautomatically go to that new "target sway to the target setting it would periodically so it could take a pressurelease air a little at a time in order to





Series Gen 2 Pun

AKA Gen 1 digital
Intelligent Air
Version **V2**Feature Compressor

buttons, Arco transducers Software Arco Sales 2004 – 2006

1997 1998 1999 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 20

- Detachable wired 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 <u>pre-existing</u> manifold and we had to plug a few ports as you can see from the picture.
- We redesigned these outer housings to accept a new molded insert in the front of the pump housing. This molded part which mated to the quick connector from the chambers also had a tap on it for the pressure sensor line and this insert connected to the manifold with short pieces of tubing.
- These controllers had a real time pressure display and we produced them in a 2 port and a 4 port version.
- These were direct drive controllers in pressed and held down the pump would time the inflate button was held down. the number on the remote would jump released the inflate button a real time displayed. As the pressure starts to incommodified to hold the inflate button down off intermittently because it would thin turn off the compressor so it could take would realize it was not full and allow the again and this would continue to occur maximum setting of 40 mmHg.
- The controller also had two memory set when you saved your favorite setting setting you could simply press the mautomatically go to that new "target set to the target setting it would then again it could take a pressure reading and the atime in order to move towards the tar



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