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DEVICE DESCRIPTION $\Lambda \square \land$ Isolite 3 Illuminated Dental Isolation System REF EILO301 The Isolite 3 system is intended to be used with the single-use, non-sterile Zyris Mouthpieces. The Mouthpiece is available in a wide range of sizes for effective isolation. Each Isolite 3 System is comprised of three main components: (1) Control Head Hose. (2) Vacuum Light Pipe, and (3) Power Vacuum Base Control Head Hose REF PIL0301 (1.50 m / 59 in) The Control Head Hose (CHH) consists of an

integrated Control Head, suction tube, and twist-lock tail connection. The Control Head includes two Vacuum Levers to adjust suction in the upper and lower areas of the Mouthpiece, buttons to control the LED light source (on/off, white and amber color output) and its three levels of brightness, plus an integrated handle. The suction tube delivers both power and vacuum from the tail connection and the Power Vacuum Base (PVB) to the Control Head. See below for cleaning and disinfection instructions. Power Vacuum Base REF PILO302 The Power Vacuum Base connects to the vacuum canister, which allows for suction control to the Isolite 3 device, an accessory

port or both. The suction can also be shut off for maintenance and cleaning of the Power Vacuum Base. An indicator light illuminates red to alert the user if an error has occurred. For example, an incorrect power adapter has been plugged into the system. See below for cleaning and disinfection instructions. Vacuum Liaht Pipe REF PILO303 The Mouthpiece attaches onto the Vacuum Light Pipe. The Vacuum Light Pipe provides dual channel suction and delivers the white and amber light into the Zvris Mouthpiece. See below for cleaning and sterilization instructions. Power Supplies Control Head Hose O-Ring Maintenance Kit REF PIL0304 (Power Adapter, 12VDC – 1 Amp) REF AIL0239 | REF PIL0305 (Power Terminal Cable, 24VAC – 1Amp)

The power supply delivers electrical power to the Control Head Hose via the Power Vacuum Base. Optional power supplies included with the system can be connected to a standard 110v wall plug or integrated into a dental chair's 24VAC power source. ACCESSORIES Cleanina Tip REF PILO307

The cleaning tip attaches to the control head

and allows for connection to either a

chairside integrated suction line cleaning

system or a portable cleaning canister.

Maintenance Kit includes o-rings for the left and right levers, a tail connection, and Dow 111 silicone grease. Power Vacuum Base O-Rina Maintenance Kit REF AIL0241 Sold Separately The Power Vacuum Base O-Ring Maintenance Kit includes o-rings for the valve dial and accessory connectors, a valve dial seal, and Dow 111 silicone grease.

The Control Head Hose O-Ring

Double End Tube Brush REF AIL0204

This two-in-one cleaning brush has bristles made of sturdy nylon fiber and a flexible

plastic stem, which allows for the removal of biomatter and other debris from the suction channels.

Dow 111 Lubricant. Squeeze Tube REF AIL0221

Sold Separately

For the o-rings to operate at peak efficiency. regularly lubricate them with Dow 111 Lubricant. This heavy-consistency dimethyl silicone compound resists a variety of organic and inorganic chemicals.

Barrier Sleeves REF AIL0203 (non-sterile)

Sold Separately

Non-sterile Control Head Barrier Sleeves are

available for additional protection from cross-contamination. Use of Barrier Sleeves does not eliminate the need to follow disinfecting and sterilization recommendations for the Control Head Hose and Vacuum Light Pipe. Mouthpiece REF CILXXoX (non-sterile) Sold Separately The non-sterile Mouthpiece is single use only and available in various sizes. The Mouthpiece is constructed of a soft, flexible polymer for patient comfort. The Mouthpiece is free of BPAs, phthalates and does not contain natural rubber latex. For more information on sizes, go to zyris.com.

INTENDED USE Isolite 3 is an illuminated dental isolation system for clinical use by dental professionals. The system was designed with the patient and clinician in mind. The Mouthpiece offers a soft, flexible bite block for patient comfort while providing intra-oral illumination, continuous suction, retraction of the tongue and cheek, and isolating two guadrants for the clinician. The retraction and continuous suction are the important functions that control the oral environment, reducing contamination and improving bond strength while protecting the airway and soft tissue. Contraindications There are no known contraindications. Do

not use without reviewing how to select the correct Mouthpiece size for each patient. Do not use if unable to position the Mouthpiece correctly. Side Effects Use of the Mouthpiece may trigger a pharyngeal reflex (laryngeal spasm) in hypersensitive patients or if it is not placed correctly within the oral cavity. Contact Zyris for additional placement information if needed. How Supplied Isolite 3 The Isolite 3 System contains: Control Head Hose, Power Vacuum Base, six Vacuum

Light Pipes, two Power Supply options, Accessory Kit and Instructions for Use. Accessories: Cleaning Tip, 6" (trim to length) Control Vacuum Connector Hose, Double End Tube Head Brush, and Control Head Hose O-Ring Maintenance Kit. Mouthpieces Mouthpieces come in convenient 10-pack boxes. Each non-sterile Mouthpiece is individually packaged in a polyethylene bag. Mouthpieces come in six different sizes for varying patient needs. See Figure 3. INSTALLATION Isolite 3 was designed to install easily in most dental operatories (Figure 1).

Installation and usage instructions, including a video demonstration, are also available at zyris.com/success. HVE Port 2 — HVE Port 1 Suction Canister With Available HVE Port Connector Step 1 Attach the end of the vacuum Power connector hose to the chair suction port. Vacuum Base Step 2 Place the Control Head Hose on an Power empty slot on the tool bar. Adapter Step 3 Connect the Power Vacuum Base onto the vacuum connector hose.

Vac Canister

Power _____

lack

Standard

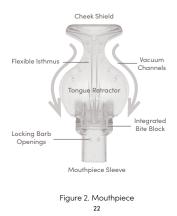
HVE Hose

Power Hose

Figure 1. Installation

Step 4 Plug in the power adapter to a standard 120V wall power source or have a chair technician hardwire using the supplied direct-to-chair connection cable.

Step 5 Plug in the electrical connector to	Step 4 Attach the end of the vacuum	section in the IFU if the light is not solid blue.	Table 1. Control Head LED Status		Table 2. Control Head		Using the Suction Selection		Using The Power Vacuum Base LED Indicator	
the top of the Power Vacuum Base.	connector hose to the chair suction port.	Step 10 Rotate the suction selection dial to	Operation	Action	LED Indicator	Status		ree-way valve to adjust	The LED indicator sh	iows the status of the PVB.
Step 6 Confirm the light on the Power	Step 5 Place the Control Head Hose in an	the desired setting.	Turn light on	Tap Light Button once	Light Button indicator	Light output set to level	suction for your specific chair configuration.			
Vacuum Base is solid blue. Refer to "Using the Power Vacuum Base LED Indicator"	empty slot on the tool bar.	Step 11 Rotate the dial to "All" to enable			LEDs 1, 2 and 3	1, 2 or 3	Tabl	le 3. PVB Icons	Table 4.	PVB LED Status
section in the IFU if the light is not solid blue.	Step 6 Connect the Power Vacuum Base	suction for the Isolite 3 and an attached	Set brightness,	Tap Light Button to cycle	Light Button indicator LEDs pulse	Self-regulating	lcon	Function	LED Indicator	Status
Step 7 Rotate the suction selection dial to	onto the vacuum connector hose.	HVE.	when on only	through brightness levels	LEDS puise	temperature control has automatically	h	Isolite 3 Only	Red	Error
the desired setting.	Step 7 Plug in the power adapter to a	HOW TO OPERATE	Set color output, when off or on	Tap Color Button to cycle between white		lowered the brightness to reduce heat output			Blue	Power to Power
Suction Canister Without Available HVE Port	standard 120V wall power source or have a chair technician hardwire using the supplied	Using the Dual Vacuum Levers		and amber	Color Button indicator	White LED set		Isolite 3 + Accessory		Vacuum Base, Control
Step 1 Unscrew the black screw cap from	direct-to-chair connection cable.	Dual Vacuum Levers adjust suction intensity	Turn light off	Press and hold Light Button	white	WHITE EED SOL		Accessory Only		Head Hose connected
the PVB accessory port.	Step 8 Plug in the electrical connector to	in both the upper and lower quadrants. To	A divert lighting from	ationa la cuaina tha	Color Button indicator	Amber LED set			Green	Power to Power
Step 2 Screw the provided hose barb into	the top of the Power Vacuum Base.	adjust suction, rotate the levers to the desired suction intensity. To shut off suction, rotate the	Adjust lighting functions by using the two-button light control.		amber		X	Off		Vacuum Base, Control Head Hose not
the PVB accessory port.	Step 9 Confirm the light on the Power	levers to the most downward position.	The LED Control Buttons feature LED		Color Button indicator Auto shutdown due red to over temperature.				connected	
Step 3 Remove existing HVE tubing from the	Vacuum Base is solid blue. Refer to "Using	Using the Control Head LED Controls	indicators that show the status of the control head.		ieu	Device ready to restart	Decreased suction may occur when Isolite 3 and Accessory are both in use.			
chair suction port.	the Power Vacuum Base LED Indicator"	-				when red indicator extinguishes.				
15	16	17		18	1	19		20	1	21



Selecting the Mouthpiece To select the correct Mouthpiece size, measure the patient's interincisal opening using your fingers or the Boley Gauge. If between sizes, select the smaller size. Pediatric / Extra Small One Finger (< 30mm) Small Two Fingers (30mm) Medium / Medium DV Three Fingers (30-45mm) Large Four Fingers (> 45mm) Figure 3. The Finger Method

Table 3. Mouthpiece Sizes Mouthpiece Size Approx. Interincisal opening Pediatric (PED) < 30mm Extra Small (XSM) < 30mm Small (SML) 30mm Medium (MED) 30-45mm Medium Deep 30-45mm Vestibule (MDV) Large (LRG) > 45mm Mouthpiece Sizing Method Use your fingers or the Boley Gauge to select the appropriate Mouthpiece size (Figure 3).

For additional assistance, watch a video demonstration online at zyris.com. Attaching the Non-sterile Mouthpiece Slide the Mouthpiece onto the Vacuum Light Pipe until the two locking barbs engage. Water may be used to lubricate the inside surface of the Mouthpiece sleeve to ease attachment. Placina the Mouthpiece

Prior to placing the Mouthpiece within the patient's oral cavity, moisten the Mouthpiece and the patient's lips.

 Step 1 Hold the sides of the Control Head

 with your index finger and thumb. With your

 other hand, fold the Cheek Shield onto the



Step 2

Tongue Retractor. Gently slide the folded Mouthpiece into the buccal vestibule on the side to receive treatment. Angle the Mouthpiece to allow the lower edge of the Tongue Retractor to move along the buccal edge of the teeth.

Step 2 Move the bite block onto the occlusal surface of the teeth, just distal to the mandibular cuspid. Instruct the patient to "rest gently" on the bite block to secure. Step 3 Place the Cheek Shield into the buccal vestibule. Move the Isthmus onto the retromolar pad behind the maxillary tuberosity. Adjust the Tongue Retractor in the lingual vestibule as needed. Move the bite block distally to provide more vertical

working room.

DISINFECTION, CLEANING AND STERILIZATION

Surface Disinfection of the Control Head Hose

Zyris recommends performing a surface disinfection of the Control Head Hose between each patient. To disinfect the Control Head Hose, first remove the Vacuum Light Pipe.

Following the manufacturer's instructions for contact time, use an intermediate level disinfectant wipe with a claim to inactivate Mycobacterium tuberculosis. Otherwise, use a hospital grade disinfectant on all surfaces of the Control Head and the Control Head Hose to remove all visible biomatter and debris.

Do not submerge the Control Head Hose.



Figure 4, 5, & 6, Mouthpiece Placement

Cleaning and Sterilization of the Isolite 3 Vacuum Light Pipe Zyris recommends sterilization of the Isolite 3 Vacuum Light Pipe between each patient. Table 4. Validated Sterilization Cycles				Remove biomatter and other debris from the suction channels using a brush with a		
				neutral pH (6.5-7.5) enzymatic cleaning solution. Do not use solution to hold parts. After cleaning, rinse with tap water, dry and place components in an autoclave pouch to		
lable 4	. Validated St	erilization	Cycles	be sterilized in a steam autoclave. Use		
Cycle	Temperature	Minimum	Minimum	validated sterilization cycles (Table 4).		
		Exposure Time	Drying Time	MAINTENANCE		
Standard	121 °C / 250 °F	30 min	30 min	Control Head Hose and Power Vacuum		
Standard	126 °C / 259 °F	10 min	30 min	Base Internal Surfaces		
Standard	132 °C / 270 °F	15 min	15 min	Cleaning the inside of the Control Head Hose and Power Vacuum Base regularly is		
Prevacuum	132 °C / 270 °F	4 min	20 min	needed to prevent the accumulation of		
Prevacuum	134 °C / 273 °F	3 min	20 min	biofilm. To clean the inside of the Control Head Hose and Power Vacuum Base, first		

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nove the VLP if attached and connect the eaning Tip to the Control Head. Next, attach e end of the cleaning tip to a portable or airside cleaning canister. Actuate the iction levers by drawing the dental hose eaner through the hose per the anufacturer's instructions. The vacuum ose cleaner should be nonfoaming, eodorizing, antimicrobial, and able to issolve organic debris. Most enzymatic eaners with a pH between 6 and 8 are cceptable. If further disinfection is necessary. onsult your vacuum manufacturer for commendations. When complete, remove ne Cleaning Tip and place in an autoclave ag for storage until the next cleaning. ontrol Head Hose Levers must be in place during the suction of cleaning fluid.

t the Control Head Hose Levers

The Vacuum Lever o-rings require weekly lubrication to operate at peak efficiency. Before removing the levers, rotate the dial on the Power Vacuum Base to the "X" to shut off the suction. To remove the Vacuum Levers, push the levers to the "on" position and keep pushing gently until each lever pops out or gently pry them out. Apply Dow 111 Lubricant supplied in the O-Ring Maintenance Kit to the o-ring.

Reattach the Vacuum Levers to the Control Head Hose.

Power Vacuum Base

The Power Vacuum Base Dial may require cleaning, depending on the frequency of

use. To remove the dial, rotate clockwise past the "X" position to the eject "▲" position and pull it out of the Power Vacuum Base. Remove biomatter and other debris from the dial and suction channels using a brush with a neutral pH (6,5-7,5) enzymatic cleaning solution. After cleaning, rinse with tap water, dry and replace the dial.

The Power Vacuum Base dial o-ring may require lubrication, depending on the frequency of use. To remove the dial, rotate clockwise past the 'X' position to the eject *▲' position and pull it out of the Power Vacuum Base. Apply the Dow 111 Lubricant supplied in the O-Ring Maintenance Kit to the o-ring. Re-insert the dial to the Power Vacuum Base. The central suction system

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should be turned off to remove dial for maintenance or open the HVE tip to relieve the suction from the dial.

AWARNING: Shock hazard if incorrect power supply is used. Only use the power supplies provided with your Isolite 3 device. Use of other power sources may damage electronics and voids your product warranty. The Power Vacuum Base power input requirement is 12 VDC / 24VAC, 10 amp. **AWARNING:** Mouthpieces are single use

only. Re-use can result in the transmission of

infectious pathogens. Mouthpieces must be

discarded after use. Mouthpieces cannot be safely resterilized after use.

WARNING: Do not use if the individual Mouthpiece package has been damaged or opened.

▲WARNING: Be sure to use established protocols and patient monitoring when using the Mouthpiece in conjunction with sedation dentistry. Patient management by a certified anesthesiologist is strongly recommended.

PRECAUTIONS

CAUTION: When performing dental procedures requiring high levels of blood evacuation, it is recommended that the Mouthpiece be intermittently flushed with water to prevent coagulation in the Mouthpiece to avoid loss of suction and light transmission.

CAUTION: With regular use, cleaning, and maintenance, the device is designed to last for years. Check the device for wear prior to use to make sure that it is adequate for use.

CAUTION: Do not block access to the Power Adapter. The Power Adapter should be easily accessible so that it can be unplugged from the wall outlet if necessary.

CAUTION: To avoid electrical shock, the use of an extension cord with the Power solution or use ultrasonic cleaners. Adapter is not recommended. **CAUTION:** Failure to maintain properly

CAUTION: Do not crimp or fold the Power lubricated o-rings can result in damage to Hose to shut off suction. Internal damage to the Isolite 3 device that is not covered by the Power Hose wiring may occur. product warranty.

CAUTION: The Control Head Hose and Power Vacuum Base contain sensitive 15 of the FCC rules. Operation is subject to electronics and require special care and the following two conditions: (1) this device handling. Do not submerse, autoclave, may not cause harmful interference, and (2) chemclave or place in ultrasonic cleaner. this device must accept any interference received, including interference that may ACAUTION: Do not autoclave the Vacuum cause undesired operation. Light Pipe at temperatures above 135 °C; higher temperatures could damage components and void your product warranty.

CAUTION: Do not hold Control Head

Hose or Power Vacuum Base in cleaning DATA COLLECTION

> Zyris would like your help improving the quality of our products by automatically collecting and sending anonymous usage data from your Isolite 3 to Zyris.

Usage data collected includes internal **CAUTION:** This device complies with Part temperature, device position, light color, and light level. No patient or account information is recorded or transmitted.

> Zyris does not share this information with any third parties under any circumstances.

If you would prefer to opt-out of sending usage data from your device, please visit Zyris.com/i3-optout.

GUIDE TO SY	MBOLS	
STEMLE	\triangle	\otimes
Non-sterile	Caution	Do not re-use
-@+	Ĩ	\$
Positive polarity	Consult Instructions for Use	Do not use if package is damaged
*	М	
Type B applied part electrical hazard	Date of manufacture	Manufacturer
hazard		∫⁄ 30°C
	REF	15°C -

LIMITED 1-YEAR WARRANTY

zyris.com/success

Zvris warrants this product to be free from defects in material and workmanship for a period of one year from the date of original purchase. If the product exhibits such a defect. Zvris will, at its option, repair or replace it without costs for parts and labor. The product must be returned by the customer to Zvris in accordance with current Return Material Authorization procedures. Proof of date of original purchase may be required. This warranty does not cover finishes or normal wear. nor does it cover damage resulting from accident. misuse, dirt, tampering, unreasonable use, failure to provide reasonable and necessary maintenance, service performed or attempted by unauthorized individuals or service agencies, or devices that have been otherwise modified. All implied warranties, including any implied warranty or merchantability or fitness for any particular purpose, are limited in duration to one year from the date of receipt of the product. In no event will Zvris be responsible for consequential damages resulting from the use of this product. Instructions for Use may also be found at:

Zyris™, Inc. 6868A Cortona Drive Santa Barbara, CA 93117

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