



EHEIM ControlCenter

EHEIM
professional 3^e

350 450 700
(Type 2074) (Type 2076) (Type 2078)



GB Operating Instructions

1. Introduction

Thank you for choosing the most innovative and modern external aquarium canister filter from EHEIM. Please read these instructions carefully, before you start the installation.

With the EHEIM ControlCenter and the **EHEIM Interface** (USB converter - 4020740 - optional, not included) it is possible to control, monitor, programme and update your EHEIM *professionel 3e* external filter easily and conveniently via the USB port on your computer provided the EHEIM ControlCenter software is installed on your computer.

The manual describes the installation and configuration for the Windows XP™ / Windows® Vista / Windows® 7 (32/64-Bit) operating system.

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3. System requirements

The **EHEIM Interface** (order no.: 4020740) is required to operate this software. Also required is an EHEIM *professionel 3e* external filter with an USB port.

Your computer must have a CD/DVD drive and at least 250 MB free hard disc space for the software installation, and a free USB port (USB 1.0 / 2.0) for the **EHEIM Interface**.

At least the Microsoft® Service Pack 2 and the Microsoft® Windows Installer 3.1. must be installed on your computer. If these components are not installed, download them for free from the Microsoft® website or through the software update function of your Windows operating system.

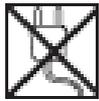
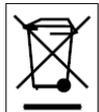
Adobe® Reader is required to view the manual. A free download is available from the Adobe® website.

Optionally an Internet connection is required for the software update function.

The EHEIM ControlCenter is compatible with Windows XP™ / Windows® Vista / Windows® 7 (32/64-Bit).

TIP: It is recommended to create a backup of your system before proceeding Installation or removing the EHEIM ControlCenter.

4. Safety instructions

	Only for use in rooms. To be used for aquariums.
	Before you dip your hand into the aquarium water, disconnect all the electronic devices located in the water.
	The power cord of the device cannot be replaced. Never repair the external power cord and power supply pack. The device should no longer be used if the cable is damaged. Damaged external power cables or power supply packs must be replaced. Contact your dealer or your EHEIM service centre.
	The exchange of the heating-coil and electronics circuit must only be done by the EHEIM customer service.
	This device is not intended to be used by persons (including children) with reduced physical or mental capabilities or persons without experience and / or knowledge, unless they are supervised by a person responsible for safety or unless they have received specific instructions on how the device should be used. Children should be supervised to ensure that they do not play with the device.
	The product is approved according to national regulations and guidelines and meets the EU standards.
	Please take precautions while handling components with electrostatic discharge risks.
	This product should not be disposed with household waste. Please contact the local waste management agency for disposal.

5. Installation EHEIM ControlCenter

To install the EHEIM ControlCenter insert the enclosed CD into your CD/DVD drive and follow the instructions on the screen.

Tips!

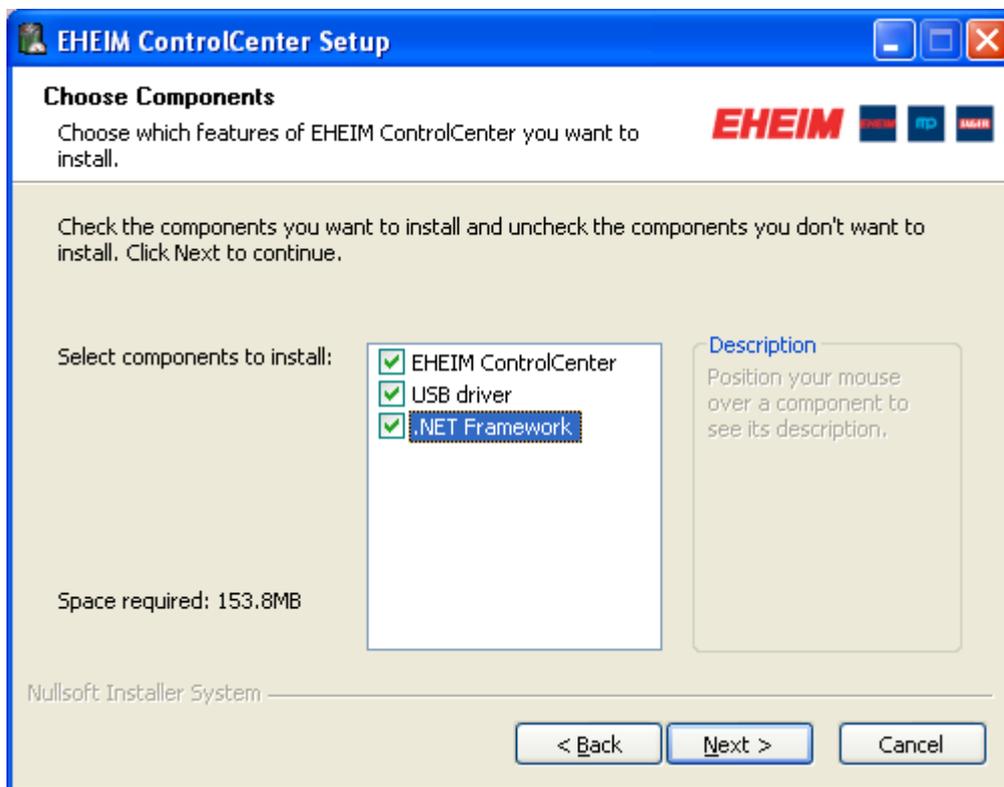
If the CD does not start automatically, proceed as follows.

- The CD contains the EHEIM ControlCenter setup file.
- Double click on "Setup.exe" to start the installation.
- Follow the instructions on the screen.



ATTENTION:

It is mandatory to select all the components during the initial installation of the EHEIM ControlCenter.



Tip!

→It is **mandatory** to restart the computer after the installation!

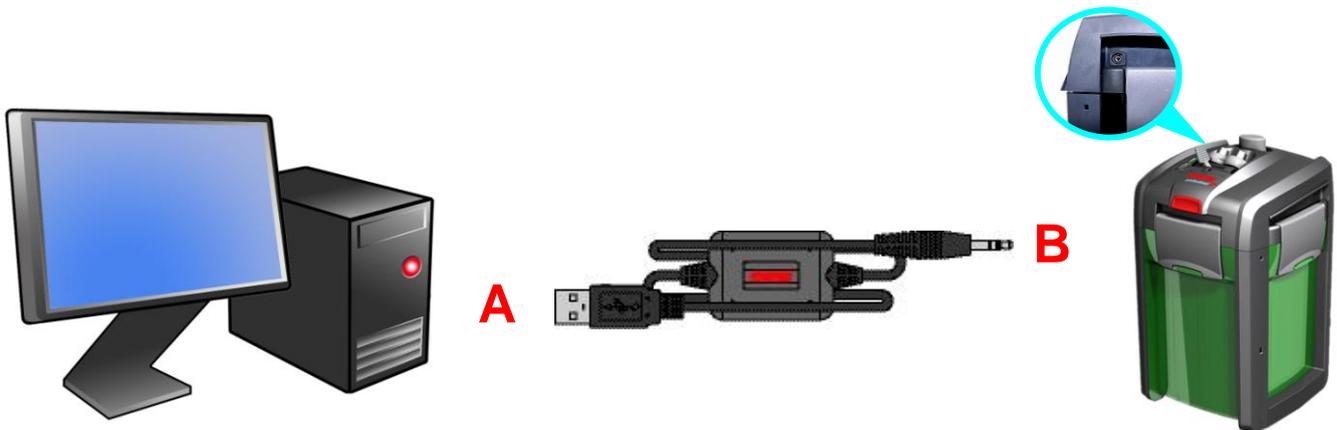
After successful installation a new icon with the name "EHEIM ControlCenter" will be created on the desktop. Start the EHEIM ControlCenter by double-clicking the icon.



6. Installation of the EHEIM Interface

Before connecting your computer and the external filter with the EHEIM Interface, you must ensure that the EHEIM ControlCenter has been successfully installed.

Now connect the USB connector (**A**) of the EHEIM Interface with an available USB port on your computer. The Jack (**B**) is directly plugged into the socket provided at the pump head of your EHEIM *professional 3e* external filter.



Tip:

The cable length of the EHEIM Interface can be extended with a commercially available USB extension to a maximum length of 5 m.



You can also run your EHEIM professional 3e external canister filter wireless (Wi-Fi). For this you need an **USB Device Server** additionally. We recommend the Silex Wireless/Wired Hi-Speed USB Device Server, isochron (SX-2000WG+).

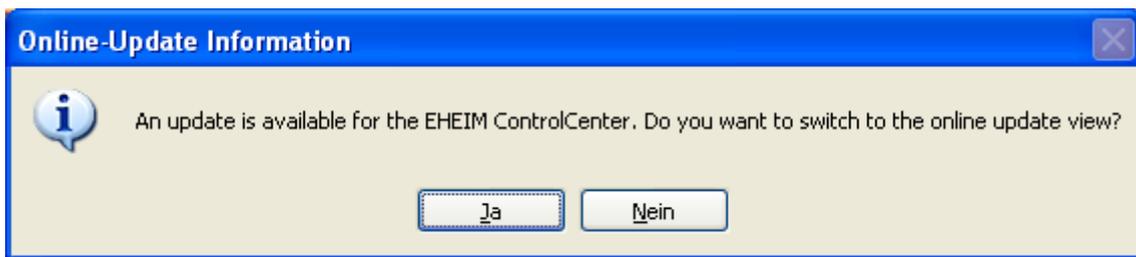
7. The first launch of the EHEIM ControlCenter

Make sure that your filter power cord is operating properly and the pump is running correctly.

Start the application by double-clicking on the EHEIM ControlCenter icon.

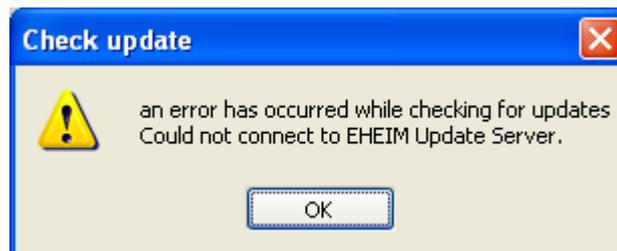
In case an Internet connection is available, updates will be automatically checked for.

If updates are available, follow the instructions on the screen.



Tip: Detailed information about the update function will be described in this manual in **Section 11.**, "Software Update".

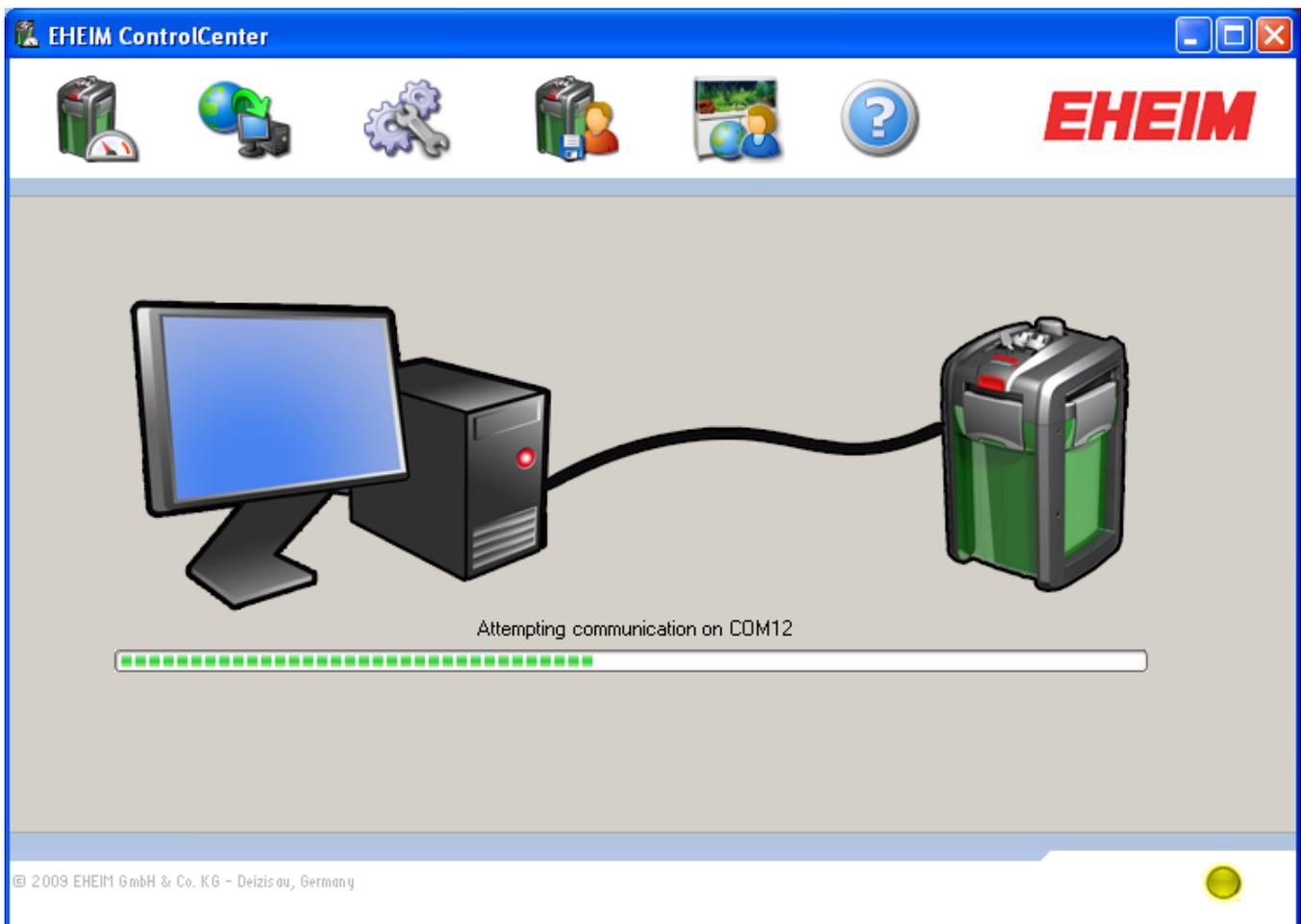
If no Internet connection is available during the start of the EHEIM ControlCenter, an information window with the warning that you could not be connected with the EHEIM update server will pop-up. In this case an automatic check as to whether your software version is up-to-date is not possible. Confirm with "OK" in the pop-up window and the EHEIM ControlCenter starts.



8. Establish connection with the external filter

Make sure the power cord of the filter is plugged in.

If your computer is connected to the EHEIM *professionel 3e* external filter via the EHEIM Interface and all the required components of the software are installed, then a connected *professionel 3e* external filter is automatically searched for after the start of the EHEIM ControlCenter. All available COM ports on the computer are checked. If an external filter is detected on a COM port, the connection to the filter is automatically established and the user directly enters the user interface for selecting the individual modes.



Establishment of the connection

The current connection status will always appear at the bottom right for all user interfaces. If there are any problems with the automatic connection, you will find additional information under **Section 12.**, "System settings" and under **Section 17.1.** "Change the COM-Port of the Interface in the Device Manager".

Connection Status Icons for the EHEIM ControlCenter and external filters:

	Connection established
	Connection is being established
	No connection

9. EHEIM ControlCenter Toolbar



EHEIM ControlCenter Toolbar

In the toolbar the following options are available:

	Opens the user interface with options and settings for different filter functions.
	Opens the Update function to check for online updates. (Internet connection required)
	Opens the system settings user interface.
	Opens the "My Filter" user interface with your saved settings.
	Opens the "My Aquarium" user interface with access to the EHEIM fish and plants database. Here you can call-up information about the stock of your plants and fish. (Internet connection required)
	Opens the "Help" user interface.

Select options toolbar

Status indicator of the filter in the various modes of operation:

Estimated service period of the filter until the next cleaning. (Display Month/Year)

When the pollution level reaches the red area, the filter should be cleaned immediately.

The automatic re-adjustment of the selected flow rate can not be achieved by the electronic. A cleaning of the hoses and the pre-filter is recommended.

Current operating mode of the filter

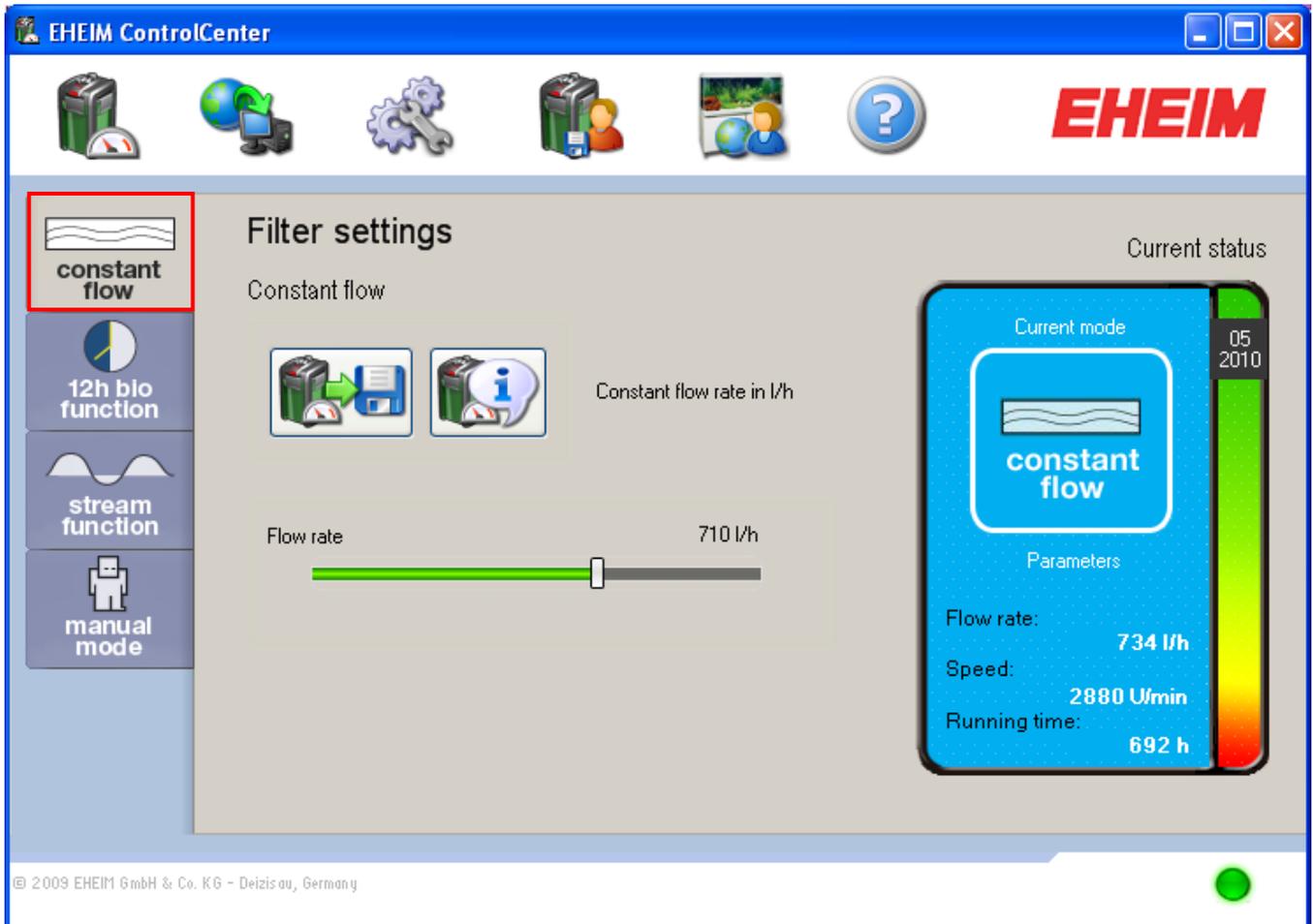
Display values of current flow rate, speed level and total running time of the filter.

Filter status Indicator

10. Filter function settings

Click on  to go to "Filter settings".

10.1. constant flow



The screenshot shows the EHEIM ControlCenter software interface. The main window is titled "Filter settings" and is currently set to "constant flow" mode. On the left side, there is a vertical menu with four options: "constant flow" (highlighted with a red box), "12h bio function", "stream function", and "manual mode". The main area displays the "Constant flow" settings, including a "Constant flow rate in l/h" section with a slider set to 710 l/h. Below the slider, there is a "Flow rate" label and a green bar representing the current flow rate. On the right side, there is a "Current status" panel showing the "Current mode" as "constant flow", the date "05 2010", and "Parameters" including "Flow rate: 734 l/h", "Speed: 2880 U/min", and "Running time: 692 h". The EHEIM logo is visible in the top right corner of the interface.

Operating mode "constant flow"

Increasing soiling of the filter is recognised by the electronics and the output is automatically controlled to the level you have set. This guarantees constant flow rates and very long service lives.

You can now increase or decrease your preferred flow rate (l/h) with the help of the slide control. With increasing pollution the filter automatically readjusts now the flow rate according to your settings.

By clicking on the button , your settings can be saved. The saved settings can be called up again in the user interface "My Filter".

10.2. 12h bio function

EHEIM ControlCenter

Filter settings

12-hr bio function

Current status

Flow rate, first 12 hrs: 710 l/h

Flow rate, second 12 hrs: 550 l/h

Starting time for the first 12 hrs: from 13:14

Current mode: 12h bio function

Parameters:

- Flow rate: 709 l/h
- Speed: 3300 U/min
- Running time: 692 h

05 2010

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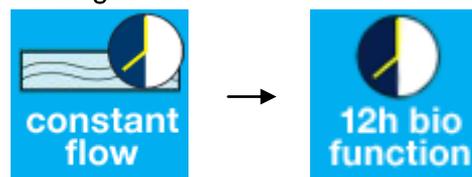
Operating mode "12h bio function"

The 12h bio function switches electronically between two adjustable flow rates in a 12-hour cycle.

Tip: You can, for example, set a lower flow rate during the day for the first 12 hours and for the second 12 hours at night increase the flow rate according to your wishes. Or set up the 12h bio function based on the illumination phase of your aquarium.

The flow rate can be adjusted through the upper slide control for the first 12 hours and via the middle slide control for the following 12 hours. The start time can be adjusted with the bottom slide control.

This mode is activated with the changes of icons in the "current status" screen.



By clicking on the button  your settings can be saved. The saved settings can be called up again in the user interface "My Filter".

10.3. stream function

The screenshot shows the EHEIM ControlCenter software interface. The title bar reads "EHEIM ControlCenter". The sidebar on the left contains four mode selection buttons: "constant flow", "12h blo function", "stream function" (highlighted with a red box), and "manual mode". The main area is titled "Filter settings" and displays "Stream function (wave effect)". A wave diagram shows a high phase of 800 l and a low phase of 550 l, with a duration of 10 s for each phase. Below the diagram are two tabs: "Flow rate" and "Times". Under "Flow rate", there are two sliders: "First phase (high)" set to 800 l/h and "Second phase (low)" set to 550 l/h. A "Times" tab is also present. On the right, a "Current status" panel shows "Current mode" as "stream function", "Parameters" including "Flow rate: 838 l/h", "Speed: 3960 U/min", and "Running time: 692 h". The date "05 2010" is displayed in the top right of the status panel. The bottom left corner of the interface shows the copyright notice: "© 2009 EHEIM GmbH & Co. KG - Deizisau, Germany".

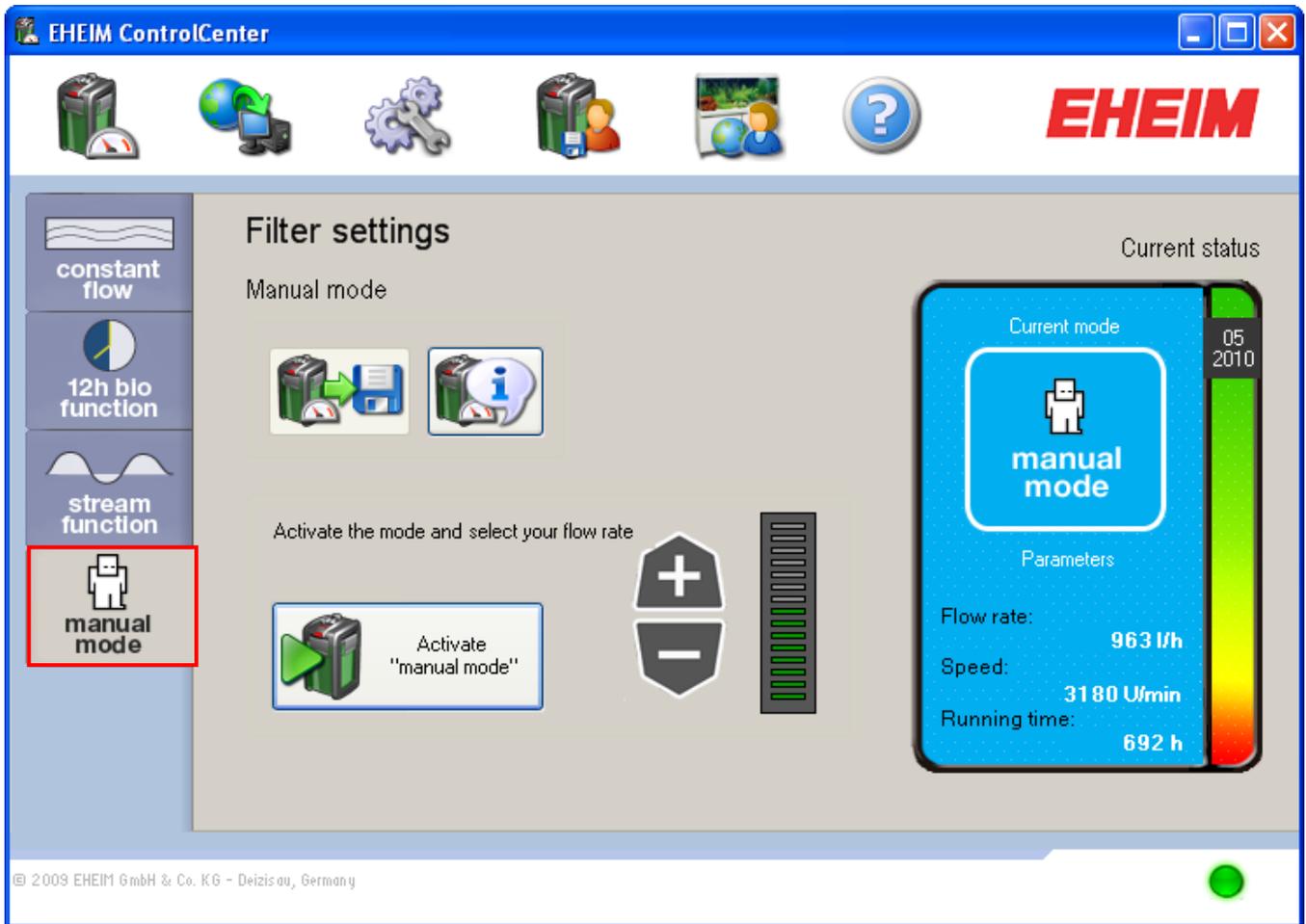
Operating mode "stream function"

The electronically controlled alternating flow of the "stream function" ensures natural flow conditions in freshwater and saltwater aquariums. Especially for saltwater aquariums, you can use the advantageous "stream function" for the realistic simulation of sea waves in your aquarium.

Under the tab "Flow rate", you can set the desired flow rate (l /) of each phase with the help of the two slide controls. Under the tab "Times", you can set the desired duration (time) of the respective phases with the help of the two slide controls. The set values are displayed in the depicted curve graphic.

By clicking on the button  your settings can be saved. The saved settings can be called up again in the user interface "My Filter".

10.4. manual mode



Operating mode "manual mode"

The electronic readjustment will be completely disabled in this mode. The water outflow decreases with increasing pollution of the filter (as in a normal, conventional external filter without electronics).

Click on  activate this mode. Now select your flow rate using the + / - buttons.

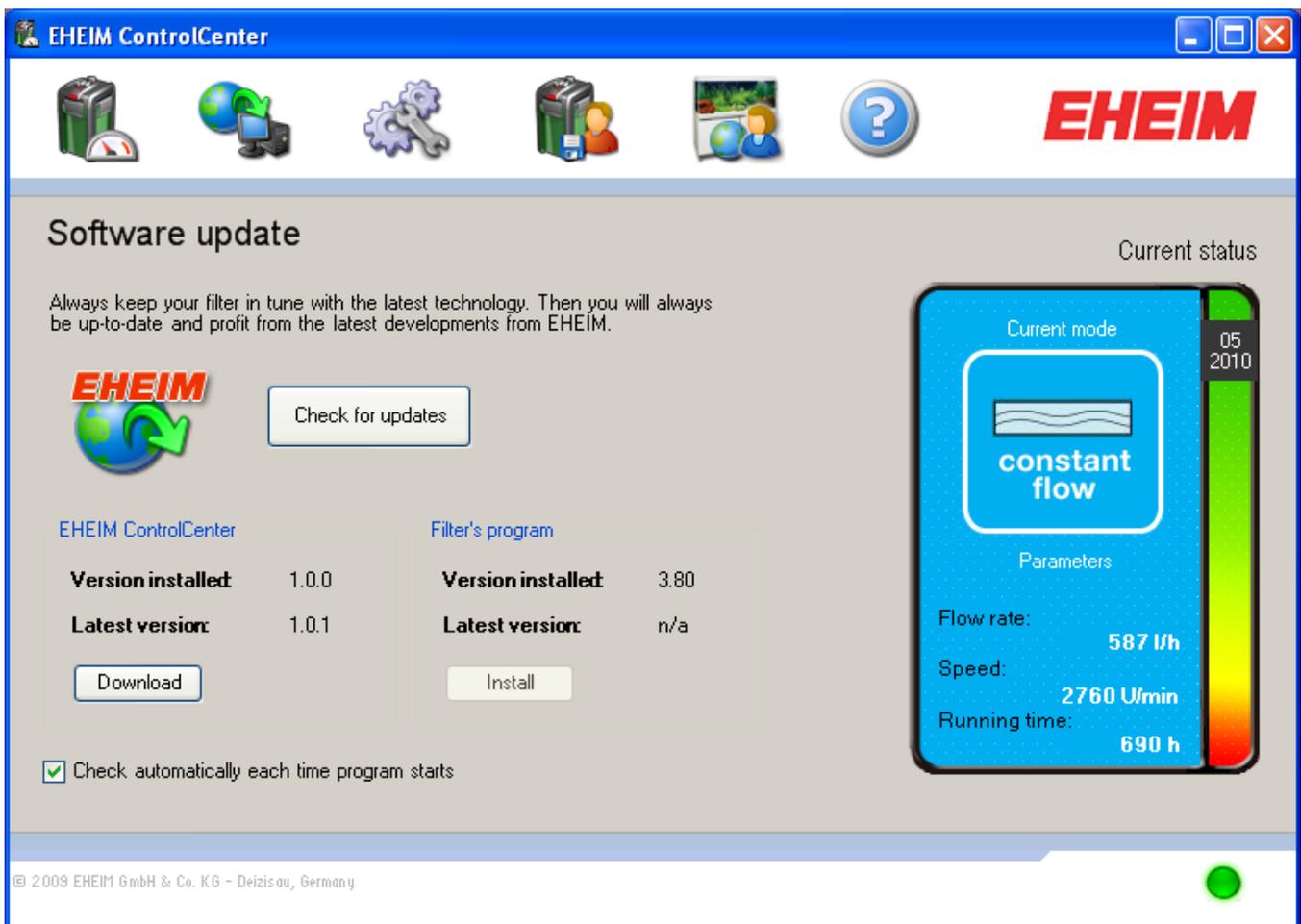
In contrast to other modes you can not save your settings in the manual mode.

The save button  is deactivated.

11. Software update

Click on  to access the user interface "Software updates".

Here you can update the EHEIM ControlCenter, as well as the firmware of the external EHEIM *professionel 3e* filter with the help of an existing Internet connection. If you have installed a firewall on your computer, you must configure your firewall in such a way that the EHEIM ControlCenter can access your Internet connection; otherwise the download of software updates will not be possible. For more information, read the firewall manual.



Software update

Always keep your filter in tune with the latest technology. Then you will always be up-to-date and profit from the latest developments from EHEIM.

EHEIM 

EHEIM ControlCenter		Filter's program	
Version installed:	1.0.0	Version installed:	3.80
Latest version:	1.0.1	Latest version:	n/a
<input type="button" value="Download"/>		<input type="button" value="Install"/>	

Check automatically each time program starts

Current status

Current mode: **constant flow** (05 2010)

Parameters:

- Flow rate: **587 l/h**
- Speed: **2760 U/min**
- Running time: **690 h**

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Menu "Software update"

In case of an available internet connection, click on the button

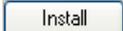
. An update check will be executed.

11.1 EHEIM ControlCenter Software update

If a newer version of the EHEIM ControlCenter software is available than the one currently displayed, it can be downloaded by clicking on the button . Please follow the instructions on the screen.

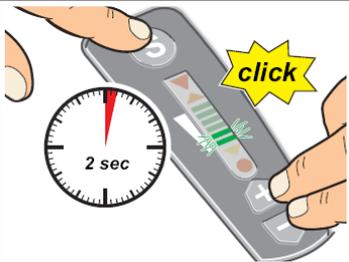
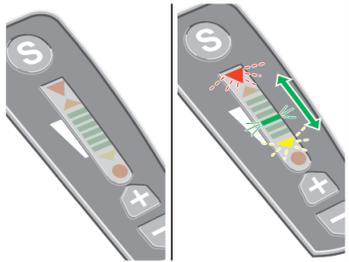
11.2 Firmware update of your external EHEIM filter

Ensure that the power cord of your filter is plugged in and the filter is in operation.
A firmware update is only possible while the filter is in operation.

If a filter software for the EHEIM *professionel 3e* external filter later than the version already installed on your computer is available, you can upgrade to the latest firmware by clicking on the  button.

Strictly follow the instructions on the screen and under any circumstances do not disconnect the EHEIM Interface cable or the power cord of your filter or your computer during the update process!!!

After successfully updating the firmware, the filter is taken out of service. Now you always have to "Reset" the filter! Only after a "Reset" the newly installed firmware will be used for the filter.

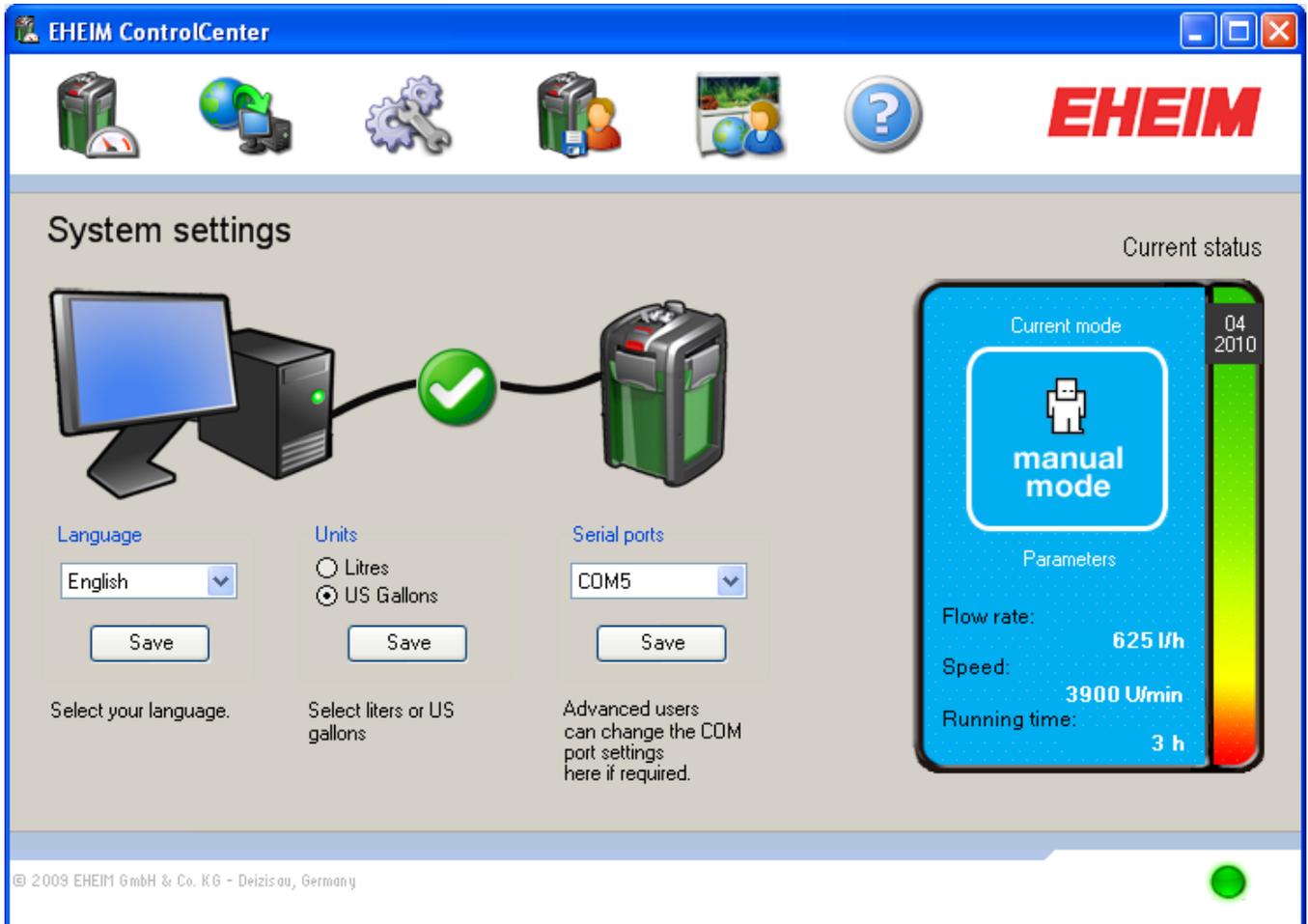
	<p>To reset the filter simultaneously press the keys "S", "+" and "-" on the filter screen for a minimum of 2 seconds.</p>
	<p>The pump and the electronics switches-off for about 5 seconds and the system re-calibrates itself.</p>
	<p>The filter is now running in the automatic mode (Factory setting 6 green LEDs light up)</p>

Tip: By activating the function "Automatically check at every program start", you will be informed at every program start if new updates are available on the EHEIM update server.

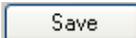
12. System settings

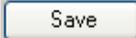


Click on  to access the user interface "System settings".



Menu item "System settings"

Here you can change the unit from litres to U.S. gallons and confirm your choice with .

If your filter is not automatically detected and connected when you start the EHEIM ControlCenter, the COM port can be manually changed. Confirm change with .

The current connection status of the EHEIM ControlCenter and your external filter is displayed directly to you.

Connection status Icons:

	Connection established
	No connection

13. My Filter



Click on  to access the user interface "My Filter".

EHEIM ControlCenter

My filter

Current status

Model / Type	EHEIM Prof 3e / 2074020
Max. pumping capacity	1500 l/h
Suitable aquariums	180 - 350 l

EHEIM professional 3^e 350

With the EHEIM ControlCenter you are able to save individual settings and upload them directly to your filter.

Your saved settings

- 1 Stream Function (15 seconds)
- 2 Constant Flow (optimal settings)
- 3 12h Bio Mode (low flowrate at night)
- 4 Constant Flow (high flowrate)
- 5 Stream Function (40 seconds)

Current mode 04 2010

stream function

Parameters

Flow rate: 619 l/h

Speed: 3900 U/min

Running time: 3 h

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Menu item "My Filter"

In "My Filter" the last five saved settings are stored. These may have been saved in one of the different modes of operation.

By clicking on the icon  you can call a stored setting and send it directly to your external filter. The stored values are transferred.

14. My Aquarium



Click on  to access the user interface "My Aquarium".

The screenshot shows the EHEIM ControlCenter software interface. The title bar reads "EHEIM ControlCenter". The main menu includes icons for a filter, a globe with a computer, gears, a filter with a person, a globe with a person, a question mark, and the EHEIM logo. The "My aquarium" section is active, displaying a grid of icons for fish, plants, and habitats. Text on the screen includes: "Visit the EHEIM fish and plant database on the internet.", "You will find a wealth of new information and tips from the underwater world.", "Habitats, water maintenance - the world of fish and plants is clearly presented.", "Clicking on the links will open them in a browser window.", and "Go to EHEIM's home page." with the URL www.eheim.de. On the right, a "Current status" panel shows "Current mode" as "stream function" and "Parameters" including "Flow rate: 553 l/h", "Speed: 4020 U/min", and "Running time: 3 h". The date "04 2010" is displayed in the top right corner of the status panel. A green status indicator is visible in the bottom right corner of the interface.

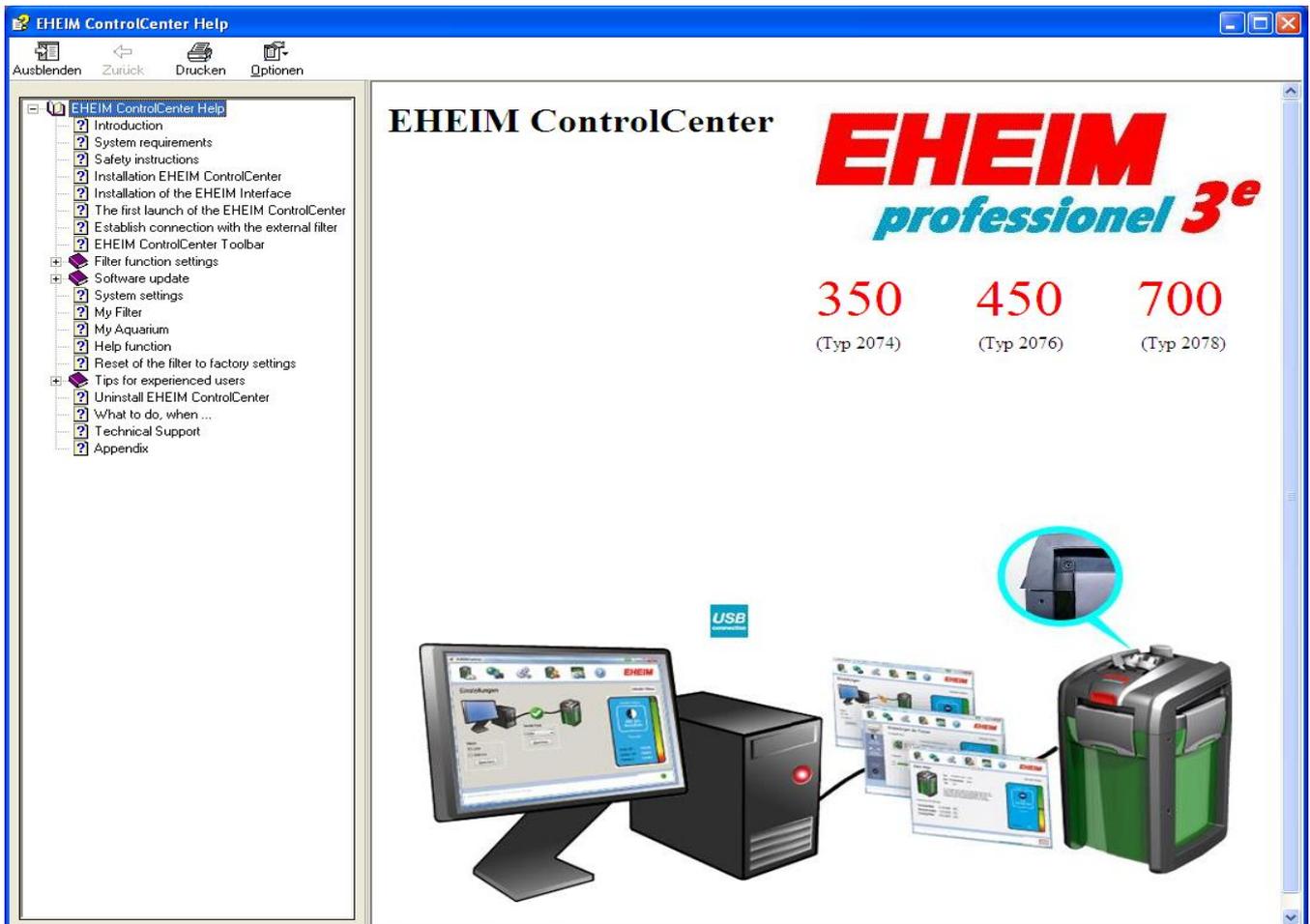
Menu item "My Aquarium"

In the user interface „My Aquarium”, you have the option to browse the EHEIM website and explore the EHEIM fish and plants database and get interesting information about the current fish and plant stock in your aquarium. (Internet connection required)

15. Help function



Click on  to access the user interface "Help".

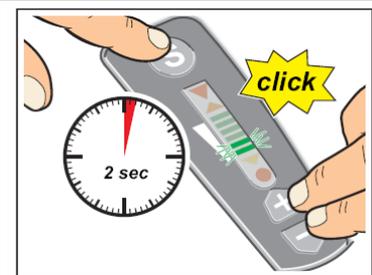
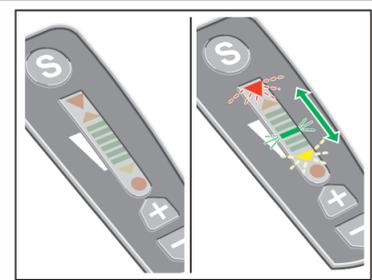


Menu item "Help"

In the user interface of the Help function you can open the EHEIM ControlCenter Help file and search for information and solutions in case you have any questions or problems.

16. Reset of the filter to factory settings

You can reset your EHEIM *professionel 3e* external filter to the factory settings at any time. The previous EHEIM ControlCenter settings will be lost.

	<p>To reset the filter, simultaneously press the keys "S", "+" and "-" on the filter screen for a minimum of 2 seconds.</p>
	<p>The pump and the electronics switches-off for about 5 seconds and the system re-calibrates itself.</p>
	<p>The filter is now running in the automatic mode (Factory setting 6 green LEDs light up)</p>

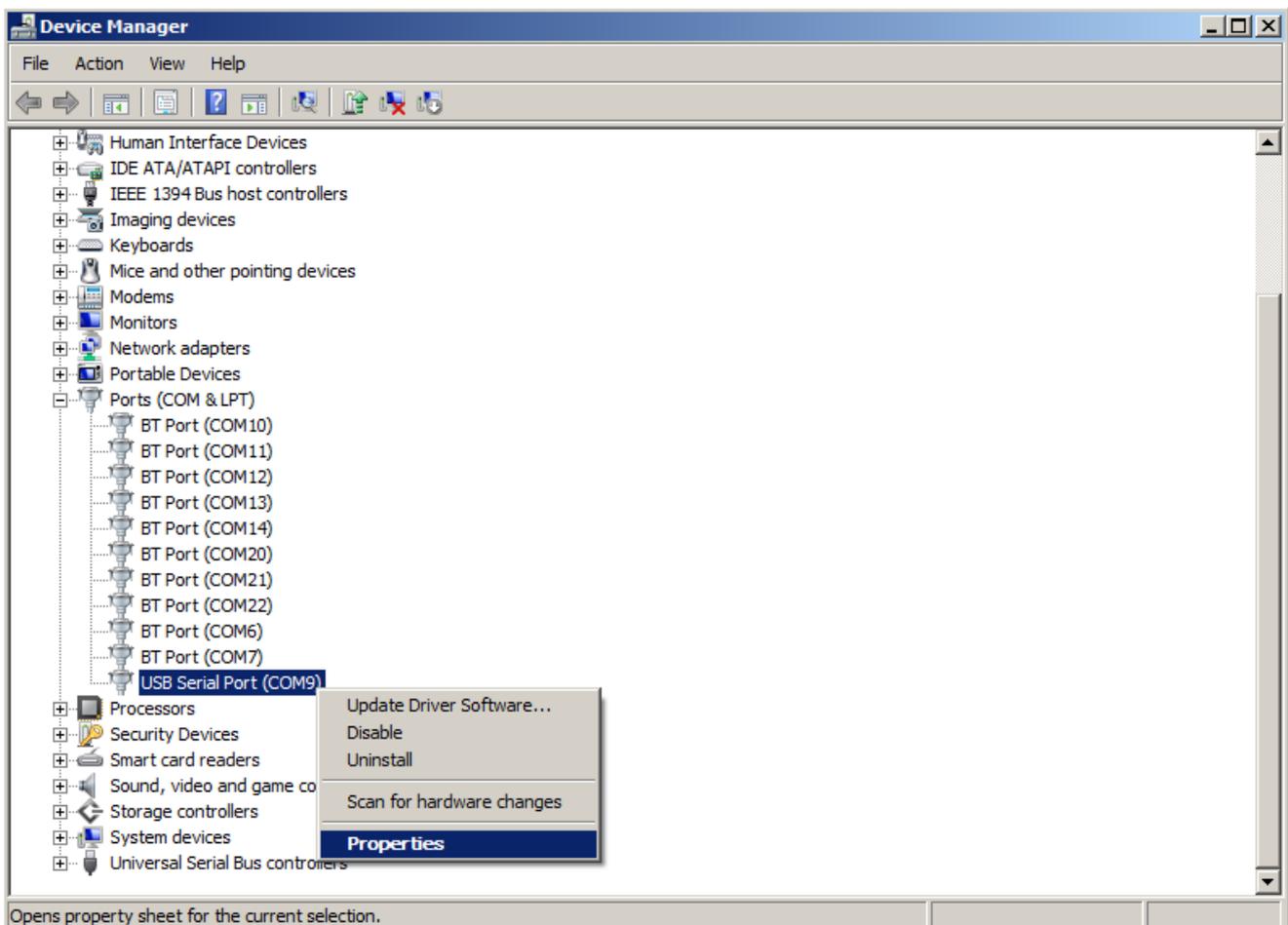
17. Tips for experienced users

Only experienced users should carry out the following instructions and settings, since these changes affect your computer settings.

17.1. Change the COM-Port of the interface in the Device Manager

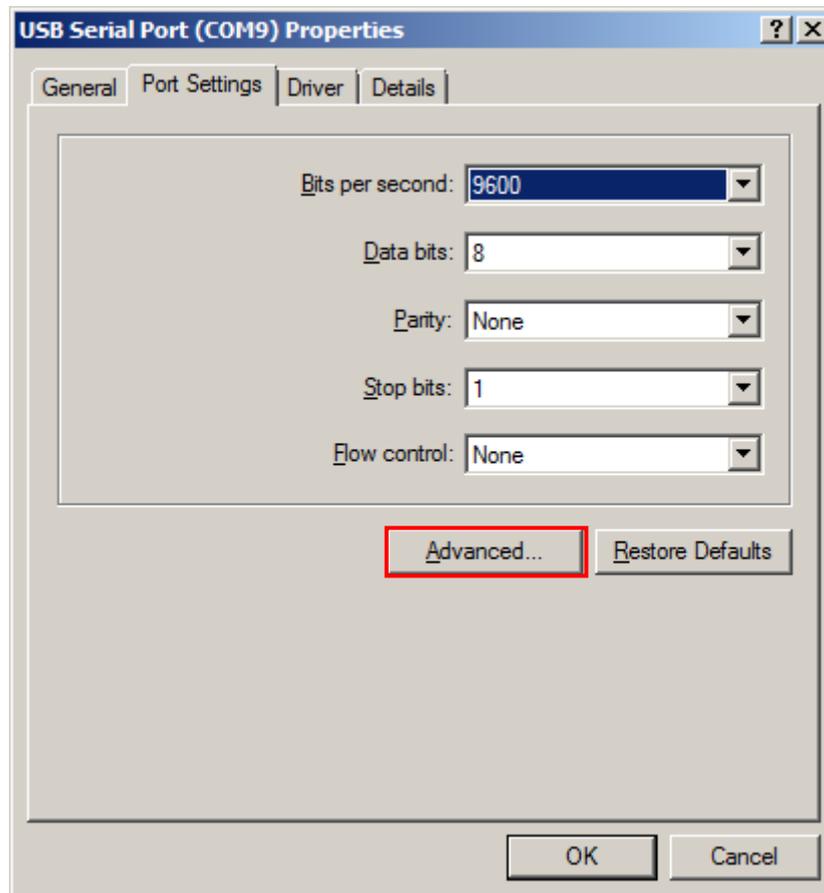
In case of problems while establishing a connection between your filter and the EHEIM ControlCenter, change the COM port of the EHEIM Interface with the help of the Windows Device Manager.

A new "USB Serial Port" is listed under the item "Ports (COM & LPT)" in the Windows Device Manager after the installation of the device driver. The Device Manager will display the COM port in which the EHEIM Interface is currently installed.

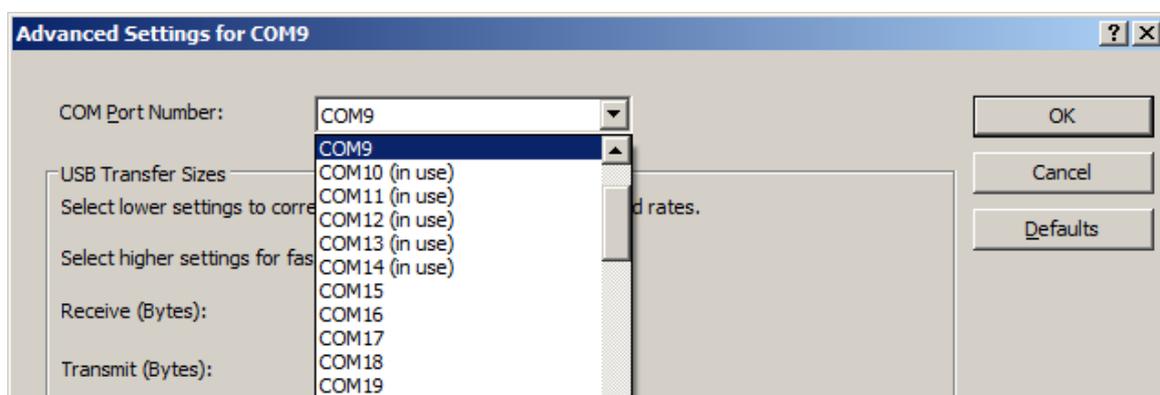


By right clicking on the "USB Serial Port" you access the "Properties" of this port.

Through the tab "Port Settings" you can access the advanced settings of the "USB Serial Port" by clicking "Advanced settings".



Here you can manually assign the EHEIM Interface to a different COM port and confirm the change with "OK".



18. Uninstall EHEIM ControlCenter

EHEIM ControlCenter can be uninstalled through:

"Start" → "Program" → "EHEIM ControlCenter" → "Uninstall EHEIM ControlCenter" or as usual via the Windows XP™ control panel under the item "Software".

Your personal settings are retained even after uninstalling the software.

19. What to do, when ...

... the filter is not working?

Cause	Troubleshooting
No power supply	Plug in power cord.

... unable to install the EHEIM ControlCenter?

Cause	Troubleshooting
Wrong operating system	The EHEIM ControlCenter is only compatible with Windows XP™ / Windows Vista® / Windows® 7 (32/64-Bit).
No free hard disk	Install new hard disc. Approx. a minimum of 250 MB of free hard disc space will be required.
Microsoft® Service pack 2 / Windows Installer 3.1 not installed	Download these components from the Microsoft® website.

... cannot establish a connection between the filter and the EHEIM ControlCenter or "not connected" is displayed in the software status window?

Cause	Troubleshooting
Interface not plugged in	Connect your computer and filter with the interface and re-start the EHEIM ControlCenter.
USB port is occupied or not functioning	Plug the interface into a different USB-port and re-start the EHEIM ControlCenter.
COM-Port is not recognized	Navigate to the system settings of the COM-port manually or try a different USB-port. (See point 17.1)
No power supply for the filter	Plug in the power cord of the filter.

... the filter display shows strange functions?

Cause	Troubleshooting
System error	"Reset" the Filter (see under Section 16. in this manual).

... the filter is constantly calibrated?

Cause	Troubleshooting
System error	"Reset" the Filter (see under Section 16. in this manual).

... the EHEIM ControlCenter has stopped responding?

Cause	Troubleshooting
Software error / Error message	Re-start the EHEIM ControlCenter.

... the filter is not running after updating the firmware?

Cause	Troubleshooting
No "reset" executed after updating the firmware	"Reset" the Filter (see under Section 16. in this manual).

... is the EHEIM Interface cable too short?

Cause	Troubleshooting
Cable too short	The cable length can be extended with a commercially available USB extension to a <u>maximum</u> length of 5 meters.

... the set filter flow rates in the EHEIM ControlCenter are not being achieved?

Cause	Troubleshooting
Filter is clogged	Clean the filter as described in the manual.

... no connection can be established with the EHEIM Update-Server?

Cause	Troubleshooting
No Internet connection	Ensure that you are online and give the EHEIM ControlCenter access to the Internet. Check the Firewall.

20. Technical Support

The EHEIM ContolCenter and EHEIM Interface have been developed with innovative technology and manufactured with utmost care to ensure trouble-free operation. Warranty and free support is provided only in case of use of the original EHEIM Interface.

You can reach our EHEIM Service Team at:

EHEIM GmbH & Co. KG
Plochinger Str. 54
73779 Deizisau / Germany

Tel. +49 7153/70 02-183
Fax +49 7153/70 02-174

Email: eheim.service@eheim.de

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