IsoMist™ XR

Programmable Temperature Spray Chamber



GLASS EXPANSION
Quality By Design

Contents

Copyright	3
Safety information	4
Before you start	8
Pack contents	8
IsoMist technical specifications	9
Getting started	12
Helix fitting – nebulizer connection	14
Power connection	15
Software installation	16
Bluetooth® wireless network	20
Operation	25
Diagnostics	31
Faults and corrective action	31
Adding IsoMist Bluetooth Device	33
Troubleshooting Bluetooth settings	35
Service and support	42
Product care	43

Notices

Copyright

The information in this manual is subject to change without notice for reasons of continuous product improvement.

A concerted effort has been made to provide an accurate explanation for the operation of this product. However, Glass Expansion assumes no responsibility for any inaccuracies that may occur in this document.

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“Adobe” and “Acrobat”, and “Reader” are registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.

“Oracle” and “Java” are registered trademarks of Oracle and/or its affiliates.

Other brand names and product names that appear in the IsoMist documentation are the properties and trademarks of their respective owners.

Product Record

The product label situated on the underside of the IsoMist specifies serial number and model details. Quote this information when you contact your supplier or Glass Expansion office for service.

Caution

Any changes or modifications to this equipment not expressly approved by Glass Expansion may void your warranty.

Safety Information

Warning

- IsoMist should only be operated by people who are competent in the operation of ICP equipment and have a basic level of PC competence.
- Use only the power adaptor supplied with the IsoMist to operate the device.
- Use only the cables supplied with IsoMist.
- Other than spray chamber connections, moisture must not enter IsoMist.
- Ensure there is adequate ventilation for IsoMist to operate.
- Do not restrict the flow of air entering and exiting IsoMist.
- The IsoMist must only be operated on a flat, horizontal surface.

Flammable Samples

The laboratory must have a competent standard operating procedure for such samples. This procedure must be applied in full when operating IsoMist.

Warning

Do not attempt to open or disassemble IsoMist in any way other than specified in the operation manual. Under no circumstance must the power adaptor used with IsoMist be tampered with. For service assistance contact the IsoMist supplier or Glass Expansion.

Regulatory Compliance

Electrical Safety

The power adapter supplied with IsoMist conforms with a number of electrical safety standards, including CE, UL, CUL, FCC, PSE, GS, CB, RCM, SAA, KC, ROSH, CCC, level VI, and REACH.

IsoMist is a 12 VDC device. Standards for electrical safety do not apply to equipment of this voltage type.

Manufacturer's Declaration Of Conformity

Europe

This equipment has been designed and tested to comply with the requirements of the R&TTE Directive 1999/5/EC Essential Requirements for Health and Safety (Article 3.1(a)), Electromagnetic Compatibility (EMC) (Article 3.1(b)), and Radio (Article 3.2) and are summarized in Table below. A Notified Body Opinion has also been issued to confirm that each product complies with the relevant Directives by testing a prototype against the prescribed EN (European Norm) standards.

CE 0700

Applied Standards and Test Reports

Specification	Laboratory	Test Report Number
EN 61010-1: 2010	AGC Shenzhen	AGC05317151004ES01
EN 62479:2010	AGC Shenzhen	AGC05317151004EH02
EN 301 489-1 V1.9.2	AGC Shenzhen	AGC05317151004EE01
EN 301 489-17 V2.2.1	AGC Shenzhen	AGC05317151004EE01
EN 300 328 V1.9.1	AGC Shenzhen	AGC05317151004EE04
Notifed Body Opinion		
CE 0700	Pheonex TestLab	16-212505

United States

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

FC

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This portable transmitter with its antenna complies with FCC/IC RF exposure limits for general population / uncontrolled exposure.

If this equipment does cause radio interference (which can be determined by switching off the device) contact the supplier or Glass Expansion.

Applied Standards and Test Reports

Specification	Laboratory	Test Report Number
FCC Part 15 Subpart B		
ANSI C63.4-2009		
47 CFR, Part 2, Part 15 and CISPR PUB. 22	Cerpass Technology Corp.	DEFD1608026
FCC Rules Part 15		
ANSI C63.4:2014	AGC Shenzhen	AGC05317151005FE07
FCC Rules Part 15.249	AGC Shenzhen	AGC05317151005FE03

Canada

This ISM device complies with Canadian ICES- 001.

Cet appareil ISM est conforme à la norme NMB-001 du Canada.

Australia and New Zealand

This equipment has been tested to demonstrate compliance in accordance with ACMA Radio communications “Short Range Devices” Standard and Information technology equipment - Radio disturbance characteristics.

Applied Standards and Test Reports

Specification	Laboratory	Test Report Number
AS/NZS CISPR 22:2009	AGC Shenzhen	AGC0531715009AE01
AS/NZS 4268:2012	AGC Shenzhen	AGC0531715009AE02

Japan

This equipment has been tested and certified with respect to Specified Radio Equipment in Japan.Certificate of Technical Regulations Conformity for Specified Radio Equipment in Japan by a Registered Certification Body (RCB ID: 204).

R **204-620312**

Applied Standards and Test Reports

Specification	Laboratory	Test Report Number
TELEC-T401 (2011-05)		
Article 2 Paragraph 1 Item 19		
MIC Notice No.88 Appidex No.43	AGC Shenzhen	AGC05317151003TE01
Certification	PHOENIX TESTLAB GmbH (RCB ID: 204)	16-212918a

WEEE Compliance



The European Union WEEE (Waste Electrical, Electronic Equipment) directive requires the proper handling, disposal and financing of end-of-life equipment.

Glass Expansion deems the business end-users responsible for the disposal of unwanted Glass Expansion products. The business end user is obliged to deal with the product in accordance with local WEEE regulation.

Bluetooth SIG Certification

This equipment has been certified by Bluetooth SIG and the Qualified Design ID is 84469 and the Declaration ID is D031650. The Qualified Design Listing certificate can be accessed at the Bluetooth SIG listings website.

Taiwan (NCC)

注意！

依據 低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻

率、加大功率或變更原設計之特性或功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通行；經發現有干擾現象時，應立

即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信規定作業之無線電信。低功

率射頻電機需忍受合法通信或工業、科學以及醫療用電波輻射性電機設備之干擾。

減少電磁波影響，請妥適使用。

South Korea (KC)

제작자 및 설치자는 해당 무선설비 가전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다

Before you start

Pack Contents

Congratulations on your purchase of your new IsoMist, please check to ensure your IsoMist pack contains the following items:

IsoMist XR Assembly



Spray Chamber



Power Adaptor



Cable - USB connection (3 metre)



IsoMist XR USB Installation Media



Bluetooth EDR 2.0 USB Adapter Kit



IsoMist Overview

IsoMist utilizes the Peltier effect to provide electrical cooling or heating to the spray chamber.

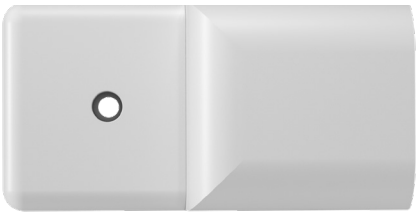
The *Set Temperature* is monitored and controlled internally using electronic hardware/ software. The IsoMist performance can be monitored and controlled from a lab PC via USB or Bluetooth® wireless technology



IsoMist side



IsoMist rear



IsoMist top



IsoMist underside

IsoMist Technical Specifications

Operation and Environment	
Environmental operating conditions	15-25 °C (59-89°F), 10 – 80% relative humidity
Temperature* (programmable by user): Maximum Set Minimum Set	 80°C (176°F) -25°C (14°F)
Default chamber temperature (Setting when dispatched)	5°C (41°F)
Set temperature increments	1°C (33.8°F)
Set temperature variation (Max)	± 0.1°C (32.18°F)
Time taken to pass below 0°C (from 25°C)	<15 minutes
Heating and cooling system	Thermo-electric Peltier
User Interface	

* Specified minimum temperature may not be obtained if ambient temperature is above 22°C (71.6°F).

User Interface	
IsoMist Software** allows user to:	> Change operational set temp > View historical operational data > View IsoMist performance indicators
Historical Data Continuously records operational data in the IsoMist's volatile memory. Option to save to file (csv format)	Retains up to 24 hours of previous operational data***
I/O (Communication to PC)	Bluetooth® Connection, Or via USB Cable
Bluetooth wireless network classification	UZA 112 Class II Signal Range: 10 metres (35 ft)
Supplied USB cable length	3.0 metres
Electrical	
IsoMist Power Input – (via power adaptor supplied)	12VDC – 7.5A (nominal)
Electrical supply:	
Input voltage Input current (max) Input frequency	100 –240 VAC 2 A 50 – 60 Hz
Physical	
IsoMist weight	1.15 kg (2.54 lb)
IsoMist size (L x W x H)	191 x 98 x 120mm (7.51 x 3.85 x 4.72 inch)
Case material	Polypropylene
Minimum Requirements for Interface PC	
PC operating system	Windows® 10 32/64-bit Windows® 11
Hard disk space required	300 MB
Minimum screen resolution	1024 x 768 16 bit colour
Recommended RAM	512 MB
Bluetooth Wireless Network	USB port
USB Communication	USB port
Middleware	JVM (Java Virtual Machine) 1.8.0+

** IsoMist software will need to be installed on your host PC

*** Data stored in IsoMist's volatile memory – in the event of a power failure this data will be lost

Spray Chamber

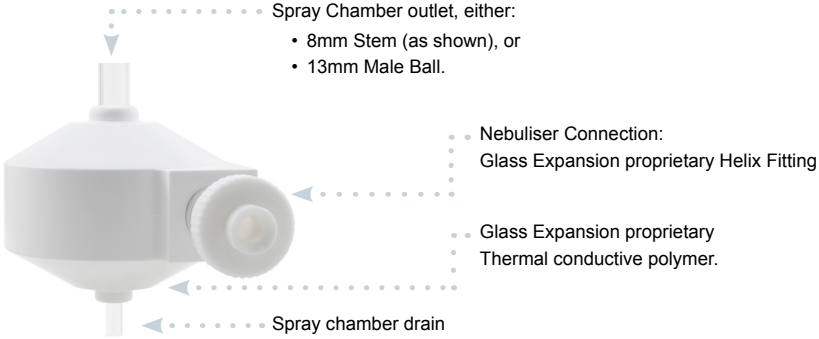
IsoMist is supplied with its spray chamber already fitted.

Note:

- The spray chamber is specifically manufactured for the IsoMist.
- A wide range of spray chambers are available to choose from. However, they can be classified into three main types:-
  a) Standard glass IsoMist spray chambers,
  b) Quartz IsoMist spray chambers, or
  c) PFA IsoMist spray chambers.
- IsoMist is usually supplied as part of a kit. The IsoMist kit will contain all the necessary items required to adapt the IsoMist to your ICP.

Standard IsoMist Spray Chamber

A glass Twister spray chamber encapsulated with Glass Expansion proprietary thermal conductive polymer.



Quartz IsoMist Spray Chamber

Similar to the *standard* spray chamber, with the following changes:-

- Quartz spray chamber substituted for glass.
- MINI CSC nebulizer adaptor substituted for Helix CT fitting.

PFA IsoMist Spray Chamber

100% PFA spray chamber with Helix CT fitting.

Further advice

Review the range of spray chambers and other available options on our website: **www.geicp.com** or contact Glass Expansion (refer “Service and Support” section of this manual for contact details).

Getting Started

Removing/Replacing the Spray Chamber

When supplied, the IsoMist is already fitted with its spray chamber. If you wish to remove the spray chamber, perform the following procedure:



1. If in use, remove all connections to the IsoMist spray chamber.

   ***Tip!* Wait for chamber temperature to reach ambient before proceeding to step 2.**

2. Unscrew & remove cover retaining screws.

   Spray chamber can now be removed / replaced

3. Replace cover and fasten with retaining screws.

   ***Tip!* Check cover is screwed down firmly.**



4. Connect (push **on**) UniFit right angle connector to spray chamber drain (underside of IsoMist)

   IsoMist is now ready for use, place into position and complete other connections.

Note

- If IsoMist has been in cooling mode, the spray chamber may be “iced-up”. Set IsoMist to *standby mode* or power down for about 15 minutes prior to removing the spray chamber.
- It is recommended to clean the spray chamber after use. Contact Glass Expansion or visit Glass Expansion website for the correct cleaning procedure.
- Once removed, keep the spray chamber in a sealed container in a safe place.

IsoMist Placement

IsoMist is designed to be operated in the same (or close) position as the conventional ICP spray chamber.

For most ICP applications, additional components (fittings, brackets, etc.) will be required to integrate IsoMist with your ICP. Glass Expansion has developed a range of different IsoMist configurations to suit the diverse variety of ICP's currently on the market.

Each IsoMist configuration is referred to as a kit. In most cases, this kit will be supplied with your IsoMist package. Each kit is supplied with an Installation Guide, which will detail:

- Kit parts list

  ***Tip!* Before you start, check all parts are present**

- IsoMist set-up procedure to connect IsoMist to your ICP

If you have any questions regarding the kit supplied, contact your IsoMist supplier or visit the Glass Expansion website www.geicp.com.

If you cannot find a kit specific to your need, contact Glass Expansion for assistance with your application.

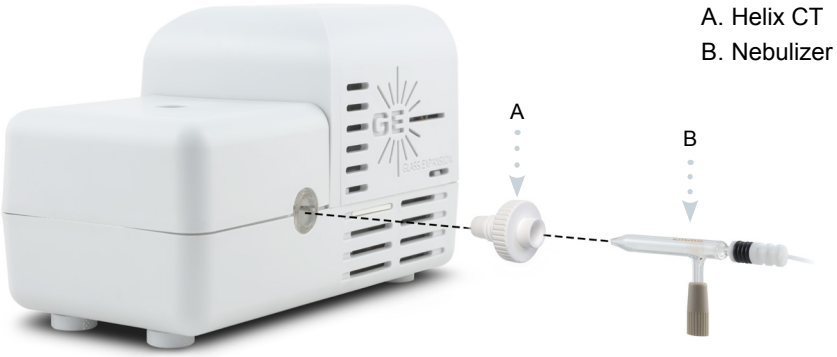
Caution

There should be adequate space around IsoMist to ensure good air circulation.

IsoMist must not be placed on a cushion, as this will block the ventilation from underneath.

Helix Fitting – Nebulizer Connection

As supplied, the IsoMist spray chamber is fitted with a Helix CT fitting. The Helix CT is a consumable item that will need to be replaced overtime. To order replacement parts visit **www.geicp.com**



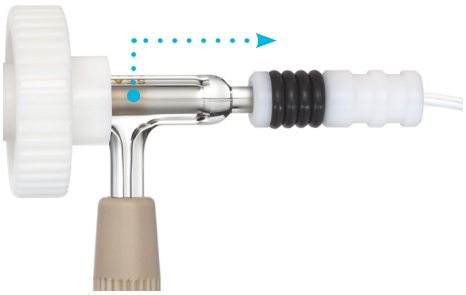
Assembling the Helix CT

Push the Helix CT Seal into the Locking Screw until it clicks into place.



Inserting & Removing the Nebulizer

1. Before inserting the nebulizer, gently turn the Helix CT Locking Screw of the Helix CT fitting anti-clockwise.
2. Insert the nebulizer to the end of its travel in the Helix CT fitting.
3. Tighten the nebulizer in place and seal the spray chamber by turning the knurled knob of the Helix CT further clickwise by hand until the ratchet mechanism clicks.
4. Check that the nebulizer is secure by gently pulling on the nebulizer where indicated on the right.
5. To remove the nebulizer, first lososen the fitting of the Helix by turning the Locking Screw counter-clockwise 1/2 turn, then slide the nebulizer straight out.



Power Connection

Connect mains power cable to an appropriate (refer technical specification) AC power outlet. Connect the power adaptor to IsoMist .



Caution

Use only the original power adaptor and mains power cable supplied with IsoMist. This will be appropriate for your local region. Contact your IsoMist supplier or Glass Expansion if the mains cable supplied is not appropriate.

Do not turn on power until all cables are connected

- Ensure all cable plugs are firmly pushed into their respective sockets
- Ensure all cables are fully un-coiled when in use.
- Ensure there is adequate ventilation around the power adaptor
- Do not operate IsoMist or power adaptor in a wet environment.
- If you are unsure about the electrical connection, check with your supervisor.

Software installation

As supplied, IsoMist can function autonomously. IsoMist's own operating software is installed and tested during manufacture. As dispatched, IsoMist will function at the default temperature setting - Refer to the technical specifications.

To monitor your IsoMist and modify its settings, you will need to install software to your host PC.

Software supplied with the IsoMist XR Pack

USB Installation Media is supplied with the IsoMist:

	Contains	Comments
IsoMist Software	IsoMist application	Controls client function
	USB Drivers	

You can communicate using either a USB cable or Bluetooth® Wireless technology PAN (Personal Area Network). Software for both communication modes can be loaded onto the PC.

Notes before installation:

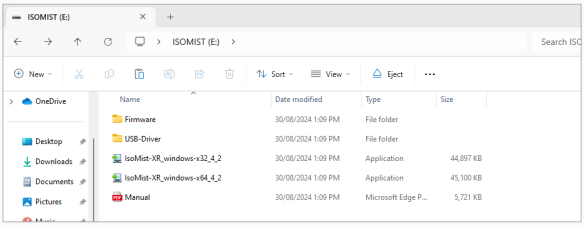
1. Ensure all IsoMist XR devices are unplugged from USB ports.
2. Ensure old USB driver is uninstalled (refer to the Uninstall IsoMist XR section).
3. Make sure you have administrator rights.

Windows® 10 / Windows® 11

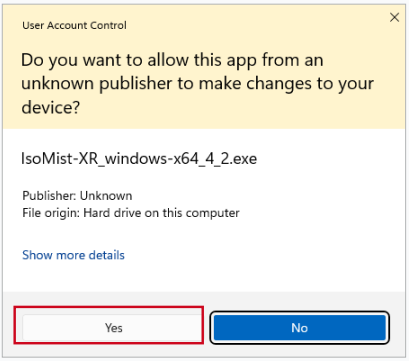
1. Exit all other programs you may have running on your PC.

2. Insert the IsoMist software Installation Media memory stick (supplied with IsoMist package) into a free USB port on your PC.

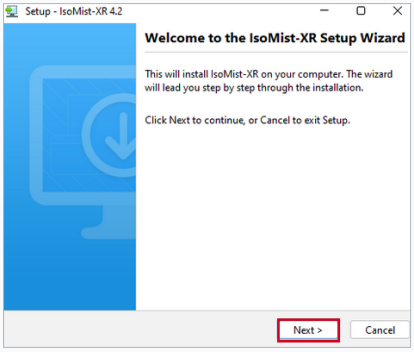
3. Locate and run the application specific to your Windows version on the Installation Media. Wait for the installer to load.
   - For 64-bit versions of Windows, run '**IsoMist-XR_windows-x64_4_2**'
   - For 32-bit versions of Windows, run '**IsoMist-XR_windows-x32_4_2**'



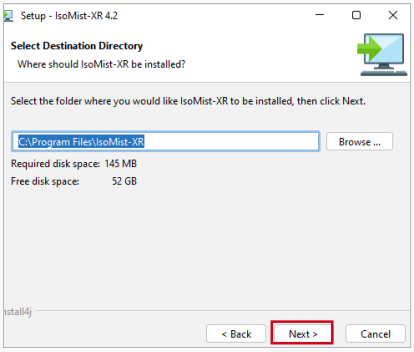
4 If the following dialogue appears, click **Yes**.



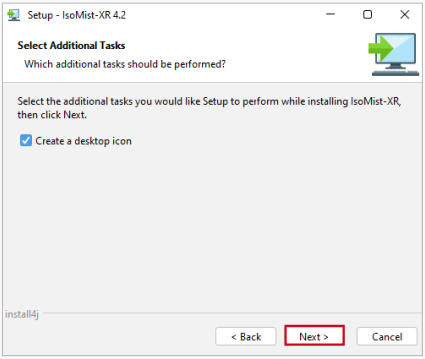
5 Click **Yes**.



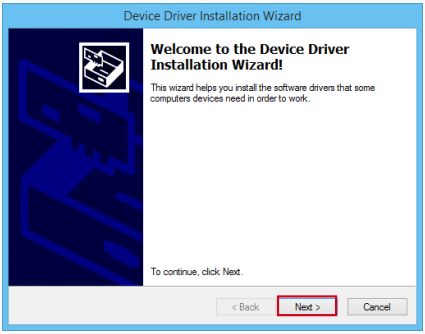
6 Click **Next**.



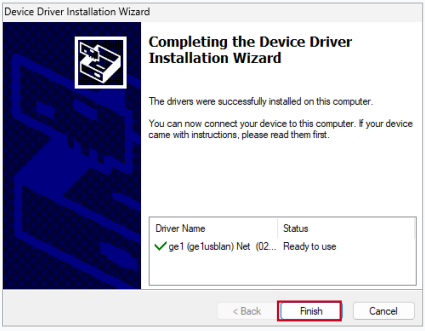
7 Click **Next**.



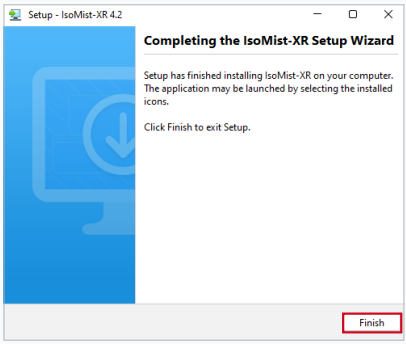
8 When the device driver wizard pops up, click **Next.**



9 When the device driver install is complete, click **'Finish'.**



10 The install is now complete.
Click **‘Finish’.**



Bluetooth® Wireless Network

- The Bluetooth® system supplied requires Windows® 10 32/64 bit or Windows® 11.
- As dispatched, IsoMist is pre-set to communicate with the dongle supplied in the Bluetooth USB Adaptor kit. The dongle is labelled with the IsoMist serial number to which it is paired.
- Each IsoMist will require its own Bluetooth Dongle.



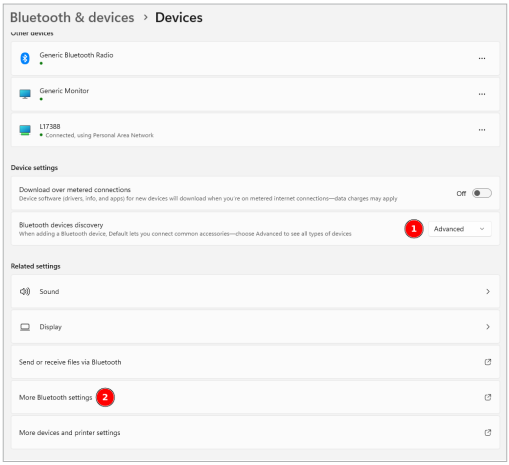
Bluetooth® EDR 2.0 wireless USB Adaptor kit contains a Bluetooth dongle

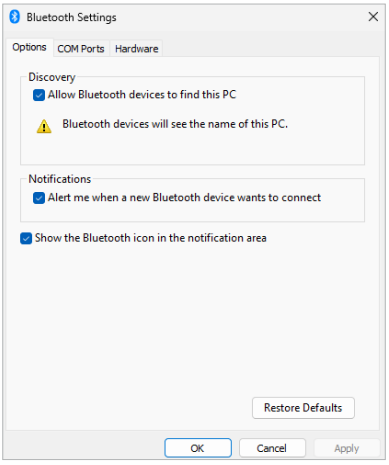
Using your computer's built-in Bluetooth module

If your PC already has another internal Bluetooth module a conflict may occur. You can either manually pair the IsoMist with the internal Bluetooth module or disable the internal module before starting the Bluetooth setup.

Manually pairing the IsoMist XR with an internal Bluetooth module

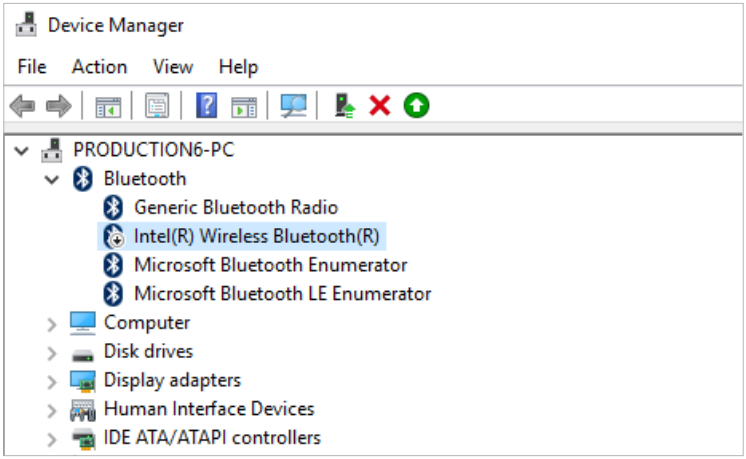
Open your Bluetooth Settings, and ensure the 'Bluetooth devices discovery' is set to Advanced. Then, click on 'More Bluetooth settings' and ensure that 'Allow Bluetooth devices to find this PC' is enabled, to continue the pairing process.

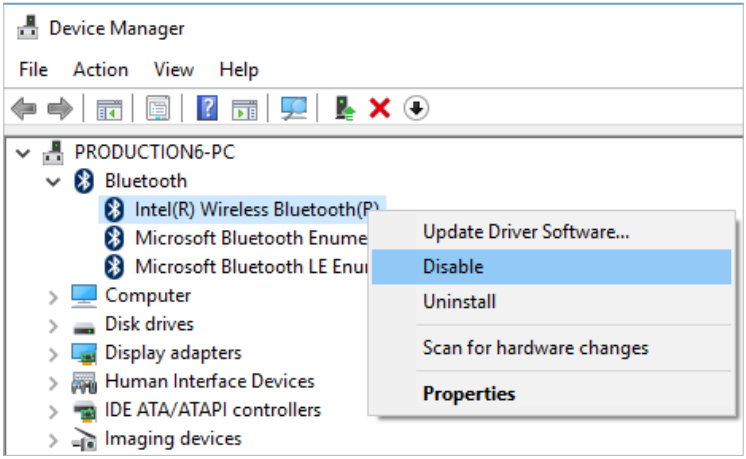




Disabling internal Bluetooth

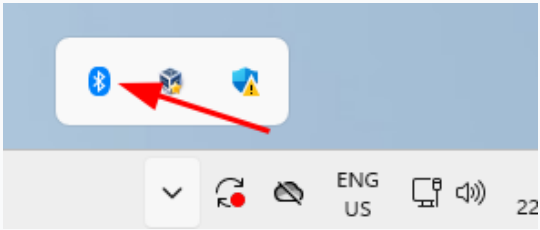
Open your Device Manager, find and select your internal Bluetooth module, right-click and select Disable from the menu.



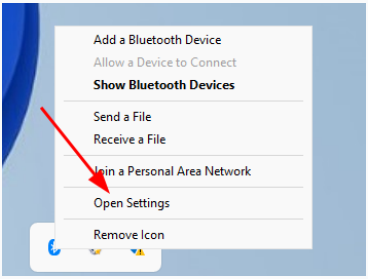


Windows® 10 / Windows® 11

1. Plug the Bluetooth dongle into a free USB port on your PC. You'll know your Bluetooth device is ready when you see a Bluetooth icon appear in your system tray.



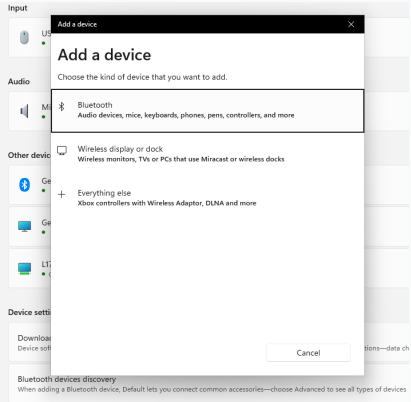
2. Right-click on the Bluetooth settings icon, and select **'Open Settings'.**



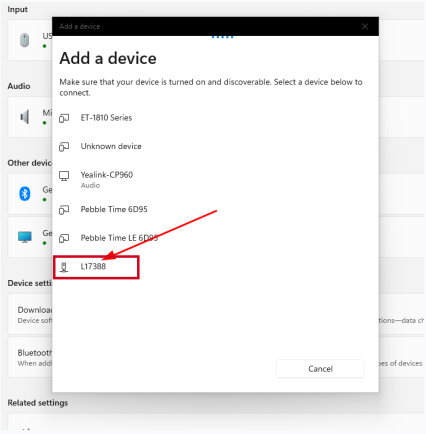
3. At the top of the Settings menu, look for **'Connect a new device'** and click the **'Add Device'** button.



4 When the **‘Add a device’** window appears, click on **‘Bluetooth’.**



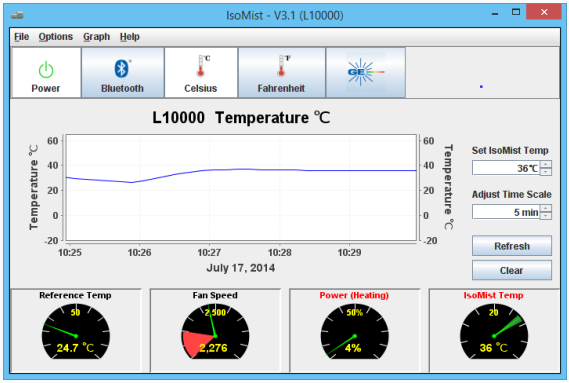
5 After 1 minute or so, you should see a device appear with a icon. The name will be the serial number of your IsoMist. Click this icon, and wait for the device to connect.



6 Launch the IsoMist software from your desktop, or the Start menu. Once the IsoMist software is open, click the **Power** button to connect to the IsoMist.



7 The **Connect** button in the IsoMist software will now change to a **Bluetooth** button, to verify that the IsoMist is connected and operational via Bluetooth communications.



Operation

Start up, Standby Mode and Power Down

Start up

Switch the power on at the power outlet. By default, IsoMist will begin to power-up, the Status LED will display a range of colours to indicate:

- White LED continuous:
  Processor start-up, 30 seconds*
- Yellow LED continuous:
  System start-up, 5 seconds*
- Green LED Flash:
  IsoMist is functioning and working to achieve chamber set temperature
- Green LED Continuous:
  IsoMist chamber is at set temp.



Standby Mode

The IsoMist can be placed in standby mode at any time. This will switch off the temperature control function (including internal fan). The IsoMist will still be active, but the set temperature will not be held, and the chamber temperature will move to ambient.

Activate standby mode by:

- Push and hold down **Standby button** (refer figure above) for approximately 3 seconds
- Clicking **Power icon** through the IsoMist software.
- Clicking **File►Power Off** through the IsoMist software

The status LED will flash red as IsoMist shuts down.

Power Down

The IsoMist can be powered down at any time by switching off the power at the AC power outlet.

* The time indicated is an approximate only.

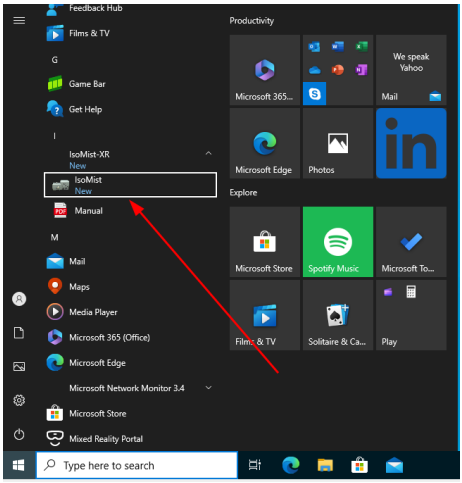
Start IsoMist XR Application

With the power connected to IsoMist and the application software installed (Refer *Getting Started*), the user can monitor and change the IsoMist set temperature through the IsoMist software.

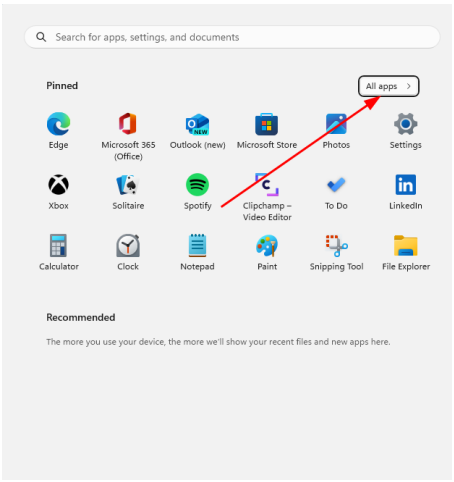
Start IsoMist application:

- For Windows ® 10, click on the **Start menu ►Program List ► IsoMist-XR ►IsoMist**
- For Windows ® 11, click on the **Start menu ►All Apps ► IsoMist-XR ►IsoMist**

Windows® 10



Windows® 11



When IsoMist software is first opened it will look like this until communication is established by clicking the connect button. Refer next topic **“Communication”.**



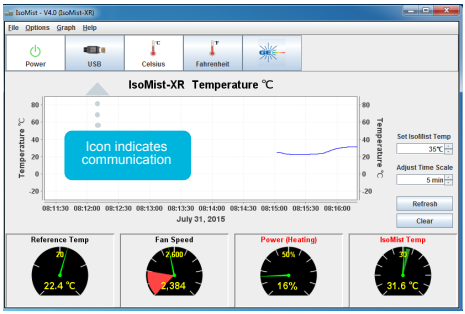
USB Cable Connection

To communicate with IsoMist via USB cable, check you have:

1. Installed IsoMist software
2. Connected IsoMist to your PC using the supplied USB cable
3. Connected and switched on power to IsoMist
4. Click the **Connect** button on the IsoMist software screen

First three points are explored in the “Getting Started” section of this Manual

Once USB connection is established, IsoMist software will look like this

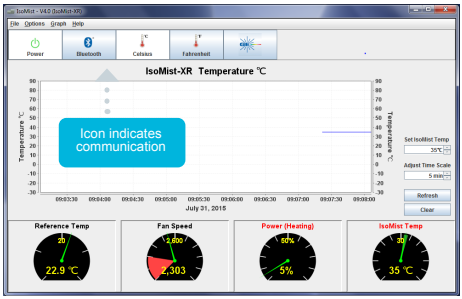


Bluetooth® Wireless Network

To communicate using the Bluetooth wireless network, check you have:

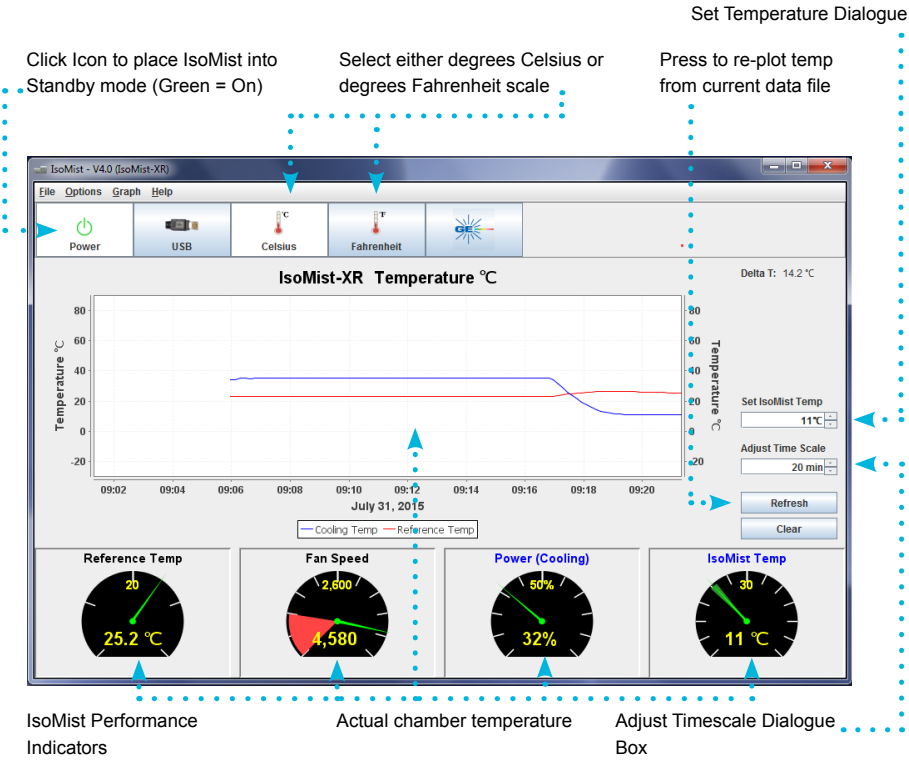
1. Installed IsoMist software.
2. Performed all steps in the Bluetooth Set Up Guide.
3. Connected and switched on power to IsoMist.
4. Check USB is not connected (USB will override Bluetooth network)
5. Click the **Connect** button on the IsoMist software screen

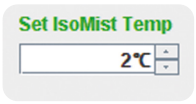
Once the Bluetooth wireless network connection is established, IsoMist software will look like this

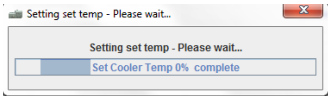


If you encounter problems with communication, review “Getting Started” section. If necessary, refer to the diagnostic section of this manual.

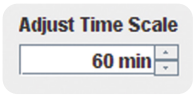
When communication is established you will be presented the following screen:







Confirmation Notice
(Acknowledgement of Set Temp. Change)



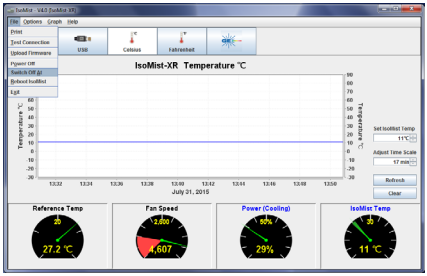
Changing set temperature

- Using mouse, click one of the arrow buttons,
- Dialogue text will change to green
- Use arrows or mouse wheel to set desired temp

Wait a few seconds. A confirmation notice will then flash on screen to acknowledge the set temperature has been changed

Adjusting the time scale

Set the time scale by either scrolling the mouse wheel inside *Adjust Time Scale* area or by entering in a value.
For example – for sixty seconds enter **60s**, for five minutes enter **5m** or for four hours enter **4h**.



Switch Off At

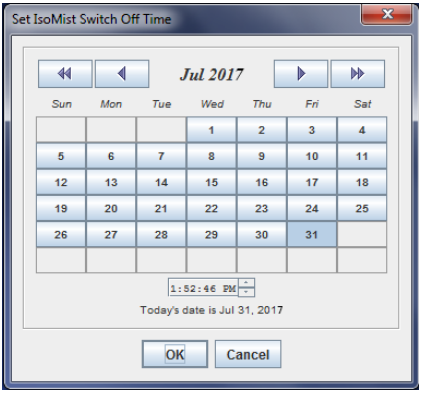
IsoMist provides the facility to switch off the device at a particular time.

To do this select **File►Switch Off At**. Select your desired switch off time in the calendar dialogue and press **OK**.

After a second or two the status indicator at the top right of the program will display the *Switch Off Time* as selected.

You can cancel this by either pressing the **Power Off** button or selecting **File►Switch Off At** and pressing **cancel** in the calendar dialogue.

You can even turn off the IsoMist software and the device will still power down at the requested time.



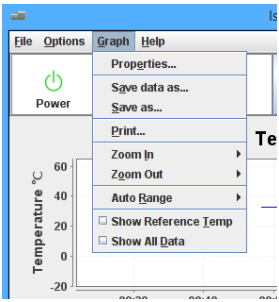


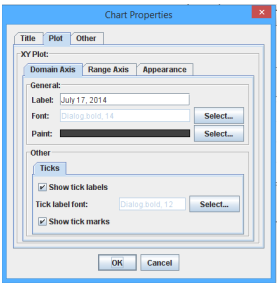
Graph (Data) Utilities

Clicking the Graph button (top bar IsoMist software) will present the following options:

Properties

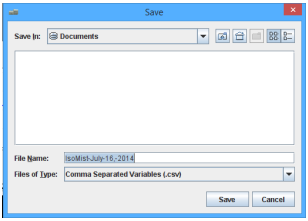
Window to make changes to graph format.





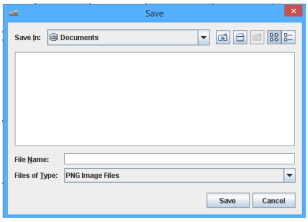
Save data as

Window to save a data file (recorded IsoMist chamber temperature over time) to your PC. (CSV format)



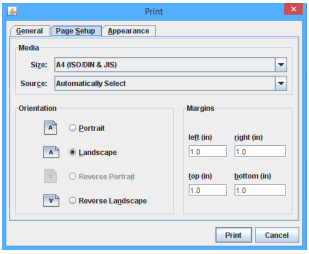
Save as

Window to save the current graph image to your PC



Print

Window to format and print the IsoMist temperature plot.



Diagnostics

Faults and Corrective Action

The following table lists a number of actions that can be taken should you encounter a problem with the IsoMist. If you cannot resolve the problem after completing these instructions, please contact your IsoMist XR supplier or Glass Expansion.

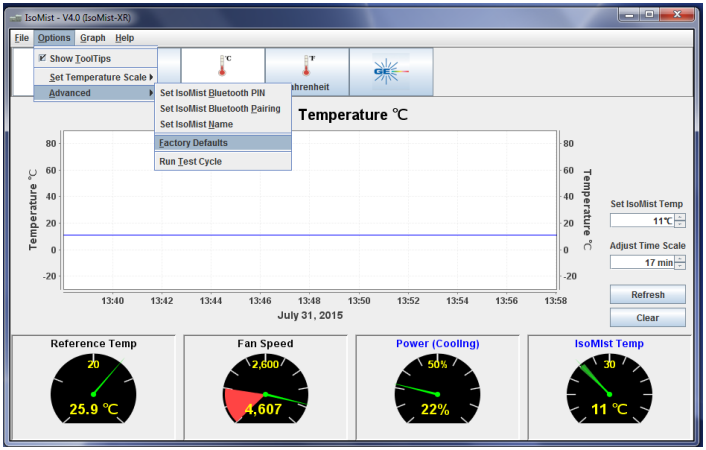
Fault	Solution
IsoMist will not complete start up (status LED - violet)	i. Check power cables are firmly connected. ii. Switch IsoMist power off and then on at the power outlet. Repeat if necessary. Tip: Do not connect a live power cable to IsoMist as a means to start-up. The best practice is to always use power outlet **on/off** switch.
Communication error USB (or Bluetooth)	**For both USB and Bluetooth** i. Check IsoMist is powered on. ii. Power down IsoMist, wait 10 seconds, then power up. iii. Power down and then restart your PC iv. Check the PC USB port (try using another USB device that you know works). v. Review Operation Manual - “Getting Started”, and “Software Installation Guide” for IsoMist and/or Bluetooth wireless network. **For USB Connection** i. Remove and then reinsert USB cable - check cable is firmly connected at PC and IsoMist. ii. Try to restart the PC iii. Try a different port on the PC iv. Uninstall IsoMist & USB driver, re-install after restarting the PC v. Try to install on a different PC Remove and then reinsert USB cable - check cable is firmly connected at PC and IsoMist. **For Bluetooth** i. Check USB cable is un-plugged from IsoMist. ii. Try “Troubleshooting Bluetooth Settings” (over page). iii. Remove then reinsert Bluetooth dongle. iv. Check Bluetooth adaptor is firmly inserted into the computer USB port.
Cannot achieve set temperature	i. Check ambient temperature is below 30°C (optimal room temperature is 22°C). ii. Check there is adequate ventilation around IsoMist. iii. Check the spray chamber cover is screwed down correctly. iv. Check the spray chamber for damage.
Condensation build-up inside spray chamber	i. Check drain (underside of IsoMist). ii. Check all connections to spray chamber.
Intermittent USB Communication	Check for corrosion on the USB socket and cable contacts. If corrosion is present on the cable contacts, please try using a new USB cable. If corrosion is present on your computer’s USB socket, please try to use an alternate USB socket free of corrosion. Please consult with your PC manufacturer for further advice in regard to corrosion on your computer’s USB ports.
Excessively long time taken to reach set temperature below 0°C (> 40 minutes)	Run IsoMist at a set temperature of 60°C for 24 hours to restore performance.

Reset IsoMist XR to Default Settings

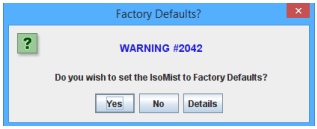
To return IsoMist settings to default (Factory Settings) perform the following:

1. Power down IsoMist
2. Turn on power (or re-start from *Standby*).
3. As IsoMist starts up, status LED changes to yellow (fan speed will also slow). Press and hold down the standby button, until LED changes to blue – Signalling that IsoMist has been reset to default.
4. Release standby button, IsoMist will now start as normal

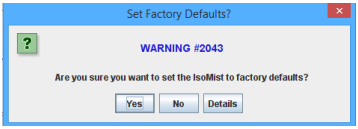
IsoMist can also be reset to default from the software screen:
Options►Advanced►Factory Defaults



Click **Yes**



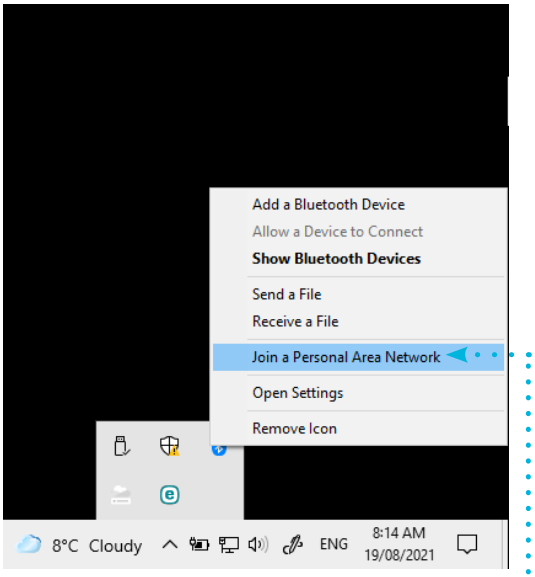
Click **Yes**



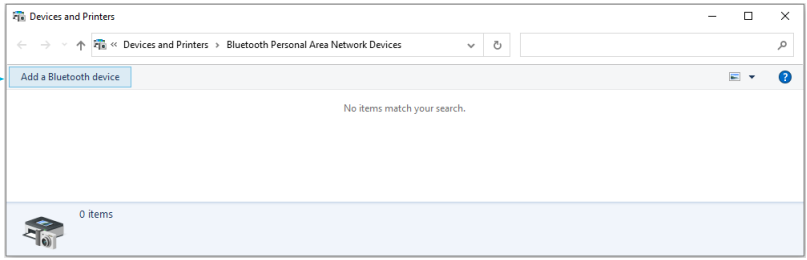
Adding IsoMist Bluetooth Device

It is recommneded to add the IsoMist as a Bluetooth PAN device in Windows. Make sure the internal Bluetooth radio is disabled (refer to User Manual).

1. Attach the provided Bluetooth dongle, find and click on Bluetooth icon in the Windows taskbar next to the time and date (tray icons).
2. Click on “Join a Personal Area Network” then click on Add a Bluetooth device.

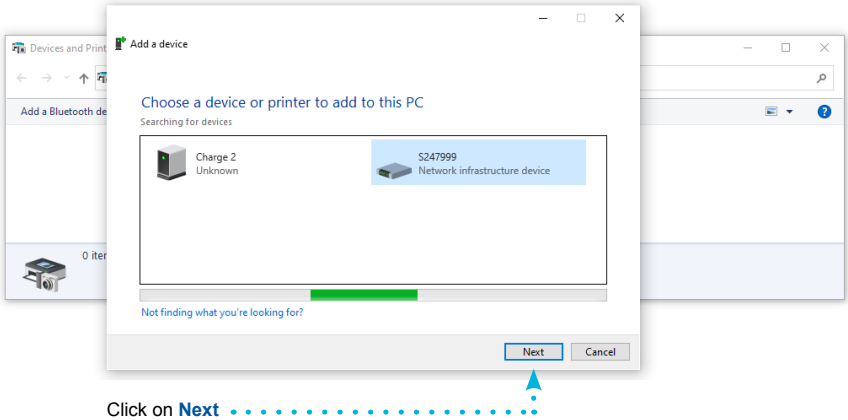


Click **Join a Personal Area Network**

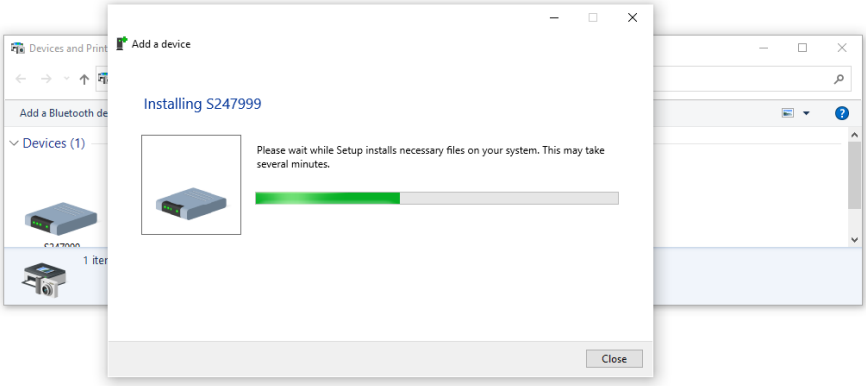


Click on **Add a Bluetooth device**

1. Wait for IsoMist serial number to appear in the scan list and select the IsoMist and click on the next.



2. When successfully installed, close the window and use IsoMist software to connect to the device.



The process of scanning and installing might need to be repeated a few times until Windows successfully accept the device. However, this is only required to be done once on a new computer.

Troubleshooting Bluetooth Settings

In the event that you experience problems connecting to IsoMist through the Bluetooth wireless network, please check that the Bluetooth settings are correct as follows:

- Make sure the Bluetooth dongle is plugged into your PC and properly installed.

Right click the **Bluetooth** icon in the taskbar, and select **Open Settings**.

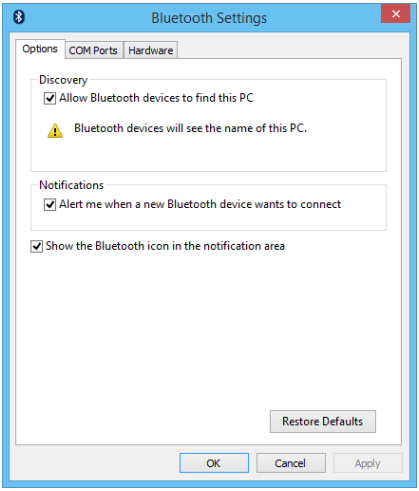


In the window that appears, click the **Options** tab.

Make sure **Allow Bluetooth devices to connect to this computer**, is checked.

Make sure **Alert me when a new Bluetooth device wants to connect**, is checked.

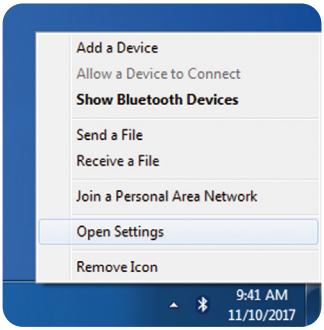
Click **Apply**, then **OK**.



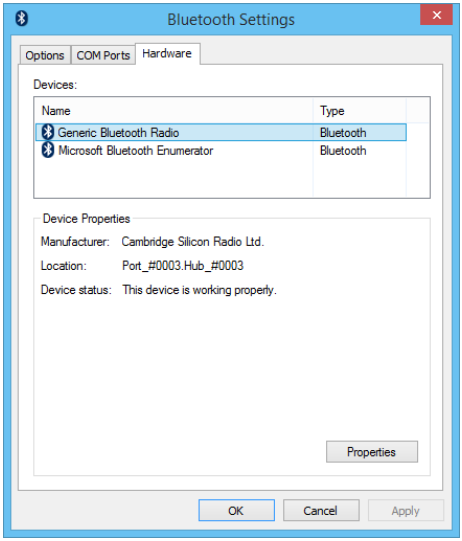
Changing Bluetooth dongle used with IsoMist XR

Although IsoMist is commissioned and dispatched with its own (paired) Bluetooth dongle an alternative Bluetooth system can be substituted. The following changes will need to be made to IsoMist.

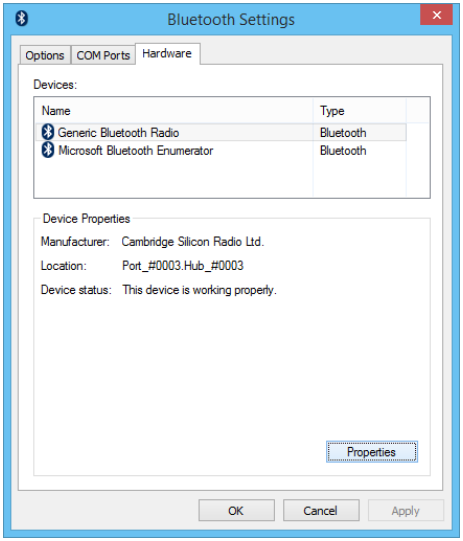
1. If connected remove the previous Bluetooth dongle from your PC.
2. Insert the new Bluetooth dongle into your PC.
3. Right click the **Bluetooth** icon in the taskbar, and select **Open Settings.**



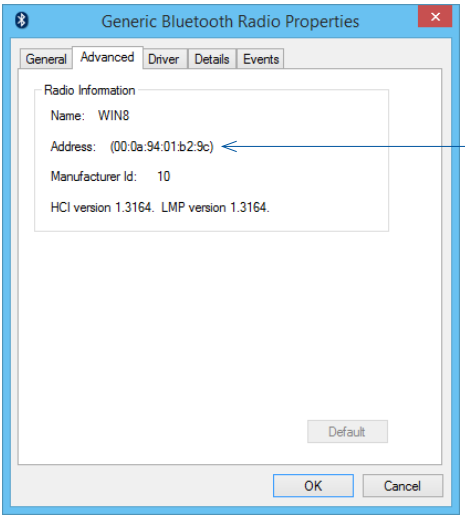
4. Click the **Hardware** tab on the dialogue box that appears.



5. Select the **Generic Bluetooth Radio**, and click **Properties**.



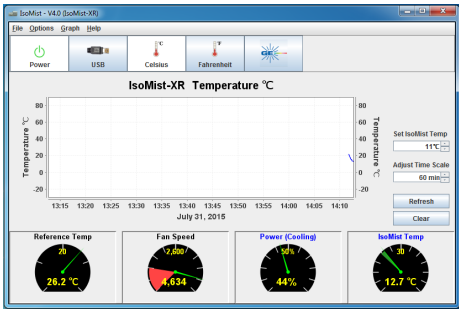
Changing Bluetooth dongle used with IsoMist XR



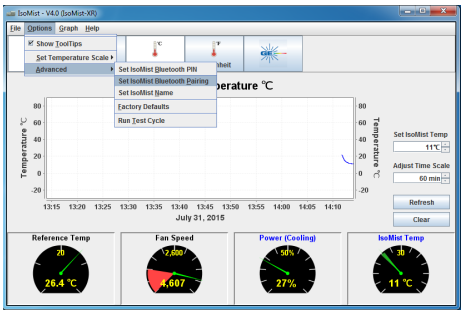
6. In the dialogue that appears, click the **Advanced** tab. **Write down the device address shown.**

7. Connect IsoMist to your PC using USB cable supplied with IsoMist.

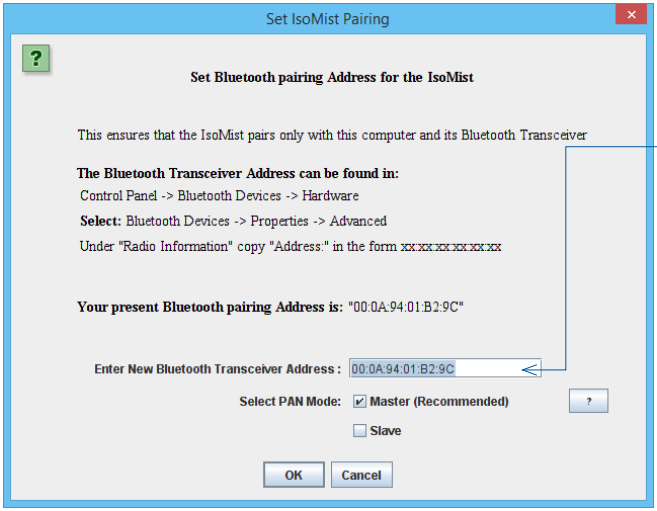
8. If not already running, start IsoMist Software and connect to IsoMist.



9. Ensure IsoMist software is connected through USB.



10. Select **Options►Advanced►Set IsoMist Bluetooth Pairing**



11. Enter the device address, found in step 6, into the Bluetooth transceiver address dialogue box.

12. Select **Master** or **Slave** PAN mode operation:

- **Master** (Glass Expansion Bluetooth dongle)
- **Slave** (For assistance with third party Bluetooth, please contact Glass Expansion)

13. Click OK.

14. Disconnect USB Cable then close and restart IsoMist software

15. IsoMist should now be able to connect to your PC. To complete the setup, follow steps 2 onward on page 22 in the **"IsoMist XR Bluetooth setup guide"** section of this manual.

Please refer to the "Bluetooth Set Up Guide" for further information on how to complete the Bluetooth connection to the IsoMist XR.

Uninstall IsoMist software

Following installation of IsoMist software onto your PC you should have the following programs:

- Glass Expansion USB Network Device Software and;
- IsoMist.

If necessary, you can remove these programs using the standard Windows® procedure. As a guide, the following pages provide a step by step procedure.

You must have administrator rights to uninstall software from your PC. First, you must close any other programs you may have running and it is recommended you restart your PC when prompted.

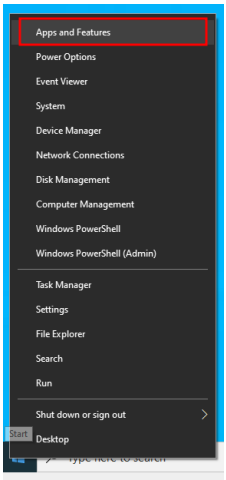
How to uninstall

Detach the IsoMist XR USB cable from your PC before removing the USB driver and IsoMist software.

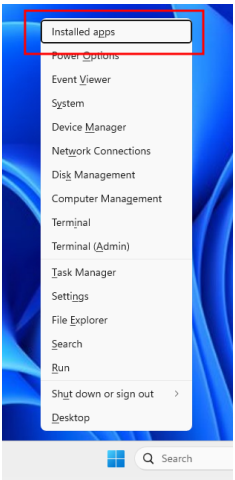
1. Click **Start**.
2. For Windows® 10: Right-click the **Start button ► 'Apps and Features'**

   For Windows® 11: Right-click the **Start button ► 'Apps and Programs'**
3. To uninstall the IsoMist application, search for: 'isomist' and look for **'IsoMist-XR'**.

Windows® 10



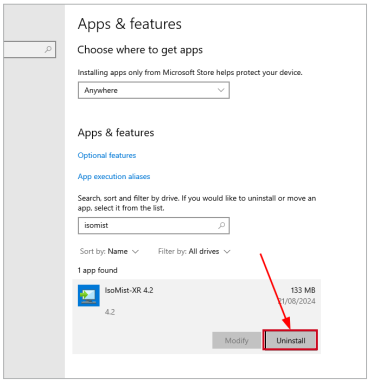
Windows® 11



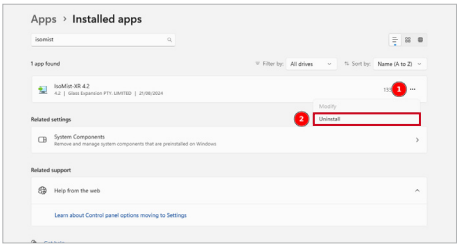
4. Click the **‘Uninstall’** button

- For Windows® 10: Click the application, then click **‘Uninstall’**
- For Windows® 11: Click the three dots to the right on the application listing, and select **‘Uninstall’**

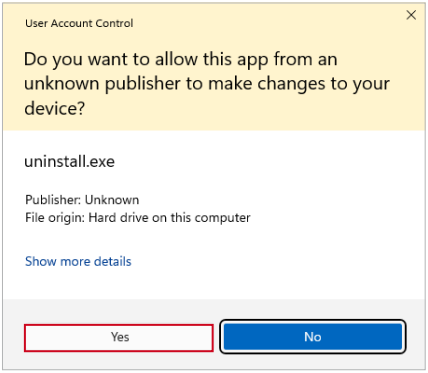
Windows® 10



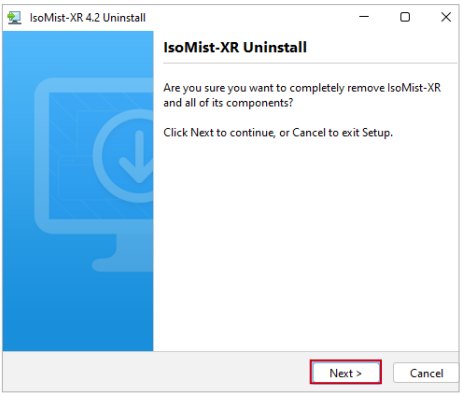
Windows® 11



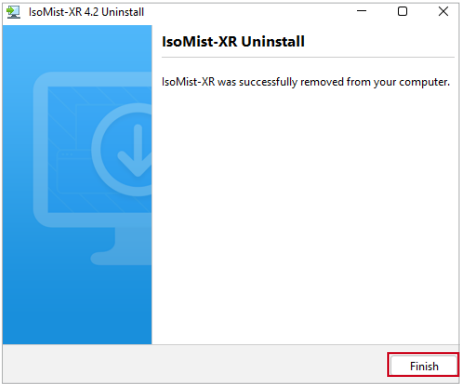
5. If the following dialogue appears, click **‘Yes’**



6. Click **'Next'**



7. The uninstall is now complete. Click **'Finish'.**



Service and Support

Glass Expansion's prime objective is to supply world-class products and prompt customer service. To ensure minimum downtime, should you encounter any problems with IsoMist or the power adaptor device, we ask you check the following points first before calling for assistance:

- Is the mains power cable fully plugged into the AC power outlet and is the power outlet switched on?
- Is the AC power outlet functioning correctly? (Check by using another electrical device)
- Are all connections correct?
- Is there adequate ventilation around the IsoMist?
- Have you reviewed the *Diagnostic* section in this manual?
- Is the ICP Instrument functioning correctly?

Should none of these actions resolve the problem, contact your IsoMist supplier or Glass Expansion.

INTERNATIONAL

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Product Care

General Care

Ensure components associated with the IsoMist are not dropped, nor have heavy objects dropped or stored on top of them.

If you know or suspect a heavy object or liquid has been dropped onto the IsoMist or the power adaptor, turn off both devices immediately and contact the IsoMist supplier or Glass Expansion.

Cleaning

Before cleaning the IsoMist, it is good practice to always disconnect the power from the power outlet.

Clean the IsoMist with a cloth lightly moistened with a mild detergent solution.

Do not use any type of abrasive pad, scouring powder, or solvent as these can damage the component surface.

Storage

When not in use, the IsoMist can be stored away in the container in which it arrived.

Do not store IsoMist in an environment that could be subject to:

- Ambient temperature above 35°C (95°F) or below 10°C (50°F)
- Hazardous chemicals
- Excessive dust
- High humidity
- Wet or moist area

Glass Expansion Warranty

All Glass Expansion products are supplied with our NO-RISK GUARANTEE. If the performance of the product is unsatisfactory or if it is unsuitable in any way, we will provide a credit or refund, provided it is returned in original condition within 14 days of receipt*.

We warrant that all of our products are free from defects in material and workmanship and meet applicable specifications. We agree to repair or replace, at our option, a product that, under proper and normal use, proves to be defective within 12 months of delivery. We may, at our option, use refurbished items that are equivalent to new in performance. Repaired or replaced products are warranted for the balance of the original warranty period.

This warranty does not include consumable items that, by their nature, may not function for 12 months. Such items include nebulizers, spray chambers, torches, tubing, valves, RF coils, cones, and components of these items. Other items made from glass, quartz or ceramic are also not included in the 12-month warranty. The consumable items listed here are warranted only that they are free from defects in material and workmanship and meet applicable specifications on delivery.

This warranty does not cover defects resulting from improper or inadequate use, installation, maintenance or repair. We also do not accept liability for consequential damage of any kind arising from the use of our products. It is the purchaser's responsibility to ensure that our products will be used only by qualified persons who are properly trained in the appropriate laboratory procedures and that the products are safely stored, handled and used. We assume no liability for any injury to personnel or damage to equipment arising from the handling or use of our products.

Procedure for Product Returns

If you need to return a product, please advise us by email to **enquiries@geicp.com** and we will send you a Product Return Form.

If a product has been used, you will be asked to detail things like how long it was used for and what it was used for. Once we receive the returned product, our technicians test and evaluate the product and we then advise you the outcome of the evaluation and whether a product exchange or refund can be issued. For account customers, refunds are given in the way of credit notes applied to the customer's original invoice/account. If a product exchange is issued, we provide a credit note for the product returned and invoice the customer for the new product.

For health and safety precautions, all products returned to Glass Expansion must be free from any hazardous contaminants. Please ensure that all products are properly cleaned and safe for handling before returning to us.

Glass Expansion reserves the right to refuse acceptance and/or inspection of any returned products which show visible signs of hazardous contaminants.

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* This does not apply to nebulizers without EzyLok and spray chambers without Helix. We have now standardised our production on nebulizers with the EzyLok argon connector and spray chambers with the Helix nebulizer interface, and these are what we hold in stock. We will still accept orders for nebulizers without EzyLok and spray chambers without Helix, but these now need to be specially made. Since they cannot be returned to stock, we will not accept return of these products unless they are faulty. If they are faulty, they can still be returned for replacement or refund.

INS-0289

IsoMist™ XR

www.geicp.com

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