





Micro GC Fusion[®] EZ IQ and Micro GC Fusion Driver Installation Guide

PN 074-663-P1B



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Chapter 1 EZ IQ Installation

1.1 Introduction

Micro GC Fusion is compatible with INFICON EZ IQ software (PN G2801-64002). To connect Micro GC Fusion to EZ IQ, the Micro GC Fusion driver for EZ IQ must be installed on the EZ IQ computer and a license for Micro GC Fusion driver on OpenLAB or EZ IQ (PN 952-389-G1) must be obtained from INFICON and installed on Micro GC Fusion.

1.2 Computer Minimum Requirements

The EZ IQ computer must meet the following requirements:

Туре	Microsoft Operating System	CPU	RAM ¹	Disk Space	Network	Graphics
Minimum Configuration	XP Pro. SP3 with.Net 3.0 or Vista Business SP1 or Windows 7 Pro 32-bit	2 GHz	2 GB	10 GB	See section 1.2.1.	1024 x 768
Recommended Configuration	XP Pro. SP3 with.Net 3.0 or 3.5 SP1 or Vista Business SP1 or Windows 7 Pro 32-bit	Dual core 2 GHz	2 GB	10 GB and >60% free HD space	100 Mbps or higher	1280 x 1024 or higher

¹RAM total available memory for EZ IQ including the operating system, but no other application.

1.2.1 Important Notes

- Microsoft TCP/IP networking is required for all products. WAN's (wide area networks) are not supported.
- Disk space requirements should be adjusted based on archival periodicity. INFICON recommends a minimum of one year of the expected disk usage on top of the recommendation of the operating system. For reference, each analysis will generate a data file of ~200 KB.
- Micro GC Fusion software must be upgraded to version 1.3 or higher.

1.3 Install EZ IQ

To install EZ IQ onto a Windows computer:

- **1** Insert the EZ IQ Installation CD into the computer CD-ROM drive.
- **2** The **CD Installer** window will display. (See Figure 1-1.) If it does not display, double-click **CDInstaller.exe** under the CD-ROM root drive.
- 3 Click Install EZ IQ to start the installation.

Figure 1-1 CD Installer window

+ CD Installer	
NFICON	^
> Install EZ IQ	
Read the Release Notes (Requires Adobe® Acrobat® Reader)	
 Online Manual (Requires Adobe® Acrobat® Reader) 	
Visit the INFICON Website	
	~



4 The EZ IQ Setup - Welcome to the InstallShield Wizard for EZ IQ window will display. (See Figure 1-2.) Click Next>.

Figure 1-2 EZ IQ Setup - Welcome window



5 The **EZ IQ Setup - Choose Destination Location** window will display. (See Figure 1-3.) Choose an EZ IQ software installation destination folder. It is recommended to use the default destination folder **C:\EZIQ**. Click **Next>**.

Figure 1-3 EZ IQ Setup - Choose Destination Location window

EZ IQ Setup	\mathbf{X}
Choose Destination Location Select folder where setup will install files.	X
Setup will install EZ IQ in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse another folder.	and select
Destination Folder	
C:\EZIQ\	Browse
InstallShield	
< <u>B</u> ack <u>N</u> ext >	Cancel

6 The EZ IQ Setup - Select Program Folder window will display. (See Figure 1-4.) Type in a name for the Program Folder. This name will be shown in the Start >> All Programs menu. It is recommended to use the default Chromatography program folder name. Click Next>.

Figure 1-4 EZ IQ Setup - Select Program Folder window

EZ IQ Setup	×
Select Program Folder Please select a program folder.	
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue. Program Folder:	
Existing Folders: Accessories	
BlackBerry Client-end Software of ICBC Internet Banking Cute Screen Recorder Free Version Diablo EZReporter Euit Seroy	
Games Intel(R) Management and Security	
InstallShield	

7 The EZ IQ Setup - Setup Status window will display. (See Figure 1-5.)

Figure 1-5 EZ IQ Setup - Setup Status window

EZ IQ Setup	\mathbf{X}
Setup Status	
EZ IQ is configuring your new software installation.	
Installing Program Files	
]
Install5hield	Cancel



8 When prompted, click **Yes** to create an EZ IQ desktop shortcut. (See Figure 1-6.)



Figure 1-6 EZ IQ Setup - Setup Status window and EZ IQ shortcut icon

9 Various EZ IQ installation windows will display. Some are shown in Figure 1-7 through Figure 1-11.



Figure 1-7 EZ IQ RUO2 Setup - Setup Status window

Figure 1-8 EZ IQ 3.3.2 SP2 Setup - Setup Status window

EZ IQ 3.3.2 SP2 Setup	×
Setup Status	
EZ IQ is configuring your new software installation.	
Installing Program Files	
C:\EZIQ\DevExpress.Data.v9.2.dll	
InstallShield	
	Cancel



Figure 1-9 EZ IQ Setup - cmd.exe window



Figure 1-10 INFICON MicroGC Setup - Setup Status window

INFICON MicroGC Setup	
Setup Status	
EZ IQ is configuring your new software installation.	
Installing	
(**************************************	
InstallShield	
	Cancel





10 When the installation is complete, the EZ IQ Setup - Reboot to Complete Setup window will display. (See Figure 1-12.) Select Yes, I want to restart my computer now. Click Finish.

Figure 1-12 EZ IQ Setup - Reboot to Complete Setup window

EZ IQ Setup			
	Reboot to Complete Setup		
	Setup has finished copying files to your computer		
A .	Please Note: In order to complete installation, you must reboot. If you are required to log on, you must log on as the user who started the installation.		
	Yes, I want to restart my computer now.		
	No, I will restart my computer later.		
	Remove any disks from their drives, and then click Finish to complete setup.		
	< Back Finish Cancel		



11 Once the computer reboots, the **Data System** window will display. (See Figure 1-13.) Click **OK** to complete the installation.

Figure 1-13 Data System - Installation complete window

Data System 🛛 🔀		
installation complete	в.	
ОК		

1.4 EZ IQ Installation Qualification

EZ IQ provides an installation qualification tool to verify that the software was installed correctly.

- 1 Select Start >> Chromatography >> Installation Qualification (IQ).
- 2 A Report.TXT file will display. If the installation was successful, Installation Qualification Test: PASSED will appear. (See Figure 1-14.)

Figure 1-14 EZ IQ Installation Qualification Test: PASSED

Installation Qualification F Jun 02, 2011 07:27 PM	leport			
Installation Qualification 7	est: PASSED			
Installed components				
EZIQ_3.3.2				
VICIValveAddOn_3.3.2				
BaseSystem_3.3.2_RU02				
BaseSystem_3.3.2_SP2				
AgilentGCAddon_3.3.2_RevU4				
BaseSystem_3.3.2_R004				
Update3321041				
InficonGC 332				
InficonOEMInterface				
Superseded components				
NONE				
VALID Modules	9	ize Checks	um Qualification S	ource
AcqDUIBase.dll	184	320 Ox9D3D22	F2 EZIQ_3.3.2	
AeEliteAdapter.IFace	94	208 OxDFEDD3	49 Update3321041	
AG68xx.Config.dll	242	688 OxBFF9C2	C8 AgilentGCAddOn_	3.3.2_Rev04
AG68xx.Method.dll	1160	704 0x7DFF21	.F7 AgilentGCAddOn_	3.3.2_Rev04
AG68xx.Status.dll	142	848 0x7FFB9D	5B AgilentGCAddOn_	3.3.2_Rev04
AG68xx.Utility.dll	65	632 OXFFEEBO	UB AgilentGCAddon_	3.3.2_Rev04
AGCOLUMNDB.V3.1.dll	190	402 0********	AL INFICONGC_332	2 2 2 Derr04
AUCIGIOCODIV.EXE	1552	194 UXEBBALS	le AgrientGCAddOn_	3.3.2_ReV04
AGGC68YYWrapper.ull	290	440 0vFF3C84	36 bgilentGClddOn	3 3 2 Pev04
AGC789011eMF d11	265	216 OVE3FE7D	92 MailentGClddOn	3.3.2 Rev04
AgGC7890Drv.dll	734	208 0xF37B3F	C7 AgilentGCAddOn	3.3.2 Rev04
	10			



3 If the installation was not successful, **Installation Qualification Test: FAILED** will appear. (See Figure 1-15.) Reinstall EZ IQ. If the problem continues, contact INFICON.

Figure 1-15 EZ IQ Installation Qualification Test: FAILED

Installation Qualification Repo Feb 24, 2015 01:34 PM	ort		
Installation Qualification Test	t: FAILED		
Installed components			
EZIQ_3.3.2			
InficonOEMInterface			
InficonGC_332			
BaseSystem_3.3.2_RU02			
BaseSystem_3.3.2_SP2			
BaseSystem_3.3.2_R004			
Update3321041			
VICIValveAddOn 3.3.2			
INFICON Micro GC Fusion			
Superseded components			
NONE			
INVALID Modules		Size	Checksum
Qualification Source			
AgGC68XXWrapper.dll		290816	0xEDFF90A1
InficonGC_332			
AgGC68XXWrapperUtility.dll		61440	0xEE3C8636
InficonGC_332			
Axinterop.HPCTU12801Method.dll		5632	UXFFFF9AC3
Inficonce_332		40060	0
Interop.AgktwrapperirLiD.dll		40300	OXDOF033F1
Interop. HPCT2801drv.dll		249856	0x1BD82B8F
InficonGC 332		215050	UAIDD02D01
Interop.HPCTSvsUI.dll		12288	0x7FF2C540
InficonGC 332			
RapidControlIF.dll		98304	0xBEF91F3E
BaseSystem_3.3.2_SP2			
RCNetCOMInterop.dll		81920	0xDEFE6192
BaseSystem_3.3.2_SP2			

Chapter 2 Micro GC Fusion Driver Installation and Configuration

2.1 Installing Micro GC Fusion Driver for EZ IQ

The EZ IQ driver is available for download from http://www.inficon.com/tabid/244/en-US/default.aspx.

- **1** Download the Micro GC Fusion driver for EZ IQ from under the **Software Downloads** tab (http://www.inficon.com/tabid/244/en-US/default.aspx).
 - 1a Click Micro GC Fusion Driver for EZ IQ.
 - *1b* Enter user information and then click **Start Download**.
 - 1c The file MicroGCFusion-EZIQ-Driver.Setup will download.
- 2 Double-click on **MicroGCFusion-EZIQ-Driver.Setup** to start the installation process.
- **3** The INFICON Micro GC Fusion for EZ IQ Setup window will display. Click Next. (See Figure 2-1.)

Figure 2-1 EZ IQ driver welcome window



4 The End-User License Agreement window will display. (See Figure 2-2.)

Figure 2-2 End-User License Agreement

🙀 INFICON Micro GC Fusion for EZ IQ (v1.0-alpha2) Setup
End-User License Agreement Please read the following license agreement carefully
THIS IS A LEGAL AGREEMENT BETWEEN YOU AND INFICON, INC. ("INFICON"). PLEASE CAREFULLY READ THE FOLLOWING TERMS AND CONDITIONS BEFORE SELECTING "ACCEPT." THIS LICENSE AGREEMENT REPRESENTS THE ENTIRE AGREEMENT CONCERNING THE SOFTWARE AND THE DOCUMENTATION BETWEEN YOU AND INFICON AND IT SUPERSEDES ANY PRIOR PROPOSAL, REPRESENTATION, OR UNDERSTANDING BETWEEN YOU AND INFICON RELATING TO THE SUBJECT MATTER OF THIS AGREEMENT. BY PROCEEDING WITH INSTALLATION OR VEEDING THE SOFTWARE FOR MORE THAN 20 DAYS. YOU ARE
Print Back Next Cancel

5 If the terms of the End-User License Agreement are acceptable, select I accept the terms in the License Agreement. Click Next. (See Figure 2-3.)

Figure 2-3 Accept the terms in the End-User License Agreement

🙀 INFICON Micro GC Fusion for EZ IQ (v1.0-alpha2) Setup
End-User License Agreement Please read the following license agreement carefully
THIS IS A LEGAL AGREEMENT BETWEEN YOU AND INFICON, INC. ("INFICON"). PLEASE CAREFULLY READ THE FOLLOWING TERMS AND CONDITIONS BEFORE SELECTING "ACCEPT." THIS LICENSE AGREEMENT REPRESENTS THE ENTIRE AGREEMENT CONCERNING THE SOFTWARE AND THE DOCUMENTATION BETWEEN YOU AND INFICON AND IT SUPERSEDES ANY PRIOR PROPOSAL, REPRESENTATION, OR UNDERSTANDING BETWEEN YOU AND INFICON RELATING TO THE SUBJECT MATTER OF THIS AGREEMENT. BY PROCEEDING WITH INSTALLATION OR VEEDING THE SOFTWARE FOR MORE THAN 20 DAYS, YOU ARE
☑ I accept the terms in the License Agreement
Print Back Next Cancel



6 The driver installation will begin. (See Figure 2-4.)

Figure 2-4 Driver installation

謝 INFICON Micro GC Fusion for EZ IQ Setup					
Installing INFICON Micro GC Fusion for EZ IQ					
Please wait while the Setup Wizard installs INFICON Micro GC Fusion for EZ IQ.					
Status:					
Back Next	Cancel				

7 Once the installation is complete, click **Finish** to exit the setup wizard. (See Figure 2-5.)

Figure 2-5 Click Finish to exit the setup wizard

ſ	🛃 INFICON Micro GC Fusion for EZ IQ Setup					
	NFICON	INFICON Completed the INFICON Micro GC Fusion for EZ IQ Setup Wizard				
		Click the Finish button to exit the Setup Wizard.				
		Back Finish Cancel				

2.2 Micro GC Fusion Driver License Activation

Perform the following steps to activate Micro GC Fusion access from EZ IQ.

- **1** Ensure the following materials are readily available:
 - The License Certificate ID from the License Certificate for EZ IQ or Open LAB Access (PN 952-389-G1).
 - The serial number of the Micro GC Fusion that will connect to EZ IQ

- 2 On a computer with access to the internet, open a web browser. Type http:\\fusionlicense.inficon.com in the address bar and press enter. Enter the License Certificate ID and Instrument Serial Number. (See Figure 2-6.)
 - **NOTE:** Web browsers including the latest version of Google Chrome, FireFox and Internet Explorer are supported. Refer to 074-594-P1 Micro GC Fusion Operating Manual for support on older web browser versions.

Figure 2-6 License Activation and Download



- **3** Click **Download License** to download the **openlab-fusion.license** file onto the computer. (Refer to Figure 2-6.)
 - **NOTE:** If a different computer was used to download the license file, transfer the **openlab-fusion.license** file to the computer connected to Micro GC Fusion.

NOTE: The serial number can be found on the product label on the back of the instrument.



- **4** Complete the license activation by uploading the Micro GC Fusion license file into the Micro GC Fusion via the web-based user interface on the computer.
 - **4a** On the computer that is connected to Micro GC Fusion, open a web browser. Type the instrument hostname or IP address of the connected Micro GC Fusion in the address bar and press enter.
 - **4b** Click the **System Administration** button. Click the **System Configuration** button.

4c C	lick the	ら	icon. ((See	Figure	2-7.)
-------------	----------	---	---------	------	--------	-------

Figure 2-7 Upload Micro GC Fusion license file

INFICON Micro GC Fusion			pwb1 10.211.50.52
Time	Carrier Gas for Module A	Hostname	
May 24 2017, 17:27 🔗		pwb1	
Serial Number	Pressure Units	Automatic IP Address	
7000001	psi		
Part Number E08000 B24		Preferred Fallback Address	
Licenses			
		X Wireless	
No licenses installed		Password	
		inficongc	
		Static IP Address	
		Address	
		10.10.1.12	
		Subnet Mask	
		255.255.0.0	
		Default Gateway	
		<u>ٹ</u>	
System Configuration			Notifications A

- 4d Navigate to the folder that contains the openlab-fusion.license file. ClickOpen to upload the file.
- 5 Micro GC Fusion is now licensed for EZ IQ access. (See Figure 2-8.)

Figure 2-8 Upload license file is complete



2.3 Configuring EZ IQ for Micro GC Fusion

Before configuring EZ IQ for Micro GC Fusion, ensure:

- EZ IQ was successfully installed
- Micro GC Fusion Driver for EZ IQ was successfully installed
- Micro GC Fusion is powered on
- The computer with EZ IQ installed and Micro GC Fusion are physically connected via an Ethernet cable, either through direct connection or through a LAN network

To connect Micro GC Fusion to the computer with EZ IQ installed:

1 Select Start >> All Programs >> Chromatography >> EZ IQ Config. (See Figure 2-9.)

Figure 2-9 EZ IQ Config



2 The EZ IQ Configuration window will display. Click Instrument Configuration.... (See Figure 2-10.)

Figure 2-10 Click Instrument Configuration...

EZ IQ Config	uration
	Instrument Configuration
	Extract Configuration from Data File
	Close



3 In the **Instrument Configuration** window, type an **Instrument Name**. From the **Instrument Type** shortcut menu, select **INFICON Micro GC Fusion**. Click **Configure**. (See Figure 2-11.)

Figure 2-11 Instrument Configuration

Inst	trument Configura	ation		×
	Instrument name:	Micro GC Fusion		Configure
	Instrument type:	INFICON Micro GC Fusion	•	
	Server name:			
		ОК	Cancel	Help

4 The INFICON Micro GC Fusion configuration window will display. Select the INFICON Micro GC Fusion icon. Click the green arrow to move the INFICON Micro GC Fusion icon from Available modules to Configured modules. (See Figure 2-12.)

Figure 2-12 INFICON Micro GC Fusion driver icon, before and after

Inficon Micro GC Fusion							
Available modules:	Available modules: Configured modules:						
INFICON Micro GC Fusion							
Options		ОК	Cancel	Help			
Inficon Micro GC Fusion		1		×			
Inficon Micro GC Fusion Available modules:	Configured modu	les:		×			
Inficon Micro GC Fusion Available modules: INFICON Micro GC Fusion	Configured modu	les: JN Micro GC Fusion (l	Jnconfigured)	x			
Inficon Micro GC Fusion Available modules:	Configured modu	iles: DN Micro GC Fusion (l	Jnconfigured)				

- **5** Double-click on the **INFICON Micro GC Fusion** icon in the **Configured modules** pane to open the **INFICON Micro GC Configuration** window. (See Figure 2-13.)
- **6** Type either the **IP address** or **Hostname** of Micro GC Fusion. Click **Activate Communication**. (See Figure 2-13.)

FICO	DN Micro	o GC Configu	ration			×	
卓 C	ommunio	ation and ge	neral information	🖳 Modules conf	iguration		
-Co	mmunica IP addi	ress 19	92.168.1.172	Instrument inf Part number Serial number	Instrument information Part number Serial number		
Hostname Activate communication			inication	Integrated sam	Integrated sample conditioner Remote I/O board		
	Name	Installed	Part number	Serial	Column description		
		motuneu		i i di ilio di			
1	A	No	-	-	-		
1 2	AB	No No	-	-	-		
1 2 3	A B C	No No No	- - -	- - -	- - -		
1 2 3 4	A B C D	No No No No	- -		- - -		

Figure 2-13 Type Micro GC Fusion IP address or Hostname



7 Once EZ IQ has successfully communicated with Micro GC Fusion, the Modules information field will be populated with Micro GC Fusion configuration information. Additional information, such as instrument Part number and Serial number will be available on the right hand side of the window. (See Figure 2-14.)

Figure 2-1	4 Micro	GC Fusion	configuration
1.90.0 2 1			garadon

INFICON Micro GC Configuration									
😴 Communication and general information									
c	ommunica	ation		Instrument info	ormation	Π			
	IP address 10.211.52.30			Part number	F0818	30			
•				Serial number	7005889	95			
C	Hostn	ame		Modules install	ed	2			
	Activate communication			Integrated sam	ple conditioner Not installe	ed be			
				Remote I/O bo	ard Not installe	ed			
-M	- Modules information								
	Name Installed Part number		Serial number	Column description					
1	A	Yes	140		Rtx-1, 0.15mm (10m)				
2	В	Yes	3C1		Rt-Alumina Bond/KCl, 0.25mm (10m) [Rtx.				
3	C	No	-	-	-				
4	D	No	-	-	-				
Эт	The communication has been established with 10.211.52.30								
	OK Cancel Help								

8 Select the **Modules configuration** tab to view the **Pressure unit**, **Carrier gas configuration**, and additional module information. (See Figure 2-15.)

Figure 2-15 Modules configuration

INFICON Micro GC Configuration									
👷 Communication and general information									
	Pressure unit psi								
	Carrier gas configuration								
	Carrier gas at C1 Helium 💌				Carrier gas a	at C3 Helium	-		
		C2 conne	ector in use		C4 conne	ected in use			
	Carr	rier gas a	at C2 Heliun	n 🔻	Carrier gas a	at C4 Helium	-		
	-Mo	dules co	nfiguration						
				Comple inlet	1	May column tomporate			
	Name Carrier gas Sample inlet position Injector type (°C)					ire			
	1	1 A Helium Front		Front	Variable volume	/ariable volume 250			
	2 B Helium Front			Front	Backflush 0.4 µL	ıL 200			
	3	С	-	-	-	0			
	4	D	-	-	-	0			
â	The	e comm	unication has been	established with 10.2	11.52.30				
	OK Cancel Help								

- **9** Click **OK** to exit the **INFICON Micro GC Configuration** window. (Refer to Figure 2-15.)
- 10 Click OK to exit the INFICON Micro GC Fusion window.
- **11** Click **OK** to exit the **Instrument Configuration** window.
- 12 Click Close to exit the EZ IQ Configuration window.
- **13** Click the $\overline{10}$ icon on the computer to launch EZ IQ.



Chapter 3 Customer Support

3.1 How To Contact Customer Support

Worldwide customer support information is available under **Contact >> Support Worldwide** at www.inficon.com:

- Sales and Customer Service
- Technical Support
- Repair Service

When contacting INFICON regarding a problem with EZ IQ software, please have the following information readily available:

- the EZ IQ software version number
- the type of computer and its specifications
- the Microsoft Windows type and version number
- a description of the problem
- an explanation of any corrective action already attempted
- · the exact wording of any error messages received



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