# *CX3000 Configurator*



**CX3000**
*R A N G E*
*COUNTER FLOW*
*HEAT EXCHANGER*

**Original instructions**

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# 1. Program information

## 1.1 Description

The CX3000 Configurator is a program to easily set up and configure a CX3000 unit with built-in EXcon Master.
With a few simple selections, you can quickly find the correct accessories and automatically configure the CX3000 accordingly.

**Installation of the CX3000 Configurator**

Download the CX3000 Configurator program from EXHAUSTO's website.
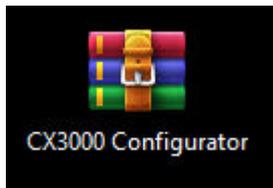
The program can be found under:
**https://www.exhausto.dk/produkter/Ceiling-counterflow/CX3000**

or
under download section for documents:
**https://www.exhausto.dk/service/download** and also under CX3000.

The program is downloaded as a ZIP file:



CX3000 Configurator

The program *does not* need to be installed as it is executable, i.e. it can be opened directly without installation.

This also means that you can open the program directly from the ZIP file by double-clicking on the .exe file:

| Name | Size | Packed | Type | Modified | CRC32 |
|---|---|---|---|---|---|
| .. | | | Filmappe | | |
| app.publish | | | Filmappe | | |
| CX3000 Configurator.application | 1.943 | 727 | Application Manif... | 16-02-2023 09:16 | 10038373 |
| CX3000 Configurator.exe | 1.652.224 | 1.173.131 | Program | 16-02-2023 09:16 | 54AD747E |
| CX3000 Configurator.exe.config | 189 | 139 | Configuration Sou... | 22-01-2023 12:58 | 63E8D557 |
| CX3000 Configurator.exe.manifest | 5.142 | 1.693 | MANIFEST-fil | 16-02-2023 09:16 | 5101D5D3 |
| CX3000 Configurator.pdb | 87.552 | 20.033 | Program Debug D... | 16-02-2023 09:16 | 61623579 |

CX3000 Configurator_V3.zip - ZIP archive, unpacked size 3.400.226 bytes

or
choose to extract the ZIP file to a specific location on the PC and then open the program by double-clicking on the .exe file:

| Navn | Ændringsdato | Type | Størrelse |
|---|---|---|---|
| app.publish | 16-02-2023 09:16 | Filmappe | |
| CX3000 Configurator | 16-02-2023 09:16 | Application Manif... | 2 KB |
| CX3000 Configurator | 16-02-2023 09:16 | Program | 1.614 KB |
| CX3000 Configurator.exe | 22-01-2023 12:58 | Configuration Sou... | 1 KB |
| CX3000 Configurator.exe.manifest | 16-02-2023 09:16 | MANIFEST-fil | 6 KB |
| CX3000 Configurator.pdb | 16-02-2023 09:16 | Program Debug D... | 86 KB |

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## 1.2 Connection of EXcon

Connect EXcon Master to PC via an RJ45 Ethernet cable as shown.

Check and, if needed, set the IP address in EXcon Master via the HMI panel so that it is in the same range as on the PC.
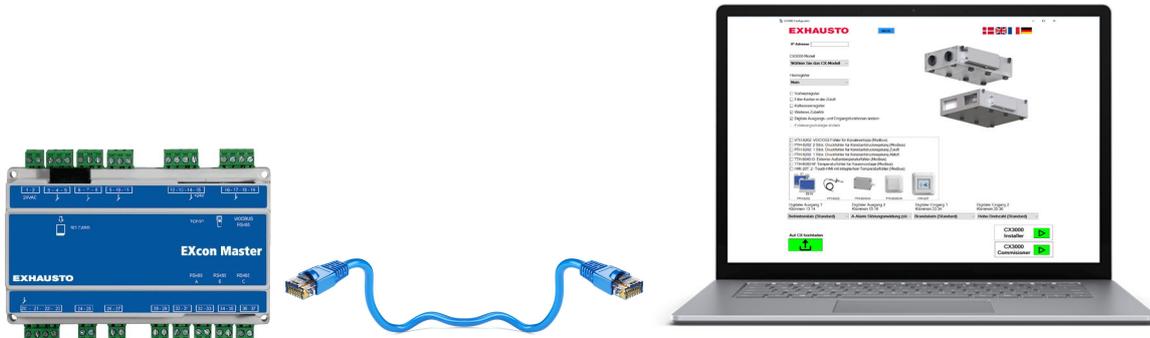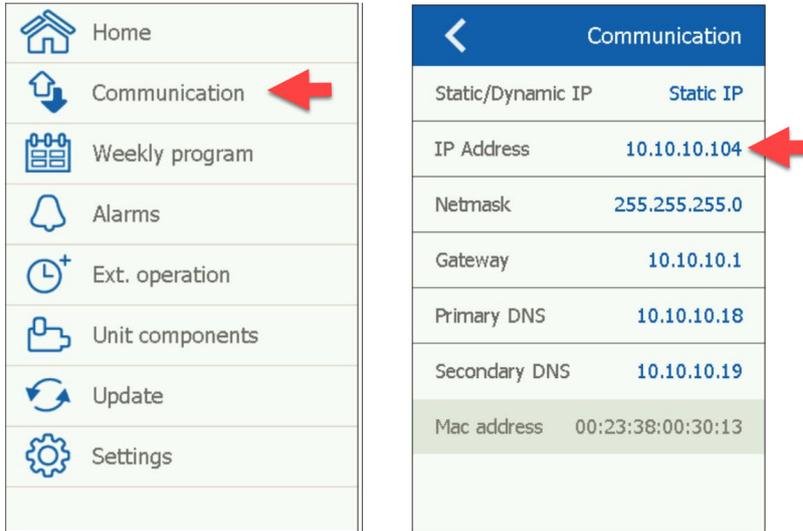
## 1.3 Quick Guide

**Steps 1-10**

1. Enter the correct IP address for the CX3000 unit connected.
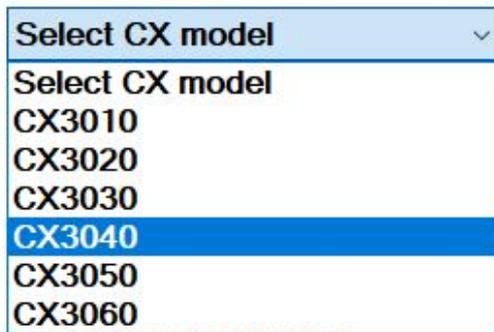   The IP address can be found in the HMI panel:

   

   Remember that the PC must be set to the same IP range as the CX3000, or the IP address of the CX3000 must be changed so that it is in the same range as the connected PC.

2. Check that there is a connection to the IP address by pressing the PING button:
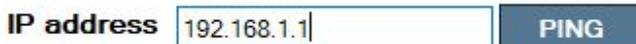
   

3. Select the version size CX3000 to configure:

   

   - Exceptions: For version CX3030 – CX3060, select which fan type is fitted, composite or metal:

   

   Important: *Fan type* is country-configured. Only composite can be selected for DK and DE.

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4. If a heating coil is fitted to the unit, select the correct coil type:

Heating coil

| None | ⌄ |
|---|---|

None
**Water heating coil**
**Electrical heating coil**
**Combi coil**

● Exceptions: If it is *version CX3030 – CX3060* and *electric heating coil* is selected, there are two sizes to choose from. Select the correct size from the list:

Size kW

| Small 5,5 kW | ⌄ |
|---|---|

**Small 5,5 kW**
**Large 11,0 kW**

5. Mark in the box if an electric preheating coil is fitted:

☑ Electrical preheater

6. Check the box if filter housing is fitted on the supply air side:

☑ Filter box on supply air

7. Mark in the box if a water cooling coil is fitted:

☑ Cooling coil water

NB! Not possible if Combi coil is selected under Heating coil.

8. If you have extra accessories that need to be configured, such as a pressure transmitter, CO2 sensor (modbus) or other, check the box next to Extra equipment:

☑ Additional accessories

● The box with options for additional equipment is now displayed. Check the box next to the accessories you want to configure.

☐ VTH-6202: VOC/CO2 sensor duct (modbus)
☐ PTH-6202: 2 pcs. pressure transmitters for Constant pressure control
☐ PTH-6202: 1 pcs. pressure transmitter for Constant Supply pressure control
☐ PTH-6202: 1 pcs. pressure transmitter for Constant Extract pressure control
☐ TTH-6040-O: External outdoor temperature sensor (modbus)
☐ TTH-6040-W: Room temperature sensor (modbus)
☐ HMI-20T: 2¨ touch HMI with integrated temperature sensor (modbus)

| PTH-6202 | VTH-6202 | TTH-6040-O | TTH-6040-W | HMI-20T |
|---|---|---|---|---|

● NB! Only one type of *Constant Pressure regulation* can be selected & only *TTH-6040-W* OR *HMI-20T can be selected.*

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9. The CX3000 is factory configured with some specific functions for digital outputs and inputs. However, it is possible to change functions for these if other signals are to be used. Check the box next to "Change digital output and input functions:

☑ Change digital output and input functions

The boxes for entry and exit respectively now appear on the right-hand side:

Digital output 1, Terminals 13-14
Operation signal (default)

Digital output 2, Terminals 15-16
A-alarm output (default)

Digital input 1, Terminals 33-34
High speed (default)

Digital input 2, Terminals 35-36
Fire alarm (default)

Digital output 1, Terminals 13-14
Summer operation active

Operation signal (default)
B-alarm output
Alarm reset
Summer operation active
Summer night cooling activated

High speed (default)

Digital input 2, Terminals 35-36
Fire alarm (default)

- NB! *The* same function cannot be selected for both inputs and outputs.
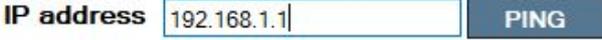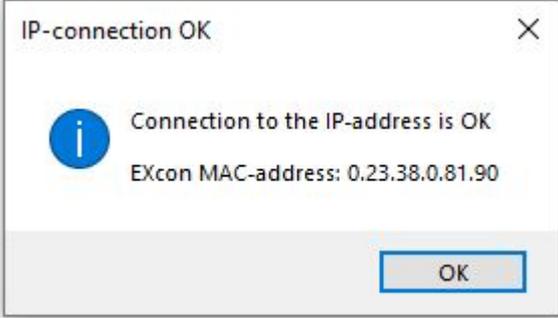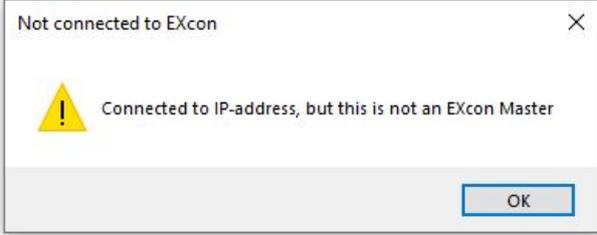
10. Once the different selections have been configured, you can send the configuration to the CX3000 unit by pressing "Upload to CX":

Upload to CX
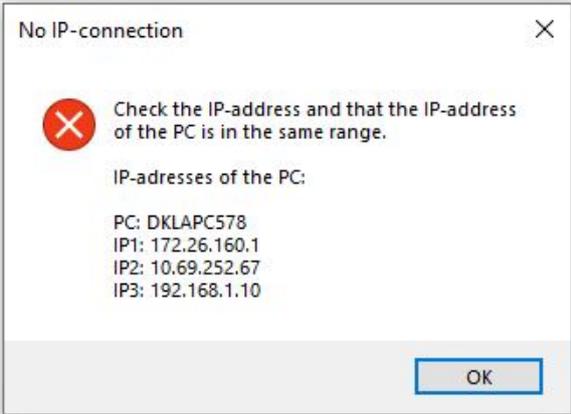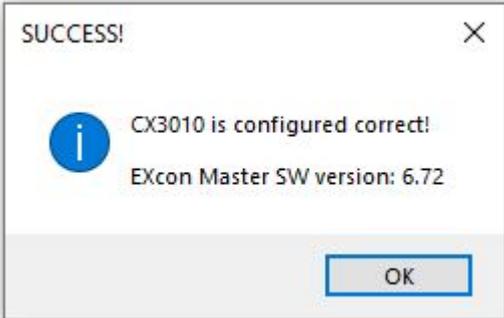
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# 2. Functions

## 2.1 Functional description

| Function | Description |
|---|---|
| **HELP** | Opens the help menu |
| (flags: Denmark, UK, France, Germany) | Select the required language for the application |
| **CX3000 Installer** ▶ | Opens the **CX3000 Installer** program. Here you can adjust various parameters for the CX3000 unit in relation to operation of the unit, and read out the current values. |
| **CX3000 Commisioner** ▶ | Opens the **CX3000 Commissions** program. Here you can commission the CX3000 and read out actual values for a report, which can then be printed and signed. |
| **IP address** 192.168.1.1 **PING** | Enter the IP address of the CX3000 unit and EXcon Master to be configured here. To ensure that this is the correct IP address, it is a good idea to quickly test the IP address by pressing PING. |
| IP-connection OK ℹ️ Connection to the IP-address is OK EXcon MAC-address: 0.23.38.0.81.90 OK | If there is a connection to the IP address and an EXcon Master is connected, **the IP connection OK** box is displayed, where you can also read the MAC address of the EXcon Master that there is a connection to. |
| Not connected to EXcon ⚠️ Connected to IP-address, but this is not an EXcon Master OK | Is there a connection to the IP address BUT not to an EXcon Master, the box **Not connected to EXcon** is displayed. This means that you get a response from the IP address, but it is not an EXcon Master to which the IP address belongs. |

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| Function | Description |
|---|---|
|  | If there is NO connection to the IP address, the **NO IP connection** box is displayed.<br>Here you need to check whether the IP address is correct and/or that the IP address on the PC is in the same range as EXcon Master.<br>If the IP address for the EXcon Master and PC are not in the same range, they will not be able to communicate with each other.<br>Current IP addresses found on the PC network card are displayed.<br>If needed, set the IP address in EXcon to the same range. |
|  | When you press **Upload to CX**, the set configuration is automatically sent to EXcon Master.<br>The CX3000 Configurator starts by deleting all data in EXcon Master and then installing the new configuration.<br>Therefore, you can easily change the configuration and upload a new configuration if you have made an incorrect setting or selection. |
|  | When the new configuration has been uploaded correctly and accepted by EXcon Master, the box **SUCCESS!** is displayed, where you can also read the current software version in the EXcon Master.<br><br>If you have failed to test the IP address using the PING function and you try to upload configuration to either an unknown IP address or an IP address that does not belong to an EXcon Master, you will see the same error messages as described above.<br><br>If you have several CX3000 units of the same version or the same accessories, it is a good idea to enter the IP address for the other CX3000 unit and upload the same configuration.<br>If you close the CX3000 Configurator application, you will need to re-enter all information. |
| ☑ Change deicing strategy | In the case of CX3030 to CX3060, frost protection of the counterflow heat exchanger takes place as standard via a pressure loss measurement across the heat exchanger.<br>If the pressure drop exceeds the limit value, the bypass damper opens for *x* number of seconds. |
| ○ By exhaust air temperature<br>◉ By heat exchanger pressure drop | It is also possible to change the frost protection of the counterflow heat exchanger so that it fits with the exhaust air temperature.<br>If the exhaust air temperature falls below the threshold value, the bypass damper will open modulating in relation to a set temperature P-band. |

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