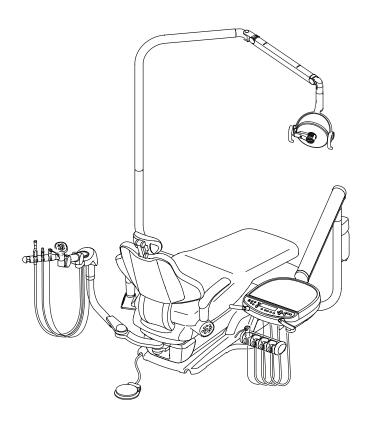
Quolis® Series

QUOLIS 5000 DENTAL UNIT



INSTALLATION INSTRUCTIONS

IMPORTANT

This manual provides installation instructions for the BELMONT QUOLIS5000 UNIT. The instructions contained in this booklet should be thoroughly read and understood before installing the chair and unit.

After the installation has been completed, keep this manual in a safe place and refer to it for future maintenance.



Intended Use of the Product

This product is an active therapeutic device intended to administer or exchange energy of electric, air and water for the exclusive use for diagnoses, treatments and relative procedures of dentistry, and its characteristic is not in a potentially hazardous way between such energy and human body, taking account of the nature, the density and site of application of the energy.

The product must be operated or handled by the qualified dentists or by dental staffs under the supervision of the dentist.

Such dentists or dental staffs should instruct and/or assist the patients to approach to and leave from the product.

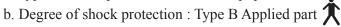
Patients should not be allowed to operate or handle the product unless he/she is so instructed. The product is supplied together with the handpieces like electric micromotor, air turbine and/or motor, scaler and so on.

Environmental Requirements

Ambient Temperature Operating 41F to 104F Storage 14F to 122F Humidity 10 % - 80%
Atmospheric Pressure 8.7psi – 15.4psi

Classification of Eqipment

a. Type of shock protection: Class I Equipment



c. Degree of protection against water ingress : Ordinary Equipment (All Products)

d. Mode of operation: Continuous Operation

e. Flammable Gasses: Not suitable for use in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide.

f. Earth: Protective earth (ground)

g. Hospital Grade Plug: Grounding reliability can be achieved only when the equipment is connected to an equivalent receptacle marked hospital only or hospital grade.

CAUTION

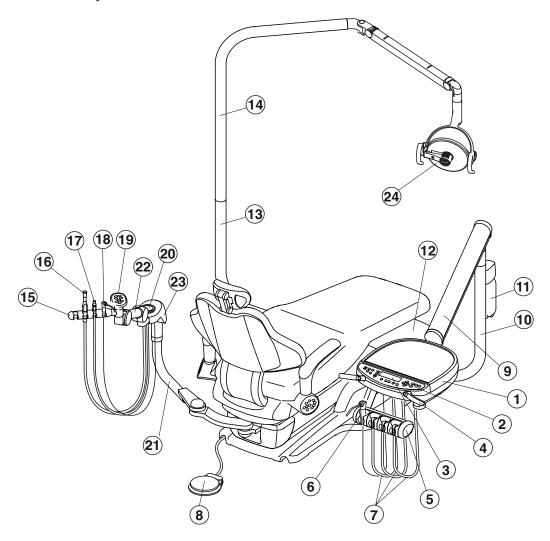
Ground reliability can only be achieved when the equipment is connected to an equivalent receptacle marked HOSPITAL only or HOSPITAL GRADE.

TABLE OF CONTENTS

Page	;
1. Overview and Major Components 1	
1-1. Vac Pac System	
1-2. PMU System	
2. Dimensions and Specifications 3	
2-1. Vac Pac System	
2-2. PMU System	
3. Introduction 5	
3-1. Precautions	
3-2. Necessary tools	
4. Unpacking of Units 5	
5. Swing Arm 7	
5-1. How to Install the Swing Arm	
6. Junction Box 7	
6-1. How to Install the Junction Box	
7. Balance Arm for the Doctor's Control8	
7-1. How to Install the Balance Arm	
7-2. How to Plumb the Doctor's Control	
7-3. How to Plumb the Water Bottle	
7-4. How to Install the Foot Control	
8. Monitor Mount (Optional) 11	
8-1. How to Install the Monitor Arm	
9 . Light Pole (Optional) 12	
9-1. How to Install the Light Pole (Optional)	
10 . Vac Pac (Optional) 12	
10-1. How to Install the Vac Pac	
10-2. How to Plumb the J-Box Utility	
11 . PMU (Optional) 14	
11-1. How to Install the PMU	
11-2. How to Install the Cuspidor Bowl	
11-3. How to Plumb the J-Box Utility	
11-4. How to install accessories	
12 . Final Adjustment 17	,
12-1. Swing Arm	
12-2. How to Adjust the Swing Arm Friction	
12-3. How to Adjust the Rotation Tension of Assistant Arm	
12-4. How to adjust the water flow volume of Cup fill and Bowl Rins	
13 . Connect the Power Cable and Confirms functionlity 18	
14. Option 18	
14-1. How to Install the Tray Holder	
15 . Flow Diagram 19	,
15-1. Doctor's Table Section	
15-2. Swing Arm Section	
15-3. Vac Pac Section	
15-4. PMU Section	
15-5. Junction Box Section	
15-6. Overall Unit Flow Diagram(Vac Pac System)	
15-7. Overall Unit Flow Diagram(PMU System)	
16. Electrical Diagram 25	,
16-1. Chair Section	
16-2. Doctor's Table Section	
16-3. PMU Section	
17 . Location of Product Labels 28	
18 . Floor Template 29	

1. Overview and Major Components

1-1. Vac Pac System



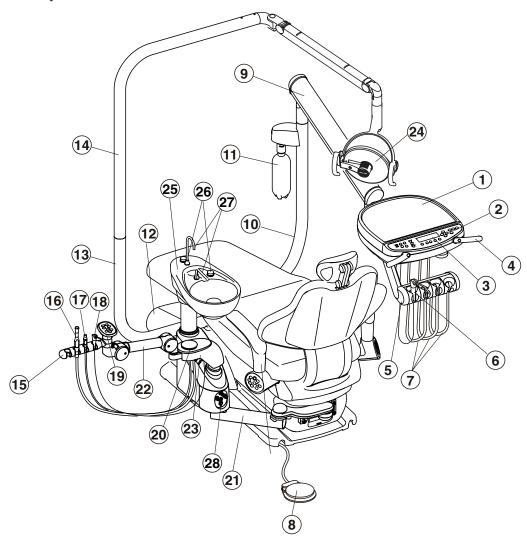
- (1) Control Head
- (2) Main Control Panel
- (3) Digital Display
- (4) Handle
- (5) Handpiece Holders
- (6) Dr's Syringe
- (7) Handpiece Hose
- (8) Foot Control
- (9) Balance Arm
- (10) Dr Swing Arm]
- (11) Water Bottle
- (12) Junction Box
- (13) Dental Light Swing Arm
- (14) Light Pole

- (15) Assistant Instrument Holder
- (16) HVE
- (17) SE
- (18) Assistant's Syringe
- (19) Assistant Touch Pad
- (20) Solids Collector
- (21) Assistant Swing Arm
- (22) Assistant Holder Arm
- (23) Vacuum Pack Housing
- (24) Dental Light

(*Note) Quolis 5000 series does not include syringe tips. Syringe tips manufactured by DCI are compatible with this device.

1. Overview and Major Components

1-2. PMU System



- (1) Control Head
- (2) Main Control Panel
- (3) Digital Display
- (4) Handle
- (5) Handpiece Holders
- (6) Dr's Syringe (*)
- (7) Handpiece Hose
- (8) Foot Control
- (9) Balance Arm
- (3) 20101100 1 11111
- (10) Dr Swing Arm
- (11) Water Bottle
- (12) Junction Box
- (13) Dental Light Swing Arm
- (14) Light Pole

- (15) Assistant Instrument Holder
- (16) HVE
- (17) SE
- (18) Assistant's Syringe (*)
- (19) Assistant Touch Pad
- (20) Solids Collector
- (21) Assistant Swing Arm
- (22) Assistant Holder Arm
- (23) Assistant Section
- (24) Dental Light
- (25) Cuspidor Bowl
- (26) Cup filler switch and Bowl Rinse switch
- (27) Cup filler nozzle and Bowl Rinse nozzle
- (28) Q.D.Section

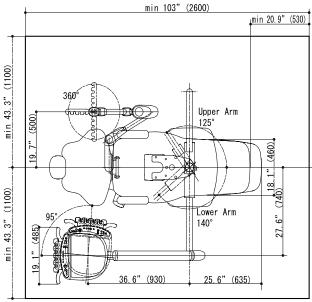
(*Note) Quolis 5000 series does not include syringe tips. Syringe tips manufactured by DCI are compatible with this device.

2. Dimensions and Specifications

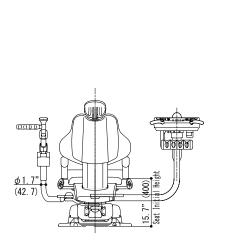
2-1. Vac Pac System

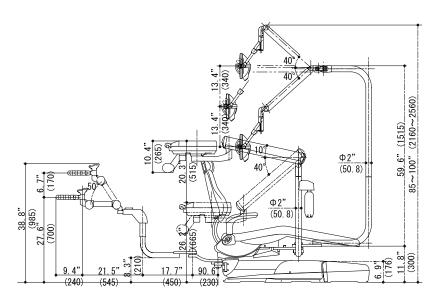
2-1-1. Dimensions

- Inch / (mm) - Tolerance ($\pm 10\%$)



Minimum dimension for change to right and left position. excluding treatment space





2-1-2. Specifications

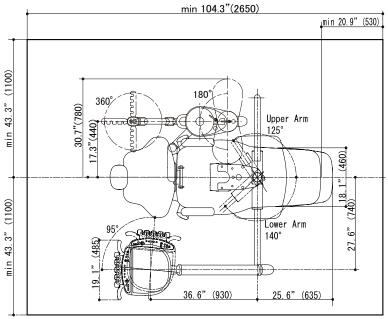
Power Consumption	AC120V 1A
Frequency	60 Hz
Fuse value	- AC125V 10A
Control Voltage	- DC5V
Dr's control Net Weight	- 55 lbs (25 kg)
Swing Arm Net Weight	- 55 lbs (25 kg) (Without Dental Light)
Vacuum Pack Net Weight	44 lbs (20 kg)
Junction Net Weight	16 lbs (7 kg)
Doctor Table Maximum Load	4.40 lbs (2 kg)
Operating Pressure	Water 30-40 psi (0.2-0.28 Mpa), Air 75 psi (0.5 MPa)

2. Dimensions and Specifications

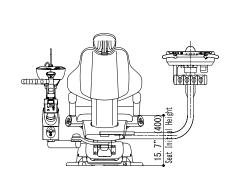
2-2. PMU System

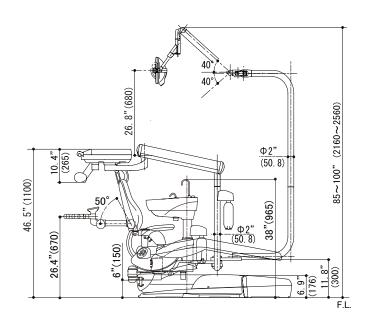
2-2-1. Dimensions

- Inch / (mm) - Tolerance ($\pm 10\%$)



Minimum dimension for change to right and left position. excluding treatment space





2-2-2. Specifications

Power Consumption	AC120V 1A
Frequency	60 Hz
Fuse value	- AC125V 10A
Control Voltage	- DC5V
Dr's control Net Weight	- 55 lbs (25 kg)
Swing Arm Net Weight	- 55 lbs (25 kg) (Without Dental Light)
PMU Net Weight	- 66 lbs (30 kg)
Junction Net Weight	16 lbs (7 kg)
Doctor Table Maximum Load	4.40 lbs (2 kg)
Operating Pressure	Water 30-40 psi (0.2-0.28 Mpa), Air 75 psi (0.5 MPa)

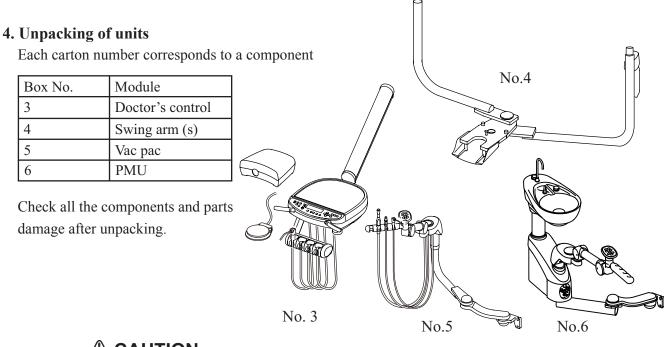
3. Introduction

3-1. Precautions for installation

- Do not connect to power supply other than 120V/60Hz.
- Ground the unit properly.
- Attach the junction box firmly to the floor.
- When electric micromotor (option) or electric scaler (option) is installed, please refer to the manual for the each device.
- Do not drop or hit the chair.
- When the installation process has been completed, verify that all the mechanical and electrical functions are working properly and that there is no evidence of oil, water or air leakage.
- Attach the dental chair to the floor before mounting the unit.
- Refer to the installation manual of Quolis 5000 dental chair to know how to install the dental chair.
- Refer to Floor Template for connection of water, air, power, drain hose and vacuum hose.

3-2. Necessary Tools

- Phillips screw drivers set #1, #2.
- Slotted screw driver
- Hex key wenches set (metric, 2.5mm 8mm)
- Adjustable wrench(over 24mm)
- Long nose pliers
- Wire cutter
- Socket set 17mm, 7mm, 1/4"
- Level



CAUTION

Opening cartons with a sharp object may cause damage to parts

Box No.3 (Doctor's control)

- (1) Doctor's control assembly 1 set
- (2) Junction box assembly 1 set
 - · Junction box with cover 1 set
 - Duct hose 800mm 1 pc.
 - Utility package (air)
- (3) Balance arm end cap 1pc.
- (4) Stainless tray and non-slip pad 1 set
- (5) Foot controller 1 set
- (6) Syringe parts 1 set
- (7) Operating manual, installation manual 1 set
- (8) Miscellaneous parts for installation as follow
 - Sleeve for 1/4" OD tubing 14 pcs.
 - Sleeve for 1/8" OD tubing 12 pcs.
 - Barb fitting for 1/4" OD tubing 3 pcs.
 - Barb fitting for 1/8" OD tubing 3 pc.
 - Hex plug 2 pcs.
 - Tubing 1/8" OD brown 500mm 1 pc.
 - Tubing 1/4 Green 500mm 1 pc.
 - Panhead Philips screw M4 x 10mm 2 pcs
 - Round head Philips wood screw M5 x 25mm 3 pcs.

Box No.4 (Swing arms)

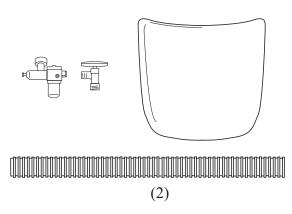
- (9) Swing arm Assembly 1 set
- (10) Water bottle 1 pc
- (11) Lower tubing cover 1 pc.
- (12) Quick disconnect adaptor for water bottle 1pc.
- (13) Swing arm locking pin for dental light 1 pc. (For the swingmounted light only)
- (14) Miscellaneous Parts for installation as follow.
 - Socket screw M10 x 40mm (for mounting) 4 pcs.
 - Socket screw M10 x 20mm (for level) 4 pcs.
 - Pan head Phillips screw M5 x 16mm 4 pcs.
 - Flat head screw M10×35mm 1 pc. • 1/4 sleeve 2 pcs.
 - 1/8 sleeve 1 pc.

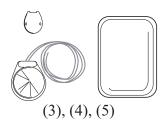
Box No.5 (Vac Pac)

- (15) Vac Pac Assembly 1 set
- (16) Syringe parts 1 set
- (17) Miscellaneous Parts for installation as follow.
 - Socket screw M10 x 40mm (for mounting) 4 pcs.
 - 1/4 sleeve 2 pcs.
 - Barb fitting for 1/4 OD tubing 2 pcs.

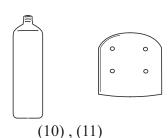
Box No.6 (PMU)

- (18) PMU Assembly 1 set
- (19) Junction Box Assembly 1 set
- (20) Syringe parts 1 set
- (21) Cuspidor Bowl Section
 - Cup filler nozzle 1pc.
 - Bowl Rinse nozzle 1pc.
 - Basket Strainer & Cap 1pc.
- (22) Miscellaneous Parts for installation as follow.
 - Socket screw M10 x 40mm (for mounting) 4 pcs.
 - 1/4 sleeve 8 pcs.
 - Barb fitting for 1/4 OD tubing 5 pcs.



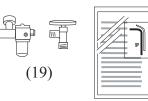




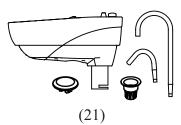












5. Swing Arm

5-1. How to Install the Swing Arm

The swing arm assembly shall be mounted at the front of the chair under the seat.

1. Raise the seat frame of the chair as shown.

CAUTION

Failure to lift seat frame as shown can result in damage to paint finish of swing arm in subsequent steps.

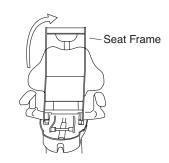
- 2. Insert M10 x 35mm flat head screw in the threaded hole on the top side of the plate, center . Leave 1" from the top of screw to plate surface.
- 3. Raise the seat.
- Attach swing arm assembly to chair by aligning M10 x 35mm screw with recess in front of the seat and slide screw into slot.
- 5. Locate 4 M10 x 20mm leveling set screws and insert into bottom side of swing arm plate.
- 6. Adjust the level of the swing arm plate with the four socket set screws.
- 7. Tighten the 4 M10 x 40 mm socket head screws. Lift the swing arm if needed.

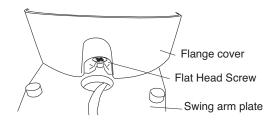
6. Junction Box

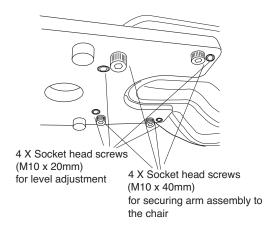
6-1. How to Install the Junction Box

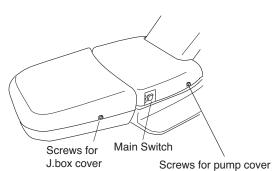
Refer to Floor Template for connection of water, air, power, drain hose and vacuum hose.

- 1. Raise the chair up
- 2. Turn off the power of the chair
- 3. Remove two slotted M5 x 10mm screws from each side of the pump cover and remove pump cover.
- 4. Place the junction box frame in front of the chair. (The plan of the plumbing position needs to be done in advance. See the flow diagram)
- 5. Attach the junction box frame to the floor with three M5 x 25mm round head philips wood screws.







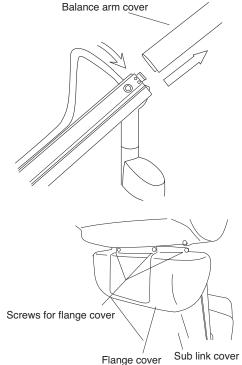




7. Balance Arm for the Doctor's Control

7-1. How to Install the Balance Arm

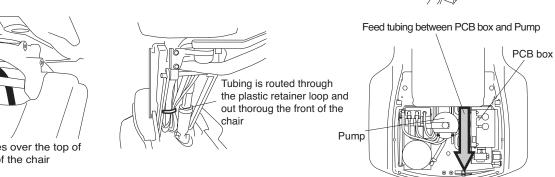
- 1. Lower the chair.
- 2. Insert the balance arm into the top of the swing arm.
- 3. Slide the balance arm cover off balance arm and route tubing and cables down into the swing arm. Make sure that the hoses are not twisted.
- 4. Remove the seat flange cover from chair by removing four M5 x 15mm screws and sub-link cover by removing two M5 x 15mm screws on the back of the chair cantilever lift arm.



Main Link Axis

Sub Link Axis

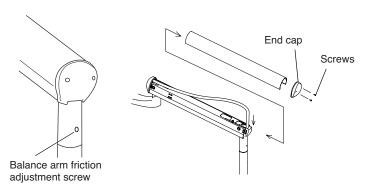
- 5. Route umbilical tubing & wires from swing arm into chair. Tubing & wires should be routed over the top of the pivot bar in the front of the cantilever arm.
- 6. Feed umbilical down between 2nd pivot bar and into plastic retaining loop.





Route tubing and wires over the top of the pivot bar in front of the chair

- 7. Feed tubing between PCB box and pump and out to the front of the chair.
- 8. Slide in the balance arm cover and into the channels along the balance arm and the balance arm end cap with two M4 x 10mm screws.
- 9. Adjust M6 x 5mm balance arm friction adjustment screw (M6 x 5mm).



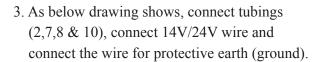
7-2. How to Plumb the Doctor's Control

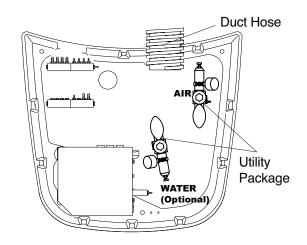
CAUTION

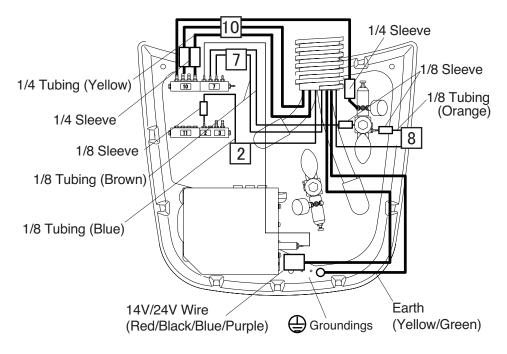
If Vac Pac or PMU is installed with Dr. table, run tubings for Vac Pac or PMU at the same time.

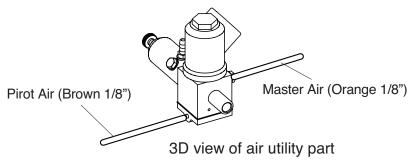
- 1. Cut the duct hose to desired length and insert it between retainers inside of the pump cover and the junction box.
- 2. Attach the manual on/off valve to the air supply pipe. Purge air through valve to clean debris. Attach automatic valve assembly for air to manual valve. Do the same thingfor the water assembly ordered with "city water" option.

If PMU is not purchased, Utility package for water becomes an option. The pressure gauge for air has higher scale range.

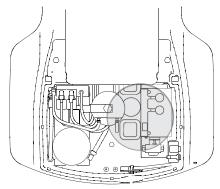




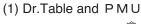


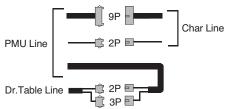


4. Connect wires in J Box as follows.

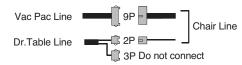


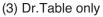
Wiring in J Box



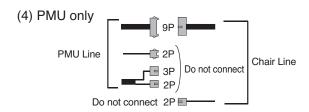


(2) Dr. Table and Vac Pac







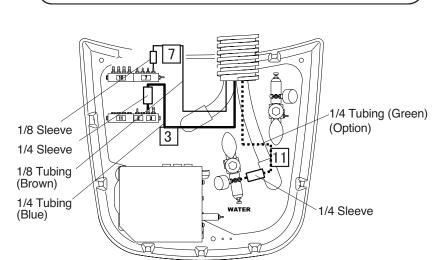


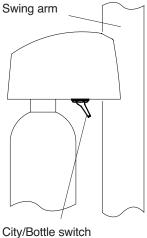
7-3. How to Plumb the Water Bottle

1. Connect the tubing labeled 3, 7 and 11 to the manifold inside the junction box. Utility package for water is an option. Make sure that City/Bottle switch is equipped on the Swing Arm.

CAUTION

If City/Bottle switch is not equipped, do not connect green 1/4 tube (11). This will cause water leak.





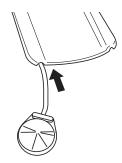
7-4. How to install the Foot Control

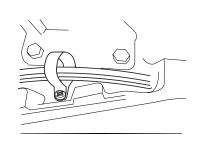
Number	Color (Size)	Function
6	Red (1/4" OD)	Drive
10	Yellow (1/4" OD)	In
5	Yellow (1/8" OD)	Chip (Air for spray, not used)
9	Gray (1/8" OD)	Water (Pilot air for water for spray, not used)

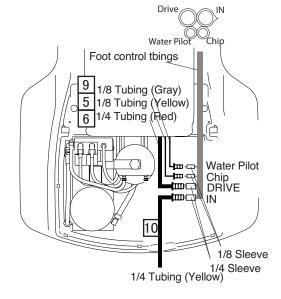
- 1. Insert foot control tubing through channel in chair base and feed through chairs into J.box.
- 2. Connect the tubing labeled 5, 6, 9 and 10 to the tubing from the doctor table.

Note: Although the 1/8" OD gray tubing and yellow 1/8" OD tubing are not used, connect to prevent air leaks.

3. Attach the foot control tubing to the chair base with a nylon clamp (see photo).







8. Monitor Mount(Optional)

8-1. How to Install the Monitor Arm

- 1. Install the monitor arm to the swing arm. See 5-1 How to install swing arm.
- 2. Feed the cables thought the swing arm and the chair, and bring the end into the junction box.
- 3. Install the monitor mount to the monitor arm.
- 4. Connect the cables inside Junction box.

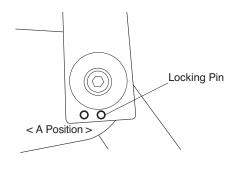
Note: LCD monitors are not supplied from Belmont. The mounting holes on back of monitor should be designed for attachment of 75 or 1000 mm VESA mgt pattern.

9. Light Pole (Optional)

9-1. How to Install the Light Pole

- 1. For installation of the dental light, see the installation and operation manual of Quolis dental light.
- 2. Position the swing arm to either side of the chair and lock it in place with the dental light locking pin.

When you combine Dr. Table and PMU with a water bottle. Set Lock Pin on A position to avoid the interference of a bottle and a swing arm.



CAUTION

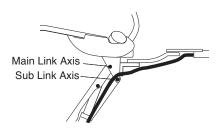
Do not remove the cardboard paper put on the swing arm until the seat cushion has been attached to the seat frame with screws, otherwise the surface of the light pole will be scratched off when swinging the arm.

10. Vac Pac(Optional)

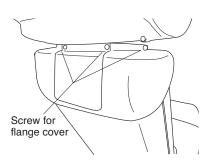
10-1. How to Install the Vac Pac

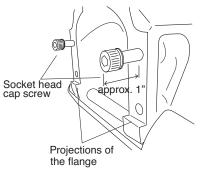
- 1. Remove four screws M5 x 15mm and the flange cover of the chair.
- 2. Insert two M10 x 40mm socket head cap screws into the top threaded hole on the rear side of the chair. Screws should extend approximately 1" from chair.
- 3. Hook the assistant arm mounting bracket underneath the two socket head cap screws. Tilt the bracket slightly and lift it. Place the lower edge of the mounting bracket on the projections of the flange.
- 4. Tighten lower M10 x 40mm socket head cap screws through swing arm mounting bracket. Tighten all four screws.
- 5. Route the umbilical tubing with unit umbilical down through chair, between the main link and sub link Axis, and bring the end to the junction box. Tie the tubing with the white nylon clamp.

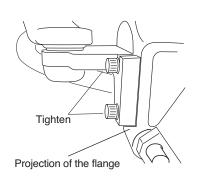
Make sure that hoses are not kinked





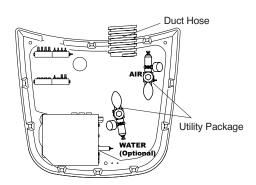




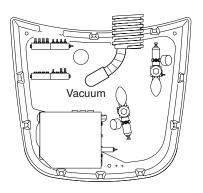


10-2. How to Plumb the JBOX-Utility (Vac Pac)

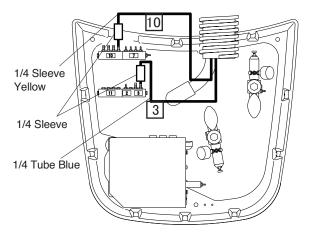
- 1. Cut the duct hose to desired length and insert it between retainers inside of the pump cover and the junction box.
- 2. Attach the manual on/off valve to the air supply pipe.Purge air through valve to clean debris. Attach automatic valve assembly for air to manual valve. Do the same thing for the water assembly ordered with "city water" option.



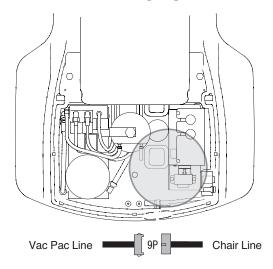
3. Connect 5/8 Vacuum hose.



4. As below drawing shows, connect tubings and wires. If connection end is plugged, use supplied 1/4 fitting.



5. Connect wires under a pump cover.



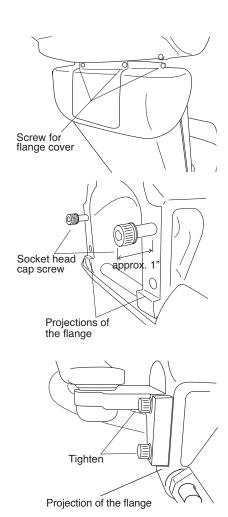
11. PMU(Optional)

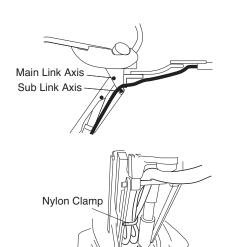
11-1. How to Install the PMU

- 1. Remove four screws M5 x 15mm and the flange cover of the chair.
- 2. Insert two M10 x 40mm socket head cap screws into the top threaded hole on the rear side of the chair. Screws should extend approximately 1" from chair.

- 3. Hook the assistant arm mounting bracket underneath the two socket head cap screws.
 - Tilt the bracket slightly and lift it. Place the lower edge of the mounting bracket on the projections of the flange.
- 4. Tighten lower M10 x 40mm socket head cap screws through swing arm mounting bracket. Tighten all four screws.
- 5. Route the umbilical tubing with unit umbilical down through chair, between the main link and sub link, and bring the end to the junction box. Tie the tubing with the white nylon clamp.

Make sure that hoses are not kinked

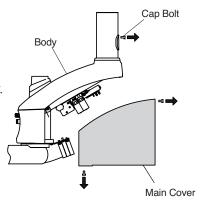


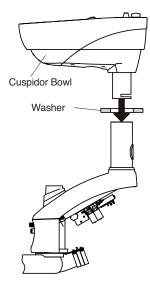


11-2. How to Install the Cuspidor Bowl.

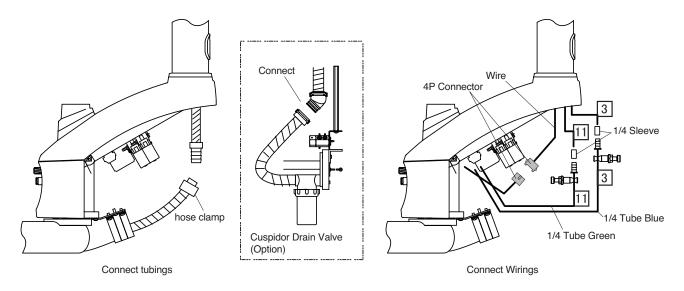
- 1. Take the main cover off by unscrewing three screws.
- 2. Remove a cap bolt.
- 3. Insert Cuspidor Bowl into Rotation Axis.

 Do not forget to insert an attached washer.





- 4. As below drawing shows, connect drain hose, tubings and wires.
 - (1) We supply long hoses. As needed, cut them accordingly.
 - (2) To avoid water leak, insert barb fittings to the end. (Use a connector, when an optional Cuspidor Drain Kit in installed)
 - (3) Connect the drain hoses by a hose clamp.
 - (4) Connect tubings by matching colors and numbers.
 - (5) Connect wirings by using a 4P wire connector.



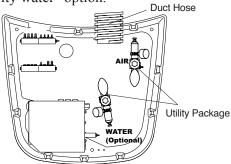
5. When connections have been completed, put the main cover and cap bolt back.

CAUTION

Please avoid the external force on Drain Hose, tubings and Wires. This will cause the malfunction or damage to the equipment.

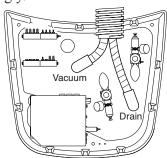
11-3. How to Plimb the JBOX-Utility

- 1. Cut the duct hose to desired length and insert it between retainers inside of the pump cover and the junction box.
- 2. Attach the manual on/off valve to the air supply pipe. Purge air through valve to clean debris. Attach automatic valve assembly for air to manual valve. Do the same thing for the water assembly ordered with "city water" option.

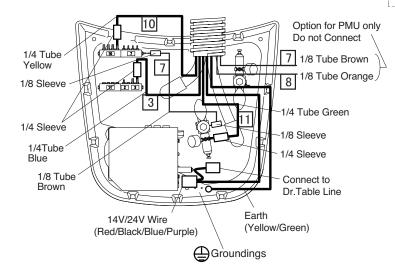


3. Connect Vacuum Hose (5/8) and Drain Hose (3/4) Vacuum hose have uneven surface.

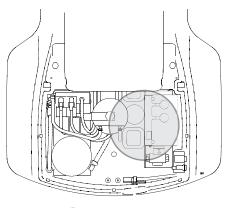
We supply long hoses. As needed, cut them accordingly.



4. As below drawing shows, connect tubings and wires. If connection end is plugged, use supplied 1/4 fitting.Connect Dr. Table side wirings to the wirings on PMU side.

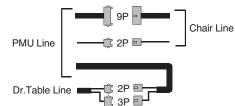


5. Connect wires in J Box as follows.

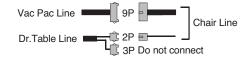


Wiring in J Box

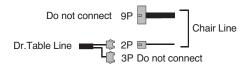
(1) Dr.Table and PMU



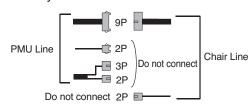
(2) Dr. Table and Vac Pac

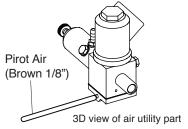


(3) Dr.Table only



(4) PMU only





11-4. Installation of Accessories.

1. Install, Nozzles, Cap & Basket Strainer.



12. Final Adjustments

12-1. Swing Arm

- 1. Attach the lower tubing cover to the bottom of the swing arm mounting bracket with four M5 x 16mm.
- 2. Replace the chair pump cover and the junction box cover and fasten with M5 x 10mm screw and tighten firmly with a slotted screw driver.

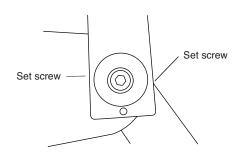
CAUTION

Fasten the pump cover and junction box cover firmly with a screw driver with screws provided and tighten

12-2. How to Adjust the Swing Arm Friction

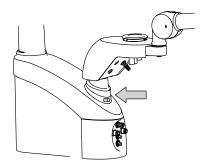
The friction of the swing arm for Doctor's control, dental light and monitor must be adjusted independently.

1. Adjust the M6 x 5mm socket set screw beneath the swing arm.



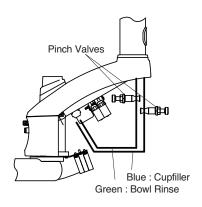
12-3. How to Adjust the Rotation Tension of Assistant Arm.

1. Adjusting screw for vertical angle is located here. To access adjusting screw, pull the rubber cover off.



12-4. How to adjust the water flow volume of Cupfiller and Bowl Rinse.

1. Adjust the water flow by pinch valves.

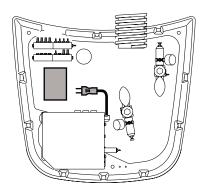


13. Connect the Power Cable and Confirms functionality.

1. Connect the power cables(120V), electrical cables and the connectors to the electrical receptacle inside the junction box for chair and unit.

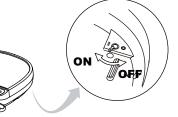
CAUTION

Ground reliability can only be achieved when the equipment is connected to an equivalent receptacle marked HOSPITAL only or HOSPITAL GRADE.



- 2. Adjust the regulator pressures. Air: 75 psi. Water (optional): 30-40psi
- 3. When all of the installation work are done, turn the main switch on. Confirms that each part functions correctly.

 Then put the cover on.



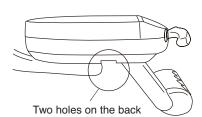
14. Option

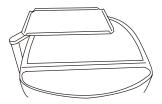
14-1. How to Install the Tray Holder

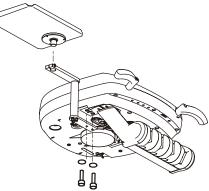
The tray holder can be mounted at either side of the Doctor's control.

1. Fit the tray holder to the tray arm.

Install the tray arm to beneath the Doctor's control with two screws M6 x 25mm.



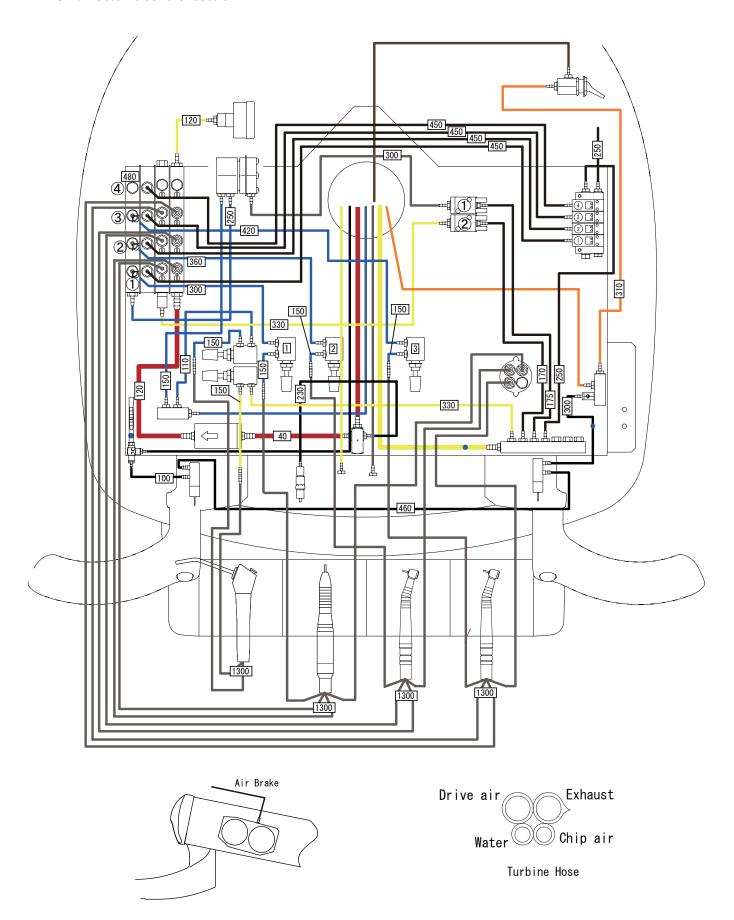




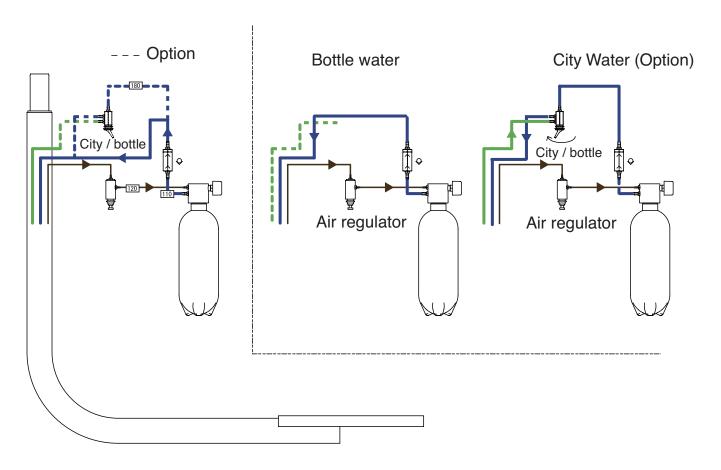
This can be installed on the other side.

15. Flow Diagram

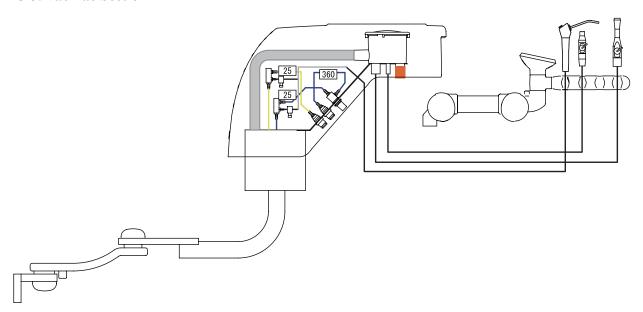
15-1. Doctor's control section



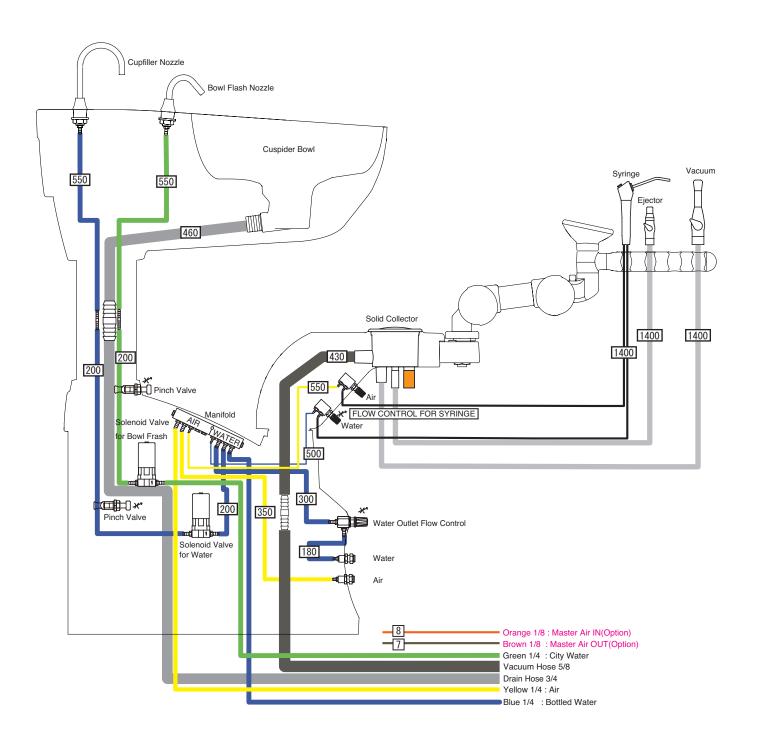
15-2. Swing Arm Section



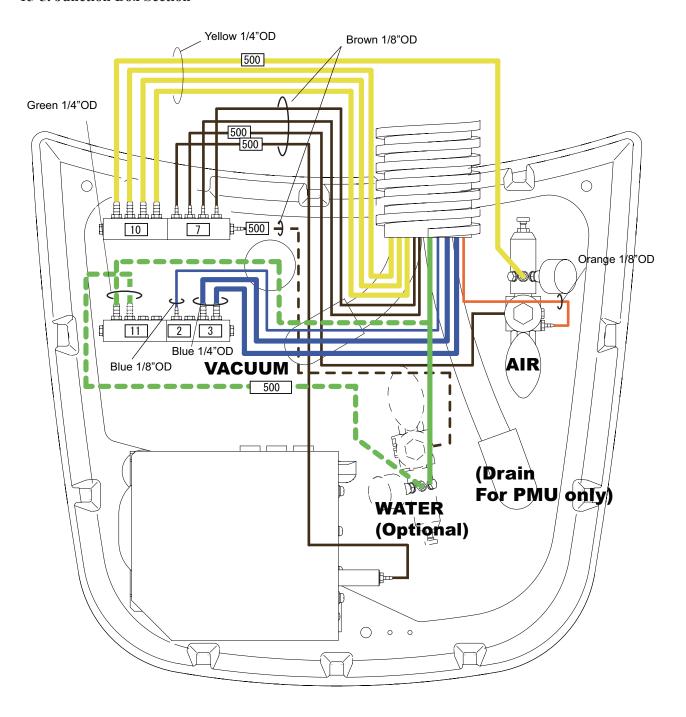
15-3. Vac Pac Section



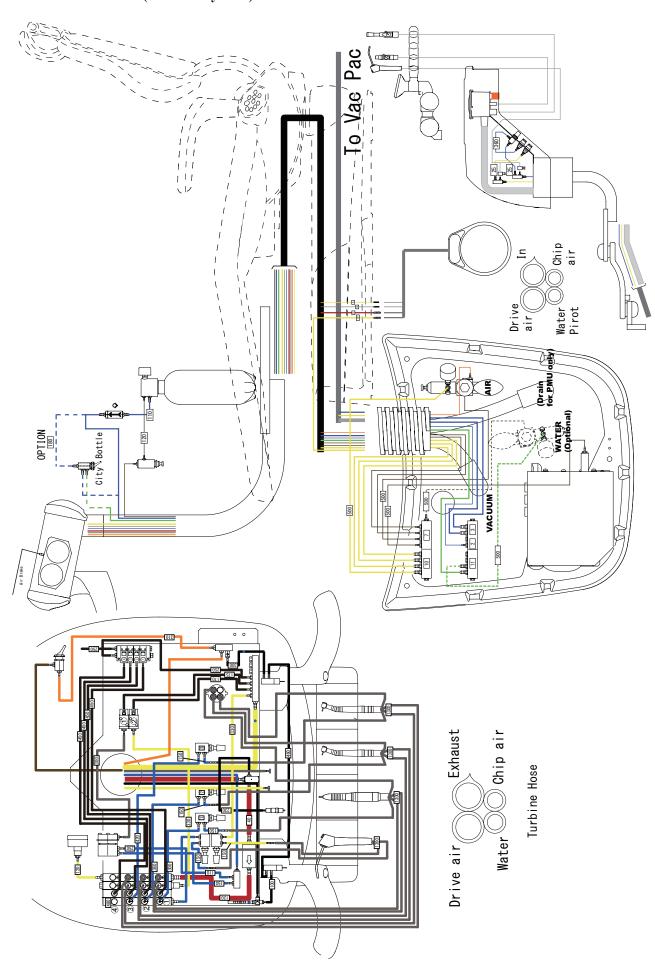
15-4. PMU Section

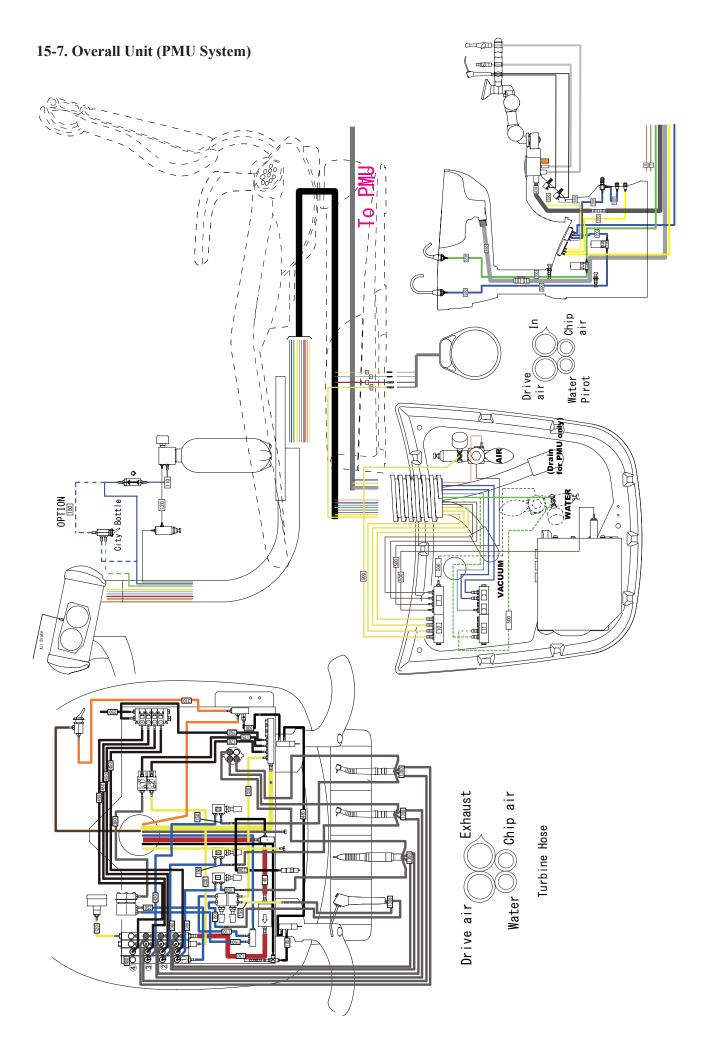


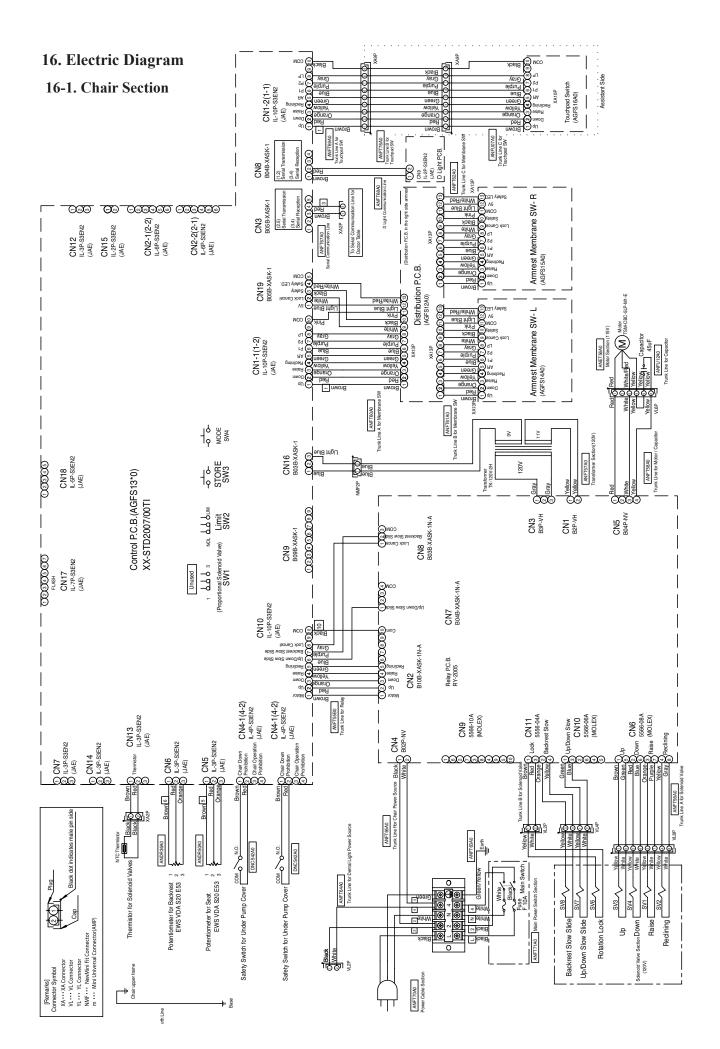
15-5. Junction Box Section

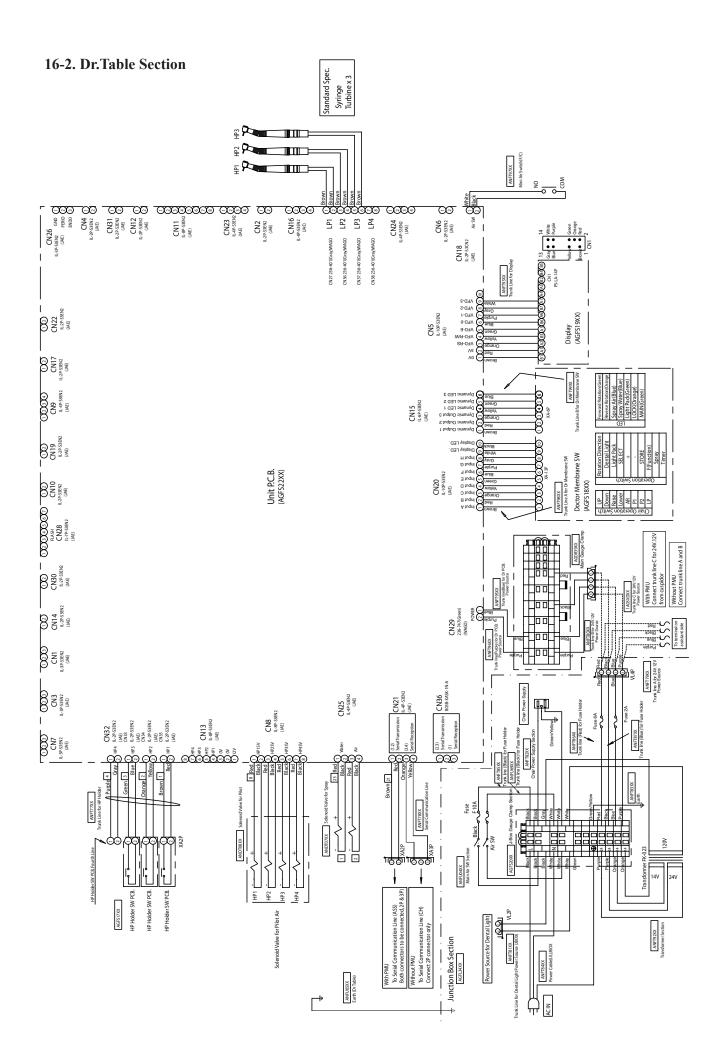


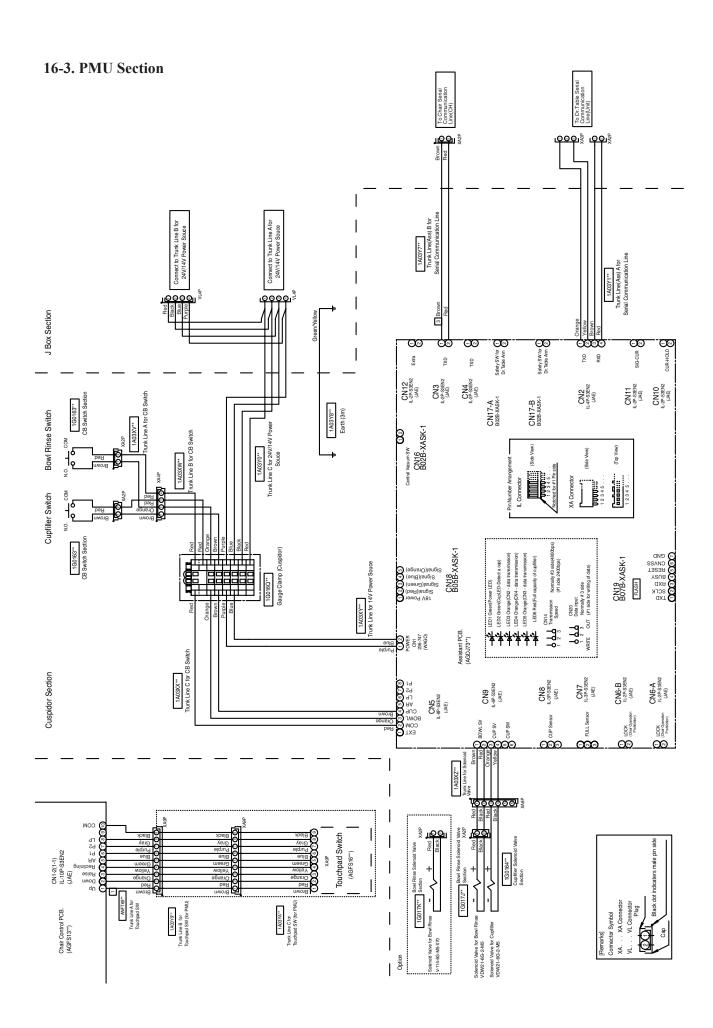
15-6. Overall Unit (Vac Pac System)





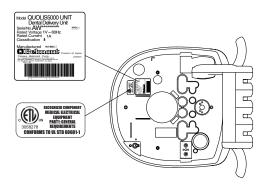




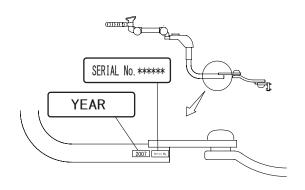


17. Location of the Product Labels

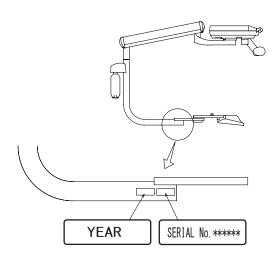
17-1. Product label & ETL label are located under the doctor table.



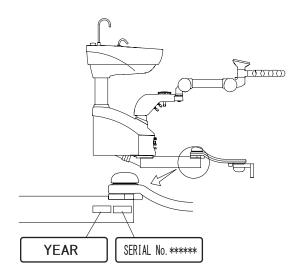
17-3. Product label (SERIAL No.) is located side of the assistant swing arm.



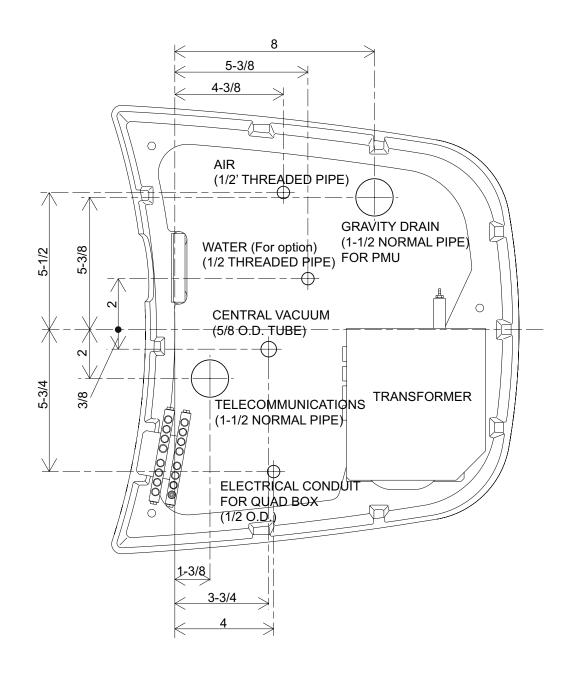
17-2. Product label (SERIAL No.) is located side of the doctor swing arm.

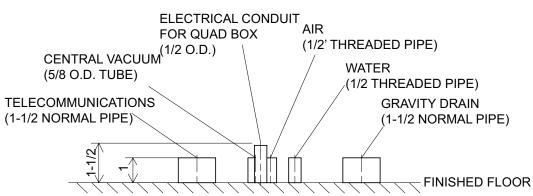


17-4. Product label (SERIAL No.) is located side of the PMU swing arm.



18. Floor Template





NOTE —		



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