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IMPORTANT NOTE

READ AND UNDERSTAND THIS MANUAL PRIOR TO USING THIS SOFTWARE.

THIS DATALOGGING SOFTWARE IS DESIGNED TO PROVIDE THE USER WITH A POWERFUL TOOL TO VIEW AND MANIPULATE LOGGED DATA TO VIEW TRENDS IN MONITORED AIR QUALITY.

THIS INSTRUMENT HAS NOT BEEN DESIGNED TO BE INTRINSICALLY SAFE IN HAZARDOUS OR EXPLOSION-RATED ENVIRONMENTS. FOR YOUR SAFETY, DO NOT USE IT IN AREAS CLASSIFIED AS HAZARDOUS AREAS (E.G., EXPLOSION-RATED ENVIRONMENTS).

SERIAL NUMBER: _______________________________________

PURCHASE DATE: _______________________________________

PURCHASED FROM: _______________________________________

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BACHARACH, INC. WARRANTS THIS PRODUCT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF TWO YEARS FROM THE DATE OF PURCHASE BY THE ORIGINAL OWNER. IF THE PRODUCT SHOULD BECOME DEFECTIVE WITHIN THIS WARRANTY PERIOD, WE WILL REPAIR OR REPLACE IT AT OUR DISCRETION.

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IF BACHARACH IS TO DO THE REPAIR WORK, SEND THE INSTRUMENT, PREPAID, TO BACHARACH, INC. AT THE FOLLOWING ADDRESS.

BACHARACH, INC.
621 HUNT VALLEY CIRCLE
NEW KENSINGTON, PA 15068
ATTENTION: SERVICE DEPARTMENT

ALWAYS INCLUDE YOUR RMA #, ADDRESS, TELEPHONE NUMBER, CONTACT NAME, SHIPPING/BILLING INFORMATION AND A DESCRIPTION OF THE DEFECT AS YOU PERCEIVE IT. YOU WILL BE CONTACTED WITH A COST ESTIMATE FOR EXPECTED REPAIRS PRIOR TO THE PERFORMANCE OF ANY SERVICE WORK. FOR LIABILITY REASONS, BACHARACH HAS A POLICY OF PERFORMING ALL NEEDED REPAIRS TO RESTORE THE INSTRUMENT TO FULL OPERATING CONDITION.

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PACK THE EQUIPMENT WELL (IN ITS ORIGINAL PACKING IF POSSIBLE), AS BACHARACH CANNOT BE HELD RESPONSIBLE FOR ANY DAMAGE INCURRED DURING SHIPPING TO OUR FACILITY.

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BACHARACH, INC.
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NEW KENSINGTON, PA 15068-7074
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FAX: 724-334-5001
E-MAIL: help@MyBacharach.com
WEBSITE: www.MyBacharach.com

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IQ CHEK™ END USER LICENSE AGREEMENT

End User License Agreement
For ONE Computer

Notice to User:

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1. Use of the Software.

   1.1 You may install one copy of the software onto a hard disk or other storage device of up to the Permitted Number of Computers.
   1.2 You may install one copy of the software on a single file server for the purpose of downloading and installing the software onto a hard disk or other storage device of up to the Permitted Number of Computers that are on the same network as the file server. No other network use is permitted.
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(3) that the receiving party accepts the terms and conditions of this Agreement.

4. Limited Warranty.

Bacharach warrants to you that the software will perform substantially in accordance with the documentation for the ninety (90) day period following your receipt of the software. To make a warranty claim, you must return the software to the location where you obtained it along with proof of purchase within such ninety (90) day period. If the software does not perform substantially in accordance with the documentation, the entire liability of Bacharach and Yours truly, exclusive remedy shall be limited to either, at Bacharach's option, the replacement of the software or the refund of the license fee you paid for the software.

5. Disclaimer of Warranties.

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In no event will Bacharach or its suppliers be liable to you for any consequential, indirect, incidental, punitive or special damages, including any lost profits or lost savings, even if a representative of Bacharach or any supplier has been advised of the possibility of such damages, or for any claim by any third party.


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1. OVERVIEW

1.1. General Description

Thank you for purchasing the IQ Chek™ software package to use in conjunction with the IEQ Chek™ or Comfort Chek™ 500 indoor air quality monitors. These instruments are easy-to-use monitoring and information recording devices for monitoring trends in air quality. This manual will guide you through the installation, use, and functionality of the IQ Chek™ software program.

IEQ Chek™ and Comfort Chek™ 500 can reliably record time-based information, which can be downloaded via the USB port located on the right side of the instrument. Any computer capable of running Microsoft Windows XP or higher (with an available USB communications port) can accommodate the IQ Chek™ software. For faster downloading speed from the IEQ Chek™, it is recommended to use an SD card reader. Downloading directly from the instrument may be slow and time consuming.

The Comfort Chek™ 500 instrument is a lower-cost instrument designed to provide greater value to the end user. It is manufactured with internal memory. The sample rate can be adjusted using the supplied software. The supplied USB cable must be used to download the logged information to the PC.

Read and understand this manual before using IQ Chek™. Our technical staff can assist you with any installation and operational problems you might encounter. For assistance, call our toll free number 800-736-4666.
1.2. IQ Chek™ Shipping Checklist

This checklist ensures that you have received everything required to operate the IQ Chek™ PC software. If you do not receive any of the items listed below, contact the factory immediately.

- IQ Chek™ software CD (1509-0019)
- USB communications cable
- Software manual
- SD flash card reader and 2.0GB SD flash card (IEQ Chek™ instrument only)¹
- Other specified accessories (see original sales order and comments below)

Date: __________________  Checked by: __________________________

For more information and technical support, contact Bacharach.

BACHARACH, INC.
621 HUNT VALLEY CIRCLE
NEW KENSINGTON, PA 15068-7074
USA

TOLL FREE:  1-800-736-4666
TELEPHONE:  724-334-5000
FAX:  724-334-5001
E-MAIL:  help@MyBacharach.com
WEBSITE:  www.MyBacharach.com

¹ These items pertain to the IEQ Chek datalogging kit (1509-0001).
2. SOFTWARE INSTALLATION

Insert the IQ Chek™ CD and follow the instructions.

Figure 2-1. IQ Chek™ Installation Welcome Screen

Accept the license agreement by clicking Yes to move on.

Figure 2-2. IQ Chek™ License Agreement Screen
Use the **Browse** button to locate your installation folder, then click **Next >**.

![Figure 2-3. IQ Chek™ Destination Location Screen](image1)

Click the **Next >** button to start the installation process.

![Figure 2-4. IQ Chek™ Start Installation Screen](image2)
Files will be copied to your PC. Wait for the progress screen to complete (or click **Cancel** to abort).

![Figure 2-5. Installation in Progress](image)

Complete the installation and exit by clicking the **Finish >** button. The IQ Chek™ icon will appear on your desktop.

![Figure 2-6. Installation Complete Screen](image)

![Figure 2-7. IQ Chek™ Desktop Icon](image)
3. OPERATION

3.1. Connecting Instruments to the PC

Connect a supported Bacharach indoor air quality monitoring device to your PC with the supplied USB cable. The PC will detect the instrument and, if connected for the first time, the PC will indicate “Found New Hardware” as shown below.

![Found New Hardware]

After the Add New Hardware/Driver Installation process is complete, double click on the IQ Chek™ icon on your desktop to start the IQ Chek™ program. From the main IQ Chek™ screen™, you can connect to your device by clicking on Connect To Detector(s) button (shown below).

![Connect To Detector(s)]

- **Open Graph File**
  To open and select existing IQ Chek™ graph files (.YVG format).

- **Open CSV File**
  To open and select CSV files from the SD card reader (.CSV format).

- **Connect to Detector(s)**
  Establishes a communications connection between the PC and the physically-connected instrument(s) (via USB cable).

![Main IQ Chek™ Software Screen Highlighting Key Menu Items]
3.2. Real Time Readings

To access live readings from the instrument, click on the Real Time Readings tab.

![Real Time Readings Tab](image1.png)

**Figure 3-3. The Real Time Readings Tab**

3.3. Logger Setup

To access the Logger Setup Screen, click on the Logger Setup tab. Note that this tab is the only way to setup the logging parameters in the Comfort Chek™ 500.

![Logger Setup Screen](image2.png)

**Figure 3-4. The Logger Setup Screen**
3.4. Retrieving Data from the IEQ Chek™

Click on the **Memory Card** tab (see Figure 3-5) to retrieve data from the card. A progress bar will show the number of files retrieved from the memory card and will appear on the screen after completion. The user can select one or more specific files to plot on the graph screen.

Click on the **Retrieve File from Flash Card** button (see Figure 3-5) after selecting the desired file. The progress bar shows the progress as data is received.

**NOTE:** Downloading logged files will be very slow using this method. It is recommended to remove the SD card from the IEQ Chek™ and use a card reader for much faster download speeds.

**NOTE:** Selecting multiple files allows you to merge graphs onto one plot for review and comparison purposes.
3.5. Retrieving Data from the Comfort Chek™ 500

Click on the Comfort Chek™ 500 tab to retrieve data from the instrument. A progress bar will show the number of files that will be retrieved from the instrument and will appear on the screen after completion. The user can select one or more specific files to plot for the graph.

![Image](image_url)

Figure 3-6. Retrieving Data from a Comfort Chek™ 500

**NOTE:** Selecting multiple files allows you to merge graphs onto one plot for review and comparison purposes.
3.6. Retrieving Data from an SD Card

To retrieve data from an SD card, insert the SD card into your PC (or into the SD card reader and the reader into your PC) and then click on the Open CSV File button as shown below. Use the OPEN dialog box to locate and select the desired CSV file. The data will be displayed as a graph.

![Opening CSV File](image1)

**Figure 3-7. Retrieving Data from an SD Card**

![Selecting SD Card Location](image2)

**Figure 3-8. Selecting SD Card Location**
3.7. Opening Saved .YVG (Graph) Files

Open an existing graph file from your computer by clicking the Open Graph File tab.

Click on the Open Graph File tab and then locate the required graph file(s) (having the .YVG extension) that you want to open. See below.

Figure 3-9. Open Graph File Tab

Figure 3-10. Selecting a Graph File to Open
3.8. Graphs

Select the file(s) you would like to graph (through the Open CSV File or Open Graph File buttons) and click the Open button. IQ Chek™ will automatically display the data as a graph. You can view the graph data in various ways and manipulate the displayed graph using the following items.

- Graph Results Toolbar
- Graph Tab
- Statistics Tab
- Data Table Tab

![Graph Results Toolbar and Graph, Statistics, and Data Table Tabs](image)

**GRAPH TAB:** Graph plotting occurs automatically on the Graph tab once user opens the .CSV (data) file or .YVG (graph) file.

**STATISTICS TAB:** Sample statistical data (available by clicking on the Statistics tab) is shown below.

![Sample Statistical Data Screen](image)

**DATA TABLE TAB:** To see logged data in tabular format, click the Data Table tab. By default, the data is displayed in statistical format.
Figure 3-13. Retrieved CSV Data Converted to a Graph
Figure 3-14. Sample Tabular Data Screen

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</tbody>
</table>
GRAPH RESULTS TOOLBAR: From the Graph Results toolbar, click on the save button to save the file in YVG format to your PC. When viewing the graph, you can save the file in other formats as well. By clicking on the statistics and data table tabs, the user can see them respectively and save the graphs using the Save Graph icon.

For changing the graph settings, manipulating data, printing, and saving data files into different formats, use the following toolbar items.

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<th>Description</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
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<td><img src="image" alt="Save graph in .YVG format" /></td>
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<td><img src="image" alt="Copy graph to clipboard" /></td>
<td>Copy graph to clipboard</td>
</tr>
<tr>
<td><img src="image" alt="Save graph in graphic format" /></td>
<td>Save graph in graphic format</td>
<td><img src="image" alt="Change graph settings" /></td>
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</tr>
<tr>
<td><img src="image" alt="Print preview" /></td>
<td>Print preview</td>
<td><img src="image" alt="Undo all previous zooms" /></td>
<td>Undo all previous zooms</td>
</tr>
</tbody>
</table>

**Figure 3-15. Graph Results Toolbar and Icon Descriptions**

**NOTE:** To zoom into a particular portion of the graph, use the mouse to click and drag a rectangular area to define the zoom area. Use the undo zoom, redo zoom, and undo all buttons with the zoom feature.

The Change Graph Settings button allows the user to customize the graph. Click on the graph icon (Figure 3-16) to display the graph properties dialog (Figure 3-17).

**Figure 3-16. The Graph Settings Icon**

From this “dashboard”, you can perform the following functions.

- **Graph Title:** Change description, font, and color.
- **Background:** Select background color of graph area.
- **X-Axis:** Change description, font, and color of label. Toggle X-axis grid lines and X-axis markers separately.
- **Legend:** Toggle legend (on/off). If on, select position (top or side), font, and color.
- **Units:** Show units on X-axis, in legend, or at both locations.
- **Data Lines:** Allow changes to the data line color of a particular parameter. Allow changes to line style and width to make it more prominent. Toggle the alarm display line. Availability of line markers to differentiate between parameters (useful for distinguishing different data lines on non-color printouts).

Refer to the dashboard (Figure 3-17) for graph settings.
Figure 3-17. Dashboard for Graph Settings