

CUSPIDOR SERVICE MANUAL

**MODELS: 1 605 XL
 1 620 XL
 1 625 XL
 1 630 XL
 1 650 XL**

**INCLUDES: OPERATION
 MAINTENANCE
 TROUBLESHOOTING
 INSTALLATION**

**VERSION 1
DATED: JUNE 1, 2002**



SUMMIT DENTAL SYSTEMS

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WARRANTY

Summit Dental Systems (SDS) warrants its products against defects in materials or workmanship from the date of shipment to the Buyer as follows:

Summit Dental Systems (SDS) Equipment:	Warranty Period:
Chairs, Delivery Units & Carts, Cuspidors, Lights	3 Years
Control Block Diaphragm (part of Delivery Unit)	Lifetime
All Upholstery, Stools and all Plastic Covers	1 Year

Summit Dental Systems' sole obligation under the warranty is to provide parts for repair, or at its option, to provide a replacement product (excluding all labor and shipping fees). The buyer shall have no other remedy. All special, incidental, and coincidental damages are excluded. The warranty does not cover damage from improper installation or maintenance, accident or misuse. The warranty does not cover damage resulting from the use of cleaning disinfecting or sterilization chemicals and processes. Failure to follow instructions provided in Summit Dental Systems' Operation and Installation Manuals (Owner's Guides) may void the warranty. In the event Warranty service must be performed to correct any defect, only an authorized Summit Dental System dealer may perform any and all warranty repairs. Any repairs by unauthorized dealers, technicians, or repairmen may void the warranty.

- In the case of a defective warranty item, a copy of the replacement invoice, serial number of the product under which it was replaced, and a description of symptoms of the defect must be returned with the part to Summit Dental Systems, 999 NW 53rd Court, Ft. Lauderdale, FL 33309, USA, in order to receive credit. Any and all expenses for freight, labor to perform warranty service, and purchase of spare parts is the responsibility of the buyer. Any fraudulent claims made may void the warranty. Any additional warranty that may be provided by an authorized Summit Dental Systems dealer is the sole responsibility of said dealer.

- A 15% restocking fee will be applied to the authorized dealer's account for any parts returned do to a misdiagnosis by the service technician performing the warranty service.

- SDS reserves the right to make changes or improvements on any products without being required to modify existing equipment in a like manner.

Please complete and retain for your records the following Information:

In case of warranty part replacement/repair or when ordering a part, please call your authorized Summit Dental Systems dealer and have the following information available:

Owners' Name:	Phone #:
Model #:	SDS Serial #:
Dealer:	Phone:
	Purchase Date:

Important Information

Technical Specifications

Air Regulator Pressure: 80 PSI

Water Regulator Pressure: 40 PSI



CAUTION

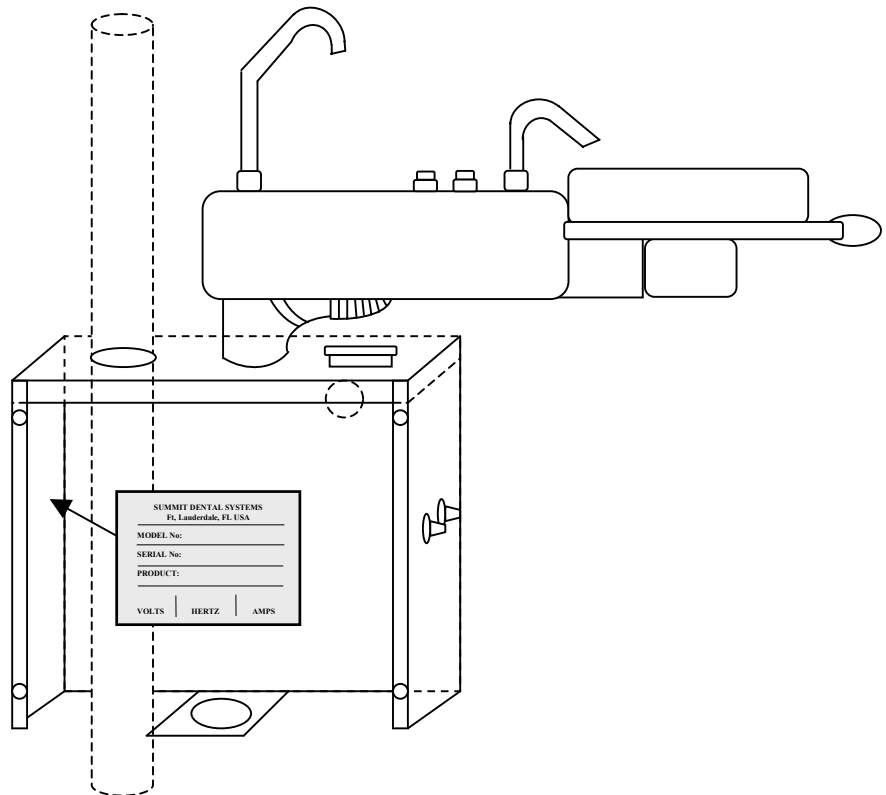
When adjusting the bowl rinse or cup fill timing valves, do not over tighten the screws. This may result in unnecessary damage to the tubing.

- Pay careful attention when unpacking the cuspidor and its accessories. *Damage caused by mishandling the equipment during unpacking or installation is not covered under warranty.*
- Read this manual carefully. If you have any questions, please call **SDS Technical Service at 1-800-275-3368.**



CAUTION

Do not attempt to over extend the breakaway assembly. Over extension to the breakaway assembly may cause unnecessary damage to the cuspidor.

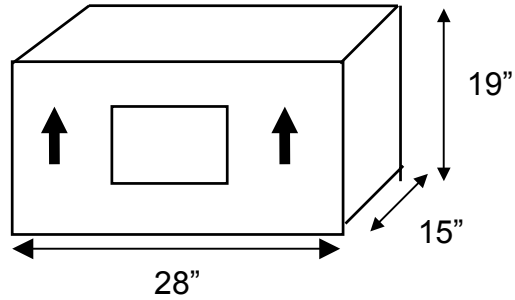


Product Label Location

The product label can be located on inside the splitter box chassis (remove

Weight & Dimensions

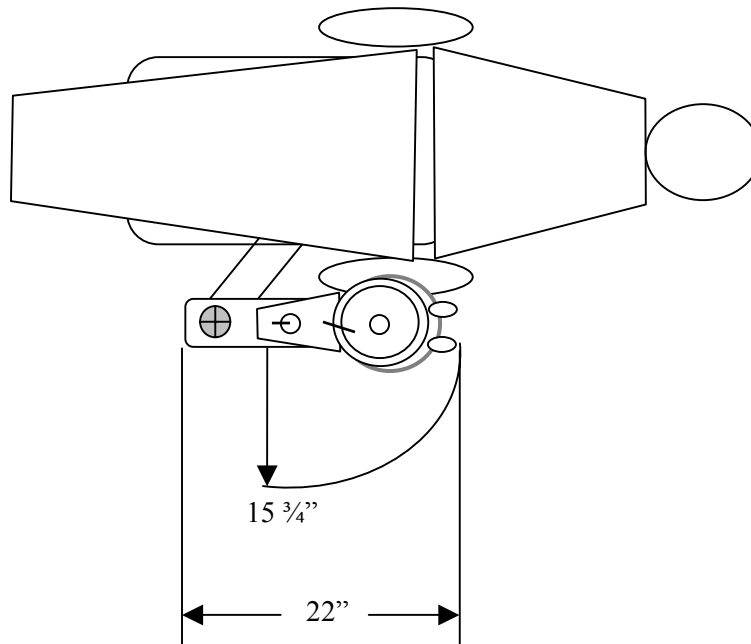
Shipping Information



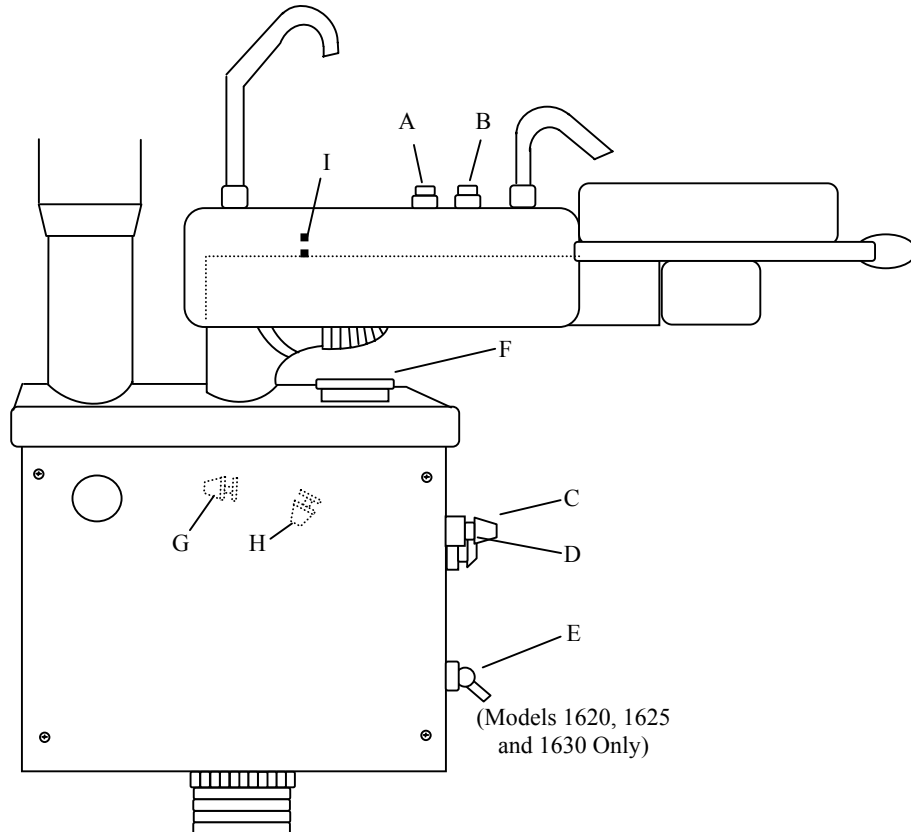
Model 1650 XL Deluxe Cuspidor

Shipping Weight: 24 lb. (10.91 kg.)

General Dimensions



Operator's Instructions



A. MANUAL CUP FILL
Activates cup fill manually.

B. TIMED BOWL RINSE
Press and release bowl rinse button.
The Bowl Rinse will automatically turn off.

C. WATER FLOW CONTROL
Adjusts the water flow to accessory.

D. WATER QUICK DISCONNECT
Water supply to accessories.

E. SUCTION ACTIVATION SWITCH
Activates the suction for assistant's instrumentation.
(MODELS 1620, 1625 and 1630 ONLY)

F. SOLIDS COLLECTOR
move cap to access collection screen for disposal.

G. CUP FILL FLOW CONTROL
Adjusts the water flow of the cup fill.
(Remove cover to access)

H. BOWL RINSE FLOW CONTROL
Adjusts the water flow of the bowl rinse.
(Remove cover to access)

I. CUSPIDOR HOUSING LEVELING PIN
Turn clockwise to lower cuspidor housing and
counter-clockwise to raise cuspidor housing.
(Remove cuspidor-housing cover to access)

Cleaning Your Cuspidor

Daily Maintenance

At the end of every day, flush the drain to remove debris that can collect in the flexible drain tubing. If the drain is not flushed regularly, debris can build up and clog the cuspidor drain tubing.

1. Remove bowl screen from the cuspidor bowl and clean.
2. Raise the chair to its highest position and activate the bowl rinse several times, long enough for the water to flow down the drain for approximately 60 seconds.



CAUTION

Do not empty the bowl screen into the cuspidor. This can clog the cuspidor drain.

3. Remove the solids collector screen and clean.



CAUTION

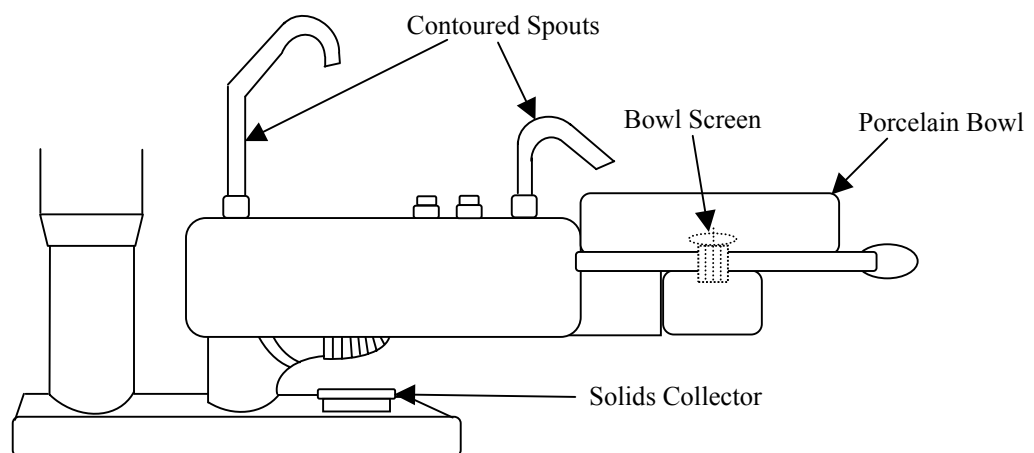
Do not empty the solids collector screen into the cuspidor. This can clog the cuspidor drain.

4. Your cuspidor is designed for quick and easy cleaning. The smooth surfaces, removable porcelain bowl and contoured spouts help facilitate more complete cleaning.



CAUTION

Do not remove the contoured cup fill or bowl rinse spouts. This will help prevent cleaning solutions from causing unnecessary damage to the cuspidor and contaminating the water flow to the cup.



Troubleshooting Guide

SYMPTOM

1. Water does not drain.

2. Cup Fill and/or Bowl Rinse too slow.

3. Cup Fill and/or Bowl Rinse too fast.

4. No water flow.

5. Little to no suction.

PROBABLE CAUSE

A. Check drain for clogs or blockage.

A. Adjust flow control valve.

B. Check for blockage.

C. Kinked or pinched tubing.

D. Check water pressure (40 PSI).

E. Check filter in water regulator.

A. Adjust flow control valve.

B. Check water pressure (40 PSI).

A. Kinked or pinched tubing.

B. Check for blockage.

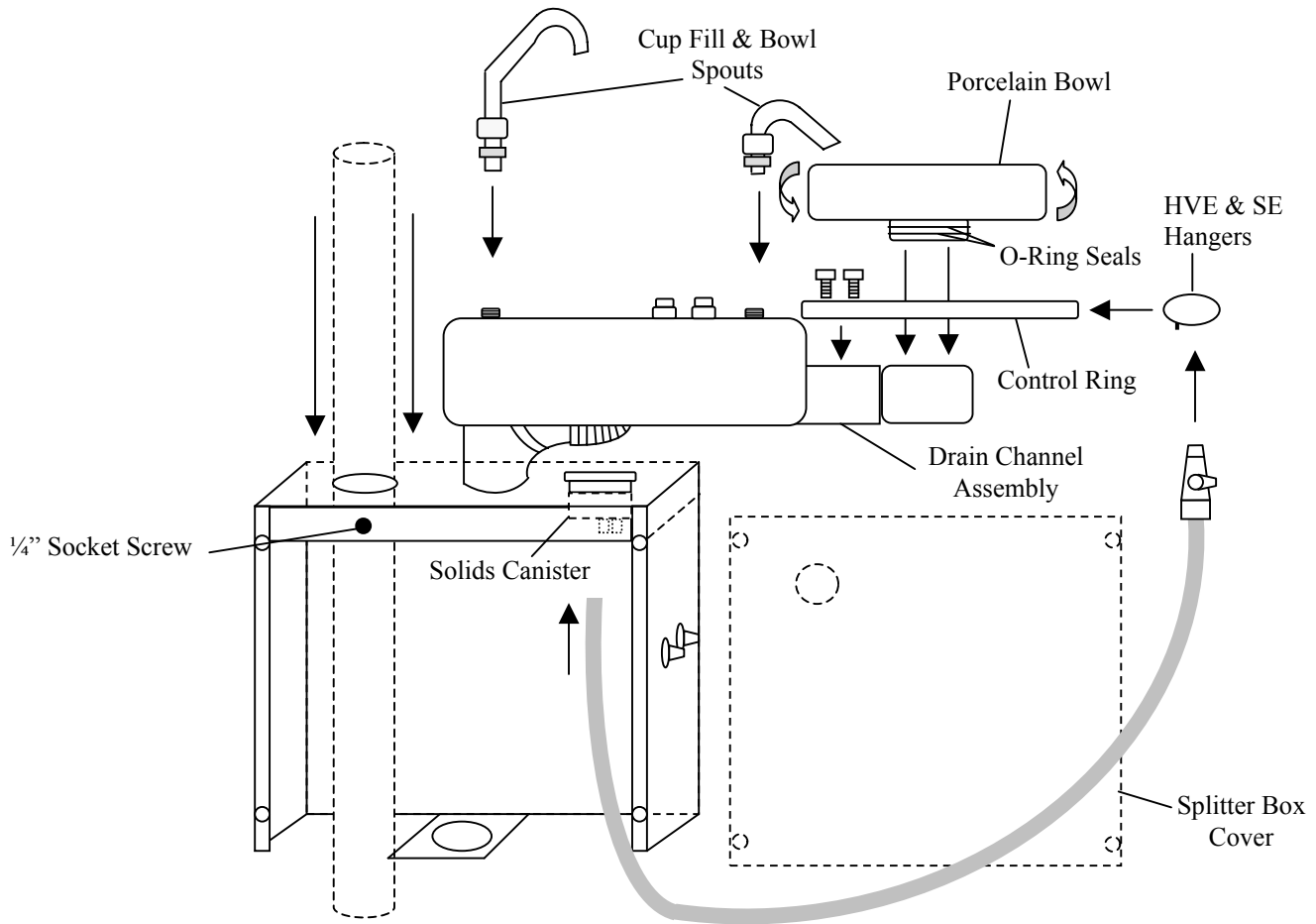
C. Check for filter in water regulator.

A. Check vacuum pump.

B. Check for blockage.

If you continue to experience difficulties, please call Technical Service Team at 1-800-275-3368.

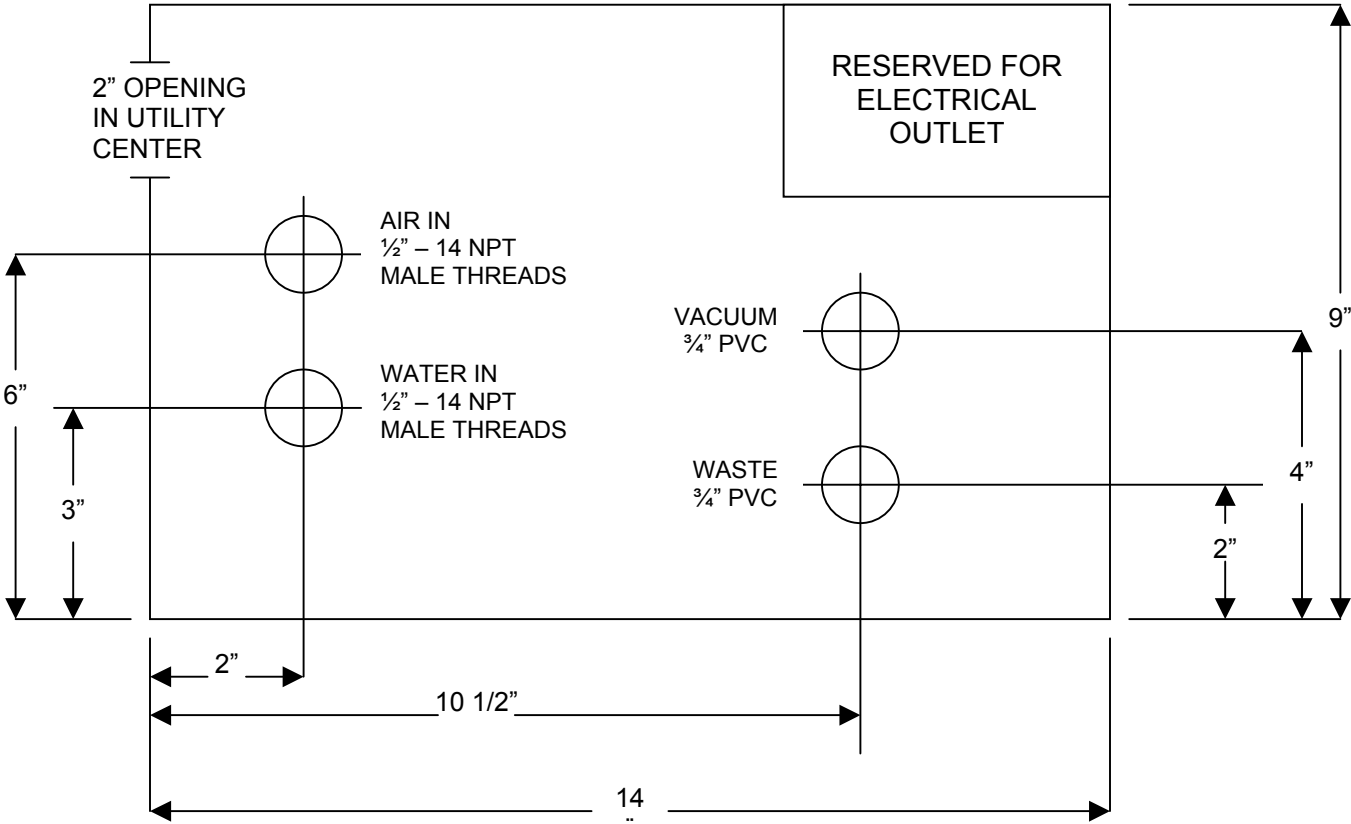
Installation Instructions



1. Remove the splitter box cover and slide the Cuspidor down the post to desired height and tighten the (1) Socket Set Screw (access by raising the cover) with a $\frac{1}{4}$ " Allen Key.
2. Attach the control ring by removing the two Philips screws from the drain channel assembly, aligning the corresponding holes of the control ring to the drain channel and reapply the two Philips screws.
3. Attach HVE & Saliva Ejector Hangers to control ring and tighten the (2) Socket Set Screws of each hanger with a $\frac{1}{4}$ " Allen Key (applicable to Models 1620, 1625, 1630 & 1650).
4. Attach the porcelain bowl to the bowl socket by slowly pressing down in a left to right motion. *This will allow the O-rings on the bowl spout to properly set in the bowl socket.*
5. Insert the Cup Fill & Bowl Spouts in to their respected sockets, with the rubber gray seals underneath the trim caps and flush against the sockets, and tighten the trim caps.
6. Attach the HVE and Saliva Ejector tubing the corresponding sockets of the solids canister and place valves in hangers (applicable to Models 1620, 1625, 1630 & 1650).

Utility Center Plumbing Layout

(Not to Scale and not included)



NOTE: All pipes must be terminated 1 inch above floor.
Position box so that 2" opening faces post side.

SDS UNIT TO CUSPIDOR INSTALLATION INSTRUCTIONS

PREPARATION

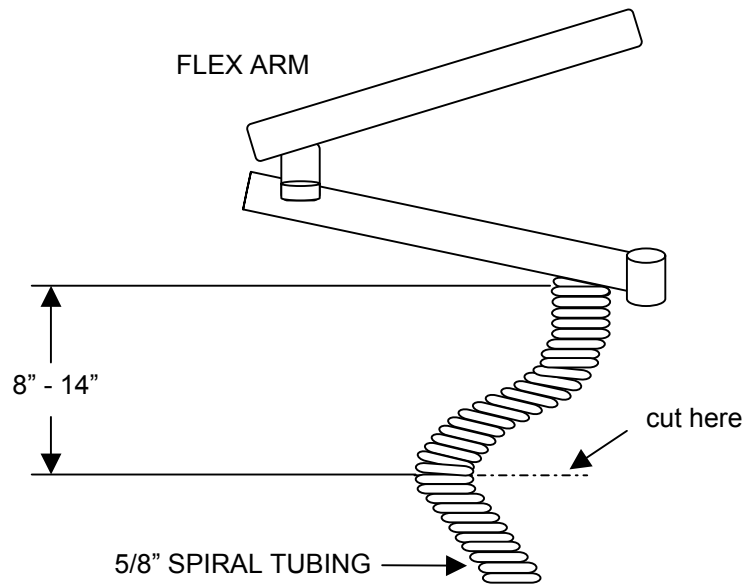
The cuspidor should be mounted in the desired location on the post.

The control flex arm should be mounted on the post at the desired height.

SHORTENING ARM UMBILICAL

To determine the length of the outer umbilical of the delivery unit, hold the umbilical up against the plastic grommet in the pass through hole located on the side of the cuspidor post mounted utility box. Allow enough length that the delivery unit arm can be moved freely without crimping the hose. Usually 8" to 14" from the point the umbilical exits the arm is sufficient (varies according to the height relationship of the delivery unit arm to the cuspidor post mounted utility box). Mark the appropriate length on the umbilical. Carefully cut **only** the outer umbilical at the desired length.

Insert the tubing and low voltage wire into the grommet and pass through hole of the cuspidor post mounted utility box until ½" of the outer umbilical is through to the inside of the pass through hole. Secure the umbilical on the inside of the pass through hole using the tie wrap provided.



MASTER ON/OFF TOGGLE SIGNAL CONNECTIONS

Connect the 1/8" yellow and 1/8" clear tubing from the unit to the plastic in line connectors located on the ends of the matching yellow and clear 1/8" tubing in the cuspidor umbilical.

CONTROL HEAD WATER AND AIR LINES

Connect the 1/4" blue tubing to the unregulated port on the water shut off valve (See diagram, page 25).

Connect the 1/8" blue tubing from the unit to the water regulator (See diagram, page 25).

Connect the 1/8" green tubing from the unit to the port, shown in the diagram, cut and install the 1/16" plastic "T" provided.

Locate the 1/8" gray tubing and connect to the 1/16" plastic "T" installed in the previous step.

FOOT CONTROL CONNECTIONS

OUTLET

Disconnect the foot control from the orange 1/4" tubing of the cut away portion of the umbilical. Leave the plastic 1/4" barbed in-line connector on the foot control tubing. Reconnect the free end of this barb to the 1/4" orange tubing from the unit.

(Note:) If the on/off water coolant toggle is located on the foot control, connect the 1/8" gray tubing from the foot control to the 1/8" orange tubing from the unit.

Utility Center Tubing Diagram

(Utility Center not included)

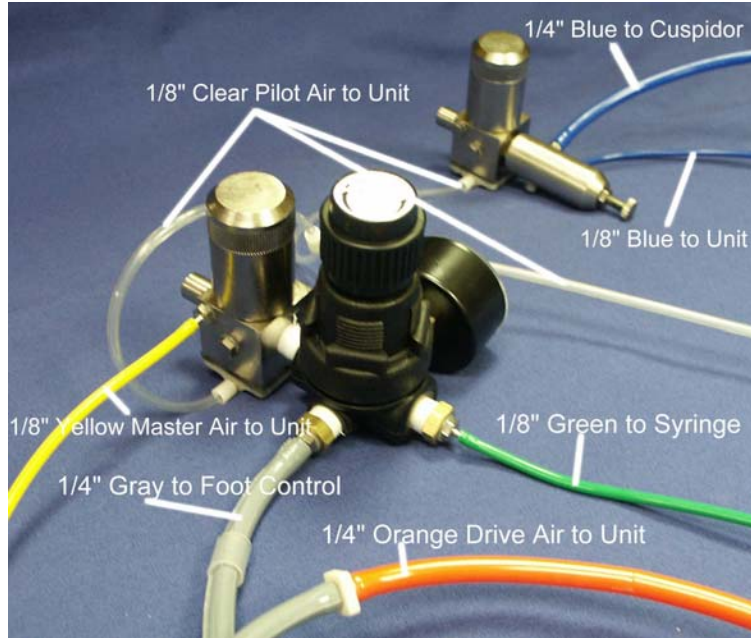


figure 1
Air Side

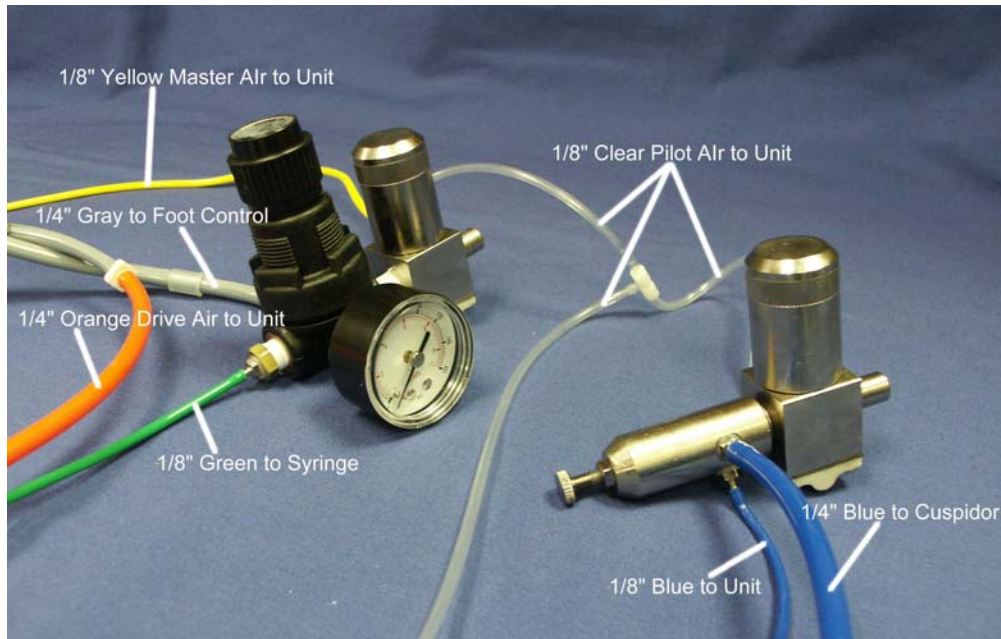
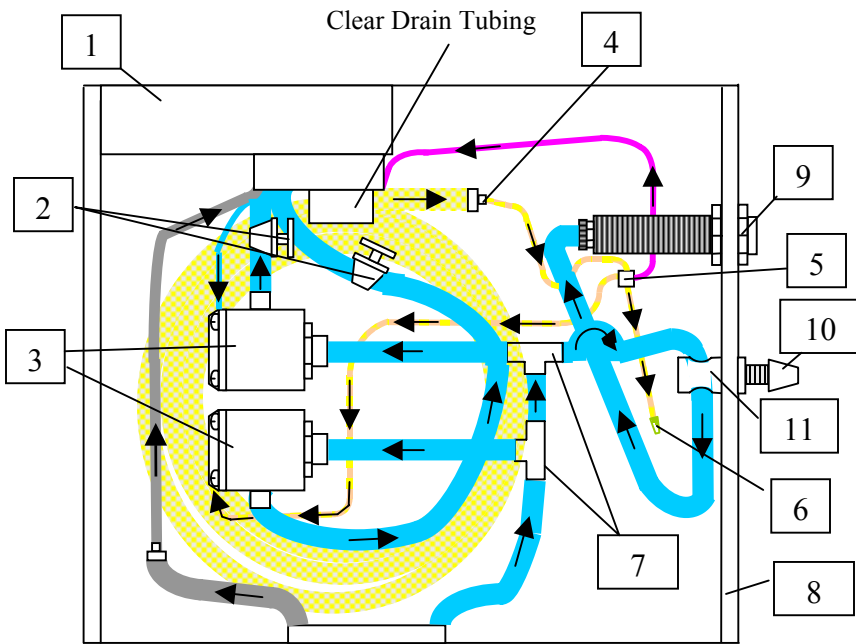


figure 2
Water Side

Cuspidor Box Assembly - Flow Diagram



(All Cuspidor Models)

Item	Description	Part #
1	Support Block	5-070-0090
2	Pinch Valve	5-030-0031
3	Shut-off Valve	5-020-0138
4	Luer Connector	5-030-0063
5	4-way Cross	5-070-0005
6	Barb Restrictor	5-030-0059
7	1/8" Plastic Tee	5-030-0032
8	Housing	5-030-0036

(Models 1620, 1625, 1630 & 1650 Only)

9	Female QD	5-020-0002
10	Knob	5-020-0041
11	Flow Control	5-070-0142

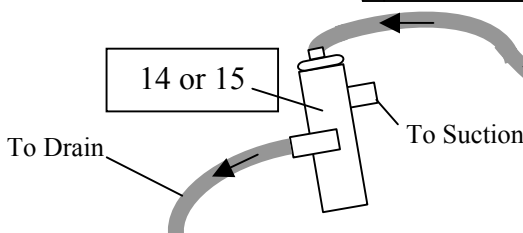
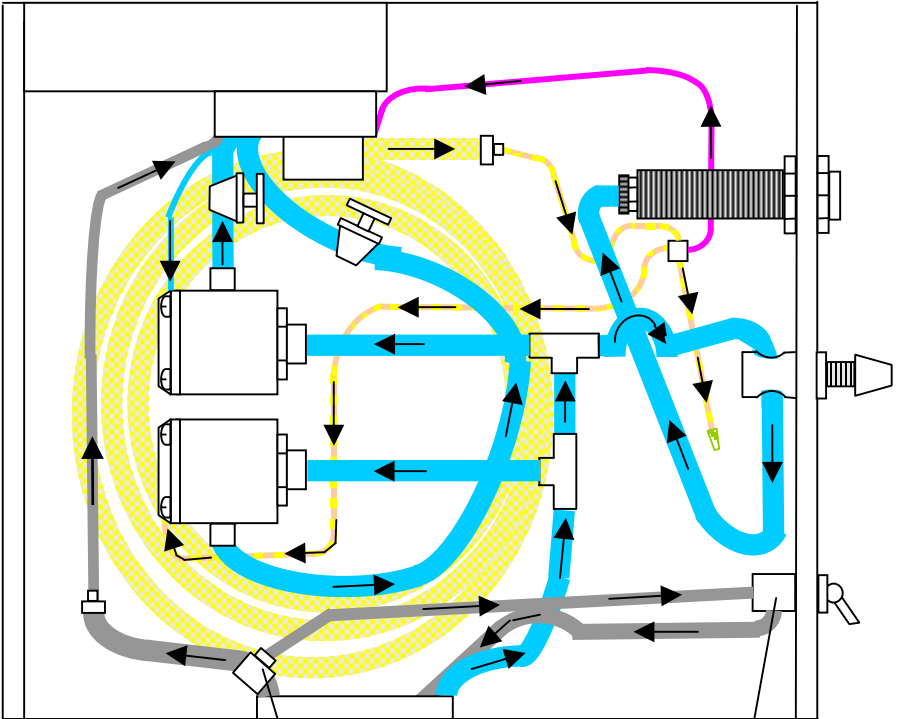
Additional Parts for Venturi Systems

(Models 1620 & 1630 Only)

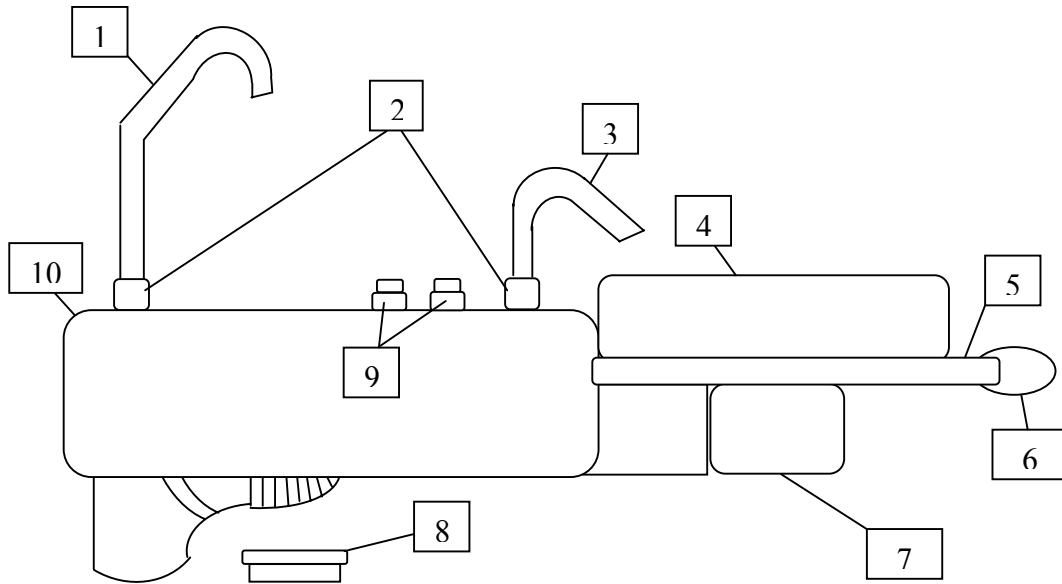
Item	Description	Part #
1 - 11 above, plus the additional:		
12	2-way On/Off Toggle	5-030-0111
13	1/8" Plastic Tee	5-030-0032
14	Air Venturi Valve	5-030-0115

(Model 1625 Only)

Item	Description	Part #
1 - 11 above, plus the additional:		
15	Water Venturi Valve	5-030-0105



Cuspidor Housing - Flow Diagram



Item	Description	Part #	Item	Description	Part #
1	Cup Fill Spout	5-030-0026	6	Egg Shaped Holder	5-020-0280
2	Spout Nut Adaptor	5-030-0081	7	Drain Channel Assembly	3-030-0005
3	Bowl Rinse Spout	5-030-0014	8	Vacuum Canister	5-030-0030
4	Porcelain Bowl	5-030-0084	9	Trim Nut, Push Button	5-030-0057
5	Support Ring	5-030-0084	10	Cuspidor Shroud	5-030-0040

