



Dental Handpiece Maintenance Device

Lubricare 2

INSTRUCTIONS FOR USE





EN DE **FR** Before using the product, please read the In-Lesen Sie vor dem Gebrauch des Produkts Avant d'utiliser le produit, veuillez lire attenstructions for Use carefully. You can download die Bedienungsanleitung sorgfältig durch. tivement le mode d'emploi. Vous pouvez le Diese können Sie unter folgendem Link herun télécharger sur Internet: it on the internet: www.bienair.com/support/download-center/ www.bienair.com/support/download-center/ www.bienair.com/support/download-center/ If you have any difficulty accessing the docu-Si vous rencontrez des difficultés pour acment or would like to request a printed copy, Sollten Sie Probleme beim Zugriff auf das céder au document ou si vous souhaitez en you can order one - free of charge - by con-Dokument haben oder eine gedruckte Verdemander une copie imprimée, vous pouvez tacting one of Bien-Air subsidiary (see phone sion bevorzugen, können Sie diese bei einer en commander une gratuitement en contacnumbers at the back cover of the Instructions Niederlassung von Bien-Air oder über die tant l'une des filiales de Bien-Air ou le siège Bien-Air-Zentrale in der Schweiz kostenfrei for Use). social de Bien-Air en Suisse (voir numéros de bestellen. Die Telefonnummern finden Sie auf téléphone au dos du mode d'emploi). The printed copy of the instruction for use will der Rückseite der Bedienungsanleitung. be provided within a maximum of 5 working La copie imprimée du mode d'emploi sera Die Druckversion erhalten Sie dann innerhalb fournie dans un délai maximum de 5 jours von fünf Werktagen ouvrables Note: The Instructions for Use may be revised from time to time. Please refer to Bien-Air web Hinweis: Die Bedienungsanleitung wird von Zeit zu Zeit überarbeitet. Auf der Website von Remarque: Le mode d'emploi peut être révisé page for the most recent version. de temps à autre. Veuillez vous référer à la Bien-Air finden Sie immer die aktuelle Version page Web de Bien-Air pour la version la plus récente **ES** IT RU Prima di utilizzare il prodotto, leggere at-Antes de utilizar el producto, lea atentamente Перед использованием изделия tentamente le istruzioni per l'uso. È possibile las instrucciones de uso. Puede descargarlas внимательно прочтите Инструкцию по scaricarle su internet: эксплуатации. Ее можно загрузить из интернета: www.bienair.com/support/download-center/ www.bienair.com/support/download-center/ www.bienair.com/support/download-center/ Nel caso si riscontrino difficoltà nell'accedere Si tiene alguna dificultad para acceder al docal documento o si desideri una copia cartacea, umento o quiere solicitar una copia impresa, Если у вас возникнут сложности с доступом è possibile ordinarla gratuitamente contatpuede pedirla de manera gratuita poniéndose к документу или вы захотите заказать tando una filiale Bien-Air o la sede centrale en contacto con una de las filiales de Bien-Air напечатанный экземпляр (бесплатно), di Bien-Air in Svizzera (consultare i numeri di o con la sede de Bien-Air en Suiza (consulte обращайтесь в одну из дочерних компаний telefono sul retro della copertina delle istruzilos números de teléfono en la cubierta trasera Bien-Air или в главный офис Bien-Air в oni per l'uso). de las instrucciones de uso). Швейцарии (номера телефонов приведены на задней странице обложки Инструкции по La copia cartacea delle istruzioni per l'uso La copia impresa de las instrucciones de uso эксплуатации). sarà fornita entro un massimo di 5 giorni se proporcionará en un plazo máximo de 5 días laborables. Напечатанный экземпляр Инструкции по эксплуатации будет предоставлен в течение Nota: Le istruzioni per l'uso possono essere Nota: Las instrucciones de uso pueden максимум 5 рабочих дней. revisarse periódicamente. Consulte la página revisionate di volta in volta. Fare riferimento alla pagina web Bien-Air per la versione più web de Bien-Air para ver la versión más reci-Примечание. Инструкция по эксплуатации recente может время от времени пересматриваться ente Новейшая версия будет опубликована на веб-странице Bien-Air. PL ZH 使用本产品之前,请仔细阅读使用说明书。您 Przed przystąpieniem do użytkowania produktu należy uważnie zapoznać się z Instruk-可以通过以下网址进行下载: cją użytkowania. Instrukcję można pobrać ze www.bienair.com/support/download-center/ 如果您获取该文档有困难或希望索取印刷版, www.bienair.com/support/download-center/ 则只需联系任意 Bien-Air 子公司或位于瑞士的 W przypadku trudności w dostępie do doku-Bien-Air 总部(电话号码位于使用说明书的封

底),即可免费获取。

版本, 请访问 Bien-Air 网站。

印刷版的使用说明书将在最多5个工作日内提

注意:使用说明书可能会不时修订。如需最新

mentu lub w celu zamówienia (darmowego)

taktować się z jednym z oddziałów Bien-Air (numery telefonów podano na tylnej okładce

Drukowany egzemplarz instrukcji zostanie dostarczony w ciągu maksymalnie 5 dni robo

Uwaga: Od czasu do czasu Instrukcja użytkowania może być poddawana modyfikacjom. Najnowsza wersja dostępna jest na stronie

drukowanego egzemplarza należy skon-

Înstrukcji użytkowania).

internetowej Bien-Air.

Thank you for purchasing the Lubricare 2, dental handpiece maintenance device.

For optimum safety and performance as well as to avoid causing harm to people, read this manual thoroughly before using the device and pay close attention to warnings and cautions.

Keep this manual in a readily accessible place for quick and easy reference.

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1 Accident Prevention

1.1 Customers

Make sure to obtain clear instructions concerning the various ways to use this device described in this accompanying

Fill out and sign the warranty form and give the dealer from whom you purchased the device a copy.

1.2 Dealers

Be sure to give clear instructions concerning the various ways to use this device described in this accompanying manual.

After instructing the customer how to operate the device, have the customer fill out and sign the warranty form. Then fill in your own section of the warranty form and give the customer their copy. Be sure to send the manufacturer's copy to Bien-Air Dental SA OFFICE.

1.3 Preventing Accidents

Most operation and maintenance problems result from insufficient attention to basic safety precautions and not being able to foresee potential accidents.

Problems and accidents are best avoided by anticipating potential dangers and operating the device in accordance with the manufacturer's recommendations. First, thoroughly read all precautions and instructions pertaining to safety and accident prevention. Then operate the device with the utmost caution to prevent either damaging the device itself or causing bodily injury.

If an accident occurs, the Lubricare 2 must not be used until repairs have been completed by a qualified and trained technician authorized by the manufacturer.

The following symbols and expressions indicate the degree of danger and harm that could result from ignoring the corresponding instructions:



/\ WARNING

This alerts the user of the possibility of extremely serious injury or complete destruction of the device, as well as other property damage including the possibility of fire.

CAUTION

This alerts the user of the possibility of minor or moderate injury or damage to the device.

This refers to mandatory actions and procedures that are required to prevent damage to the device.

The user (e.g., healthcare facility, clinic, hospital, etc.) is responsible for the management, maintenance and use of medical devices.

This device must not be used by anyone other than dentists, doctors, or other legally licensed professionals.

Do not use the Lubricare 2 for purposes other than lubrication and flushing as part of handpiece maintenance.

* The term "flushing", as used in this manual, means ejecting and removing cutting debris and foreign objects from inside the handpiece.

1.4 Disclaimers

- Bien-Air Dental SA will not be responsible for accidents, product damage, or bodily injury resulting from:
 - (1) Repairs made by personnel not authorized by Bien-Air Dental SA.
 - (2) Any changes, modifications, or alterations of its products.
 - (3) The use of products made by other manufacturers, except for those procured by Bien-Air Dental SA.
 - (4) Maintenance or repairs using parts or components other than those specified by Bien-Air Dental SA or other than in their original condition.
 - (5) Operating the device in a manner other than described in the operating procedures in this manual or in a manner inconsistent with the safety precautions and warnings in this manual.
 - (6) Workplace, environmental, or installation conditions that do not conform to those stated in this manual, such as an improper electrical power supply.
 - (7) Fires, earthquakes, floods, lightning, natural disasters, or forces majeure.
- Bien-Air Dental SA will offer replacement parts and service for the product for a period of 10 years after the manufacturing of the product has been discontinued. Replacement parts and service will continue to be available during that period.
- The useful life of the Lubricare 2 is 5 years from the date of installation provided it is regularly and properly inspected and maintained.

1.5 In Case of Accident

If an accident occurs, the Lubricare 2 must not be used until repairs have been completed by a qualified and trained technician authorized by the manufacturer.

For customers who use the Lubricare 2 in the EU:

If any serious incident occurs in relation to the device, report it to a competent authority of your country, as well as the manufacturer through your regional distributor. Observe relevant national regulations for detailed procedures.

2 Precautions

⚠ WARNING

- Do not modify the device.
- Do not place anything on top of the device.
- Do not use the device near open flames or any place where it will be subjected to high temperatures. Doing so could cause the spray cans installed to catch fire or explode.
- Never touch the power supply cord or Power Switch with a wet hand. There is a danger of an electric shock.
- · In case of lightning, stop using the device immediately and do not touch the unit or connected power cord to avoid the risk of electric shock.
- The device must be Installed and operated in a well-ventilated location.
- · If you find any abnormality of the device (smoke, burning smell, etc.), turn the power off and disconnect the power cord plug from the power outlet immediately. Then contact your local dealer or Bien-Air Dental SA OF-FICE.
- To prevent infection, always wear appropriate personal protective equipment such as surgical gloves when using or cleaning the device.

↑ IMPORTANT PRECAUTIONS

These precautions are especially critical for safe operation and use.

- Do not use the wireless transmission devices listed below in the patient examination area. Electromagnetic interference from such devices could cause the Lubricare 2 to malfunction. All devices which transmit electromagnetic waves in the examination area should be turned off.
 - (1) Mobile phones and smart devices.
 - (2) Wireless transmitting devices such as ham radios, walkie-talkies, and transceivers.
 - (3) Personal Handy-phone System (PHS)
 - (4) Routers for intra-building paging systems, wireless LANs, analog cordless telephones, and other electric wireless devices.
- Electromagnetic emissions produced by electric scalpels, lighting equipment, or other devices being used nearby could adversely affect the Lubricare 2 operation.
- The device cannot be used for air bearing handpieces.

CAUTION

• If the device will not be used for a while, unplug the power cord plug from power outlet and close the air supply valve.

Rx Only Prescription Device

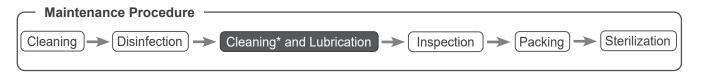
CAUTION: Federal law restricts this device to sale by or on the order of a dentist. (Valid only for U.S.A.)

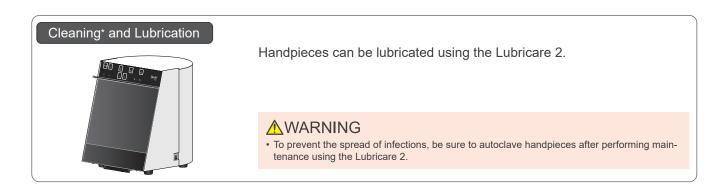
3 Intended Use and Usage Flow

Intended Use

The Lubricare 2 is for lubricating and cleaning the inside of dental instruments.

Usage Flow





- * The term "cleaning" used in this manual refers to an internal cleaning of the handpiece with SPRAYNET that is manufactured by Bien-Air Dental SA.
- * SPRAYNET is used only for cleaning; do not use it as a lubricant.

4 Components

Main Unit

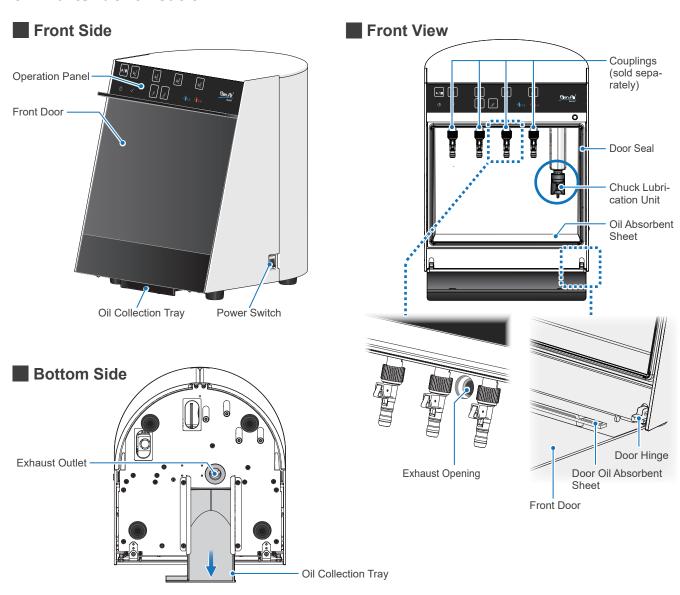


■ Accompanying Items (Parts of Device and Consumables)

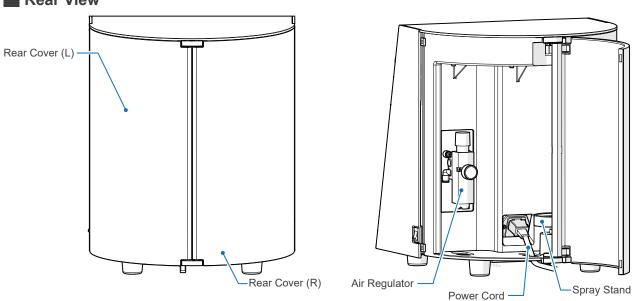
Oil Absorbent Pad (Qty: 1)	Oil Absorbent Sheet (Qty: 1)	Spray Stands (Qty: 2)
	ע ע	
Power Cord (Qty: 1)	Air Tube (Qty: 1)	Door Oil Absorbent Sheet (Qty: 1)
* Cord type and plug shape depend on your country or region.		
Front Door Sheet Stopper (Qty: 1)	LS Coupling (Qty: 4)	Power Cord (only for U.S.A and Canada) (Qty: 1)

5 Parts Identification and Function

5.1 Parts Identification

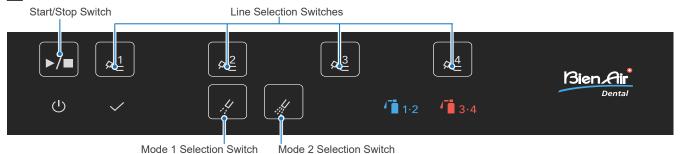


Rear View



5.2 Operation Panel: Name and Function of Switches and Indicator Lamps

Switches



Start/Stop Switch



Press this switch to start or stop cleaning or lubrication.

Line Selection Switches



Select desired line(s) from Line 1 through 4, for handpiece maintenance.

Mode 1 Selection Switch



Press this switch to select Mode 1 when connecting handpieces recommended for Mode 1.

Mode 2 Selection Switch



Press this switch to select Mode 2 when connecting handpieces recommended for Mode 2.

5.2.1 Recommended Mode

Depending on the type of handpiece, you can choose from two modes. Each mode has different settings for oil usage and blowing out (idle running) time.

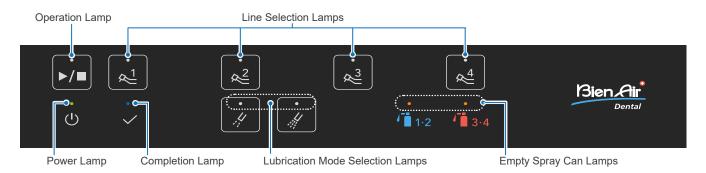
The initial settings for lines 1 to 4 are set for Mode 1. Use the chart below as a reference for changing the settings as necessary.

p. 28 "7.3.5 Switching Maintenance Mode"

	Recommended Mode			
	Spraynet/Lubrifluid	Only for Lubrifluid use		
Handpiece Type	Mode 1 (Operating Time: 20 sec/handpiece)	Mode 1 (Operating Time: 20 sec/handpiece)	Mode 2 (Operating Time: 40 sec/handpiece)	
Air Turbine Handpiece	\checkmark	\checkmark		
Straight Handpiece	\checkmark	\checkmark		
Contra Angle Handpiece: Speed Reduction Model	\checkmark	\checkmark		
Contra Angle Handpiece: Constant Speed Model	\checkmark	\checkmark		
Contra Angle Handpiece: Speed Increasing Model	\checkmark		\checkmark	

^{*} You can select and perform maintenance with Mode 2 for the handpieces recommended for Mode 1, but it may remain excess oil inside the handpiece when the maintenance is completed.

Indicator Lamps



Power Lamp



This lights up when the Power Switch is turned on.

Completion Lamp



This lights up when handpiece cleaning or lubrication is completed.

Lubrication Mode Selection Lamps



The corresponding lamps will light up based on the selected lines.

Operation Lamp



This lights up when handpiece lubrication is in progress.

Line Selection Lamps



Each lamp lights up when the corresponding line is selected. When performing the lubrication, the corresponding line lamp will blink.

When the front door opens during operation, all the line lamps will light up.

Empty Spray Can Lamps



Each lamp blinks if the corresponding line's air pressure does not reach the rated value.

p.13 "6.1.2 Air Tube"

Each lamp blinks when the corresponding spray can becomes empty during operation.

p.17 "6.2.2 Spray Cans"

Each lamp lights up when any abnormalities occur in the cleaning or lubrication lines.

p.35 "9 Troubleshooting"

6 Setup

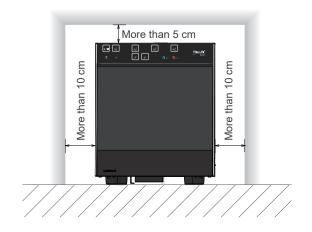
6.1 Main Unit

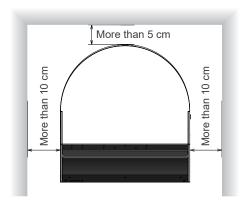
6.1.1 Installation

Install the main unit with at least the clearance shown below provided around the unit.

Front View







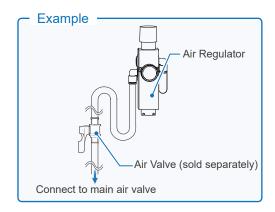
MARNING

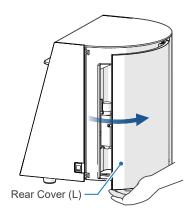
- To prevent infection, always wear appropriate personal protective equipment such as surgical gloves, when using or cleaning the device. Then have the personal protective equipment disposed of appropriately.
- Do not use the device near open flames or any place where it will be subjected to high temperatures. Doing so could cause the spray cans installed to catch fire or explode.
- Install the main unit in a well-ventilated place and ventilate it regularly.

ACAUTION

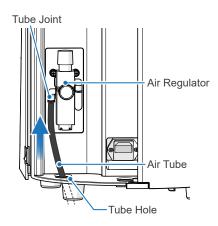
- Place the device on a level and stable surface. Otherwise, there is a risk of tipping over or falling.
- Make sure that the power cord and air tube are not under tension. Otherwise, it could cause a malfunction.
- * Provide sufficient space around the power outlet so that you can plug/unplug the power cord plug properly.

6.1.2 Air Tube

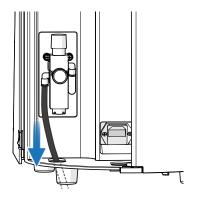




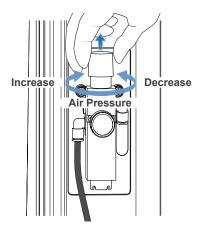
1. Open the rear cover (L).



- 2. Pass the air tube through the tube hole and insert the tube into the tube joint firmly.
 - Connect the other end of the air tube to the main air valve.
- Use compressed dry air that does not contain debris or oil. Otherwise, it could cause a malfunction.
- Insert the air tube all the way into the tube joint. Otherwise, the air tube could be disconnected while air is supplied.
- Use only the air tube that comes with the Lubricare 2. Any other tube might become disconnected unexpectedly.



- 3. Give the air tube a light tug to make sure it is properly connected. Then supply air by opening the main air valve.
- Do not give the air tube a hard pull. Otherwise, the unit may tip over.
- 1 Make sure that the air tube is not bent or broken. Otherwise, it could cause a malfunction.



- 4. Pull up the adjustment dial of the air regulator and then rotate it to adjust the air pressure between 0.3 MPa and 0.5 MPa.
 - * Recommendation: 0.4 MPa

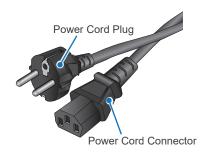
WARNING

 Set the input air pressure at 0.7 MPa or less. Otherwise, there is a risk of bursting the air tube.

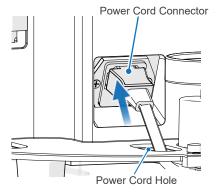
ACAUTION

- Oil mist may occur depending on the type of handpieces and couplings. If so, lower the air pressure to 0.3 MPa.
- Do not set the air pressure less than 0.3 MPa. It could cause a malfunction.
- Do not set the air pressure more than 0.5 MPa. It also could causes a malfunction.

6.1.3 Power Cord



* Cord type and plug shape depend on your country or region.



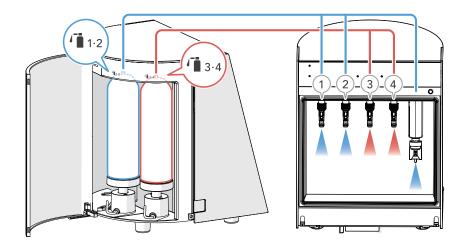
- 1. Pass the power cord connector through the power cord hole and connect the connector.
- 2. Plug the power cord plug into the power outlet.

WARNING

- Never touch the power cord with a wet hand. You could get an electric shock.
- Be sure to use the ground connection. Otherwise, there are risks of fire or electric shock if the Lubricare 2 malfunctions or electric leakage occurs.
- When connecting the power cord, connect the power cord connector to the unit first and then connect the power cord plug to the power outlet.
- Make sure the power cord connector is inserted all the way in. Otherwise, it could cause
- Hold the connector itself when you connect/disconnect the power cord. Holding the cord could cause a broken connection or a malfunction.

6.2 Spray Cans

Spray Cans and Cleaning and Lubrication Lines





Set the spray can "LUBRIFLUID" onto the spray stand for Lines 1 & 2 and the chuck lubrication unit.



Set the spray can "SPRAYNET" onto the spray stand for Lines 3 & 4.

MARNING

• To prevent infection, always wear appropriate personal protective equipment such as surgical gloves, when using or cleaning the device.

■ Maintenance Spray

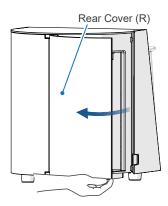
The Lubricare 2 can use cleaning mode by using dedicated cleaning sprays (e.g., SPRAYNET).

The Lubricare 2 can be used with sprays other than those made by Bien-Air Dental SA. To do this the stand for the spray can and the coupling must be replaced.

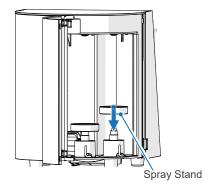
^{*} SPRAYNET is used only for cleaning; do not use it as a lubricant.

6.2.1 Spray Stands

Setting



1. Open the rear cover (R).



2. Depending on a spray can's volume, the correct orientation of the spray stand differs.

Check the spray can volume and make sure the protrusion hub in the middle of the spray stand is correctly facing up or down, depending on the spray can as shown in the table below, and then set it straight down.

Top Surface (Facing Up)

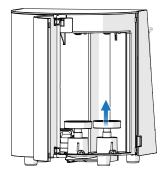


Bottom Surface

(Facing Down)



Removing



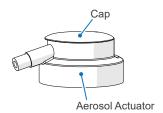
To replace the spray stand, remove the old stand by pulling it straight up and then install the new one by setting it straight down.

MARNING

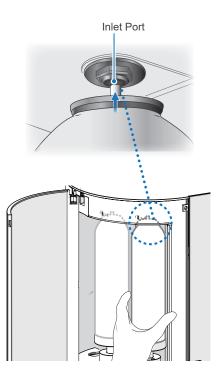
• Use a spray stand corresponding to each spray can.

6.2.2 Spray Cans

Setting



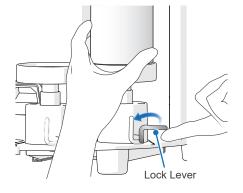
* Remove the cap and aerosol actuator from the spray can.



1. Open the rear cover (R), and then insert the tip of the spray valve stem into the inlet port.

ACAUTION

• Do not press the tip of the spray valve stem with anything other than the inlet port. Otherwise, oil might spray out into your eyes.

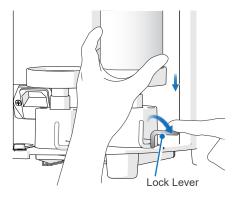


- 2. Hold the spray can with your hand and raise the lock lever in the counterclockwise direction.
 - Check that the spray can is not loose vertically.
- * If it is loose, readjust it. 🖙 p. 18 "6.2.3 Spray Stand Adjustment"



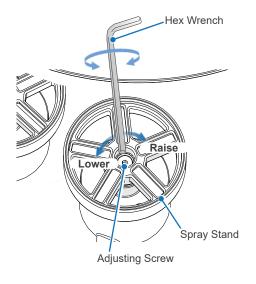
- If a spray can is tilted or is otherwise not set correctly, oil might spray out into your eyes.
- Never use any cleaning sprays for air bearing handpieces. Doing so will damage the Lubricare 2 and handpieces.
- 1 Make sure the lock levers are all the way up. Otherwise, improper connection results in not supplying oil. (The corresponding Empty Spray Can Lamp will light up.)

Removing



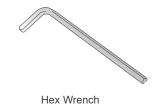
- 1. Turn the lock lever down in clockwise direction.
- Check that the lock lever is horizontal, and then remove the spray can.
- * If the spray can is still connected to the inlet port, pull the can straight down.

6.2.3 Spray Stand Adjustment



If the spray can is loose vertically even when the lock lever is properly raised, or if the lock lever cannot be raised, you need to remove the spray can and adjust the height of the spray stand.

To adjust the height, rotate the adjusting screw located in the center of the spray stand with a hex wrench.



6.3 Couplings

Right

Wrong

Couplings for the Lubricare cannot be used for the Lubricare 2.





Lubricare 2 Couplings

Lubricare Couplings

CAUTION

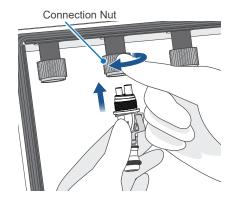
- For handpieces from other manufacturers, use the optional couplings designed specifically for the Lubricare 2 or genuine couplings of your dental treatment unit.
- Do not use couplings made for other manufacturers' maintenance devices. Doing so could result in releasing oil mist or poor handpiece maintenance.

Attaching





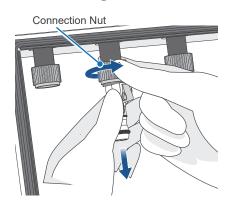
- Open the front door and check that mode setting and coupling type are matched. Set the coupling's thick pipe to the right side and insert the coupling into the connector.
 - p. 10 "5.2.1 Recommended Mode"



- 2. Push the coupling against the connector with one hand, and pull down the connection nut with the other hand and tighten it in the arrow direction shown in the illustration.

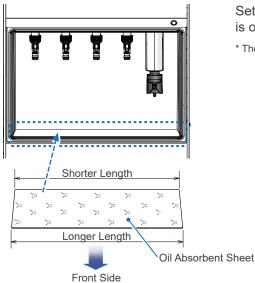
 Give a little liggle to the coupling and check that it is securely con-
 - Give a little jiggle to the coupling and check that it is securely connected.
- Do not tighten the connection nut with pliers or other tools. This will damage the coupling.
- * If you cannot tighten the connection nut smoothly, loosen it and try again.
- * Tighten the connecting nut firmly by hand. Otherwise, oil and air will leak and the maintenance will not be properly performed.

Removing



Push the coupling against the connector with one hand, and loosen the connection nut with the other hand in the arrow direction shown in the illustration.

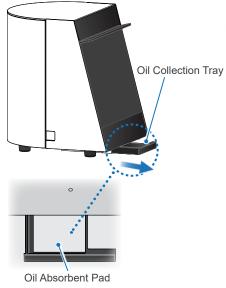
6.4 Oil Absorbent Sheet



Set an oil absorbent sheet in the unit. Check that the longer direction is oriented towards the front side of the unit.

* The sheet can be installed either way up.

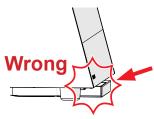
6.5 Oil Collection Tray and Oil Absorbent Pad



Pull out the oil collection tray, set an oil absorbent pad into it, and then put it back all the way in.



Oil collection tray is inserted correctly.

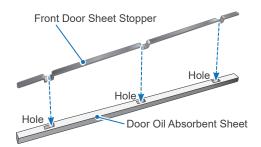


Oil collection tray is not properly inserted.

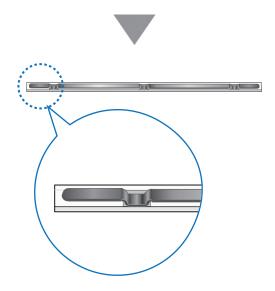
ACAUTION

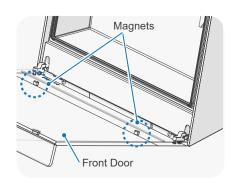
 Make sure that the oil collection tray is inserted all the way in. Otherwise, the front door cannot be closed properly and oil mist might spray out into your eyes.

6.6 Door Oil Absorbent Sheet and Front Door Sheet Stopper

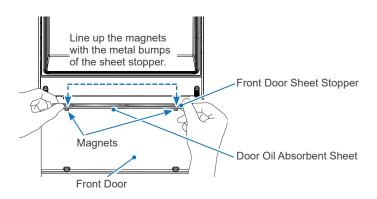


1. Insert the front door sheet stopper into the door oil absorbent sheet with the bumps on the front door sheet stopper aligned with the holes on the door oil absorbent sheet.





2. Line up the magnets from the front door with the metal bumps on the sheet stopper, so that the door oil absorbent sheet can be set in place.



7 Usage

7.1 Operating, Transport and Storage Environments

Operating Environments:

Temperature: +10°C to +40°C (+50°F to +104°F) Humidity: 30% to 75% (without condensation) Atmospheric Pressure: 70 kPa to 106 kPa

■ Do not expose the device to direct sunlight for an extended period of time.

■ If the device has not been used for some time, make sure it works properly before using it again.

Transport and Storage Environments:

Temperature: -10°C to +50°C (+14°F to +122°F) Humidity: 10% to 85% (without condensation) Atmospheric Pressure: 70 kPa to 106 kPa

■ Do not transport or store the device with spray cans installed.

7.2 Maintenance Categories

Maintenance categories for the Lubricare 2 are shown in the table below.

p. 28 "7.3.5 Switching Maintenance Mode"

		Applications p.10			
Maintenance Category	Purpose	Air Turbine Handpiece, Micromotor Attachment (speed reduc-	Micromotor Attachment (speed increase)	Total Operating Time	Basic Operations
		tion and constant speed)			
Chuck Lubrication* (daily use)	Chuck maintenance performed before handpiece body lubrication.	✓	√	Approx. 4 sec	© p. 25 "7.3.3 Chuck Lubrica- tion"
Handpiece Body Cleaning & Lubrica- tion (daily use)	Mode 1 (Recommended for Lubrifluid & Spraynet)	✓	V	Approx. 20 sec/ handpiece	p. 26 "7.3.4 Handpiece Body Lubrication"
	Mode 1 (Only for Lubrifluid)	✓		Approx. 20 sec/ handpiece	
	Mode 2 (Only for Lubrifluid)		✓	Approx. 40 sec/ handpiece	
Flushing (as necessary)	When black colored oil comes from the handpiece.	✓	✓	Approx. 80 sec/ handpiece	© p. 29 "7.4.2 Flushing Mode"
Air Blow (as necessary)	To remove water and excess oil inside the handpiece.	√	✓	Approx. 30 sec/ handpiece	© p. 29 "7.4.1 Air Blow Mode"

^{*} For handpieces which are manufactured by Bien-Air Dental SA, chuck lubrication should be performed only for air turbine handpieces and contra angle handpieces (speed increasing model). Performing chuck lubrication on handpieces other than these may result in excessive oil seeping from the connection parts and the handpiece head.

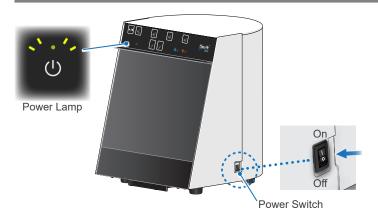
For other manufacturers' handpieces, follow the recommendations in their included user manual.

7.3 Basic Operation

Be sure to check the following points before using the Lubricare 2.

- Is the air pressure setting between 0.3 MPa and 0.5 MPa? (Recommendation: 0.4 MPa)
- Does each coupling have proper O-rings?
- · Are all connection nuts for couplings properly secured?

7.3.1 Turning Power On/Off



On the right side of the unit, turn the Power Switch on (|).

The Power Lamp lights up in green.

After use, turn the Power Switch off (\bigcirc)

The Power Lamp will go out.

ACAUTION

- · Be sure to turn the Power Switch off after use.
- If the device will not be used for a while, unplug it and close the main air valve.
- If the device has not been used for some time, be sure to check that it works properly before using it again.

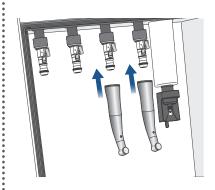
7.3.2 Handpiece Body Cleaning

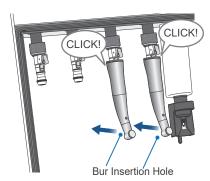
The initial settings for lines 1 to 4 are set for Mode 1. Check the handpiece type and change the mode as necessary.

p. 10 "5.2.1 Recommended Mode"

p. 28 "7.3.5 Switching Maintenance Mode"

1 Attaching Handpieces





Face the bur insertion hole to the unit side.



Perform handpiece internal cleaning with the SPRAYNET can set onto the spray stand for Lines $3\ \&\ 4$.

Handpiece must be attached to the coupling for Line 3 or 4.

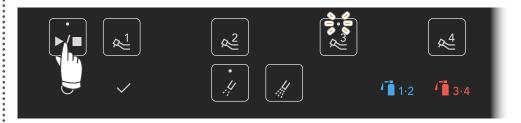
- 1. Attach handpieces to the coupling with the bur insertion hole facing toward the back. Insert the handpiece all the way in until you hear a clicking sound.
- If the bur insertion hole is facing the front door, it will likely scatter more oil during the maintenance and increasingly build up excess oil on the handpiece after the maintenance. Also, the front door will tend to get dirtier.
- Insert the handpiece all the way in until it clicks into place. Otherwise, the handpiece could come off during the lubrication.
- If you find any damages on the coupling O-rings, replace them with new ones immediately. Otherwise, handpieces cannot be connected properly.
 p. 34 "8.3.5 Coupling O-rings"
- For micromotor attachments (straight or contra angle handpieces), some should have a bur inserted during lubrication and some should not. Refer to the user's manual that comes with the handpiece.
- 2. Give a little jiggle to the handpiece and check that it is securely connected.
- Close the front door after attaching the handpieces to appropriate lines.
- * Be sure to close the front door. Otherwise, the lubrication process will not start.

2 Starting Cleaning



1. Press the desired Line Selection Switches for handpiece maintenance.
The corresponding lamps will light up based on the selected lines.
(Example: The illustration above shows that Mode 1 is selected for Line 3.)

To cancel the line selection, press the Line Selection Switch again. The Line Selection Lamp will go out.



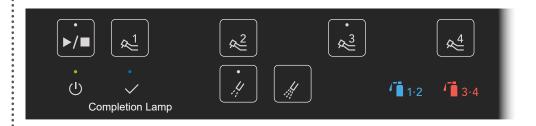
2. Press the Start/Stop Switch.

The Line Selection Lamp for the current cleaning process will blink, and the lamps for the reserved lines will light up.

Press the Start/Stop Switch again to stop the process.

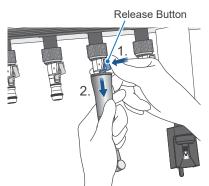
ACAUTION

- Do not press the Start/Stop Switch after selecting a Line that the handpiece is not connected. Otherwise, oil mist might spray out into your eyes.
- Never remove the spray can during the operation. This will result in oil leakage and malfunction.
 - * Do not open the front door during cleaning. This will immediately stop the process.



Detaching Handpieces





Check that the Completion Lamp is lit, and then open the front door.



Completion Lamp

Micromotor Attachments

Hold the attachment with one hand, push the release button with the other, and pull the attachment out.

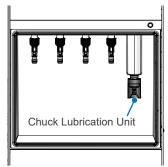
Wipe excess oil from the handpiece with a soft cloth or gauze after the maintenance.

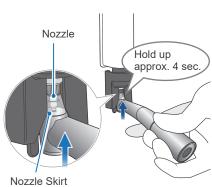
ACAUTION

- Be careful not to injure your fingers from hitting them against the front door when detaching the handpieces.
- Wipe excess oil on the handpieces with a soft cloth or gauze, so as not to damage the handpiece surface.

7.3.3 Chuck Lubrication







* For handpieces which are manufactured by Bien-Air Dental SA, chuck lubrication should be performed only for air turbine handpieces and contra angle handpieces (speed increasing model). Performing chuck lubrication on handpieces other than these may result in excessive oil seeping from the connection parts and the handpiece head.

For other manufacturers' handpieces, follow the recommendations in their included user manual.

- 1. Open the front door.
- 2. Line up the nozzle tip of the chuck lubrication unit with the handpiece bur insertion hole, and then insert the nozzle into the handpiece chuck.

Lift the handpiece straight up to start chuck lubrication.

Hold it up for approximately four seconds until you hear a single sustained beep.

If you hear a series of beeps instead of a single sustained beep, try again.

▲ CAUTION

- Never move your face close to the unit during the chuck lubrication. Otherwise, oil might spray out into your eyes.
- 1 Pay attention when lifting the handpiece up. Do not tilt the handpiece against the chuck nozzle. Doing so could damage the nozzle.
- ① Do not remove the handpiece from the chuck nozzle until you hear the single sustained beep. Otherwise, it may result in excessive scattering of oil.
- If the nozzle skirt comes off, be sure to reinstall it again. Otherwise, oil might spray out into your eyes.

p. 34 "8.3.4 Nozzle Skirt"

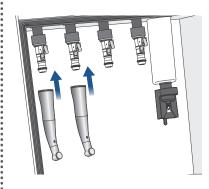
7.3.4 Handpiece Body Lubrication

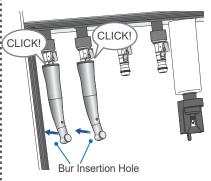
The initial settings for lines 1 to 4 are set for Mode 1. Check the handpiece type and change the mode as necessary.

p. 10 "5.2.1 Recommended Mode"

p. 28 "7.3.5 Switching Maintenance Mode"

1 Attaching Handpieces





Face the bur insertion hole to the unit side.

1.2

Perform handpiece lubrication with the LUBRIFLUID can set onto the spray stand for Lines 1& 2.

Handpiece must be attached to the coupling for Line 1 or 2.

 Attach handpieces to the coupling with the bur insertion hole facing toward the back. Insert the handpiece all the way in until you hear a clicking sound.

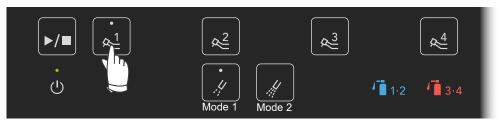
▲ CAUTION

Depending on the shape of the handpiece and coupling, there could be a release of oil
mist during the maintenance and an increased buildup of oil on the handpiece after the
maintenance. In that case, lower the pressure to 0.3 MPa.

@ p. 13 "6.1.2 Air Tube"

- Face the bur insertion hole towards the main unit. If the bur insertion hole is facing the front door, it will likely scatter more oil during maintenance and increasingly build up excess oil on the handpiece after maintenance. Also, the front door will tend to get dirtier.
- Insert the handpiece all the way in until it clicks into place. Otherwise, the handpiece could come off during the lubrication.
- If you find any damages on the coupling O-rings, replace them with new ones immediately. Otherwise, handpieces cannot be connected properly.
 p. 34 "8.3.5 Coupling O-rings"
- For micromotor attachments (straight or contra angle handpieces), some should have a bur inserted during lubrication and some should not. Refer to the user's manual that comes with the handpiece.
- Give a little jiggle to the handpiece and check that it is securely connected.
- 3. Close the front door after attaching the handpieces to appropriate
- * Be sure to close the front door. Otherwise, the lubrication process will not start.

2 Starting Lubrication



Press the desired Line Selection Switches for handpiece maintenance.
 The corresponding lamps will light up based on the selected lines.
 (Example: The illustration above shows that Mode 1 is selected for Line 1.)

To cancel the line selection, press the Line Selection Switch again. The Line Selection Lamp will go out.



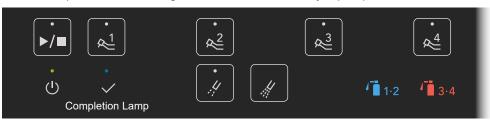
2. Press the Start/Stop Switch.

The Line Selection Lamp for the current lubrication process will blink, and the lamps for the reserved lines will light up.

Press the Start/Stop Switch again to stop the process.

ACAUTION

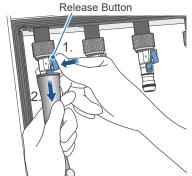
- Do not press the Start/Stop Switch after selecting a Line that the handpiece is not connected. Otherwise, oil mist might spray out into your eyes.
- Never remove the spray can during the operation. This will result in oil leakage and malfunction.
- 1 Do not block the exhaust opening or the exhaust outlet on the bottom of the unit. Otherwise, the front door will open during the maintenance and stop operation.
- (1) If the door seal is partially removed, be sure to fix it properly. Otherwise, the front door cannot be closed and the process will not start.
 - * Do not open the front door during lubrication. This will immediately stop the process.



- 3. When lubrication for the all selected lines is completed, a single sustained beep will sound, and the completed Line Selection Lamps and Completion Lamp will light up.
- * If you need to discharge excess oil: @p. 29 "7.4.1 Air Blow Mode"

3 Detaching Handpieces





Check that the Completion Lamp is lit, and then open the front door.



Completion Lamp

Micromotor Attachments

Hold the attachment with one hand, push the release button with the other, and pull the attachment out.

Wipe excess oil from the handpiece with a soft cloth or gauze after the maintenance.

ACAUTION

- Be careful not to injure your fingers from hitting them against the front door when detaching the handpieces.
- Wipe excess oil on the handpieces with a soft cloth or gauze, so as not to damage the handpiece surface.
- 4 Removing All Handpieces and Closing the Front Door

7.3.5 Switching Maintenance Mode

Mode 1/Mode2 Switching Procedures

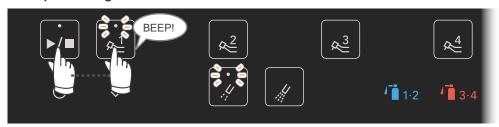
The initial settings for lines 1 to 4 are set for Mode 1. Check the handpiece type and select the most appropriate lubrication mode for each handpiece.

p. 10 "5.2.1 Recommended Mode"



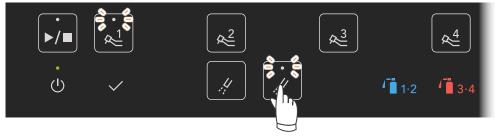
1. Turn the Power Switch on and then open the front door, so that switching operation will not cause the Lubricare 2 to malfunction.

Example: Change lubrication mode for Line 1 from Mode 1 to Mode 2.

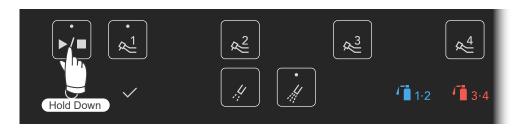


2. Hold down the desired Line Selection Switch and press the Start/Stop Switch for about two seconds until you hear a single sustained beep.

The Line Selection Lamp and currently set Lubrication Mode Selection Lamp will blink.



3. Press the desired Lubrication Mode Selection Switch.



- 4. Hold down the Start/Stop Switch for about two seconds until you hear two short beeps. The lamp will change from blinking to steady illumination which completes the setting process.
 - * The illustration above shows that Line 1 is set to Mode 2.
- 5. Turn the power off.

7.4 Other Maintenance Modes

7.4.1 Air Blow Mode

Use Air Blow Mode to remove excess oil when performing lubrication for handpieces other than Bien-Air Dental SA products or after direct lubrication from a spray can.

Procedures

1. Attach the handpiece and close the front door.



- 2. Hold down the Line Selection Switch for the line where the handpiece is attached.

 Air Blow Mode starts after approximately two seconds. You can release the switch when the process starts.

 The process automatically stops after 30 seconds.
- You can stop the process manually by pressing the Start/Stop Switch.

MARNING

Always wear appropriate personal protective equipment such as surgical gloves, when using or cleaning the device.

7.4.2 Flushing Mode

Use Flushing Mode as needed, such as when black colored oil is discharged from the handpiece.

Flushing Mode will set a longer time for lubrication and blowing air to boost the effectiveness of the flushing effect. Each handpiece requires approximately two minutes to complete the process.

* The term "flushing", as used in here shall mean ejecting and removing cutting debris and foreign objects from inside the handpiece.

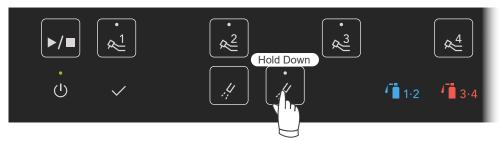
ACAUTION

• A large amount of oil mist is produced during Flushing Mode. Be sure to use Flushing Mode in a well-ventilated location.

^{*} Air Blow Mode can be set and performed on only one line at a time.

Procedures

- 1. Attach the handpieces and close the front door.
- 2. Select the Line Selection Switches for the lines with the handpieces attached.



- 3. Check that the selected lines are correct, and then hold down the Mode 2 Switch for two seconds.
- * The illustration above shows that Lines 1 through 3 are selected.

MARNING

· Always wear appropriate personal protective equipment such as surgical gloves, when using or cleaning the device.

CAUTION

- · Be sure to check that the selected lines have handpieces connected. Otherwise, oil mist will be scattered.
- Be sure to use Flushing Mode where it is well-ventilated. Note that compared to Modes 1 and 2, more oil mist will be produced during Flushing Mode. It also results in an increase of excess oil on the handpiece after the maintenance.
- * Flushing Mode and Modes 1 or 2 cannot be set and performed at the same time.



- 4. The Operation Lamp and both Mode Selection Lamps will light up while performing Flushing Mode. Also, the Line Selection Lamp blinks for the line currently being flushed.
- * The illustration above shows that Line 1 is performing Flushing Mode.



- 5. When Flushing Mode is completed for the all selected lines, a single sustained beep will sound and the Line Selection Lamp for the completed line and the Completion Lamp will light up.

 Wipe excess oil from the handpiece with a soft cloth or gauze after the maintenance.
 - * Flushing Mode requires certain procedures. When Flushing Mode is completed, all lines will return to initial settings (Modes 1 or 2, or customized mode if you have changed settings).
 - * Wipe excess oil on the handpiece with a soft cloth or gauze, so as not to damage the handpiece surface.

8 Cleaning the Device and Replacing Parts

MARNING

· To prevent infection, always wear appropriate personal protective equipment such as surgical gloves, when using or cleaning the device.

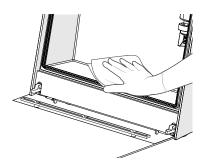
ACAUTION

- To prevent malfunction, be sure to turn the Power Switch off before performing the Lubricare 2 maintenance.
- * Order parts from your local dealer or Bien-Air Dental SA OFFICE.

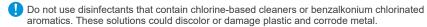
8.1 Daily Cleaning

* Reinstall all parts after cleaning.

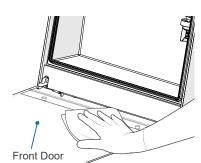
8.1.1 Main Unit



- 1. Remove the oil absorbent sheet, wipe off any remaining oil, and wipe off the unit with ethanol (70 vol% to 80 vol%).
 - p. 20 "6.4 Oil Absorbent Sheet"



- Be sure to use a soft cloth, such as gauze, to wipe off the unit. Otherwise, the unit surface will get scratched.
 - * If there is dirt that is hard to remove, use a soft cloth with water and a little neutral deter-



- Remove the door oil absorbent sheet and front door sheet stopper, and clean the inside of the front door in the same way as the unit surface
 - p. 21 "6.6 Door Oil Absorbent Sheet and Front Door Sheet Stopper"
- Clean the front door regularly. Note that lack of cleaning will result in oil overflowing and contaminating the installation area.

8.1.2 Couplings





Clean the couplings with ethanol (70 vol% to 80 vol%).

Be sure to check that the O-rings are in place and not damaged. If you find any damaged O-rings, replace them with new ones immediately.

- Do not autoclave the couplings. Doing so could damage the couplings.
- ! Never attach a handpiece to a coupling if the O-ring is not properly in place. Doing so could result in improper lubrication, handpiece damage, or severing the O-ring, so that the handpiece becomes stuck and difficult to detach.
- Use a clean gauze to clean couplings. Debris inside the connection could cause the handpiece to malfunction.
 - * Be sure not to lose the O-rings.

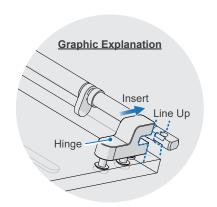
8.2 Regular Cleaning: Once a Month

* Reinstall all parts after cleaning.

8.2.1 Front Door

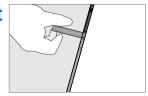




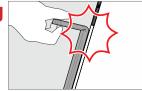


- 1. Open the front door and pull straight it out.
- left Hold the device firmly with one hand and pull the front door straight out with the other hand. Do not apply excessive force or pull it out at an angle. This could damage the device
- Remove the door oil absorbent sheet and front door sheet stopper, and clean them with a neutral detergent.Dry them naturally, or wipe off moisture with soft gauze.
- Do not use hot water. This could deform the plastic.
- ① Do not use a dryer. This could damage the front door. Always dry it naturally or use soft gauze to wipe off moisture.
- 3. Make sure the hinge direction of the front door is correct as shown in the illustration on the left, and insert the hinge straight until it snaps on.
- Hold the device firmly and insert the hinge straight in. If the hinge is inserted forcibly or misaligned, the device could be damaged.
- 4. Check if the door movement is smooth after installing the front door.
- * The front door will not close all the way if the front door is not properly installed.

Right



Wrong

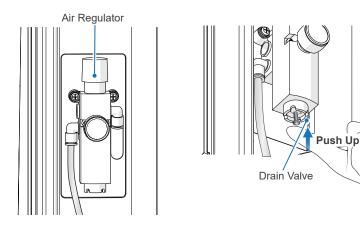


Front door does not close all the way.

8.2.2 Air Regulator

Place a dry cloth underneath the air regulator and push up on the drain valve. Make sure that no water comes from the valve. If large quantities of water come out, there could be a problem with the air compressor and it may result in poor maintenance. Contact your local dealer or Bien-Air Dental SA OFFICE.

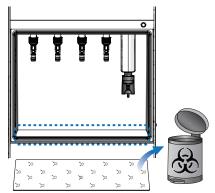
p. 13 "6.1.2 Air Tube"



8.3 Parts Replacement

- * Replace the parts as necessary depending on degree of wear and length of use.
- * Order parts from your local dealer or Bien-Air Dental SA OFFICE.

8.3.1 Oil Absorbent Sheet



Remove the used oil absorbent sheet and replace it with a new one. Check that the sheet orientation is correct.

* A single sheet can absorb approximately one can of the LUBRIFLUID.

p. 20 "6.4 Oil Absorbent Sheet"

ACAUTION

- Dispose of used oil absorbent sheets according to regulations for medical waste.
- Always check the absorbed amount when performing the daily maintenance. Use of a sheet with excessive absorption could result in oil overflowing from the device.

8.3.2 Oil Absorbent Pad



Pull out the oil collection tray from the bottom of the device. Remove the used oil absorbent pad and replace it with a new one.

p. 20 "6.5 Oil Collection Tray and Oil Absorbent Pad"

ACAUTION

- Dispose of used oil absorbent pads according to regulations for medical waste.
- Do not use a pad with excessive oil absorption. Doing so could cause more oil mist to come out from the device and spray into your eyes.

8.3.3 Door Oil Absorbent Sheet



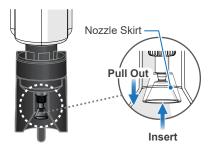
Remove the door oil absorbent sheet from the front door sheet stopper and replace the sheet with a new one.

p. 21 "6.6 Door Oil Absorbent Sheet and Front Door Sheet Stopper"

ACAUTION

- Dispose of used door oil absorbent sheets according to regulations for medical waste.
- 1 Always check the absorbed amount when performing the daily maintenance. Use of a sheet with excessive oil absorption could result in oil overflowing from the device.

8.3.4 Nozzle Skirt



Turn the power off. Pull out the nozzle skirt and replace it with a new one. Make sure it is oriented the right way up, as shown in the illustration.

8.3.5 Coupling O-rings





- 1. Remove the old O-rings with a pair of tweezers or another such
- 2. Set the new O-rings according to coupling grooves.
- * Use only O-rings that have been designed specifically for use with the coupling.

8.3.6 Spray Cans



Replace the can when the corresponding Empty Spray Can Lamp starts to blink.

9 Troubleshooting

If the Lubricare 2 does not seem to be working properly, first inspect the locations described below.

* If you cannot inspect the device yourself or if the device fails to work properly after being adjusted or after parts are replaced, contact your local dealer or Bien-Air Dental SA OFFICE.

Switch is turned on.the power outlet.the power outlet.The power cord is not properly connected to the device.Cannot attach handpieces the device.Coupling or handpiece connection is deformed.Have the coupling or handpiece repaired.No Debris on the coupling or handpiece connection. O-ring is dislocated.Lubrication does not start when the Start/Stop Switch is pressed.No line is selected.Select at least one line before pressing the Start/ Stop Switch.The device makes a small pressing the Start/Stop Switch.This is not a malfunction. The device may olise several times when pressing the Start/Stop switch.N/AProcess stops when pressing the Start/Stop switch.This is not a malfunction. The device may olise several times when pressing the Start/Stop switch.N/AProcess stops when pressing the Start/Stop switch.The front door is dislocated or the hinge is not a triple beep sounds.Close the front door properly and press the Start/ Stop Switch again.NProcess stops before lubrication.The front door is dislocated or the hinge is not insert properly.Remove the front door and reinstall it. Make sure you insert the hinge straight until it snaps on.PProcess stops before lubrication.Spray can is empty.Replace the spray can with a new one.PSelected Line Selection Lamp billinkSpray can is not properly installed.Fix the spray can and spray stand installation.pp. 1Empty Spray Can Lamp billinkConnect the air tube correctly.pp. 2A short series of beeps soundsConnect the air tube correctly.pp. 2A chrot series of beeps soundsThe exhaust opening or exhaust outlet i	Symptoms	Possible Causes	Remedies	Ref. Page
Cannot attach handpieces Coupling or handpiece connection is deformed. Debris on the coupling or handpiece connection. O-ring is dislocated. Debris on the coupling or handpiece connection. O-ring is dislocated. O-ring is dislocated. Select at least one line before pressing the Start/ stop Switch is pressed. No line is selected. Select at least one line before pressing the Start/ stop Switch. Stop Switch. Stop Switch. Select at least one line before pressing the Start/ stop Switch. St			Connect the power cord correctly.	p. 14
The front door is dislocated or the hinge is not properly. Process stops before lubrication. Lamp solitar properly. Process stops before lubrication. All Lamp and corresponding Empty Spray Can Lamp blink Process stops during the Sard series of beeps sounds Process stops during the Sard series of beeps sounds Process stops during the Sard series of beeps sounds Process stops during the Sard series of beeps sounds Process stops during the Sard series of beeps sounds Process stops during the Sard series of beeps sounds Process stops during the Sard series of beeps sounds Process stops during the Sard series of beeps sounds Process stops during the Sard series of beeps sounds Process stops during the Sard series of beeps sounds Process stops during the Sard series of beeps sounds Process stops during the Sard series of beeps sounds Process stops such as a spray can. Oil leaks from a spray can. Oil leaks from a spray can. Oil leaks from a spray can series of beeps sounds Process stops sound			-	
tion. O-ring is dislocated. No line is selected. Select at least one line before pressing the Start/ Stop Switch is pressed. No line is selected. Select at least one line before pressing the Start/ Stop Switch. Possed. The device makes a small noise several times when pressing the Start/Stop switch. All Line Selection Lamps blink at triple beep sounds The front door is open. The front door is open. The front door is open. The front door is dislocated or the hinge is not insert properly. The door seal is partially removed. Remove the front door and reinstall it. Make sure you insert the hinge straight until it snaps on. Process stops before lubrication. Selected Line Selection Lamp Blink and corresponding Empty Spray Can Lamp Blink and corresponding Empty Spray Can Lamp Blink and source plants. A short series of beeps sounds Process stops during the correct range. Air tube is bent. The exhaust opening or exhaust outlet is blocked or clogged. No beep sounds The exhaust opening or exhaust outlet is blocked or spray can in the spray cans that are approved by Bien-Air Dental SA. Progray can start are approved by Bien-Air Dental SA. Select the spray cans that are approved by Bien-Air pental SA.	Cannot attach handpieces.		Have the coupling or handpiece repaired.	N/A
when the Start/Stop Switch is pressed. The device makes a small noise several times when pressing the Start/Stop Switch. Process stops when pressing the Start/Stop Switch. All Line Selection Lampbilink A triple beep sounds Process stops before lubrication. Selected Line Selection Lampbilink A short series of beeps sounds A short series of beeps sounds Process stops during the peraction. No beep sounds Process stops during the peraction. No beep sounds Process stops a during the peraction. No beep sounds Stop Switch. Stop Switch again. N/A Close the front door properly and press the Start/ stop Switch again. Remove the front door and reinstall it. Make sure you insert the hinge straight until it snaps on. Remove the front door and reinstall it. Make sure you insert the hinge straight until it snaps on. Remove the front door and reinstall it. Make sure you insert the hinge straight until it snaps on. Remove the front door and reinstall it. Make sure you insert the hinge straight until it snaps on. Remove the front door and reinstall it. Make sure you insert the hinge straight until it snaps on. Remove the front door and reinstall it. Make sure you insert the hinge straight until it snaps on. Remove the front door and reinstall it. Make sure you insert the hinge straight until it snaps on. Remove the front door and reinstall it. Make sure you insert the hinge straight until it snaps on. Remove the front door and reinstall it. Make sure you insert the hinge straight until it snaps on. Remove the front door and reinstall it. Make sure you insert the hinge is not front door and reinstall it. Make sure you insert the hinge is not front door and reinstall it. Make sure you insert the hinge straight until it snaps on. Remove the front door and reinstall it. Make sure you insert the hinge straight until it snaps on. Remove the front door and reinstall it. Make sure you insert the hinge straight until it snaps on. Remove the front door and reinstall it. Make sure you insert the hinge is not				pp. 31, 34
noise several times when pressing the Start/Stop Switch. Process stops when pressing the Start/Stop switch. All Line Selection Lamps blink At triple beep sounds Process stops before lubrication. Selected Line Selection Lamp blink Ashort series of beeps sounds Ashort series of beeps sounds No beep sounds Process stops during the operation. Process stops during the operation. Process stops a dring the Start/Stop switch. Ashort series of beeps sounds Process stops during the operation. Process stops a during the operation. Process stops a during the operation. Process stops a during the operation. Process stops during	when the Start/Stop Switch	No line is selected.		p. 26
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blink	ing the Start/Stop switch.	·		N/A
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Cation. Selected Line Selection Lamp and corresponding Empty Spray Can Lamp blink A short series of beeps sounds Compressed air is not supplied. Air regulator setting is not within the correct range. Air tube is bent. Check the exhaust line and remove any obstacles. No beep sounds Cannot set a spray can. Oil leaks from a spray can. Oil leaks from a spray can. Spray can is not properly installed. Fix the spray can and spray stand installation. P. Connect the air tube correctly. Adjust the regulator and set the pressure within the specified range. No Check the exhaust line and remove any obstacles. No Use only properly shaped spray cans. No Spray can is deformed. Use only properly shaped spray cans. Spray stand is not properly adjusted. Readjust the spray stand height. Spray can not specified by Bien-Air Dental SA is used. Only use spray cans that are approved by Bien-Air Dental SA.		The door seal is partially removed.	Reinstall the door seal properly.	N/A
Selected Line Selection Lamp and corresponding Empty Spray Can Lamp blink Air regulator setting is not within the correct sounds Air tube is bent. Process stops during the operation. No beep sounds Cannot set a spray can. Oil leaks from a spray can. Oil leaks from a spray can Spray can is not properly installed. Fix the spray can and spray stand installation. Pouncet the air tube correctly. Adjust the regulator and set the pressure within the specified range. Fix the air tube. Check the exhaust line and remove any obstacles. No Check the exhaust line and remove any obstacles. No Check the exhaust line and remove any obstacles. No Check the exhaust line and remove any obstacles. No Cannot set a spray can. Oil leaks from a spray can. Spray can is deformed. Use only properly shaped spray cans. Readjust the spray stand height. Pouncet the air tube correctly. Adjust the regulator and set the pressure within the specified range. No Check the exhaust line and remove any obstacles. No Check the exhaust line and remove any obstacles. No Check the exhaust line and remove any obstacles. No Compressed air is not supplied. Compressed air is not supplied. Compressed air is not supplied. Connect the air tube correctly. Adjust the regulator and set the pressure within the specified range. No Check the exhaust line and remove any obstacles. No Check the exhaust line and remove any obstacles. No Check the exhaust line and remove any obstacles. No Check the exhaust line and remove any obstacles. No Check the exhaust line and remove any obstacles. No Check the exhaust line and remove any obstacles. No Check the exhaust line and remove any obstacles. Oil leaks from a spray can. Oil leaks from a spray can. Spray can is not properly adjusted. Readjust the spray can the pressure within the correct adjust the spray can and set the pressure within the correct adjust the specified range. Only the properly adjusted and the pressure within the correct and the pressure within the correct and the pressure w		Spray can is empty.	Replace the spray can with a new one.	p. 17
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All regulator setting is not within the correct range. Adjust the regulator and set the pressure within the correct range. Adjust the regulator and set the pressure within the correct range. Adjust the regulator and set the pressure within the correct range. Process stops during the operation. The exhaust opening or exhaust outlet is blocked or clogged. No beep sounds Cannot set a spray can. Oil leaks from a spray can. Spray can is deformed. Spray stand is not properly adjusted. Spray stand height. P. Adjust the regulator and set the pressure within the correct range. No No beep sounds Check the exhaust line and remove any obstacles. No Spray can is deformed. Spray stand is not properly adjusted. Readjust the spray stand height. P. Spray can not specified by Bien-Air Dental SA is used.		Compressed air is not supplied.	Connect the air tube correctly.	p. 13
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Oil leaks from a spray can. Spray stand is not properly adjusted. Readjust the spray stand height. P. Spray can not specified by Bien-Air Dental SA is used. Only use spray cans that are approved by Bien-Air Dental SA.	operation.		Check the exhaust line and remove any obstacles.	N/A
Spray stand is not properly adjusted. Readjust the spray stand height. P. Spray can not specified by Bien-Air Dental SA is used. Only use spray cans that are approved by Bien-Air Dental SA.	Cannot set a spray can.	Spray can is deformed.	Use only properly shaped spray cans.	N/A
is used. Dental SA.	Oil leaks from a spray can.	Spray stand is not properly adjusted.	Readjust the spray stand height.	p. 18
				p. 15
Odd odor from the device. Handpiece was not connected to the lubrica- Select only lines with handpieces connected. P. The device gets unusually tion line.		and the second s	Select only lines with handpieces connected.	p. 26
atta.		Oil absorbent pad is saturated.		pp. 20, 33
Oil absorbent sheet is dirty. Remove the old sheet, clean the device, and set a pp. 2 new oil absorbent sheet.		Oil absorbent sheet is dirty.		pp. 20, 33
Spray can is not properly installed. Fix the spray can and spray stand installation. pp. 1		Spray can is not properly installed.	Fix the spray can and spray stand installation.	pp. 16, 17
Air pressure is set out of specified range. Adjust the regulator and set the pressure within the specified range.		Air pressure is set out of specified range.		p. 13

Symptoms	Possible Causes	Remedies	Ref. Page
Oil mist is released. Installation surfaces get oily.	Handpiece shape	Depending on the shape of the handpiece, it will likely scatter more oil during the maintenance and will increase excess oil on the handpiece after the maintenance. Reduce the air pressure to 0.3 MPa.	p. 13
	Handpiece is attached in an improper direction.	Set the handpiece direction correctly.	p. 26
	The main unit's air pressure setting is too high.	Adjust the regulator and set the pressure within the specified range.	p. 13
	No bur inserted in straight attachment.	Refer to the user's manual that comes with the handpiece. (For some handpieces, oil mist may be released if a bur is not inserted.)	N/A
Empty Spray Can Lamp stays on.		Something is wrong with oil supply lines inside the device. If the lamp still lights up even after performing maintenance again, have the device repaired.	N/A
Dil seeps out excessively from the connection parts and the handpiece head during normal use of the	Lubrication was not performed by the recommended mode. Chuck lubrication was performed to a hand-	Refer to the user manual that comes with the handpiece for the recommended mode.	pp. 10, 22
	pice that does not require chuck lubrication.		
handpice.	The main unit's air pressure setting is too low.	Adjust the regulator and set the pressure within the specified range.	p. 13
	Handpiece was stored with its head down.	When a handpiece is stored with its head down, oil inside the handpiece will accumulate inside the head; store the handpiece in an upright position with its head at the top.	N/A
	The handpiece was used without wiping excess oil from the handpiece after the maintenance.	After the maintenance, wipe excess oil from the handpiece with a soft cloth or gauze, so as not to damage the handpiece surface.	p. 28

10 Maintenance

10.1 Maintenance

Regular Inspection

The user (i.e., healthcare facility, clinic, hospital etc.) is responsible for the management, maintenance and use of medical devices.

- * The Lubricare 2 should be inspected every six months in accordance with the inspection items listed below.
- * Maintenance and inspection are generally considered to be the duty and obligation of the user, but if, for some reason, the user is unable to carry out those duties, the user may rely on qualified medical device service personnel. Contact your local dealer or Bien-Air Dental SA OFFICE for details.
- * For repair or other types of service, contact your local dealer or Bien-Air Dental SA OFFICE.

Maintenance Performed by the User:

· Switches: All switches should work correctly.

Maintenance Performed by Qualified Medical Device Service Personnel:

Electrical Wirings

Standards and Procedures for Disposal of Medical Devices

When disposing of the Lubricare 2, it should fall into the category of infectious waste.

The dentist or doctor must confirm that the device is uncontaminated, and must then have it disposed of by a healthcare facility or an agent licensed and qualified to handle standard industrial waste and industrial waste requiring special treatment.

To dispose of maintenance oil spray cans, remove them from the device and discharge contents and observe relevant local laws or national regulations.



This symbol indicates that the waste of electrical and electronic equipment must not be disposed as unsorted municipal waste and must be collected separately. Contact your local dealer or Bien-Air Dental SA OFFICE for details.

10.2 Service

The Lubricare 2 may be repaired and serviced by:

- The technicians of Bien-Air Dental SA's subsidiaries worldwide.
- Technicians employed by authorized Bien-Air Dental SA dealers and specially trained by Bien-Air Dental SA.
- Independent technicians specially trained and authorized by Bien-Air Dental SA.

^{*} For repair or other types of service, contact your local dealer or Bien-Air Dental SA OFFICE.

10.3 Consumables

Oil Absorbent Pads (Qty: 5) Code No.: 7373465	Oil Absorbent Sheets (Qty: 5) Code No.: 7376847	Door Oil Absorbent Sheets (Qty: 5) Code No.: 7376839
	K K	
Nozzle Skirt (Qty: 1) Code No.: 7373791		

11 Technical Specifications

11.1 Specifications

* Specifications and appearance are subject to change without notice due to improvements.

Name	Lubricare 2
Model	HIM-2
Туре	ВА
Rating	AC 100 V to 240 V, 50/60 Hz
Power Consumption	10 VA to 25 VA
Fuse	250 V 2 A slow blow and high breaking type ∅5 mm × 20 mm
Isolation from the Main Power Supply	Unplug the power cord from the main power supply.
Mode of Operation	Continuous operation
Maximum Input Air Pressure	0.7 MPa
Air Pressure	0.3 MPa to 0.5 MPa (Recommendation: 0.4 MPa)
Air Flow Rate	60 NL/min to 100 NL/min (0.3 MPa to 0.5 MPa)
Weight	Approx. 8 kg
Outer Dimensions	Width 300 mm x Depth 300 mm x Height 365 mm

Product Description

Used to maintain optimum performance and prolong useful life of dental handpieces.

Delivers oil and air automatically to handpiece.

Used after dental treatment and before autoclaving.

Operating Principle

Physical methods used to accomplish its intended use:

- Air Pressure: 0.3 MPa to 0.5 MPa
- Air Flow Rate: 60 NL/min to 100 NL/min
- · Maintenance oil spray can

Mechanisms by which it works:

Operate the maintenance spray can to supply lubrication oil to the inside of the handpiece by discharging pressurized air into the spray can. Also, excess oil is removed from the handpiece by the pressurized air.

11.2 Intended User

a) Engaged person (people) in dental clinic

b) Language Understanding: English or other languages offered in the Instruction for Use. Understanding of precautions and warnings.

c) Experience: Not relevant

11.3 Symbols

* Some symbols may not be used.



Manufacturer



Date of manufacture



Serial number



Unique device identifier



Medical device



GS1 DataMatrix



"ON" (power)



"OFF" (power)



Standby



Oil mark



No open flame



General warning sign



Warning; Flammable material



Refer to instruction manual/booklet



Ventilation required



This way up



Keep away from rain



Fragile



Temperature limitation



Humidity limitation



Atmospheric pressure limitation



Prescription Device CAUTION: Federal law restricts Rx Only this device to sale by or on the order of a dentist. (Valid only for U.S.A.)



cTUVus certification mark (Valid only for U.S.A. and Cana-



CE marking Conforms with the European Regulation, EU 2017/745 Conforms with the European Directive, 2011/65/EU



Authorized representative in the European Commu-



Marking of electrical equipment in accordance with the European directive 2012/19/EU (WEEE)

12 Electromagnetic Disturbances (EMD)

The Lubricare 2 (hereafter "this device") conforms to IEC 60601-1-2:2014 Ed. 4.0, the relevant international standard for electromagnetic disturbances (EMD).

The following is the "Guidance and Manufacturer's Declaration" which is required by IEC 60601-1-2:2014 Ed. 4.0, the relevant international standard for electromagnetic disturbances.

This is a Group 1, Class B product according to EN 55011 (CISPR 11).

This means that this device does not generate and/or use internationally radio-frequency energy, in the form of electromagnetic radiation, inductive and/or capacitive coupling, for the treatment of material or inspection/analysis purpose and that it is suitable for use in domestic establishments and in establishments directly connected to a low voltage power supply network which supplies buildings use for domestic purposes.

Guidance and Manufacturer's Declaration - Electromagnetic Emissions

This device is intended for use in the electromagnetic environment specified below.

The customer or the user of this device should assure that it is used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment – Guidance
Conducted disturbance CISPR 11	Group 1 Class B	This device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
Radiated disturbance CISPR 11	Group 1 Class B	This device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings
Harmonic current IEC 61000-3-2	Class A	used for domestic purposes.
Voltage fluctuations and flicker IEC 61000-3-3	Clause 5	

MARNING

- The use environment of this device is the Professional healthcare facility environment.
- This device needs special precautions regarding EMD and needs to be installed and put into service according to the EMD information provided in the ACCOMPANYING DOCUMENTS.
- Use of parts other than those accompanied or specified by Bien-Air Dental SA could result in increased electromagnetic emissions or decreased electromagnetic immunity of this device and result in improper operation.
- Do not use this device as adjacent or stacked as possible with other. When adjoining or stacking is necessary, use it after observing whether this equipment and other equipment work properly.
- Portable and mobile RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm to any part of the HIM-2, including cables specified by the manufacturer.

Guidance and Manufacturer's Declaration – Electromagnetic Immunity

This device is intended for use in the electromagnetic environment specified below.

The customer or the user of this device should assure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment – Guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transients/bursts IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	AC/DC power ±0.5 kV, ±1 kV line(s) to line (s) ±0.5 kV, ±1 kV, ±2 kV line(s) to line(s) Signal input/output ±2 kV line(s) to earth	AC/DC power ±0.5 kV, ±1 kV line(s) to line(s) ±0.5 kV, ±1 kV, ±2 kV line(s) to earth Signal input/output*1 ±2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply lines IEC 61000-4-11	$\begin{array}{c} \underline{\text{dips}} \\ 0\% \ U_{7}\text{: } 0.5 \text{ cycle (at 0,} \\ 45 \ , 90 \ , 135 \ , 180 \ , 225 \ , \\ 270 \ , 315^\circ) \\ 0\% \ U_{7}\text{: } 1 \text{ cycle (at 0}^\circ) \\ 0\% \ U_{7}\text{: } 25/30 \text{ cycles (at 0}^\circ) \\ \underline{\text{short interruptions}} \\ 0\% \ U_{7}\text{: } 250/300 \text{ cycles} \\ 250 \ (50 \ \text{Hz})/300 \ (60 \ \text{Hz}) \\ \end{array}$	$\begin{array}{c} \underline{\text{dips}} \\ 0\% \ U_{7}\text{: } 0.5 \text{ cycle (at 0,} \\ 45 \ , 90 \ , 135 \ , 180 \ , 225 \ , \\ 270 \ , 315^\circ) \\ 0\% \ U_{7}\text{: } 1 \text{ cycle (at 0}^\circ) \\ 0\% \ U_{7}\text{: } 25/30 \text{ cycles (at 0}^\circ) \\ \underline{\text{short interruptions}} \\ 0\% \ U_{7}\text{: } 250/300 \text{ cycles} \\ 250 \ (50 \ \text{Hz})/300 \ (60 \ \text{Hz}) \\ \end{array}$	Mains power quality should be that of a typical commercial or hospital environment. If user of this device requires continued operation during power mains interruptions, it is recommended that this device be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m (r.m.s.) 50 Hz or 60 Hz	30 A/m (r.m.s.) 50 Hz or 60 Hz	Power frequency magnetic field should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE 1: U_T is the a.c. mains voltage prior to application of the test level.

NOTE 2:r.m.s.: root mean square

^{*1:} Not applicable because it does not connect directly to outdoor cable.

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

This device is intended for use in the electromagnetic environment specified below.

The customer or the user of this device should assure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment – Guidance
Conducted RF IEC 61000-4-6	3 V 150 kHz – 80 MHz ISM ^(c) frequency band: 6 V	3 V 150 kHz to 80 MHz ISM ^(c) frequency band: 6 V	Portable and mobile RF communications equipment should be used no closer to any part of this device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Radiated RF	3 V/m	3 V/m	
IEC 61000-4-3	80 MHz to 2.7 GHz	80 MHz to 2.7 GHz	Recommended separation distances
			$d = 1.2\sqrt{P}$ 150 kHz to 80 MHz
	27 V/m	27 V/m	$d = 1.2\sqrt{P}$ 80 MHz to 800 MHz
	385 MHz	385 MHz	$d = 2.3\sqrt{P}$ 800 MHz to 2.7 GHz
			$d = \frac{6}{F} \sqrt{P}$ Portable wireless RF commu-
	28 V/m	28 V/m	nication equipment
	450 MHz	450 MHz	
	9 V/m 710, 745, 780 MHz	9 V/m 710, 745, 780 MHz	Where <i>P</i> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer, <i>E</i> is the compliance level in V/m and <i>d</i> is the recommended separation distance in
	28 V/m	28 V/m	meters (m).
	810, 870, 930 MHz	810, 870, 930 MHz	
	28 V/m 1720, 1845, 1970 MHz	28 V/m 1720, 1845, 1970 MHz	Field strengths from field RF transmitters, as determined by an electromagnetic site survey ^(a) , should be less than the compliance level in each frequency range ^(b) .
	28 V/m	28 V/m	Interference may occur in the vicinity of
	2450 MHz	2450 MHz	equipment marked with the following symbol:
	9 V/m	9 V/m	(((•)))
	5240, 5500, 5785 MHz	5240, 5500, 5785 MHz	

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

⁽a) Field strengths from fixed transmitters, such as base stations for ratio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicated theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which this device is used exceeds the applicable RF compliance level above, this device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting of relocating this device.

⁽b) Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

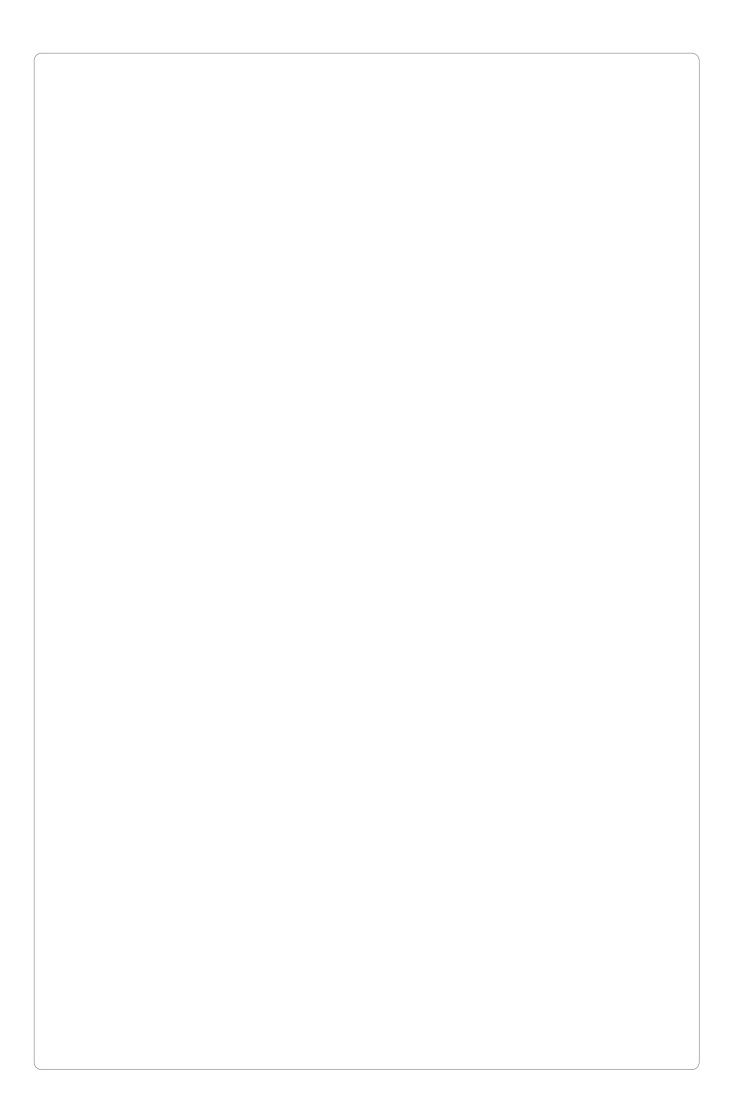
⁽c) The ISM (Industrial, Scientific and Medical) bands between 0.15 MHz and 80 MHz are 6.765 MHz to 6.795 MHz; 13.553 MHz to 13.567 MHz; 26.957 MHz to 27.283 MHz; and 40.66 MHz to 40.70 MHz.

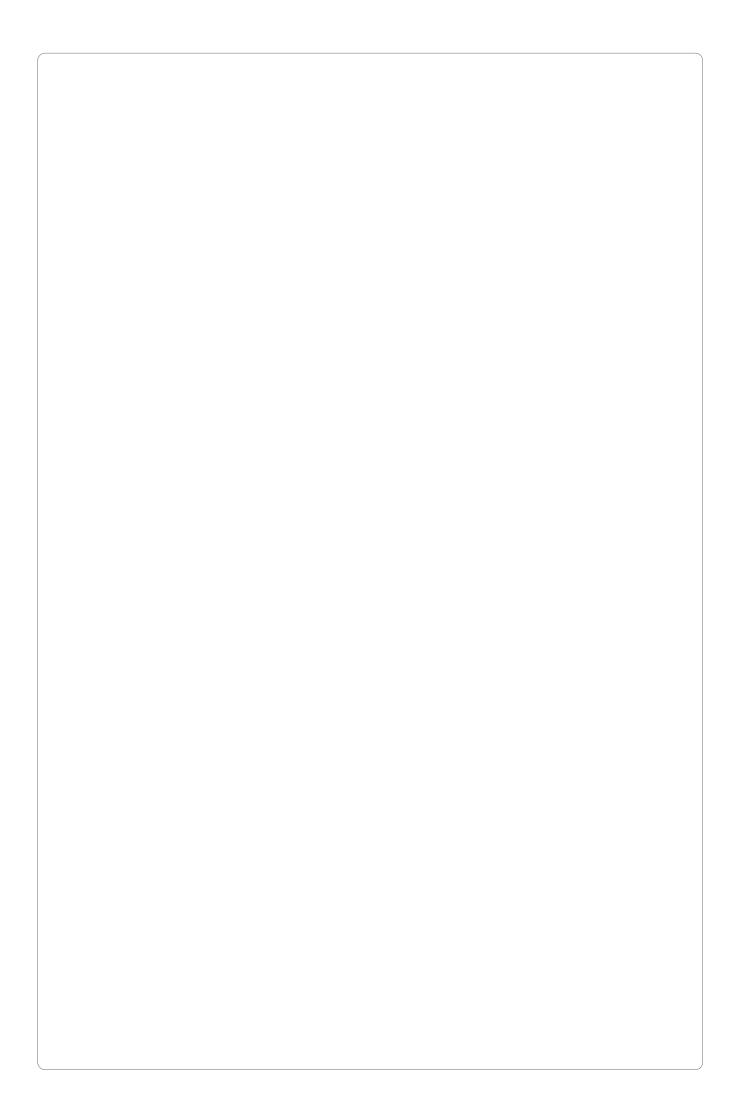
■ Essential Performance

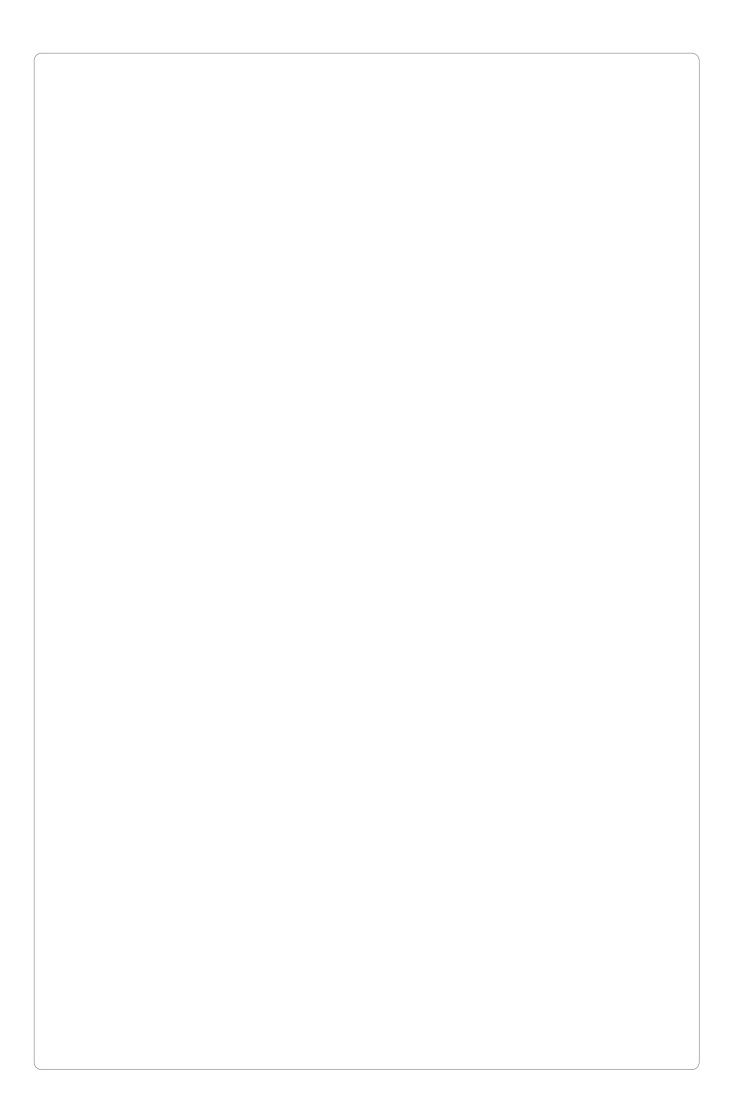
None

■ Cable Length

No.	Interface(s):	Max. Cable Length, Shielding	Cable Classification
1.	AC Power Cable	2.3 m (3-wire), Un-shielded	AC Power Line







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