

E tool and Corrigo Web User manual





1. User manual Corrigo E tool	2
2. About this manual	3
3. Installation	
4. About Corrigo E tool	3
5. Startup	4
6. Menu bar	5
6.1 File	5
6.2 Edit	5
6.3 View	6
6.4 Tools	6
6.5 Help	
7. Toolbar	
8. Folders	
8.1 General	
8.2 Overview	
8.3 Actual / Set-point	
8.4 Consumption (only E tool Heating and E tool Boiler)	
8.5 Alarm status	
8.6 Inputs/Outputs	
8.7 Time control	
8.8 Settings	
8.9 Manual / Auto	
8.10 Configuration	
9. Updating Corrigo E	
10. TCP/IP – network terms	
10.1 Networks, subnets, routers	
10.2 IP address, Subnet mask, Default Gateway, DNS server	
10.3 DHCP, fixed and dynamic addresses	
10.4 White and black addresses	
10.5 Tunnels	
11. Corrigo Web (Only E tool Ventilation and Heating)	
11.1 Connection	
11.2 Configuration of the webservers	
11.3 Settings for the website	
11.4 Log on to the website	
11.5 Change values on the website	

1. User manual Corrigo E tool

Revision D October 2008

This user manual covers Corrigo E tool for both heating (E tool Heating), ventilation (E tool Ventilation) and boiler control (E tool Boiler).

This manual is published by AB REGIN without guarantee.

AB REGIN can at any time, without prior notice, make changes and improvements to the contents of this manual if this is called for due to printing errors, erroneous information or changes to hardware or software covered by the manual. Any such changes will always be included in future editions of the manual.

©AB REGIN, 2004.

™ E tool

2. About this manual

This manual is designed to be an aid during installation and use of Corrigo E tool. It describes all the functions unique to the program. The Corrigo E control parameters however are not described here. For detailed information on these, please see the manual for the controller in question.

3. Installation

To install and run Corrigo E tool you need a PC running Windows 2000 or Windows XP.

To run Corrigo Web, you need Internet Explorer 7.0 or later and Java.

To communicate with a Corrigo you need a special communication cable, E-Cable.

Corrigo E tool is delivered as a self-installing program on a CD, or can be downloaded from Regin's homepage (www.regin.se).

Load the CD and follow the on-screen instructions, or download the program folder from <u>www.regin.se</u>. Unzip the folder and run the setup.exe file, which you will find in the unzipped folder.

4. About Corrigo E tool

Corrigo E tool Heating, Corrigo E tool Ventilation and Corrigo E tool Boiler are Windows based PC-programs for the configuration and maintenance of the various Corrigo E series controllers.

Corrigo E tool has not been designed with the intention of being a full SCADA program.



The display window is divided into several parts:

At the top there is a menu bar with standard Windows type drop-down menus

Below the menu bar there is a Toolbar which gives direct access to various functions. All the functions in the E toolbar are also accessible through the menu bar system.

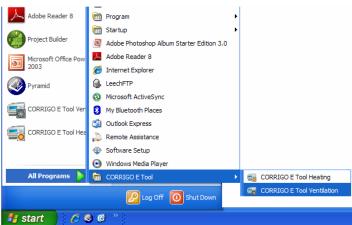
Below the E toolbar there is a row of folder tabs giving access to a number of folders that can be shown, one at a time in the area below the tabs.

At the bottom of the window is the Status bar.

This manual will mainly describe the functions of the items in the menu bar and the E toolbar. These functions are the same for all the Corrigo applications.

Since the contents of the folders vary depending on which of the programs you are running they will not be covered in detail in this manual. Use the appropriate Corrigo E controller manual for reference.

5. Startup



The installation program will have placed a Corrigo E tool folder in the Programs folder in the Start menu. This folder contains the links to Corrigo E tool Heating, Corrigo E tool Ventilation and Corrigo E tool Boiler.

To start either program, click on the Start button at the lower left hand corner of the display. Then click on Programs, the folder Corrigo E tool and finally the program you wish to run. To avoid having to go through the Start folder, you can create a shortcut on the desktop by pointing at the program name, click and hold the right hand mouse button and drag the program name from the folder onto the desktop. Release the button and click on "Create shortcut here".

On start-up Corrigo E tool will automatically search for any controller connected to the computer and connect to it if it is of a type suitable to the program being loaded. If no suitable Corrigo controller is found the program will start offline.



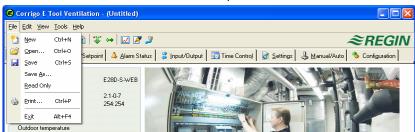
Corrigo E tool always starts with a box where you enter which Corrigo model you are using. The Overview folder is also displayed. Make sure that you enter the correct model, or strange things may occur in the control and alarm handling.

6. Menu bar

The menu bar has five drop-down menus:

6.1 File

These items are used to handle configuration files. The data describing a configuration can be saved as a file. Any number of different configurations can be saved, the only limit being available disk space. The file will have a .vtc extension and needs about 22 kb of disk space.



New

New will open a new unnamed file. A box appears where you can choose if you wish to create an E8, E15 or E28. Make sure that you choose the correct model. If you load an incorrect model in a Corrigo, unexplainable alarms etc. may appear since certain functions can be activated that are not visible in the present model.

Open

Opens a saved file.

Save

Saves the current file to disk. If the file is unnamed you will be prompted for a name.

Save as

Saves the current file to disk using a new name of your choice.

Read only

This item can normally be ignored. Should you for some reason open two instances for the same file one of them will be marked as Read only to prevent data conflict.

Print

Will give a printed list showing all the configuration settings of the present file.

Exit

Close Corrigo E tool. If the present configuration is unsaved you will be asked if you wish to save it before closing down.

6.2 Edit

The edit menu only contains one item:

0	Corrig	igo E Tool Ventilation - (Untitled)
Eile	Edit	it View Iools Help
<u>°</u> 1	×	Celete Del 👔 🐺 🖨 🗹 🖉 🎽 🏾 🍣 REGIN
۲	<u>0</u> verv	erview] ++ Agtual/Setpoint 🛛 🔺 Alarm Status 💈 Input/Output 🌚 Time Control 🕑 Settings 🕹 Manual/Auto 🎭 Configuration
	Syste Model	

Delete

Delete is only used in conjunction with Holiday periods. Use delete to remove assigned periods.

6.3 View

The view menu contains one item.

Refresh

E tool is not a dynamic program. If a parameter value is changed in a connected Corrigo, for example a Temperature, the corresponding value in E tool will not automatically be updated. The E tool user must initiate reading of parameter values from the controller.

Update initiates a reading of all dynamic parameters from the connected controller. The display is updated with the new values.

When you change between display tabs, an update is automatically initiated.

Alternatively, the Update button in the Toolbar (see Toolbar below) or the F5 key on the computer keyboard can be used. You can choose to auto refresh pictures with dynamic values, i.e. an automatic finger that presses F5 at settable intervals. See "Options" on page 9.

If the controller revision is older than the E tool revision, you are asked what you want to do to make them compatible. Se section 9.



6.4 Tools



Load all parameters

Download all present parameters from Corrigo E tool to the Corrigo E controller.

Synchronize all parameters

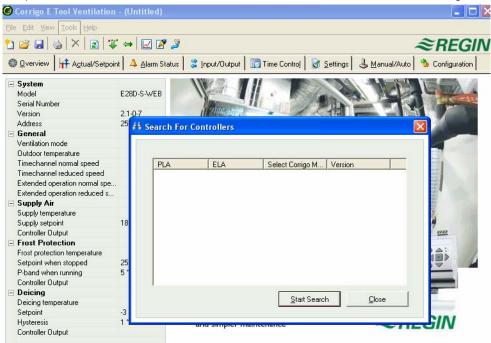
All parameter values in the Corrigo E are compared with the corresponding values in Corrigo E tool. All discrepancies will be listed. All items in the list are normally tick-marked. By removing the tick-mark from an item you can exclude it from the selection. You can then choose to update E tool using the controller values or update the controller using the E tool values.

Reset all parameters to default values

Resets all Corrigo E tool parameter values to default values.

Search for controllers

If, on startup, Corrigo E tool fails to establish contact with a connected controller it is usually due to an address mismatch. This function will search through all the possible addresses and list the addresses of the unit that is connected to the computer. These addresses are then written into the address fields in the folder Configuration / System.



Set controller date and time

Will synchronize the controller date and time with the computer date and time.

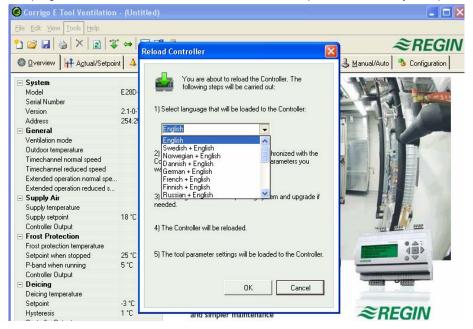
Change controller addresses

This function is used for changing the addresses of the connected controller. The address is normally 254:254. If the controller is intended to be used in an EXOline network, the addresses must be changed since the connected controllers have different addresses.

Reload the controller

Downloads the current control program from E tool to the controller.

Use this function to install updated program revisions. You can also use it to convert a Corrigo E Heating to a Corrigo E Ventilation or a Corrigo E Boiler and vice versa. Note, though, that since the hardware differs between controllers of different sizes, the E tool program and the Corrigo model must be compatible. For example, to load a Corrigo E15, the E tool program must be made for an E15. Otherwise, unexpected events may take place.



Reload the Web-site to the controller

Downloads the configuration to the webserver in the Corrigo. A model with TCP/IP communication must be used. More details in chapter 11.

Log on

Corrigo E has three different log-on levels, 1, 3 and 5.

5 is the basic level with the lowest access, 3 is operator level giving more access and 1 is system level with full access. As default Corrigo comes with the following passwords for the different levels:

System	1111
Operator	3333
Basic	5555

Should you try to perform an operation which requires a higher access level than the one you have, you will be prompted to change log-on level.

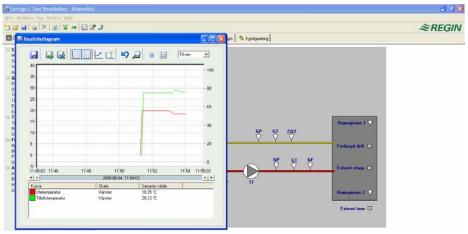
Log off

Is only active if you are logged on as Operator or System. Enables log-off to the basic level.

Change password

Is only active if you are logged on as Operator or System. Permits change of the password for the present log-on level.

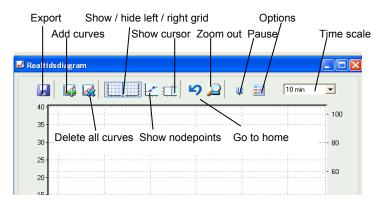
Real time chart



Creates a real time chart. Up to four parameters of your choice can be logged. The chosen parameters are listed at the bottom of the screen together with information on colour, which of the vertical scales it is referring to and latest recorded value. The chart has left and right vertical scales with individually settable ranges. The horizontal timeline can be changed so that the chart window can show longer or shorter intervals. Using the scrollbar at the bottom of the chart you can scroll along the timeline to show any position since the recording started. Values are recorded every 5 seconds. All recorded values can be saved to a textfile for later use in, for example, a spread-sheet program.

The chart cannot be saved. On exiting all values and settings are lost.

Real time chart tools



Export

Exports all recorded values to a .txt file. The values are tab-separated for easy import to, for example, Excel. Each line of the text file contains the values from one recording together with the time for the recording. Any number of values can be saved, the only limit being available disk space.

Add curves

A click on this button reveals a list of all Corrigo parameters that can be displayed in the chart. Choose up to 4 parameters.

Delete all curves.

Deletes all the selected curves.

Show/hide left/right grid

Chart grids scaled to the left and right scales can be displayed or hidden.

Show nodepoints

A marker can be displayed on each curve at the point of each recording.

Show cursor

Displays a vertical line on the chart display. The cursor can be moved along the timeline. When the cursor is active, instead of showing the latest recorded values in the parameter list, the values at the cursor position are displayed. In this way you can check back on earlier record values.

Go to home

Home position is the chart position where you have the "recording pens" close to the right hand edge of the chart. If you have scrolled back along the timeline you can use this button to jump back to normal position.

Pause

Pauses the chart. The "paper" stops scrolling and no new curve segments are added. Data acquisition continues, however, and new readings are saved every 5 seconds. Press Pause again and all the saved readings will be added to the chart.

Options

Set various options.

Options	
Time scale	
Interval:	10 min 💌
Left scale	
Maximum value:	40
Minimum value:	-5
Right scale	
Maximum value:	105
Minimum value:	-5
ОК	Cancel

Time scale signifies the time width of the chart display.

Left scale / Right scale sets the scaling for the left and right chart scales.

Time scale

Sets the time width of the chart display.

Parameter list

Curve	Scale	Last value	
Outdoor temperature	Left	5.19 °C	
Supply temperature	Left	24.61 °C	
Controller Output	Left	100 %	

The parameter list shows the parameters assigned to the chart. To remove a parameter, right-click on it and choose remove.

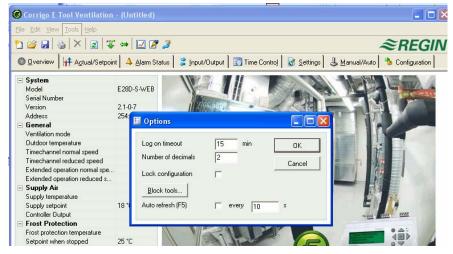
To change which of the right / left scales the parameter curve is referring to, right-click and choose properties or doubleclick with the left mouse-button.

Notes

Gives access to a notepad area. Any text written here is saved together with the configuration file. If you make a printout of the configuration the notepad text is included in the printout.

Options

Permits the setting of some program parameters.



You can choose to auto refresh pictures with dynamic values, i.e. an automatic finger that presses F5 at settable intervals.

Log-on timeout

After inactivity for longer than the set time the log-on level will be set to 5.

Number of decimals

Sets the number of decimals displayed. All calculations however, are always done with full precision.

Lock configuration

Blocks access to the configuration tab.

Block tools

Not used.

Communication settings

Setting of the communication between E tool and controller.

Which communication is suggested depends on which Corrigo model has been loaded into E tool at start-up. Serial communication is suggested for all models except Corrigo Web.

Z Communication settings	
Use Serial communication Serial Number:	<u>S</u> earch
<u>Communication Channels</u>	
C Use a TCP/IP port in this controller Current Name: Serial Number: Ethernet Address: Description:	Search
TCP/IP, WEB-site and E-mail settings OK	Cancel

Click on Communication channels and then on Serial.

Project <u>E</u> dit <u>T</u> oc	ıls <u>H</u> elp					
New Undo	Set as defa <u>u</u> lt					
Network	Name: Serial					
* Serial RadioModem	Type: Serial	port	-			
DialUpModemGroup	Description:	Description:				
DialUpModem1						
	,	10.0				
	Port	Com6	_			
	Bit rate (bps)	(Default: 9600)				
	Flow control	(Default: No)				
	Message time-out (ms	Default 100)				
	Character time-out (ms	(Default: 0)	_			

Check that the suggested Com port corresponds to the Com port which the computer has assigned to E-cable. You can see which Com port has been assigned in the Control panel / System / Device Manager / Ports (COM & LPT). If you have opened E tool with a Corrigo Web, you can choose if the communication should take place via E-cable (serial) or via the TCP/IP port.

🍠 Communi	cation settings	
Generation Use Se	rial communication	Search
	Communication Channels	
C Use a	CP/IP port in this controller	
	Current Name:	Search
-0	Serial Number:	
	Ethernet Address:	
	Description:	
	CP/IP, WEB-site and E-mail settings	
		OK Cancel

TCP/IP communication

If the controller has a TCP/IP port, it can communicate via a TCP/IP network. This is done by selecting **Use a TCP/IP** There are three ways to connect a controller with a TCP/IP port to a network for communication with a main computer: By pressing on **TCP/IP**, **WEB-site and E-mail settings**, you can choose between three different connection possibilities:

- 1. Crossover network cable
- 2. Automatically by DHCP (dynamic IP address)
- 3. Static IP address

See chapter 11 for the remaining setting options.

Crossover network cable

In the most basic case, a crossover network cable, E Cable-TCP/IP, is used. The user is connected directly to the controller. Connect a crossover TCP/IP-cable directly between the controller and the computer. Start E tool. Open the tool "Communication settings" from the menu "Tools" or via the icon in the toolbar.

Choose "Use a TCP/IP port in this controller". The program will ask if you are using a crossover network cable. Answer "Yes" to this question. The program will now search for controllers. Since no DHCP is available, a "broadcast" address will be used. Therefore, it is important that the computer is only connected directly to the current controller with a crossover Cat5-cable. If the search was successful, the controller's IP-settings will be shown: IP address, Subnet mask and Default Gateway (if there is one). If no values are shown: press "Search". A search window will be opened and hopefully the controller's TCP/IP card will be found and its serial number will be shown in the window. Select the row and press "OK".

If the program cannot find a controller:

- Control the cable and contacts.
- Control if there are more active network connections (Control panel/Network connections). Inactivate all except the "Local area connection".
- Press "Search" again.

Enter the IP address, the Subnet mask and, if any, the Gateway for the controller and press "Load TCP/IP-settings". A message will be shown if the loading was successful. Press "OK". You may get a message that a TCP/IP-connection has been established, but a controller with the address 254:254 could not been found. Instead, a

controller with another PLA:ELA address has been found. Answer "Yes" to the question whether this controller should be used instead.

E tool can now be used for configuration/downloading/upgrading/synchronisation etc.

If the message "Cannot read index variable 255:30.QSystem.PLA. Not responding." is shown, there is no connection between the controller's TCP/IP card and the operating system EXOreal on the controller's base circuit board. This may be due to an old EXOreal-version combined with a certain version of components on the TCP/IP card. The problem can be solved by loading the latest EXOreal-version to the controller. However, to do this a connection must first be established (catch-22). By "Powering up" and "Searching" multiple times, you may be able to establish a connection. Otherwise, the controller must be sent to Regin for upgrading.

Automatically by DHCP (dynamic IP address)

In this case, you choose the standard setting Obtain IP settings automatically (by DHCP).

This configuration is suitable for most networks equipped with a DHCP server, and, above all, when it is required that the controllers are assigned their addresses dynamically.

The following requirements have to be fulfilled:

- The DHCP server and the DNS server must cooperate since the controller sends its DNS name to the DHCP server. The Windows 2000 Server and the Windows 2003 Server support this. The DHCP server gives the controller an IP address and registers the IP adress and the DNS name in the DNS server.
- Each DNS name must be unique.
- The EXOline-TCP port, 26486, must be open from the controller to the main computer. This is especially important when the communication passes through a firewall.

When the controller and the computer running E tool are on the same subnet, you do not have to specify a DNS name or a Domain. When the controller and the computer are on different subnets, you have to specify the DNS name and the Domain. You get the domain name from the network administrator.

Static IP address

In this case, the static IP address of the controller is specified.

This configuration is most suitable for networks without a DHCP Server. You can also use it if you do not trust the network services completely, as it is the communication that has the best qualification to work when servers etc. do not. As long as routers and switches work well, this configuration alternative will work.

The following requirements have to be fulfilled: The EXOline-TCP port, 26486, must be open from the controller to the main computer. This is especially important when the communication passes through a firewall.

You get the static IP address, Net Mask and Default Gateway from the network administrator.

6.5 Help

Gives access to help texts and revision information.

7. Toolbar

The toolbar provides shortcuts to some frequently used commands.

🚘 Corrigo E Tool Ventilation - (Untitled)	
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp	
°1 🗃 🖬 🕹 × 2 ∓ ↔ 🗹 🗗 💐	≈REGIN
🔝 🛛 verview 🛛 🕂 Agtual/Setpoint 🛛 🔺 Alarm Status 🛛 🍃 Inp	ut/Dutput 🛛 🎲 Time Control 🛛 🐼 Settings 🕹 Manual/Auto 🐁 Configuration

By placing the cursor over a tool icon a tool tip will be displayed giving a short description of the E tool. All the E tools except for Refresh have been described in the menu bar description above.

8. Folders

8.1 General

The contents of the various folders depend on which of the programs E tool Heating or E tool Ventilation you are running and also on which Corrigo model, E28, E15 or E8 the program has been configured for.

Therefore the contents will not be described in detail here.

Items in a folder that somehow belong together are grouped. Group names are displayed in bold. The groups are normally shown expanded, that is that all the items in the group are displayed, headed by the group name. A group can be compressed to show only the group name by clicking on the box with a - (minus) to the left of the group name. For a compressed group the box will contain a +. Click on it to expand the group.

Setting values

Many of the folders contain settable values. If you pass the cursor over such a value a text box (tool tip) will be displayed showing the permitted value interval.

If you have a Corrigo connected you must download a value to the Corrigo for it to become active.

Downloading can be done in several ways:

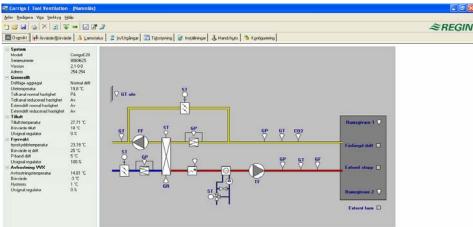
- 1. Right-click on any single item and choose *Load parameters*. This will download only that single parameter.
- 2. Right-click on a group name and choose *Load parameters*. This will download all parameters in the chosen group.
- 3. Click on the Load all parameters button on the E toolbar.
- 4. Click on *Tools* on the Menu bar and choose *Load all parameters*.

These last two methods will, as the name implies, download all parameters to the Corrigo.

You can also synchronize parameters following the same rules as above but choose *Synchronize parameters*. A useful tool to compare the settings in the Corrigo with the settings in E tool.

It is also possible to reset parameters to default values by right-clicking and choosing Reset parameters to default values.

8.2 Overview



The major part of the Overview folder displays a process diagram. The diagram is a static bitmap illustration that can be edited using, for example Paint. Any number of different diagrams can be saved. Which diagram is displayed is governed by the setting of the parameter *Process picture* in the System sub-folder in the Configuration folder.

Down the left-hand edge of the Overview folder there is a list of the most important control parameters. To update the values, press F5 or click on the refresh button in the E tool bar. You can choose to auto refresh pictures with dynamic values, i.e. an automatic finger that presses F5 at settable intervals. See "Options" on page 9.

8.3 Actual / Set-point

🖼 Corrigo E Tool Ventilation - (Untitle	d)			
<u>Eile E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp				
°n 😂 🖬 🍇 X 🛛 🛛 🐺 ↔ 🗹	2			≈REGIN
🛞 Overview 🕂 Actual/Setpoint 🔺 Alar	n Status 📔 🍃 Input/Output	🕎 Time Control	🛃 <u>S</u> ettings 🛛 🕹 <u>M</u> anu	al/Auto 👌 🌯 Configuration 📄
🖃 General		1		
Ventilation mode				
Outdoor temperature				
Timechannel normal speed				
Timechannel reduced speed				
Extended operation normal speed				
Extended operation reduced speed				
Exhaust temperature				
Room temperature 1				
Ventilation efficiency				
Supply Air Fan run time				
Exhaust Air Fan run time				
Supply Air				
Supply temperature				
Controller Output				
Supply setpoint	18 °C			
Frost Protection				
Frost protection temperature				
Controller Output				
Setpoint when stopped	25 °C			
P-band when running	5°C			
Deicing				
Deicing temperature				
Controller Output				
Setpoint	-3 °C			
Hysteresis	1°C			

Displays relevant setpoint values and actual values.

Real time chart

When right-clicking on some of the groups you are given the option of creating a real time chart. This chart will be created containing the four first recordable parameters in the group.

8.4 Consumption (only E tool Heating and E tool Boiler)

😂 🖬 🚳 🗡 😰 🐺 👄 🗹 🕻	2 🖉					2	REGI
] 🖸 verview 📔 🕂 Actual/Setpoint 🔢 Consu	mption 🛛 🔺 Alarm Statu	s 🛛 🍃 Inpi	ut/Output	😨 Time Control	Settings	🕹 Manual/Auto	🌯 Configura
Energy Meter							
Total Consumption							
Consumption Today							
Consumption Yesterday							
Consumption Day Before Yesterday							
Momentaneous power							
Average power							
Maximum average power							
Leak Power							
Heat Water Meter							
Total Consumption							
Consumption Today							
Consumption Yesterday							
Consumption Day Before Yesterday							
Cold Water Meter 1							
Total Consumption							
Flow							
Consumption Today							
Consumption Yesterday							
Consumption Day Before Yesterday							
Lowest consumption Today							
Lowest consumption Yesterday							

Displays consumption values for Energy Meter, Heat Water Meter and Cold Water Meter. The values are calculated using pulse constants that are set in the submenu Pulse constants in the Configuration folder.

8.5 Alarm status

🗃 🖬 🍇 🗙 👔	2 ਝ ⇔ 🗾 🎢 🦉		4	<i>≊REG</i>
Overview	'Setpoint 🔼 🔺 Alarm Status 💈 Input/Output 🛛 📆	Time Control 🛛 🛃 Set	tings 👃 <u>M</u> anual/Auto 🤇	🐌 Configuration
	Alarm	Class	: Delay S	tatus 🔄 📥
All classes 🔽	Alarm objects			
Class A 🔽	Supply Air Fan is out of operation	В	120 s	
Class B 🔽	Exhaust Air Fan is out of operation	В	120 s	
Class C 🛛 🔽	P1-Heater is out of operation	В	5 s	
All statuses 📃	P1-Cooler is out of operation	В	5 s	
All statuses 🔽	P1-Exchanger is out of operation	В	20 s	
Normal	Filter guard	В	180 s	
Blocked 🔽	Flow guard	В	5 s	
Acknowledged	External frost guard	A	0 s	
Returned 🔽	Fire alarm	A	0 s	
Nam active	External switch	С	0 s	
siann acuve 🛛 📭	External alarm	В	0 s	
	Supply Air control error	В	30 min	
1	High supply air temp	В	5 s	
Acknowledge	Low supply air temp	В	5 s	
	High room temp	В	30 min	
Block	Low room temp	В	30 min	
BIOOK	High exhaust air temp	В	30 min	
1	Low exhaust air temp	В	30 min	
Unblock	Electric heating is overheated	A	0 s	
	Low frost guard temp	A	0 s	
Settings	Low efficiency	В	30 min	
o o cuingo	Sensor error	В	5 s	
	Rotation guard exchanger	В	20 s	
	Fire damper is out of operation	В	90 s	
	Supply Air Fan external operation	C	120 s	-

Permits handling of all enabled alarms.

The alarm settings can be changed by either double-clicking on the alarm you wish to change or by marking the alarm and then clicking on the button *Settings*.

Alarm settings can also be changed in the folder Settings/Alarm objects.

Note: Changes made to alarm settings must be downloaded to become active.

Alarm indications

Non-activated alarms are shown with a green status box.

Active alarms have a red box with an exclamation mark.

Reset, not acknowledged alarms have a red, green-bordered box.

Active, acknowledged alarms have a blue box with a white tick-mark.

Blocked alarms have a gray box with a black X.

Any changes made to alarm status in E tool are instantly transmitted to the controller without the need to use *Load parameters*.

Changes in alarm status in the controller however are not displayed in E tool until you make a refresh.

To keep track of changes in alarm status when looking at other folders, look at the alarm box in the status bar at the bottom of the window.

Alarm categories

Corrigo has three alarm categories, Sum alarm A, Sum alarm B and Sum alarm C.

A and B alarms will activate the digital outputs A-alarm and B-alarm respectively if configured. Both will activate the Sum alarm output if configured.

C alarms are internal only.

C alarms need not be acknowledged. Once they reset, they automatically return to normal status.

Alarms can be shown according to class, A, B C or All classes and according to status, Normal, Blocked, Acknowledged, Returned, Alarm active and All statuses.

Alarm text in Corrigo

The alarm text that is displayed in the Corrigo on activated alarm is shown in column 2 Alarm text. This text can be changed, but only via E tool. (NB At the moment, this only applies to Ventilation and Heating. Boiler does not have changeable texts). Double-click on the alarm text and a box will appear where various alarm parameters, for example the alarm text, can be changed.

		A 1 TH THE HOLE AND A 12 YO		NOT THAT		Nai				· · · · · · · · · · · · · · · · · · ·
Corrigo E Tool										
e <u>E</u> dit <u>V</u> iew <u>T</u> oo	ls <u>H</u> elp									
) 📂 🖬 💊 🕻	× 🛛	i 🐺 👄 📈 🌌 🍠								Ĩ
- 1 · •			1	1		1.4	1			
🛿 🖸 verview 🛛 👬	Actual/9	ietpoint 🔺 Alarm Status 🛛 🍃 Input/I	Dutput 🔛 Time Control 🚮 Se	ittings 🛛 👌	<u>M</u> anual/	'Auto 🌤 Confi <u>o</u>	guration			
		Alarm	Alarm text	Nbr	Class	Delav 9	Status			
All classes	₹	Alarm objects		1404	Ciusa	D'Cluy C	ruius			
	V	Supply Air Fan is out of operation	Run Error Supply Air Fan	1	в	120 s				
Class B		Exhaust Air Fan is out of operation	Run Error Exhaust Air Fan	2	В	120 s				
Class C		P1-Heater is out of operation	Run Error P1-Heater	3	В	5 s		1 0	ttings	
All statuses		P1-Cooler is out of operation	Run Error P1-Cooler	4	В	5 s			arrings	
	_	P1-Exchanger is out of operation	Run Error P1-Exchanger	5	В	20 s				
All statuses		Filter guard	Filter guard	6	В	180 s				
Normal		Flow guard	Flow guard	7	В	5 s			External switch	C 🔽
Blocked Acknowledged	N	External frost guard	External frost guard	8	A	0 s			Class	
	M	Fire alarm	Fire alarm	10	A	0 s			Delay	0 s Yes
Hetumed Alarm active		External switch	External switch	11	C	0 s			Stop ventilation unit if alarm active Alarm test	Yes External switch
viarm active	1V	External alarm	External alarm	12	В	0 s			Alarm text	External switch
		Supply Air control error	Supply Air control error	13	В	30 min				
	1	High supply air temp	High supply air temp	15	В	5 s				
Acknowledge		Low supply air temp	Low supply air temp	16	В	5 s				
		High room temp	High room temp	19	В	30 min				
Block		Low room temp	Low room temp	20	В	30 min				
		High exhaust air temp	High exhaust air temp	21	В	30 min				
		Low exhaust air temp	Low exhaust air temp	22	В	30 min			01	I
Unblock		Electric heating is overheated	Electric heating is overheated	23	A	0 s			OK	Cancel
	_	Low frost guard temp	Low frost guard temp	25	A	0 s				
Settings		Low efficiency	Low efficiency	26	В	30 min				
		Sensor error Outdoor temp	Sensor error Outdoor temp	27	В	5 s				
		Rotation guard exchanger	Rotation guard exchanger	29	В	20 s				

Remember that the alarm text, including any possible space, may not consist of more than 38 characters. These will be distributed on 2 rows of 19 characters each. If a word in the text goes over the 19th position, the whole word will be moved to the second row. To avoid this you can add a hyphen in the 19th position, thereafter space and then the rest of the word.

For example: "Sensor error Relative Humidity supply air" consists of 40 characters, but since the third word goes over the 19th position, the following will be shown in the display:

Sensor error Relative Humidity su	
Relative Humidity su	ı
9 Sept 08:52 Class E	3

However, if you change the text to: "Sensor error RH supply air", you will get:

Sensor	 RH	
Supply 9 Sept	CI ass	В

8.6 Inputs/Outputs

) 🛎 🖬 🕲 🗶 🕶 🖾 🖉 🤰		≈REGII
🕲 Qverview ++ Agtual/Setpoint 🔺 Alam Status 🗊 Input/Output 🛐 Time Control 😵 Settie	ngs 🛃 Manual/Auto 🧆 Conliguration	
Analog Inputs Al - Ouddor Imp Al2 - Supplian Temp Al2 - Supplian Temp Al2 - Supplian Temp Ad4 - Rocen Temp Unit: ^c Unit: ^c	Analog Outputs ADT - Hearing YT AD2 - Cestinger Y2 AD2 - Coding Y2 AD3 - Coding Y2 AD4 - Not and DOT - SAF Start V1 Normal Speed DOT - SAF Start V1 Normal Speed DO2 - Hearing Prum Start DO3 - Hearing Dust DO5 - Field Damper DO5 - Field Damper DO5 - Kongred	

Shows actual values for all inputs and outputs.

This is a read-only folder. No settings can be made here.

Un-configured inputs and outputs are grayed.

8.7 Time control

🐸 🖬 🔌 🗡 😰 🐺		<i>≈REGII</i>
🛾 🖸 verview 📔 👬 A <u>c</u> tual/Setpoint	🔺 👍 👍 🎝 🎽 🕹 🕹 🕹 🕹 🕹 🕹 🕹 🕹 🕹	🛛 🛃 Settings 🕹 Manual/Auto 🌯 Configuration
Time Control	🗆 Monday	
Time Schedule	Period 1	07:00 - 16:00
Normal speed time	Period 2	00:00 - 00:00
Extra Time Group 1	Tuesday	
	Period 1	07:00 - 16:00
Extra Time Group 2	Period 2	00:00 - 00:00
- 🕑 Extra Time Group 3	Wednesday	
- 🕝 Extra Time Group 4	Period 1	07:00 - 16:00
Extra Time Group 5	Period 2	00:00 - 00:00
	Thursday	
includy conclusio	Period 1	07:00 - 16:00
	Period 2	00:00 - 00:00
	E Friday	
	Period 1	07:00 - 16:00
	Period 2	00:00 - 00:00
	□ Saturday	00.00.00.00
	Period 1 Period 2	00:00 - 00:00
		00:00 - 00:00
	⊟ Sunday	00.00.00.00
	Period 1 Period 2	00:00 - 00:00 00:00 - 00:00
	- Holiday	00.00 - 00.00
	Period 1	00:00 - 00:00
	Period 2	00:00 - 00:00
	Feliou Z	00.00 - 00.00

E tool Heating and E tool Boiler

Here you set the daily comfort periods.

Each control function has its own set of daily schedules

For each day there are two periods.

The 8th day, *Holiday*, governs the activity on all days marked as holidays in the holiday schedule, see below.

The schedules for Timer channel output 1...5 dictate the activation of the corresponding digital output signal.

To deactivate a period, set the time to 00:00 - 00:00.

To run the unit 24 hours a day, set the time to 00:00 - 24:00.

Note: An interval cannot exceed over midnight. For example, if you want to configure a period from 18:00 to 02:00, you have to divide it into two periods: Day 1 18:00 - 24:00 and day 2 00:00 - 02:00.

E tool Ventilation

Here you set the daily running periods.

If single-speed fans have been configured there is only one set of daily schedules.

If two-speed or pressure controlled fans have been configured there will be two sets of daily schedules. One for normal running speed and one for reduced speed.

For each day there are two periods.

Should the running periods for normal and reduced speed overlap, normal speed will take precedence.

The 8th day, *Holiday*, governs the activity on all days marked as holidays in the holiday schedule, see below.

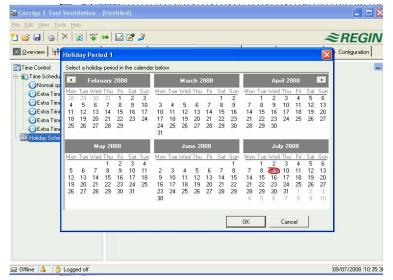
The schedules for *Timer channel output 1...5* dictate the activation of the corresponding digital output signal.

To deactivate a period, set the time to 00:00 - 00:00.

To run the unit 24 hours a day, set the time to 00:00 - 24:00.

Note: An interval cannot exceed over midnight. For example, if you want to configure a period from 18:00 to 02:00, you have to divide it into two periods: Day 1 18:00 - 24:00 and day 2 00:00 - 02:00.

Holiday schedule



Up to 24 separate holiday periods can be configured. A holiday period can be anything from one day up to 365 consecutive days.

To create a holiday period, click on the button at the right hand end of the line Add holiday period.

To pick a single date, click on it, a marker will indicate your choice, then click on OK.

To pick a period, click and hold on the first date, drag the cursor to the last date and release the button. The period will be marked. Click OK. Alternatively, click on the first date, depress and hold the shift-key on your keyboard and click on the last date of the period. The period will be marked. Click OK.

Although the calendar seems to extend far into the distant future, holiday periods can only extend up to one year from the present date. Should you choose a date further ahead than one year, the date will be replaced by the same date within one year from the present.

To remove unwanted holiday periods, use the delete button in the E toolbar.

Holidays/holiday periods that have been set will be valid every year, until they are removed. This means that for example Christmas and New Year will only have to be set once and are then valid for all future.

8.8 Settings

🖼 Corrigo E Tool Ventilation - (Untitled)	
<u>Eile E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp		
🎦 😂 🔙 😂 🗡 😰 🐺 «	→ 🛛 🖉 🖉	≈REGIN
📓 Overview 🛛 🕂 Actual/Setpoint	🔺 Alarm Status 🛛 💈 Input/Dutput 🗍 📰 Time Control	🛃 Settings 🕹 Manual/Auto 🆄 Configuration
Settings	Supply Air	
- Controller Settings	Supply P-band Supply I-time	33 °C 100 s
🖃 🛷 Alarm Settings	Frost Protection	100 \$
- 🐴 Alarm objects	Frost P-band when stopped	100 °C
	Frost I-time	100 s
	Deicing	
	Deicing P-band	100 °C
	Deicing I-time	100 s
🚍 Offline 🔺 👌 Logged off		09/07/2008 10:40:28

Controller settings

Setting of the control parameters.

Parameter setting-interval endpoint values and default value are displayed if you place the cursor over a parameter value. Changes must be downloaded to the controller in order to take effect.

To download, right-click on a parameter name or a parameter group name and choose *Load parameters*, or click on Load all parameters in the E toolbar or the E tools menu.

e <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp			
📸 🖬 🍇 🗙 😰 🛱 👄 🛛	E 🖉 🎐		≈REGII
	Alarm Status 💈 Input/Output 📰 Time Control 📝 Settings 🕹 Manual/Auto	🌯 Configuration	
Settings	Supply Air Fan is out of operation		
>Controller Settings	Class	B	•
Alarm Settings	Delay	120 s	
	Stop ventilation unit if alarm active	No	
Alarm objects	Alarm text	Run Error Supply Air Fan	
	Exhaust Air Fan is out of operation		
	Class	В	
	Delay	120 s	
	Stop ventilation unit if alarm active	No	
	Alarm text	Run Error Exhaust Air Fan	
	P1-Heater is out of operation		
	Class	В	
	Delay	5:	
	Stop ventilation unit if alarm active	No	
	Alarm text	Run Error P1-Heater	
	P1-Cooler is out of operation		
	Class	В	
	Delay	5:	
	Stop ventilation unit if alarm active	No	
	Alarm text	Run Error P1-Cooler	
	P1-Exchanger is out of operation		
	Class	B	
	Delay	20 s	
	Stop ventilation unit if alarm active	No	
	Alarm text	Run Error P1-Exchanger	
	E Filter guard		
	Class	R	

Alarm settings / alarm objects

Setting of alarm parameters.

These settings can also be made in the Alarm status folder. Se the section on Alarm status above.

Disabled alarms will be removed from the alarm list in the Alarm status folder.

A and B alarms will activate the digital outputs A-alarm and B-alarm respectively if configured. Both will activate the Sum alarm output if configured.

C alarms are internal only.

Alarm text in Corrigo

The alarm text that is displayed in the Corrigo on activated alarm is shown in the row Alarm text. This text can be changed, but only via E tool. (NB At the moment, this only applies to Ventilation and Heating. Boiler does not have changeable texts).

The alarm text, including any possible space, may not consist of more than 38 characters. These will be distributed on 2 rows of 19 characters each. If any word in the text goes over the 19th position, the whole word will be moved to the second row. To avoid this you can add a hyphen in the 19th position, thereafter space and then the rest of the word.

For example: "Sensor error Relative Humidity supply air" consists of 40 characters, but since the third word goes over the 19th position, the following will be shown in the display:

Sensor error
Relative Humidity su
9 Sept 08:52 Class B

However, if you change the text to: "Sensor error RH supply air", you will get:

Sensor	error	RH	
Sensor Supply 9 Sept	08: 52	CI ass	В

8.9 Manual / Auto

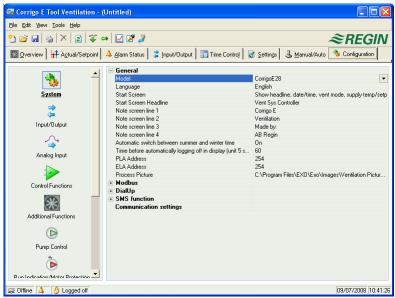
🚭 Corrigo E Tool Ventilation - (Untitled)	
<u>File Edit View T</u> ools <u>H</u> elp	
°1 🐸 🖬 🛬 × 😰 🐺 ↔ 🗹 🖉 🏓	≈REGIN
🔝 Dverview 🛛 🕂 Actual/Setpoint 🗍 🔺 Alarm Status 🗍 🤹 Input/Dutput	🛐 Time Control 🛛 🛃 Settings 🛃 Manual/Auto 🐴 Configuration
Supply Air Mode Controller Output Controller Output Controller Output Controller Output Controller Output Controller Output	Ventilation Unit Mode Ventilation mode Ventilation mode Ventilation mode Ventilation mode Supply Air Fan Mode Reduced speed Exhaust Air Fan Mode Reduced speed Heater Pump Mode Pump Cooler Pump Mode Pump Fire Damper Mode Damper
🖵 Offline 🔺 👌 Logged off	09/07/2008 10:40:51

In this menu you can take manual command of most controller functions. Very useful for testing purposes.

Setting functions to manual command will generate alarms to ensure that control is returned to Auto.

In this menu all changes are instantly downloaded to any attached controller, it is not necessary to run Load parameters for changes to take effect.

8.10 Configuration



This folder contains all the configuration parameters for the Corrigo. Since the contents are very diverse, the folder has been divided into sub-folders. These are accessed by clicking on the buttons in the left-hand button-list. For detailed information on these, please see the manual for the controller in question.

9. Updating Corrigo E

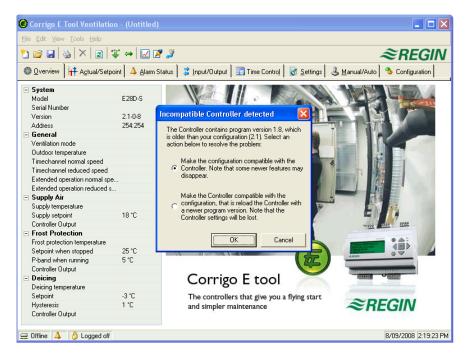
E tool should always be updated with the latest program revision. If you are using the latest revision of E tool and connect it to a Corrigo E with an older program revision, E tool will give a warning and offer two alternatives.

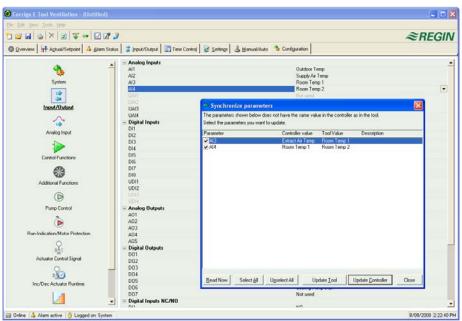
One alternative is to temporarily downgrade E tool to a revision corresponding to the revision in the controller. All the settings in the controller will remain intact and the controller will keep its revision.

The other alternative is to upgrade the controller to the same revision as E tool. This will cause the Corrigo-unit to temporarily stop working. Any previous settings will be permanently lost.

Take the following actions to avoid having to configure again:

- 1. Start E tool and connect it to the controller. When asked, choose to downgrade E tool to the controller's revision.
- 2. Select *Synchronize all parameters* in the menu Tools. Then select *Update tools*. E tool should now contain an exact copy of the configuration in the controller. Select *Save as* in the menu File and save the configuration under a suitable name.
- 3. Close E tool. Then open it again and choose to reload the controller with a new revision.
- 4. After reloading, open the saved configuration file, synchronize all parameters and the select *Update the controller*. The controller should now have the latest revision and be configured as it was before the upgrade. Make sure that the settings of the parameters that were not available in the old revision have suitable values.





10. TCP/IP – network terms

10.1 Networks, subnets, routers

IP network

An IP network is a cluster of cables and devices, where an equipment with one IP address can communicate with any other IP addressed equipment. Internet is **one** network, and when your home computer connects to the Internet, you become part of the Internet.

Subnet

Networks are divided into **subnets**, which are linked with **routers**. Routers need some kind of map of the network (or at least of the closest subnets, and somewhere to send everything else). A computer only needs to know the address of the closest router. A local switched Ethernet network is **one** subnet. Routers can have several Ethernet ports for different Ethernet networks, or maybe an Ethernet port and an ADSL connection.

10.2 IP address, Subnet mask, Default Gateway, DNS server

IP address

Each computer or network connected controller has an IP address consisting of four numbers between 0 and 255, which makes up a total of 32 bits.

Subnet mask

Each computer or network connected controller also has a subnet mask consisting of 32 bits.

Example

If the IP address is 192.0.2.73 and the subnet mask is 255.255.255.0, then the subnet addresses are from 192.0.2.0 up to 192.0.2.255, and 192.0.2.73 is your address on the subnet. Sometimes the subnet mask is specified by the number of bits used (always starting at the beginning of the subnet mask). The subnet is then 192.0.2.0/24, and the IP address and the subnet mask can also be specified together: 192.02.73/24.

Default Gateway

Each computer and each controller using TCP/IP communication must know the IP address to the router that goes out from its subnet. The IP address of this router is usually called the **default gateway**. All traffic that shall be sent out of your own subnet is sent to the default gateway.

DNS name

The computer or the controller must know the address of the equipment it is going to communicate with. This can be given as an IP address or a **DNS name**. DNS is a name service which can translate hierarchical names like **exchuvuddator.regin.se** to an IP address. Several DNS servers are part of the system, but you only have to know the IP address to one of them.

IP configuration

A complete IP configuration consists of the IP address of your computer, the subnet mask, the IP address of the closest router (also called the default gateway) and a DNS server.

10.3 DHCP, fixed and dynamic addresses

Static and dynamic

An equipment can have manually configured IP settings, a so-called **static** IP address, or they may receive a **dynamic** IP address from a special computer, a so-called DHCP server, on the subnet.

Dynamic IP addresses

The use of dynamic addresses presents a problem when other equipments try to contact the equipment, as the dynamic addresses are unknown in advance and are subject to change. To be able to contact equipment using dynamic addresses, your equipment need to use DNS, which also has to be updated when the dynamic address is changed via DHCP. This is commonly used in corporate networks and for Windows computer. However, most Internet Service Providers and several types of EXO controllers do not support the DNS update via DHCP, and must therefore use a static IP address.

10.4 White and black addresses

Black addresses

There is a shortage of IP addresses on the Internet and organizations are encouraged to use internal IP addresses on internal networks. Different companies may use the same address series, as their internal work computers never really need to connect directly to each other. This kind of addressing is called **private** or **black** addressing.

Reserved addresses

The following addresses are reserved for private nets:

192.168.0.0 - 192.168.255.255

172.16.0.0 - 172.31.255.255

10.0.0.0 - 10.255.255.255

See also: RFC1918, Address Albcatton for Private Internets [Online document], [cited Nov 29 2005], Available HTTP: http://www.ietf.org/rfc/rfc1918.txt

White addresses

Addresses that are unique on the Internet are called public or **white** adresses. More information of the use of IP addresses can be found on RFC3330, Special-use, IPv4 addresses, http://www.ietf.org/rfc/rfc3330.txt

NAT

Firewalls can act as agents for computers with private IP addresses, when they are searching the Internet for information. A connection from a computer with a black IP address is transformed into a connection from the firewall (which has a public IP address) to the Internet server. The Internet server may then return the information to the firewall which forwards it to the computer with the black address. This is called **NAT** or **masquerading**.

EXO

In general, NAT also works with EXO4 and EXO controllers, although the connection must be initiated from within the black network and target the white network.

NAT router

You can also have a NAT router to forward traffic from the white net to a computer on the black net. This is accomplished by letting traffic to a specific TCP port or UDP port to be forwarded to an IP address on the black net.

EXO controllers

There are Internet Service Providers that target, e.g. housing co-operatives, offering only private dynamic addresses. EXOcontrollers with a TCP/IP port can manage controllers connected this way, provided that the main computer has a static or a DNS registered **public** address. The EXO system can also manage the reverse condition, and allows a main computer with a private address to contact controllers with public addresses.

10.5 Tunnels

Two private networks

Another way to manage a connection via the Internet from a work computer to a main computer on a company network that uses private IP addresses, is to create a tunnel going into the network. A **tunnel** means connecting two networks using private IP addresses via the Internet, by encrypting all network packages to the destination network (encryption includes IP addresses and other information). The encryption is done by the firewall of one of the networks. The package is issued a new "address label" specifying the other firewall's public address. This firewall decrypts the contents and forwards it to the destination work station within its network. Any listeners that do not have knowledge of the password will not be able to decrypt the traffic. This technology is also called **VPN**.

PC – black network

A tunnel can also be created between a single computer and a private network. Nowadays, it is common for travelling salesmen to connect their mobile stations via GPRS and the Internet, and then connect to the company network using a tunnel. The same technology can be used by the duty technician to work with the ÉXO4 work station from his home, from the service vehicle or similar.

11. Corrigo Web (Only E tool Ventilation and Heating)

See chapter 10 for explanations of the terms used in this chapter.

11.1 Connection

The controller must be connected to a static, white IP address. The following connection methods have been tested for Corrigo Web:

- 1. Connection directly to an ADSL/cable modem
- 2. Connection to a router, which in turn is connected to an ADSL/cable modem

Corrigo Web has not been tested against all internet suppliers.

If the Corrigo is going to be located behind a router with a built-in firewall, the router must be configured. The router should have a fixed white IP address. Then it must find the Corrigo, either by sending an IP address to the controller or by giving the Corrigo's MAC address. Thereafter, all incoming traffic on Ports 80 and 26486 should be NAT routed to the Corrigo's black IP address. See the router manual for this.

Ports 80 and 26486 on the internet modem must also be open for incoming traffic.

This webserver technology is built into the Corrigo and is based on the fact that the Corrigo has an integrated webserver. However, this means that only one webserver can be connected to every white IP address.

One Corrigo E unit can handle max 5 connections from E tool, EXO4 and Internet Explorer at the same time.

11.2 Configuration of the webservers

As before, all configuration of the controller parameters takes place via E tool or directly in the display. No configuration can be done via the webserver. For configuration of the controller, see the previous chapters in this manual or the manuals for Corrigo E heating and ventilation respectively.

If the configuration of the controller parameters is changed, the website will automatically be downloaded to the web server. You only need to reload the website if the settings for the website are changed.

Configuration of the TCP/IP port

To configure the TCP/IP port in the Corrigo, go to Tools / Communication settings. Choose "Use a TCP/IP port in this controller". Select the right cable when asked.

Then press "Search" to find the correct Corrigo.

After the program has found the Corrigo, select it and press OK. Note: If the Corrigo is not fresh from the factory, update the TCP/IP port by pressing "Update TCP/IP port OS". The Corrigo is then updated to the latest TCP/IP version. If the Corrigo was manufactured in 2008 or earlier, the TCP/IP OS needs to be updated twice in order for all changes to take effect.

Then press on the button TCP/IP, WEB-site and E-mail settings.

P Settings	 Obtain IP settings automatically (by DHCP) 	Web U	Jser Login Passwords:	
ЪС.	C Use the following IP settings:	- &	Guest	
	IP Address:	g	Operator	
	Subnet mask:		Only users that are loged in as Operator can change any settings from the	
	Default gateway:		web-site, users loged in as Guest can see all actual values but not do any settings.	
	DNS server:	E mail C	erver Settinas	
	You can get IP settings assigned automatically if the network supports this (DHCP).		2	
NS name	you have to ask the network administrator for appropriate IP settings.	<u></u>	Network address to the E-mail server:	
		_		
S	Enter the host name and the domain of the controller. Ask the network		Login Name:	
	administrator for the appropriate domain. Host name:	_	Login Password:	
		_		
	Domain:		To be able to send E-mails the unit needs to use a SMTP E-mail server. Enter the DNS name or IP address of the server above. The server might require an	
	If the controller is configured to obtain IP settings automatically (by DHCP) this nam registered in the DINS server. It makes it possible for the main computer to connect t controller using the DINS name as network address.		user name and a password for authentication. The unit supports the authentication type LOGIN.	
	This requires that the DHCP and the DNS servers are able to cooperate.	5 30	ender Address	
Encrypted	Communication	E-mail 5	ender Address	
<u>A</u>	Use Encrypted Communication	Hall Con	Sender address for E-mails:	
<u> </u>	All computers (and other controllers) must use the encruption password			
	(below) to be able to communicate with this unit on the network.		Enter the sender address for the E-mails sent by this unit (Example:	
Network F	ncryption Password		EXO_MyController@regin.se'). The domain address of the sender address must normally be the same as the domain address of the E-mail server.	
<u> </u>				
9	This password must be used by computers (and other controllers) for			
9	This password must be used by computers (and other controllers) for encrypted communication with this unit.			

In this box, the following settings can be made:

IP settings

Here you choose if the Corrigo should have a static IP address or if the DHCP server should give it a dynamic IP address. If the TCP/IP port uses fixed IP and you have given the e-mail server's network name, you must also enter a DNS server under *Use the following IP settings*. The TCP/IP port can then translate the network name into an IP address. If DHCP is used, this will take place automatically.

DNS name

The Corrigo can be connected to a DNS name, for example: DNS name: Corrigoweb, Domain: regin.se. The controller's IP address will then be connected to the DNS name **Corrigoweb.regin.se**.

Encrypted communication

The encryption is used to prevent other users in the TCP/IP network from connecting to the Corrigo via E tool.

The password is only used when you want to reach the Corrigo via E tool. If you loose the password, the controller must be cleansed and reloaded.

Web user login passwords

The passwords to log on to the website. Guests have permission to view all values. Operators are authorised to view and change all values.

E-mail server settings

Network address to the e-mail server

Here you give the outgoing SMTP e-mail server, via which the TCP/IP port should send e-mails, either as a network name (DNS name, e.g. smtp.exampledomain.se) or as an IP address.

Within local area networks, you usually give an IP address. If you are connected to the Internet, network names are more common. Your network technician or Internet supplier can tell you which e-mail server you should give. Note: If you give a network name, this must be connected directly to the e-mail server. It cannot be an alias for another network name. To test if you have a directly connected network name, you can use the Windows command line interpreter (Start menu \rightarrow Run \rightarrow cmd) to run the *Ping* command on the network name (for example Ping smtp.exampledomain.se) and see if the command reports "Pinging smtp.exampledomain.se".

 Login name and Login password These two fields are only used if the outgoing e-mail server requires logging on and supports the AUTH LOGIN method. Otherwise, leave them empty.
 Other log on methods or coding are currently not supported.

E-mail sender address

Here you write the sender address that should be given in the e-mail. Certain e-mail servers and junk mail filters require that a real e-mail address is used here. Otherwise, you can give a fictitious sender address, e.g. MyController@MyDomain.se. Ask your network technician for advice if you are unsure.

Set TCP/IP settings

After the above settings have been made, you download the settings to the TCP/IP card in the Corrigo by pressing on this button.

11.3 Settings for the website

In the sub-folder System/Website and E-mail in the Configuration folder, you can make the following settings for the website:

Headline Web-site

Here you can write a headline which should be shown on the first page when you surf to the Corrigo website.

Link, Heading

Up to four different links to small pdf files or other Internet sites can be added to the website. *Note: The total size of the pdf files and the process picture must not be over 150 kB.* Under Link1, Heading you write the heading for Link 1, under Link2, Heading you write the heading for Link 2 and so on. The heading must not contain any space. Instead of for example AB Regin, you must write AB_Regin. This is the default setting for Heading 4.

Link

Under Link 1 you write the address to the pdf file or Internet site.

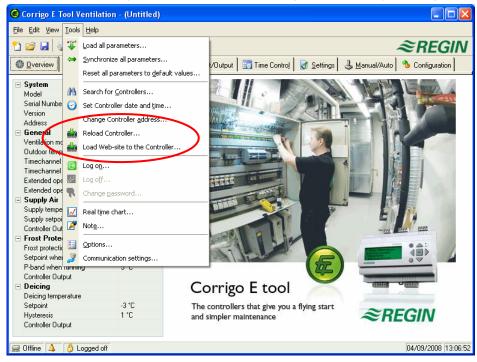
Process picture

The picture that is chosen here will be shown in the Overview folder on the web. The picture should be in jpg format or similar because of the lack of storage space.

E-mail

Here you give the e-mail address to which an alarm should be sent, as well as the title and subject of the message.

After making the above settings and downloading the settings to the TCP/IP card, the only thing that remains is to download all the settings to the webserver in the Corrigo. You do this by selecting Tools/Load Web-site to the Controller.



11.4 Log on to the website

This is how the login page for the Corrigo looks when it is published on the web.

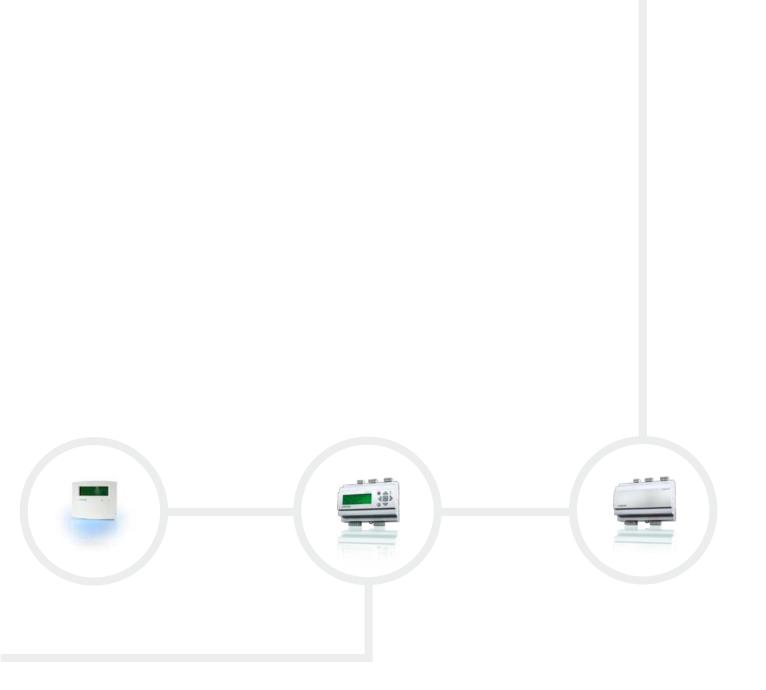
In the box *Password*, you log on using the password you have entered under **TCP/IP**, **WEB-site and E-mail settings**.



11.5 Change values on the website



All values written in blue can be changed. As soon as a value has been changed and you have pressed Enter, the value is downloaded to the Corrigo.



Head Office SwedenPhone:+46 31 720 02 00Web:www.regin.seMail:info@regin.se

 Sales Offices

 France:
 +33
 14
 171
 46
 46

 Hong Kong:
 +852
 24
 07
 02
 81

 Singapore:
 +65
 67
 47
 82
 33

