$\begin{array}{c} \textbf{ProCart} \ \textbf{I}^{\text{\tiny{TM}}} \\ \textbf{Self-Contained Modular Treatment Cart} \end{array}$

OPERATION MANUAL

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Contents

Introduction	3
Customer Service	3
DNTLworks Limited Warranty	3
Returns	4
Description of Unit	4
Air System	4
Water System	5
Vacuum System	5
Electrical System	5
Specifications	5
Unit Features	6
Front View	6
Back View	7
Operation	8
Setup	8
Handpiece Operation	10
Three-way Syringe	11
Vacuum System	12
Water Bottle	13
Accessories	13
Dental Office Infection Control Guidelines (CDC)	14
Barrier Techniques	14
Cleaning and Disinfection of Dental Unit and Environmental Surfaces	14
Use and Care of Handpieces and Other Intra-oral Dental Devices	15
Other Important Issues	15
Shut Down Instructions	16
Repacking Instructions	17
Maintenance	19
Delivery Unit Inside View	20
Compressor/Vacuum Unit Inside View	21

Introduction

Thank you for purchasing the ProCart ITM portable Treatment Unit from DNTLworks Equipment Corporation. The information contained in the manual should answer any questions regarding service and operation of your ProCart ITM unit.

All authorized personnel who operate, maintain, or service your ProCart ITM unit should carefully review this manual before attempting to operate, perform maintenance on or service the unit. Your ProCart ITM unit should be operated and maintained by trained personnel only. Should questions or problems arise, contact our Customer Service Department.

Although your ProCart I[™] unit has been designed and tested for maximum safety and optimum performance, it is sold with the express understanding that DNTLworks, its subsidiaries, agents and representatives will not accept any responsibility for the following, including, but not limited to:

- 1) Operator's lack of knowledge, negligence or carelessness in the operation of this equipment.
- 2) Equipment not properly maintained or serviced.
- 3) Injury to personnel or patients from improper use.
- 4) Modification or tampering of any kind.

Customer Service

In the event you require assistance with your unit, please call 1-800-847-0694 or 303-693-1410 and speak with one of our customer service representatives. Our service hours are from 8:00 a.m. to 5:00 p.m., Mountain Standard Time, Monday through Friday.

In most instances, service problems may be solved over the telephone. If service is required, you may ship the unit to our manufacturing facility for repair. Warranty service will be performed in accordance with the DNTLworks' Limited Warranty. Non-warranty service will be provided at reasonable parts and labor costs.

DNTLworks Limited Warranty

DNTLworks warrants to the purchaser that these products are free of defects in materials and/or workmanship for three (3) full years from date of delivery, on a "parts only" basis. In addition, DNTLworks extends a ninety (90) day labor warranty from the date of delivery for all products we manufacture. Shipping charges incurred to the factory under warranty purposes will be the responsibility of the owner.

During the warranty period, all parts which, upon inspection and examination by DNTLworks, are proven to be defective, will be replaced free of charge. All decisions concerning whether a part will be repaired or replaced and the manner, method, and extent of such repair or replacement will be at the sole discretion of DNTLworks. The responsibility of DNTLworks does not include repair and replacement cost resulting from misuse, abuse, improper maintenance, or normal wear and tear.

DNTLworks will pay for labor costs for warranty service for a period of 90 days from the date of purchase. DNTLworks sole obligation under said warranty is to repair, or, at its option, replace the defective part. The buyer will have no options.

Warranties for products not manufactured by DNTLworks, but sold in combination with DNTLworks products, will be honored by DNTLworks for the entire duration of the original manufacturer's warranty period.

The warranty will be voided by alterations, tampering with, improper installation or maintenance, accident or modification of the equipment, with the exception of work performed by DNTLworks or one of its authorized service agents. This warranty expressly excludes all damage to the products resulting from careless or neglectful transportation. DNTLworks will in no event be responsible for any work done without first obtaining DNTLworks' written consent.

This warranty is made expressly in lieu of all other warranties, expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. No employee, agent, franchise, dealer or other person is authorized to give any warranties of any nature on behalf of DNTLworks. Except as provided herein, DNTLworks will have no liability or responsibility to the customer or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused directly or indirectly by equipment sold, leased, or furnished by DNTLworks, including, but not limited to, any interruption of services, loss of business or anticipatory profits or consequential damage arising out of or connected with the sale, lease, use, or anticipated use of equipment. Notwithstanding the above limitations and warranties, DNTLworks liability hereunder for damages incurred by customer or other will not exceed the amount paid by customer for the particular equipment involved.

Returns

Purchased goods may not be returned without the express written consent of DNTLworks and a Return Goods Authorization Number (RGA#). All items must be returned within 14 days of initial delivery and are subject to a 15% restocking charge. Special order items cannot be returned for credit consideration. Freight charges on approved return items shall be borne by the customer.

Description of Unit

ProCart I^{TM} is a self-contained system that allows set-up in a few minutes. It is lightweight and portable for ease of transportation.

Air System

The internal air compressor will activate when main power switch is turned on, filling the air tank and pressurizing the water reservoir. The compressor will deactivate when air pressure reaches 100psi and will recycle at 70psi.

Water System

Water to handpieces is controlled by the foot control toggle and the needle valves on the control panel. The water for the air/water syringe is controlled by depressing the water button on the syringe. Syringe water pressure is controlled by the water regulator at 45psi. There is an accessory outlet on the back of the delivery unit.

Vacuum System

The vacuum system is activated by removing HVE or saliva ejector from and turning on the toggle on handpiece holder. You may use either the saliva ejector or HVE as needed. In the vacuum container is an automatic shutdown system to prevent overflow.

Electrical System

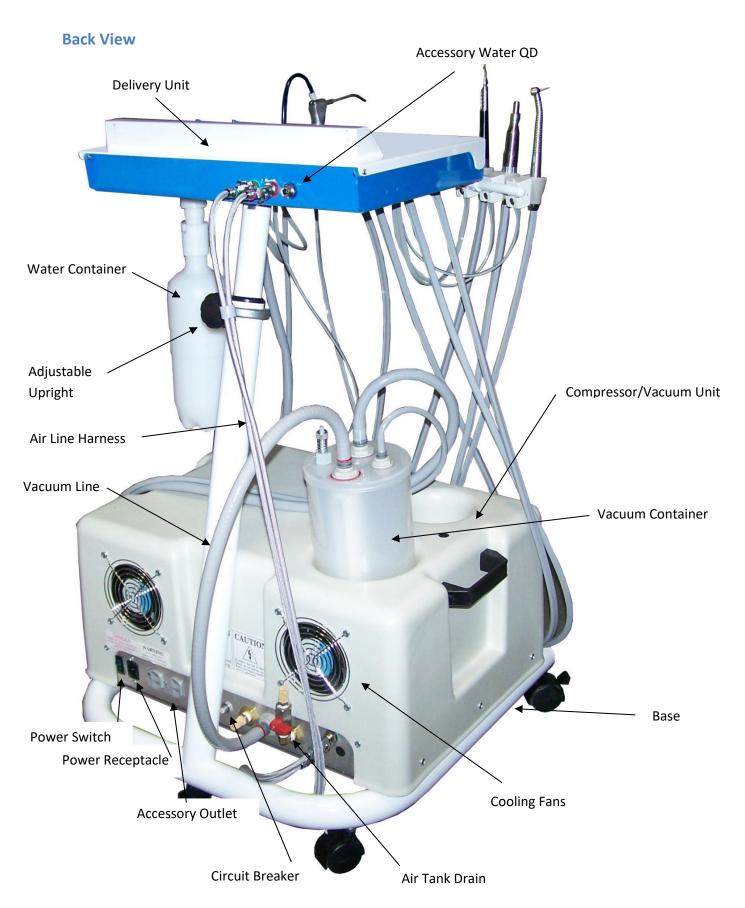
There is an electrical outlet, to accommodate accessories. You may use a maximum of 4 amps on the external outlet. The unit is protected by a 15 amp circuit breaker.

Specifications

	Treatment Cart	
Dimension	Base	23"x23" (58.4cmx58.4cm)
	Delivery Unit	17"x16" (43.2cmx40.6cm)
	Adjustable Height	32" (81.3Cm) to 42" (106.7cm)
Weight		14lbs (6.35Kg)
	Compressor Vacuum N	Module
Dimension		19x11x10" (27.9cmx48.3cmx25.4cm)
Weight		48lbs (21.8Kg)
Electrical	Voltage	115 or 220Vac
	Frequency	60 or 50 Hz
	Wattage	1200 to 1440 W
Compressor	Horsepower	1/3 Hp
	Working Pressure	70 to 100psi
	Flow Rate	2.5scfm @ 40psi
	Air Tank	1/2 Gallon (2 Liter)
Vacuum Pump	Horsepower	1/3 Hp
	Pressure	10 inHg
	Flow Rate	4.6 scfm
	Container	2 Quart (1.89 Liter)
Water Container		1 Liter
Unit Sound	Full Load	51dB @ 3'

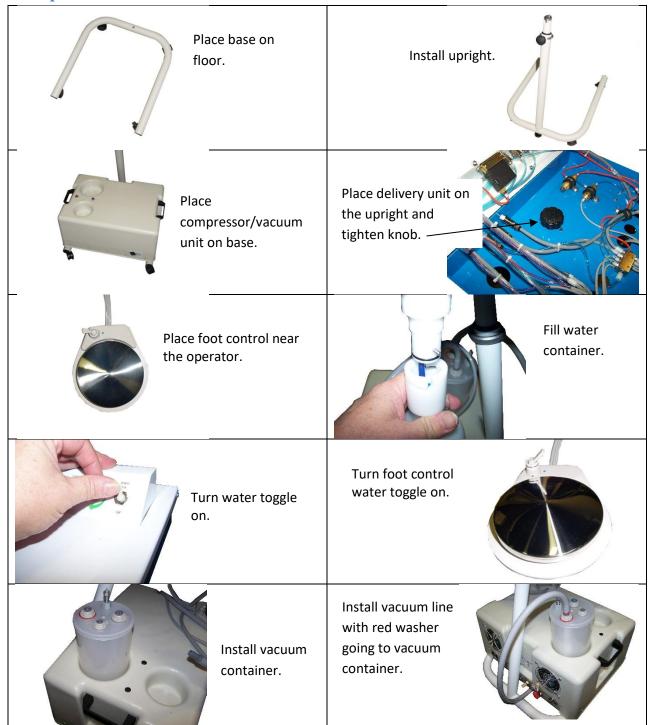
Unit Features

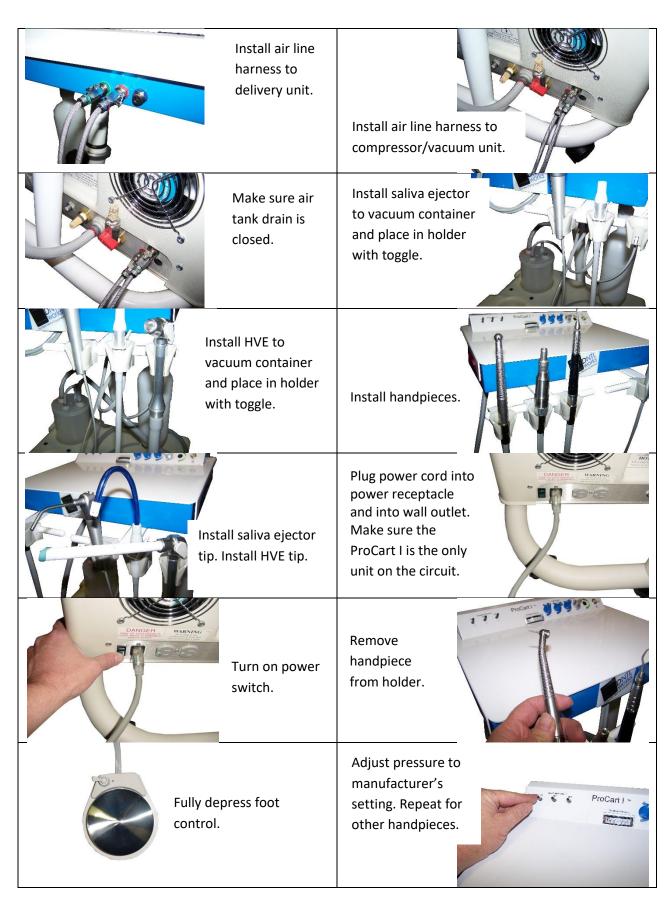




Operation

Setup







Turn on water toggle.

With foot control depressed, adjust water flow to handpiece. If handpiece does not require water, leave valve closed.





With foot control depressed, adjust coolant air flow to handpiece if needed



Test air and water on syringe.



Remove HVE valve from holder.
Open HVE valve.
Turn on toggle on the HVE holder.
Check for vacuum.
Repeat for saliva ejector.

Handpiece Operation

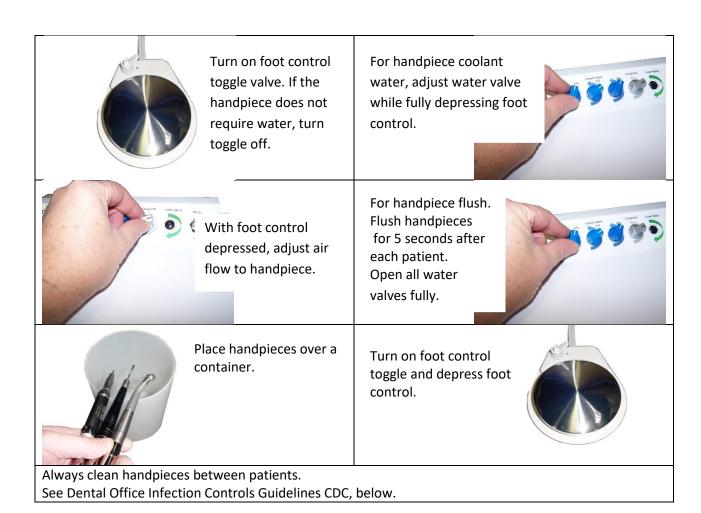


Depress foot control.

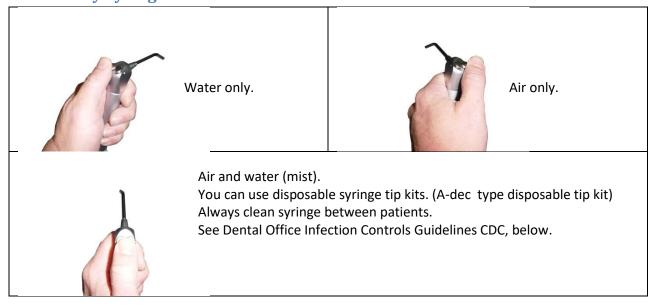


When using a handpiece, make sure air drive pressure does not exceed handpiece manufacturer's recommended pressure. When setting the maximum handpiece pressure, always make sure foot control is fully depressed, and adjust handpiece air adjustment valve.





Three-way Syringe



Vacuum System



When using either saliva ejector or HVE, make sure the other valve is closed.

Always clean vacuum system between patients.

See Dental Office Infection Controls Guidelines CDC, below.



Open valve.



Turn on vacuum pump.



Never adjust vacuum relief valve. -When using saliva ejector, vacuum relief valve will have an air leak sound.



Purge Vacuum System

Always clean vacuum system between patients.

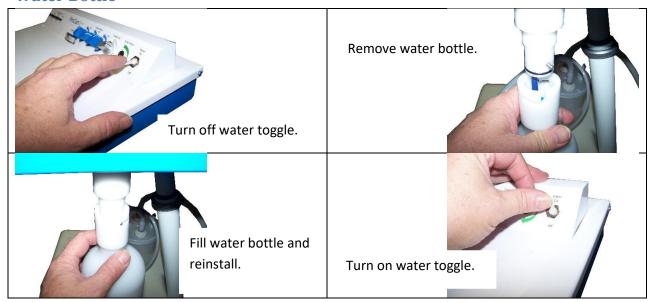
See Dental Office Infection Controls Guidelines CDC, below.

To clean vacuum system, use a non-foaming vacuum system cleaning solution.

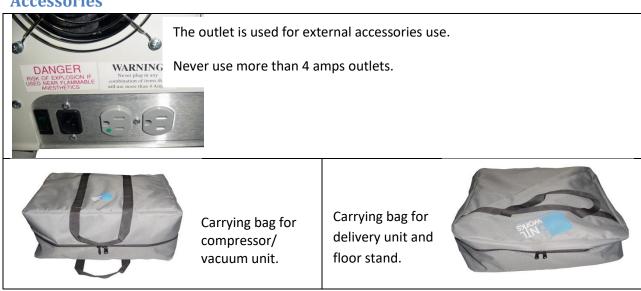
Cleaning Between Patients and End of Day

- 1) Remove any waste in vacuum container by disposing of contents in a CDC-approved manner. See Dental Office Infection Control Guidelines CDC, below.
- 2) Mix one quart of evacuation cleaner, turn on evacuation system and suction cleaner into waste container using the HVE valve, and the saliva ejector.
- 3) Dispose of cleaner waste in CDC-approved manner.
- 4) Wipe down outside of the bottle and tubings with a surface cleaner.
- 5) Clean tubings and handpieces in CDC-approved manner.
- 6) Clean unit surfaces CDC-approved manner.

Water Bottle



Accessories



Dental Office Infection Control Guidelines (CDC)

DENTAL OFFICE INFECTION CONTROL GUIDELINES FOR THE PROTECTION OF PATIENTS AND DENTAL CARE PERSONNEL AS RECOMMENDED BY THE UNITED STATES CENTERS FOR DISEASE CONTROL (CDC)

NOTE: A medical history should be taken at the initial patient visit and on recall, updated with notations made on the chart.

Barrier Techniques

- 1) Dentists, hygienists and assistants should wear new gloves for each patient treated. Hands should always be washed with liquid soap before and after treatment, contact with patients or after touching inanimate objects likely contaminated by blood or saliva, and before leaving the operatory. Remove torn, cut or punctured gloves immediately, wash hands, and re-glove before completion of dental procedures.
- 2) During all treatment procedures, dentists, hygienists and assistants should wear face masks and protective eyewear, or in lieu of both of these, a chin-length plastic face shield.
- 3) Reusable and/or disposable gowns, laboratory coats or uniforms should be worn when street clothing may be soiled with blood or other body fluids. Gowns should be changed at least daily or when visibly soiled with blood.

Cleaning and Disinfection of Dental Unit and Environmental Surfaces

- 1) After treatment of each patient and at the completion of daily work activities, countertops and dental unit surfaces that may have become contaminated with patient material should be cleaned with disposable toweling, using an appropriate cleaning agent and water as necessary. Surfaces then should be disinfected with a suitable chemical germicide.
- A chemical germicide registered with the EPA as a "hospital disinfectant" and labeled for "tuberculocidal" (i.e., mycobactericidal) activity is recommended for disinfecting surfaces that have been soiled with patient material. These intermediate level disinfectants include phenolics, iodophors, and chlorine-containing compounds. Because mycobacteria are among the most resistant groups of microorganisms, germicides effective against mycobacteria should be effective against many other bacterial and viral pathogens. A fresh solution of sodium hypochlorite (household bleach) prepared daily is an inexpensive and effective intermediate-level germicide. Concentrations ranging from 500 to 800 ppm of chlorine (a 1:100 dilution of bleach and tap water or 1/4 cup of bleach to 1 gallon water) are effective on environmental surfaces that have been cleaned of visible contamination. Caution should be exercised, since chlorine solutions are corrosive to metals, especially aluminum.
- 3) Low-level disinfectants EPA registered "hospital disinfectants" that are not labeled for "tuberculocidal" activity (e.g., quaternary ammonium compounds) are appropriate for general housekeeping purposes such as cleaning floors, walls and other housekeeping surfaces. Intermediate and low level disinfectants are not recommended for reprocessing critical or semi-critical dental instruments.

4) Before high-level disinfection or sterilization, and while wearing heavy duty rubber (household) gloves, ultrasonically clean (preferably) or scrub instruments in order to remove debris.

Use and Care of Handpieces and Other Intra-oral Dental Devices

- 1) Routine between-patient use of a heating process capable of sterilization (i.e., steam under pressure (autoclaving), dry heat, or heat/chemical vapor) is recommended for all highspeed dental handpieces, lowspeed handpiece components used intra-orally, and reusable prophylaxis angles. Manufacturers' instructions for cleaning, lubrication, and sterilization procedures should be followed closely to ensure both the effectiveness of the sterilization process and the longevity of these instruments. According to manufacturers, virtually all highspeed and lowspeed handpieces in production today are heat tolerant and most heat-sensitive models manufactured earlier can be retrofitted with heat-stable components.
- 2) Internal surfaces of highspeed handpieces, lowspeed handpiece components, and prophylaxis angles may become contaminated with patient material during use. This retained patient material then may be expelled intra-orally during subsequent uses. Restricted physical access particularly to internal surfaces of these instruments limits cleaning and disinfection or sterilization with liquid chemical germicides. Surface disinfection by wiping or soaking in liquid chemical germicides is not an acceptable method for reprocessing highspeed handpieces, lowspeed handpiece components used intra-orally, or reusable prophylaxis angles.
- 3) Highspeed handpieces should be run to discharge water and air for a minimum or 20-30 seconds after use on each patient. Handpieces, in addition, should be heat sterilized between uses on patients. This procedure is intended to aid in physically flushing out patient material that may have entered the turbine and air or water lines. Use of an enclosed container or high-velocity evacuation should be considered to minimize the spread of spray, splatter, and aerosols generated during discharge procedures. Additionally, there is evidence that overnight or weekend microbial accumulation in water lines can be reduced substantially by removing the handpiece and allowing water lines to run and to discharge water for several minutes at the beginning of each clinic day. Sterile saline or sterile water should be used as a coolant/irrigation when surgical procedures involving the cutting of bone are performed.

Other Important Issues

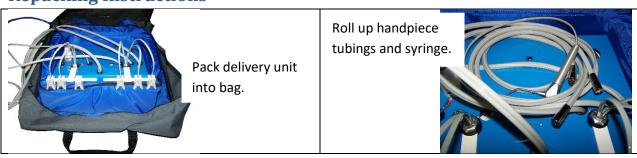
- 1) A "no-touch" technique (e.g., hemostats or needle holders), should be utilized when using "sharps" (needles, scalpels, blades, etc.).
- 2) In the operatory, sterilized and decontaminated instruments, charts, and other objects should be protected from patient contact.
- 3) "Sharps" should be disposed of in puncture proof containers; hazardous and/or infectious waste materials, which include "sharps," should be disposed of in a manner consistent with prevailing local laws.
- 4) All dental personnel should be encouraged to receive immunization protection whenever possible, e.g., hepatitis B immunization.
- 5) All impressions, models and devises should be disinfected before submission and upon receipt from the dental laboratory.

Shut Down Instructions





Repacking Instructions



	Roll up foot control.	Pack HVE, saliva ejector and vacuum line.	
	Pack air line harness.	Pack power cord.	
b M fr C	lace compressor/vadag. lake sure the cooling ont of bag. lose bag. /hen transporting, n pside down.	g fans are to the	81
	Pack u-base vacuum container.	Pack water container.	
Portable Mobile Segmentation of Anyone Anyone Anythree Anythree Anythree	Pack manual.	Pack upright into lid of delivery unit bag.	



Close Bag.

Maintenance

The following visual checks should be performed before operating the unit:

- 1) Look for mechanical damage that could affect safe operation, including, but not limited to, the following:
 - a. Cracks in power cord.
 - b. Splits or kinks in air or water lines.
 - c. Check for cracks in water container.
 - d. Cracks, kinks or splits in handpiece tubing, syringe tubing and vacuum tubings.
- 2) Look for loose or missing items, including, but not limited to, the following:
 - a. Loose or missing screws, nuts and/or bolts.
 - b. Loose handles.

Should mechanical or other damage be noted that would affect safety or operation, the unit should not be used until repair or replacement of defective items is completed. You may call Customer Service for help.

!!CAUTION!!

Handpieces:

Follow manufacturers' instructions for maintenance.

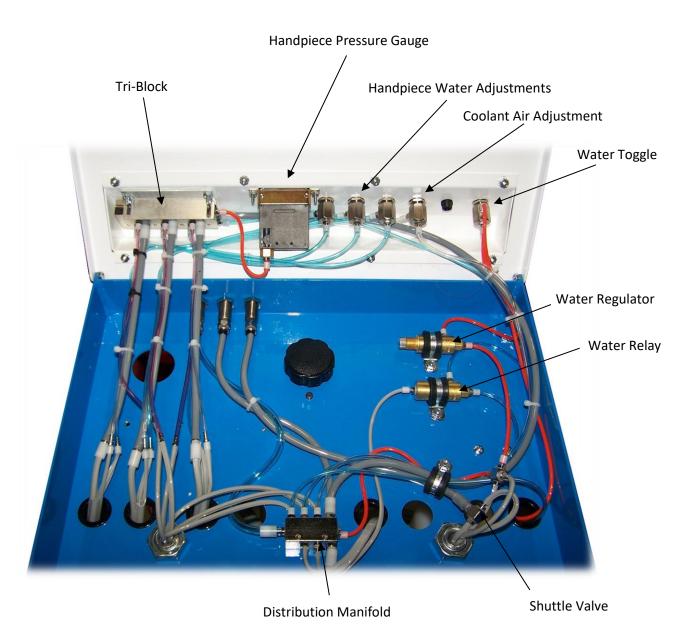
Syringe:

Follow manufacturer's instructions for maintenance.

Air Pressure Source:

Do not exceed 100 psi.

Delivery Unit Inside View



Compressor/Vacuum Unit Inside View Compressor **Compressor Capacitor** Vacuum Pump Vacuum Capacitor **Power Switch Power Receptacle Accessory Outlet** Circuit Breaker Vacuum Switch **Pressure Switch** Vacuum Exhaust Air Tank Drain Muffler Check Valve Air Tank And Solenoid Air Regulator DO NOT ADJUST