



INTERNAL USE ONLY

DAIKIN

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Supersedes	00

Service Manual

Board Setup

2.2.1

Starting application...



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1. DISCLAIMER

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2. SCOPE AND APPLICATION



The following information are intended only as a guide for authorized Daikin personnel with a sound basic knowledge of HVAC equipment, mechanical systems, electrical wiring, controls, & microprocessors.

Attempts by untrained or unauthorized persons to start, operate and service this equipment can result in equipment failure, personal injury, or death, as well as invalidation of product warranty. It is the responsibility of the technician to ensure that proper safety equipment safe practices are used.

This document explains how to use the “Board Setup” software to download the recipe file in:

- the regulation board of DAE brand inverter in screw compressor application;
- Low Harmonic Filter (LHF);
- the Digital Box (Node) of AHU.

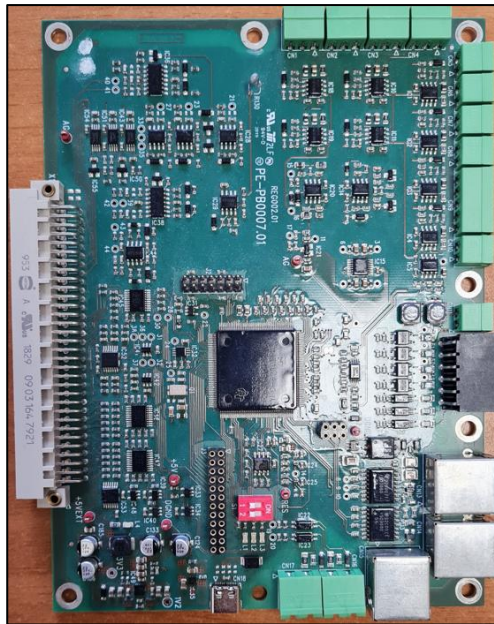


Figure 1: Regulation board



Figure 2: Digital Box board

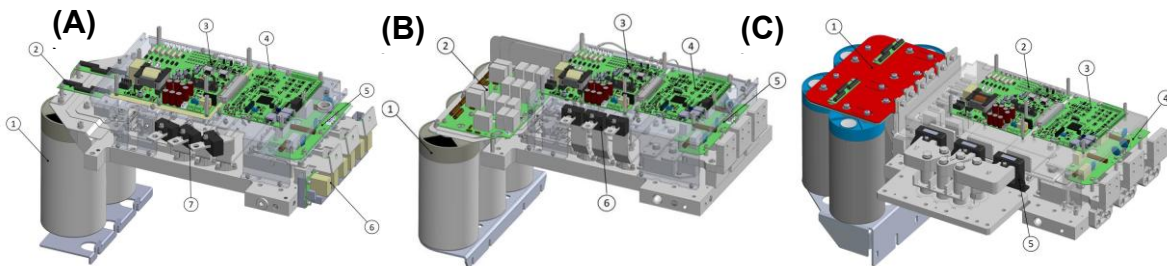


Figure 3 DAE brand inverter: (A) 90-120 kW (B) 200 kW (C) 330 - 400 kW

Recipe download procedure is needed:

- a new spare part VFD or regulation board must be installed (replacement due to anomaly or damaging in the already installed VFD or regulation board) for the following application:
 - EWAx-TZ-x units
 - EWYx-4Z units
- If you want to change the configuration or the configuration of the Digital Box is not correct ;
- if you want to enter a prescription for a Low Harmonic Filter (LHF).

Daikin Applied Europe S.p.A strongly suggest performing the procedure before to install the VFD on the unit or the regulation board on the VFD (VFD not supplied).



NOTICE

As standard, recipe upload procedure is not necessary on factory mounted regulation board VFD. Any recipe upload procedure on factory mounted regulation board VFD must be authorized by Service support department. In case of any not authorized recipe upload procedure performed on factory mounted regulation board and consequent VFD malfunctioning, components damaging is not covered by warranty terms



DANGER: RISK OF ELECTROCUTION

It's strongly recommended to perform the procedure before to install the VFD or the regulation board on the VFD
In case procedure is performed with regulation board mounted on the VFD, before to access it:

- Wear safety glasses and gloves
- Disable the circuit involved by switch
- Main line fuses in series to the VFD must be disconnected

- Wait till the DC-link capacitor are discharged: wait almost 20 minutes (residual voltage must be under 5 V to be checked with multimeter)
- Once the cover has been opened, observe ESD precautions and wear protective gloves against electrostatic discharge during maintenance or assembly.

**DANGER: RISK OF ELECTROCUTION**

Even when the main circuit breaker or isolator is switched off, certain circuits may still be energised, since they may be connected to a separate power source.

**DANGER: RISK OF BURNING**

Electrical currents cause components to get hot either temporarily or permanently. Handle power cable, electrical cables and conduits, terminal box covers and motor frames with great care.

**DANGER: RISK OF ARC FLASH**

A substantial amount of energy can be stored in the capacitor bank even if its voltage is below 60 V. Do not short-circuit the DC-Link unless the capacitor bank is completely discharged. Before commencing any mechanical work on the inverter, discharge completely the DC-Link by means of a suitable external device or allow enough time for the DC-Link to be completely discharged (< 5 V).

**WARNING**

Once the cover has been opened, observe ESD precautions and wear protective gloves against electrostatic discharge during maintenance or assembly



Figure 4 ESD precautions label

3. MINIMUM REQUIREMENTS

Following procedure requires “Board Setup” software to be installed on the PC.

Minimum system Requirements:

Operative System

- Windows 10 64 Bit
- Windows 8

**INFORMATION**

Previous operative system doesn't support the application

Hardware requirements

- Processor Pentium 1.6 GHz or greater
- RAM Memory 1 GB; 2 GB preferred
- Hard Disk 500 MB of free space
- USB-port

Software requirements

- Runtime .net 6
- Internet connection: useful for software and recipes updates
- Web browser: Google Chrome or Microsoft Edge: for installer download
- VFD NAV software version 1.0.6.0 (or above)



INFORMATION

VFD NAV software must be installed before Board Setup installation.
Getting the software installer for VFD NAV:

- DENV Affiliate: you can get the software on MyDaikin.eu in VFD NAV product page: [VFD Nav \(daikin.eu\)](https://www.daikin.eu)
- Direct DAE affiliate: ask to servicesupport@daikinapplied.eu



NOTICE

VFD Nav versions dating back to 2019, with major version number higher than 1.0.3 must not to be considered



Figure 5 VFD Nav Software Version

4. SOFTWARE INSTALLATION

- To download installation file, open your web browser and go to the link: [Index of /BoardSetup/stable/](#)

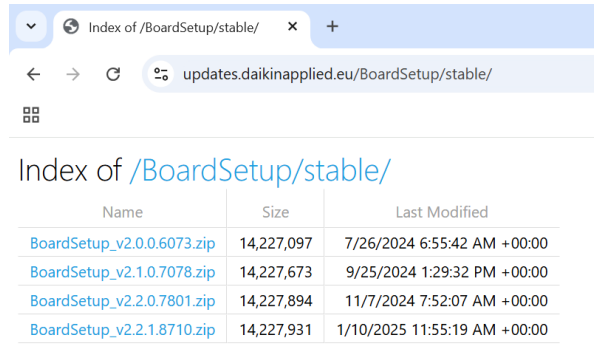
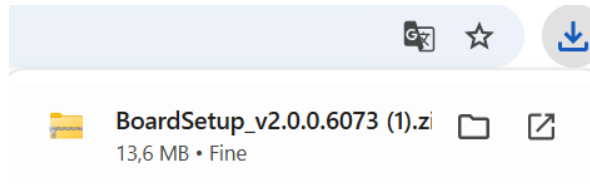


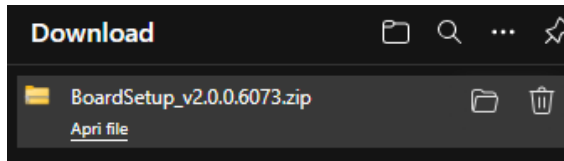
Figure 6 Installer website

b. Click on the name of the installer to download the installer file

- *Google Chrome:*



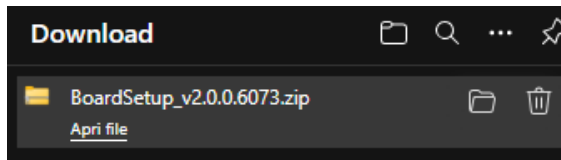
- *Microsoft Edge:*



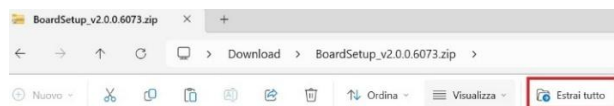
c. In this point the procedure to download the installer file of Inverter Setup is explained for Google Chrome and Microsoft Edge:

- *Microsoft Edge/Google Chrome*

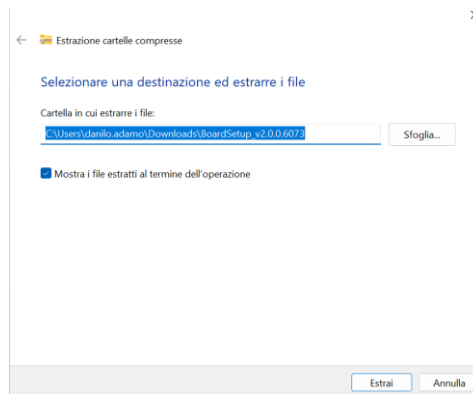
i. Click on the “Open file” button



ii. Click on “extract all”

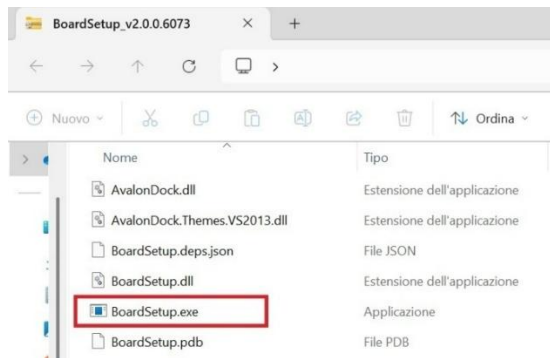


iii. Choose the folder where you want to extract your file



d. Open BoardSetup folder

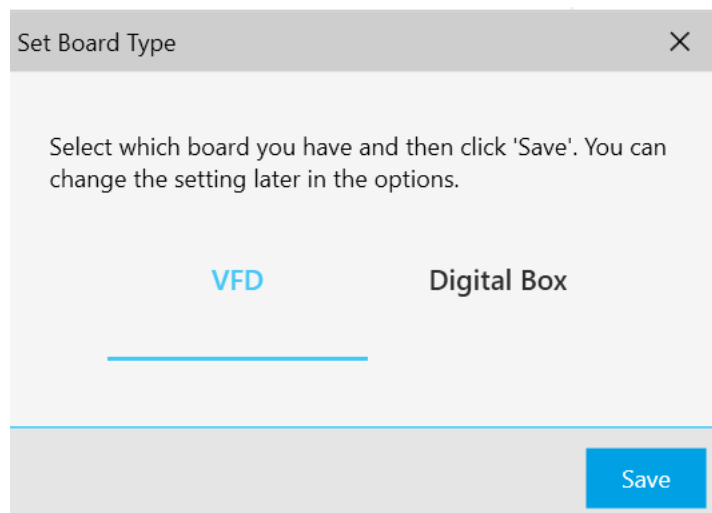
i. Click on "BoardSetup .exe"



e. Insert password "Daikin@2021".

The first time you launch the application, it asks which tool you want to open "VFD" (old inverter setup) or Digital Box.

In option you can pass between the two tools.



5. HMI DESCRIPTION

In this paragraph software HMI is described

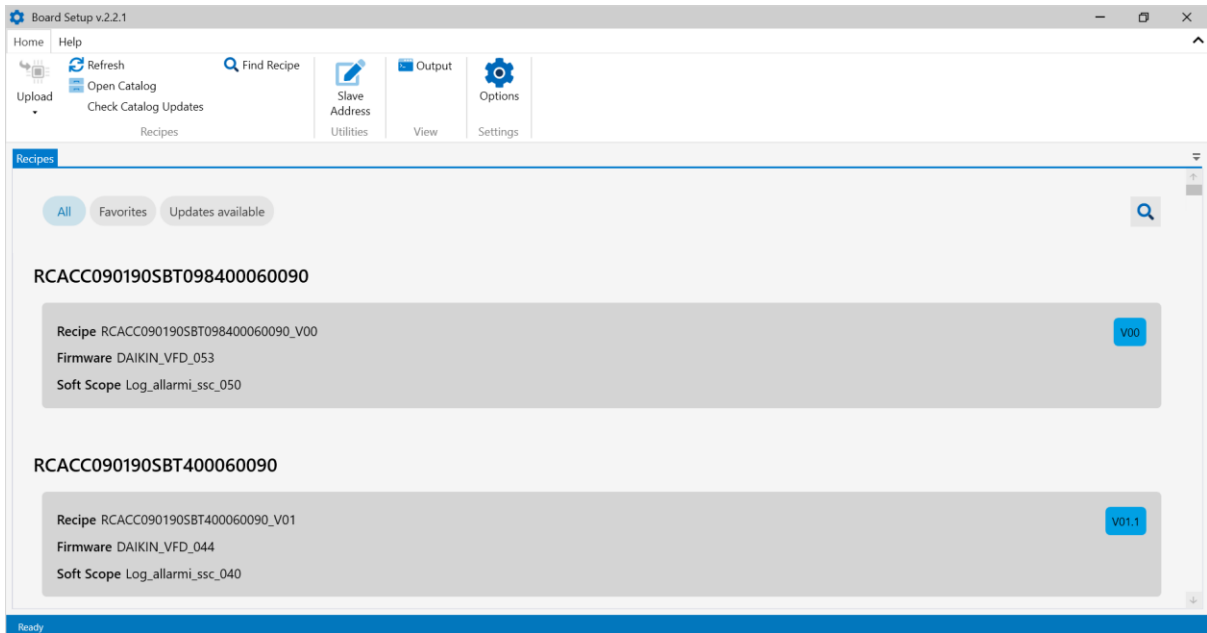


Figure 7: Application HMI VFD

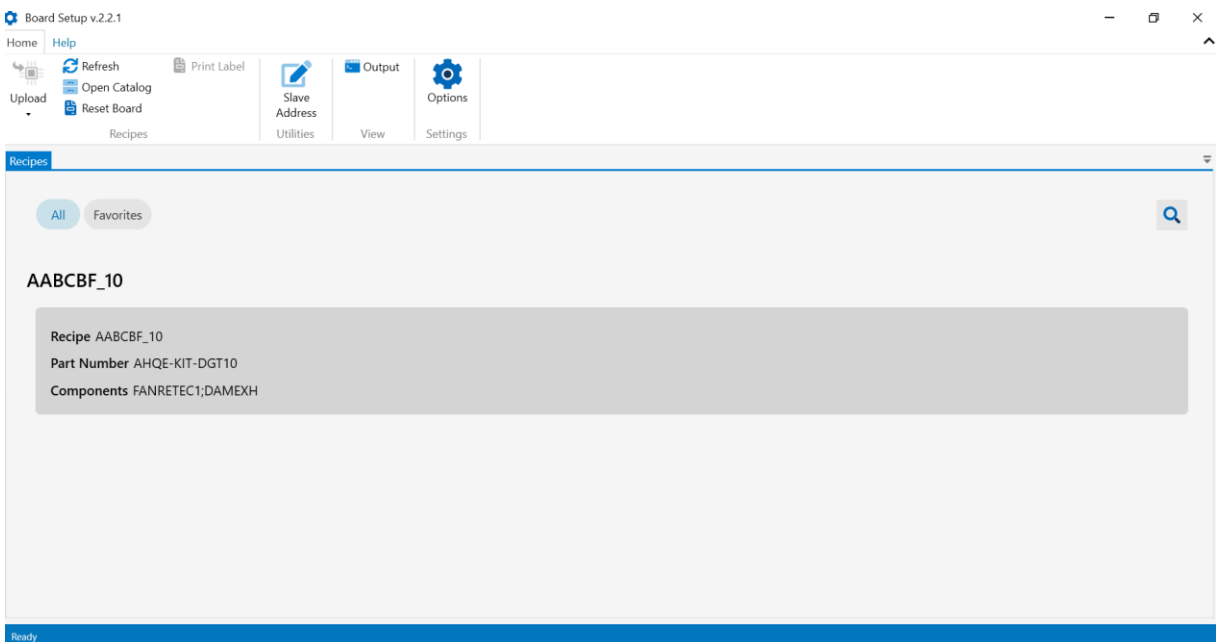


Figure 8: Application HMI DigitalBox

Board Setup HMI is composed by a toolbar and a main interface. On the following, a description of each one section is given.

A. Toolbar

The toolbar is composed by two sections:

- Home

- Help

Home section

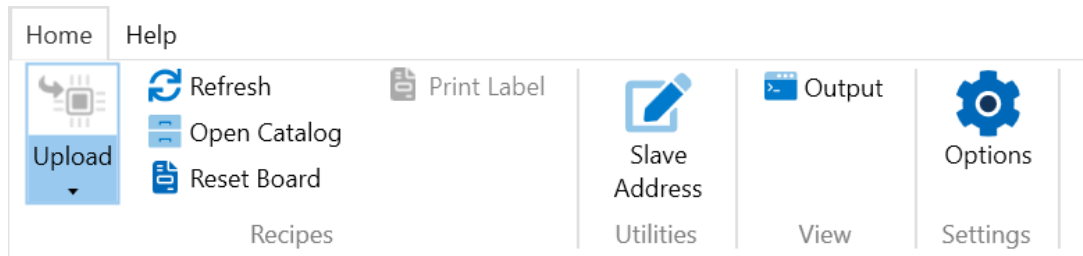


Figure 9: Toolbar - Home section for Digital Box

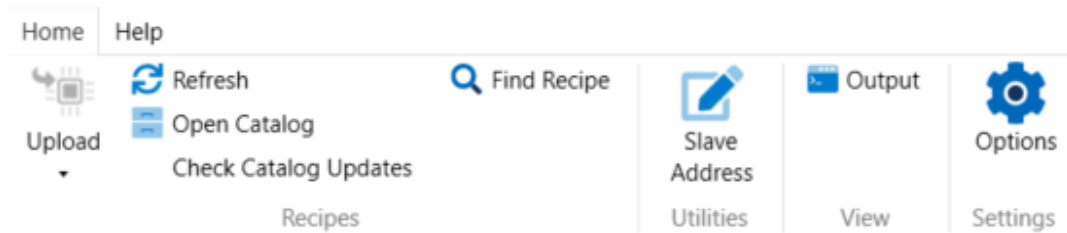


Figure 10: Toolbar - Home section for VFD

On the following table the “Home” section in the toolbar is explained.

Section	Icon	Item	Description
Recipes		Upload	Upload the selected recipe to the inverter
		Select file	Upload the selected recipe to the inverter selecting the .ini file from your computer
		Refresh	Button to refresh
		Open Catalog	Open the recipe Catalog folder where the recipes are stored
		Print Label	Print the label for the selected recipe
Utilities		Slave Address	Functionality to change the inverter/board address
View box		Output	Button to show/not show the Output window in the main interface
Settings box		Options	Open settings windows



INFORMATION

For Upload process refer to 9. *RECIPE DOWNLOAD PROCEDURE* paragraph.
 For Slave Address process refer to 10 *INVERTER/BOARD ADDRESSING PROCEDURE*

Options Menu

Menu	Item	Selection	Description
Environment	Theme	Auto (Default) Light Dark	Sets the theme for application. Auto setting refers to current Microsoft Windows theme
	Log Level	Trace Debug Info (Default) Warn Error Fatal Off	Sets the minimum log level For a complete level of information regarding the upload procedure, Debug setting is advised
	Check Updates At Startup	<input checked="" type="radio"/> On <input type="radio"/> Off	Check for updates application at Startup
	Download Beta Release	<input checked="" type="radio"/> On <input type="radio"/> Off	Check for updates in the beta release channel. These versions are unstable and you may encounter issues. Use at your own risk.
	Board Type	VFD Digital Box	Set the interface communication with the board and the recipe to choose for the download
Recipes	Catalog Folder		Local path to the catalog folder
	Show All Versions	<input checked="" type="radio"/> On <input type="radio"/> Off	Functionality to show all the version for each recipe in the catalog
VFD	Catalog Folder		Local path to the catalog folder
	Show All Versions	<input checked="" type="radio"/> On <input type="radio"/> Off	If enabled shows all recipe versions
	Exe Pat	C:\Program Files (x86)\Daikin PC Tools\VFD Nav\VFD Nav.exe	Path to the VFD Nav executable file
Digital Box	Catalog Folder		Local path to the catalog folder
	Slave	1	Slave Address This is the address of the VFD. Circuit 1 has address 1 Circuit 2 has address 2
	Com	Value Not Set	Com port name Select the laptop USB COM port number where connection cable is connected
	Baud Rate	1200 2400 4800 9600 19200 38400 57600 (Default) 115200	Baud Rate
	Data Bits	5 6 7 8 (Default)	Data Bits
	Parity	None (Default) Odd	Parity

		Even Mark Space	
	Stop Bits	None One (Default) Two OnePointFive	Stop Bits
	Time Out	1000	Read and write timeout expressed in ms

Help section

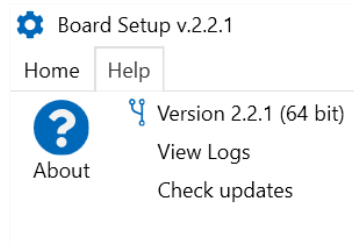




Figure 11: Toolbar - Help Section

Section	Icon	Item	Description
Help	 About	About	Info about the application
	 Version 2.2.1 (64 bit)	Version	Info about application version
	View Logs	Vie Logs	Button to open the folder that contains application logs
	Check updates	Check Updates	Button to look for application update (Internet connection is required)

B. Main interface

In this paragraph a description of the main interface is given

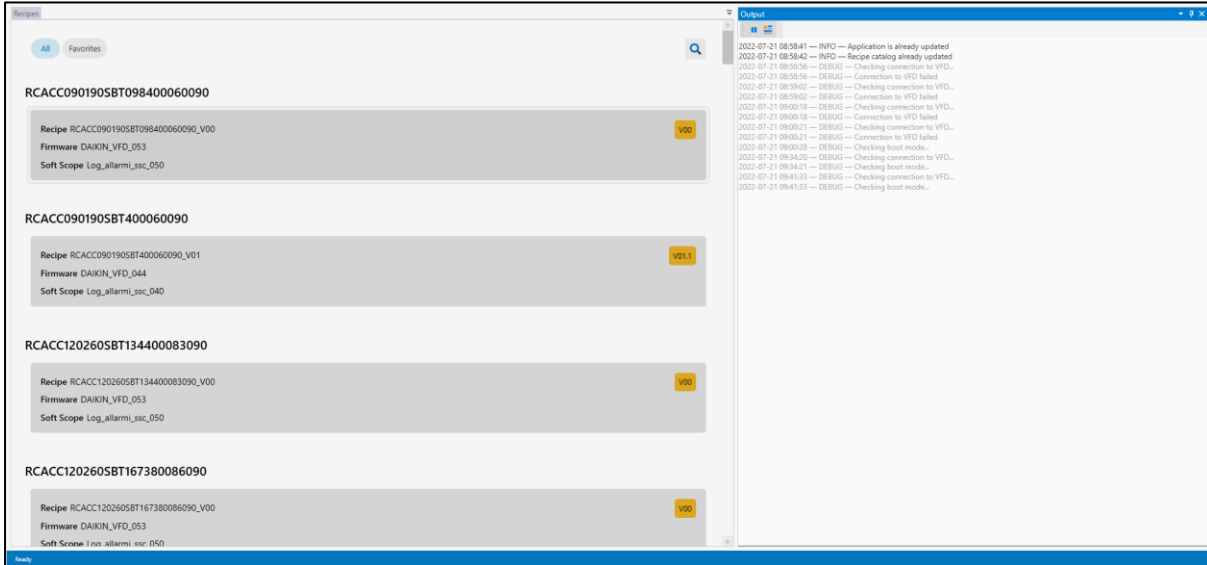


Figure 12: Main Interface

Main interface is composed by Recipes section and Output window

Recipes section

I. VFD

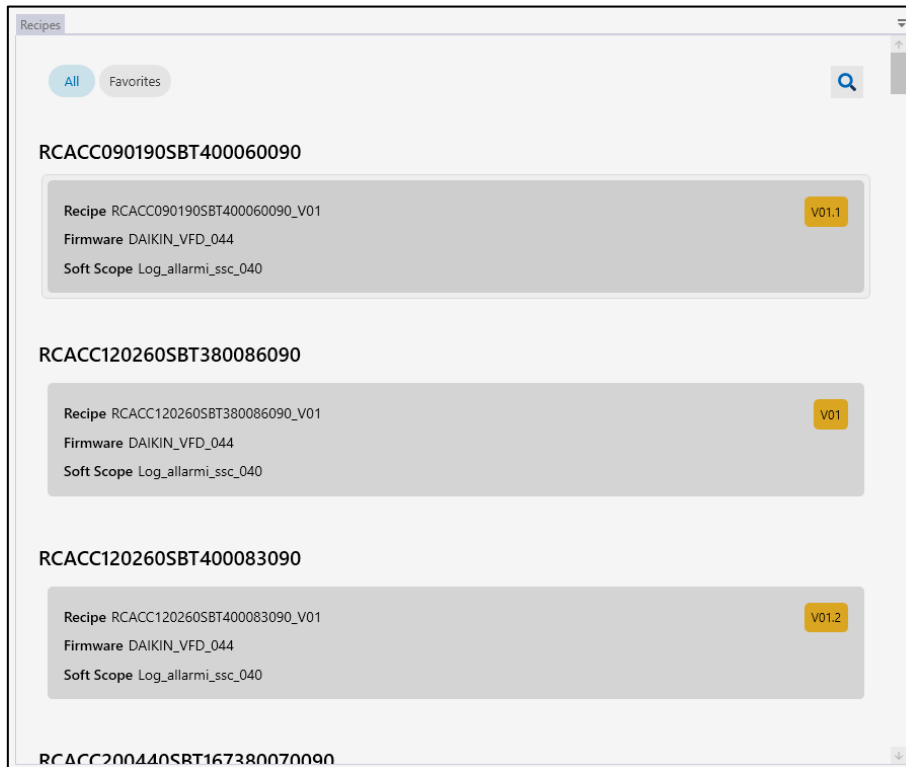


Figure 13: Recipes Section VFD

Recipe section contains the recipes files.

The application notifies the user if for a given recipe there is a more updated version remotely than the one locally available. The user then has the option of downloading the new version individually using the appropriate button.



Figure 14: new Recipe available

II. Digital Box

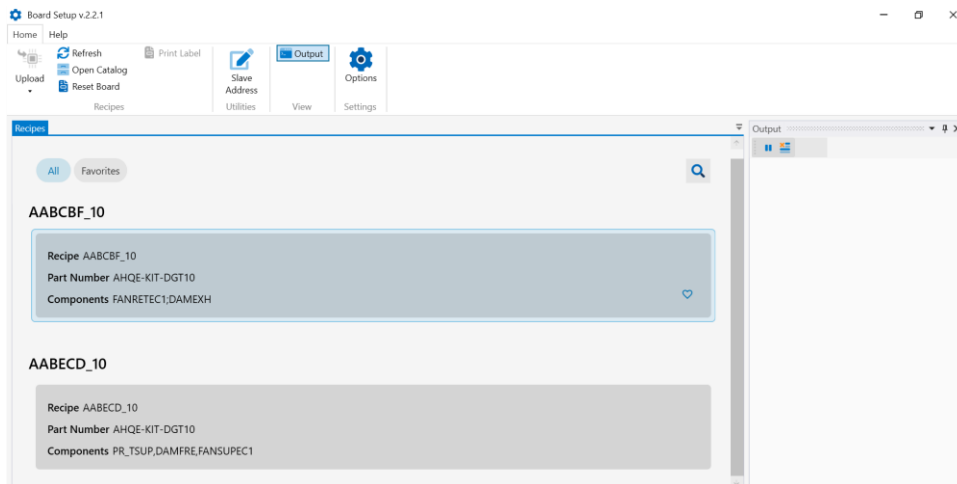


Figure 15: Recipes Section Digital Box

Recipe section contains the recipes files from the local catalog.

Output window

The output window is a debug window

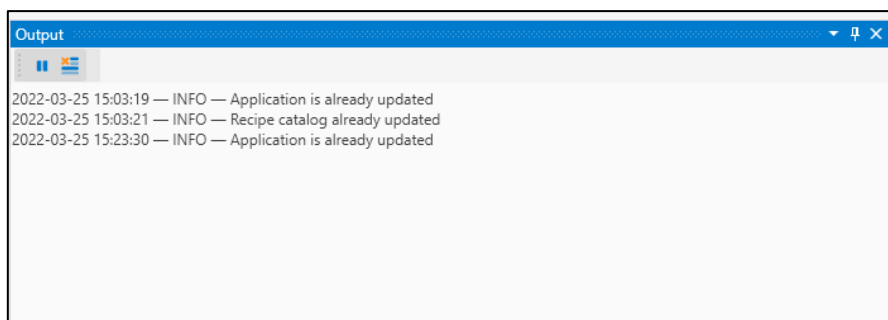


Figure 16: Output Window

Output window Toolbar

	Icon	Item	Selection	Description
Output		Selection position of the windowWindow Position	Float Dock Dock as Tabbed document Auto Hide Hide	Selection position of the window
		PinAuto Hide	n.a	Auto hide window function

		Close windowExit	n.a	Close the output window. Window can be opened again by "Output" button in Toolbar > Home > View > Output
--	--	------------------	-----	---

Status bar

The Status bar reports a feedback status on what the regulation board is doing.

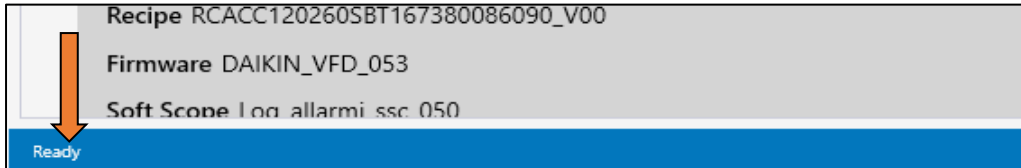


Figure 17: Status bar

6. TOOLS REQUIRED

Tools for VFD and LHF

- Software "BoardSetup"
- Laptop
- USB type C cable
- **PN 5902821: INVERTER VFD DAE TO PC CONNECTING KIT**
 - USB - RS485 Converter
 - Connecting cable RS485 Converter to VFD Regulation Card
 - USB-USB type B CABLE

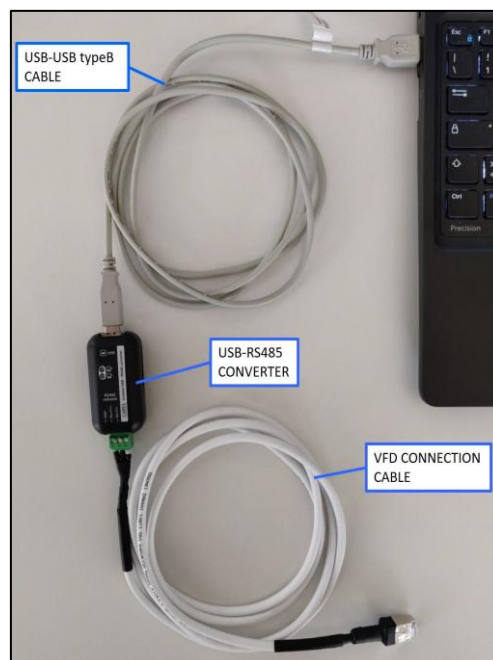


Figure 18: Tools Required for VFD

Tools for Digital Box

- Software “BoardSetup”
- Laptop
- Micro USB cable
- **PN 5601864** AHU DIGITAL PCB CONFIGURATION KIT
 - USB - RS485 Converter
 - Connecting cable RS485 Converter to Digital Box (connect green cable to GND, white cable to Rx+/Tx+, Brown cable to Rx-/Tx-)

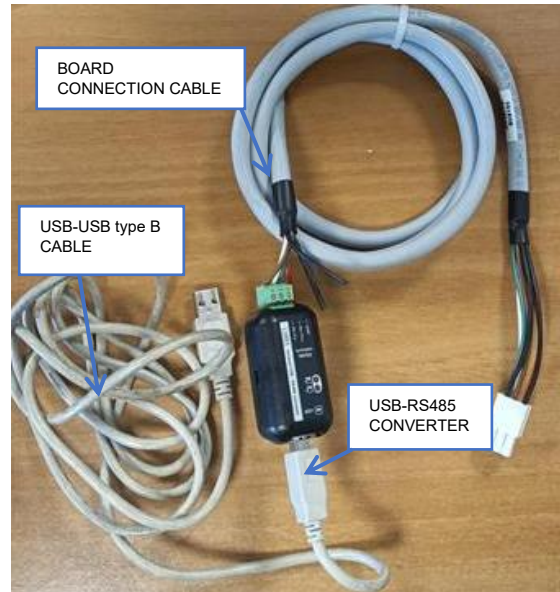


Figure 19: Tools Required for Digital Box

7. CONNECTION

A. VFD Connection

Before to start

The Regulation Card can be powered in two different ways:

- via Power Board (power supply to the entire unit)
- via +5V power supply provided via the USB-C connector; this may be the case for bench testing (for commissioning or troubleshooting) where the Regulation Card is not installed on the inverter



NOTICE

It's important that regulation board receive just one power supply. In the case regulation board is mounted on the VFD, it normally receives supply from power board; then verify that there is no residual voltage on DC-link before to supply regulation board by USB-C connector. Power supply both coming from power board and USB-C connector can damage the regulation board.

Supply from Power Board (Regulation card on-board)

This is a case where live monitoring of the inverter is required.

Connect the CONNECTING KIT **PN 5902821** to the laptop (USB connection) and to VFD (ethernet connection on CN 15):

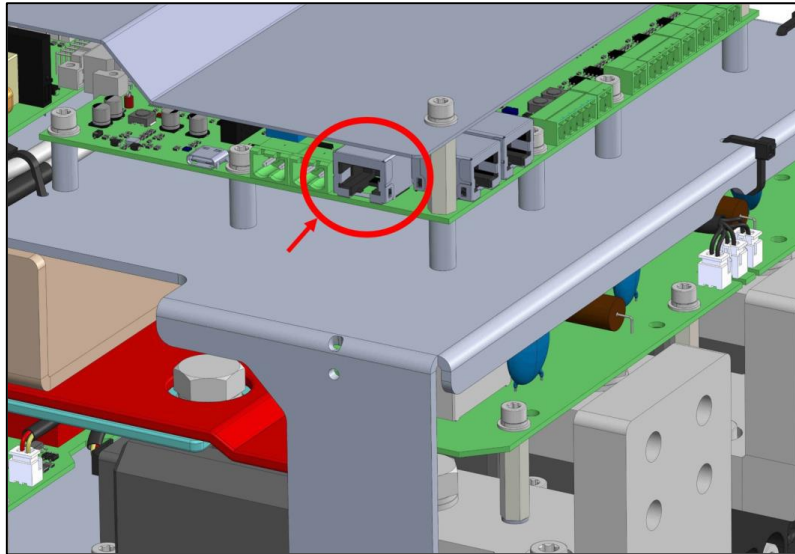


Figure 20: CN15 Connector on regulation board



DANGER: RISK OF ELECTROCUTION

In case procedure is performed with regulation board mounted on the VFD, before to access it:

- Wear safety glasses and gloves
- Disable the circuit involved by switch
- Main line fuses in series to the VFD must be disconnected
- Wait till the DC-link capacitor are discharged: wait almost 20 minutes (residual voltage must be under 5 V to be checked with multimeter)
- Once the cover has been opened, observe ESD precautions and wear protective gloves against electrostatic discharge during maintenance or assembly.



DANGER: RISK OF ELECTROCUTION

Even when the main circuit breaker or isolator is switched off, certain circuits may still be energised, since they may be connected to a separate power source.



DANGER: RISK OF BURNING

Electrical currents cause components to get hot either temporarily or permanently. Handle power cable, electrical cables and conduits, terminal box covers and motor frames with great care.



NOTICE

When updating the Regulation Card, it must not be connected to the PLC, to prevent it from modifying the parameters during the update process: THEREFORE, MAKE SURE TO DISCONNECT THE PLC DURING UPGRADE PROCEDURES.

Supply +5V from USB-C connector (Regulation card not on-board)

Regulation card must be supplied providing +5V with USB-C connector:

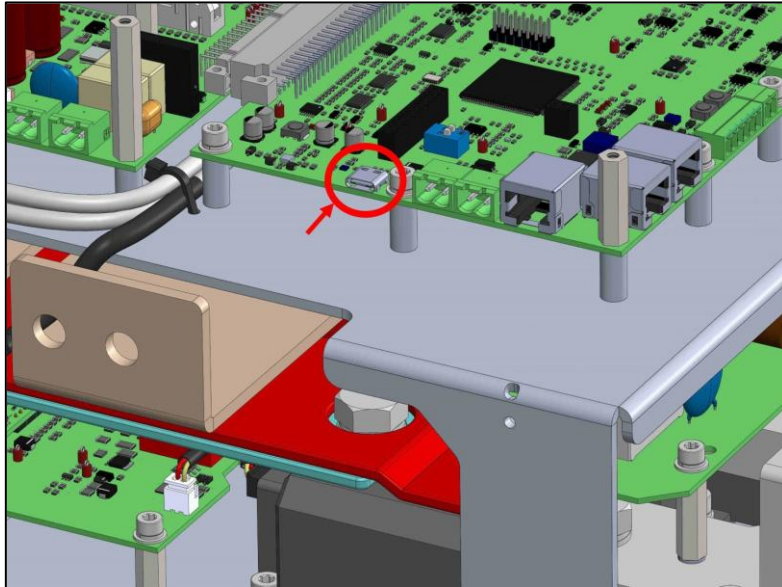


Figure 21: USB-C connector

This is the procedure to follow when you need to configure a regulation card before a replacement operation, or during training to demonstrate the practical aspects of the tasks to be carried out.



NOTICE

It is important that, during bench testing, the Regulation Card must be placed on a non-conductive material (to prevent short circuits) and not on plastic (due to the risk of electrostatic discharge).

Supply +5V from USB-C connector (Regulation card on-board)

This is the method recommended by Factory as it is the safest for commissioning or troubleshooting.

B. Digital Box Connection

- Connect the CONNECTING KIT **PN 5601864** to the laptop (USB connection) and to Digital Box (BUS-IN J13)
- Connect Micro USB to the laptop and to Digital Box



Figure 22: micro-USB and BUS-IN connector

8. RECIPE SELECTION

Recipe Selection for VFD

- a. Search correct recipe file to download on the regulation board

**INFORMATION**

Recipe is assigned on compressor motor style code and DAE VFD model. Check in this paragraph how to get the correct recipe

- b. Click on the "Search recipe" button



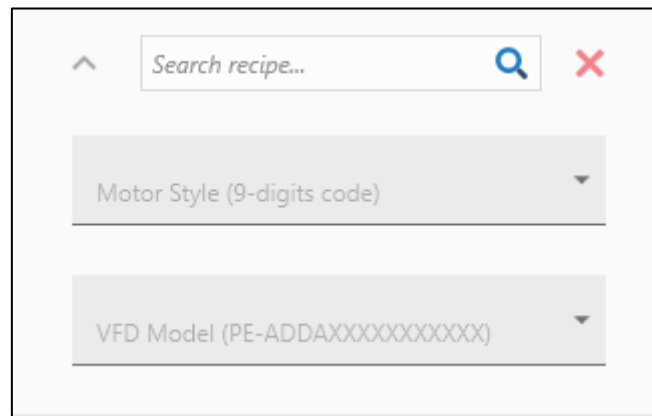
"Search recipe box" will appear



A search input field with a dropdown arrow on the left, a search icon on the right, and a red 'X' icon on the far right. The placeholder text is "Search recipe...".

- c. Click on the arrow of the "Search recipe" box

"Motor Style" and "VFD model" field will appear



The search box is expanded to show two dropdown menus. The first dropdown is labeled "Motor Style (9-digits code)" and the second is labeled "VFD Model (PE-ADDAXXXXXXXXXXX)".

Figure 23: Search recipe box expanded

- Motor style code can be found on the compressor nameplate in the box "Motor Style"

Model HSV3122TF20		Eng. Rev. 08
Style VRF312222E432309B		Serial C-162725
Moto Style 332109867	Month/Year 08/2016	
Volts 400	Phase 3	Hz 180
LRA =	Star / 230	Delta
RLA	Thermally Protected	
Ps 25.5	Pss 25.5	

Figure 24: Compressor nameplate

- VFD Model can be found on VFD label

		DAIKIN APPLIED EUROPE S.p.A. Power Electronics Division Via Giuseppe Ferrari, 31/37 36100 Vicenza - Italia	Made in ITALY
PE-ADDA330A0000C0C		INVERTER 330 kW	INVERTER 31 kg
S/N PEV-D000123			CAP. BANK 15 kg
			TOTAL 46 kg
VFD330X43BFCD-P	S/W: f0.20-a1.04-b2	IP00	
VIN: 3x(380-415)V ±10%, 50/60Hz IIN: 575A IOUT: 600A			
VIN: 3x(415-480)V ±10%, 50/60Hz IIN: (575-480)A IOUT: (600-500)A			

Figure 25: VFD Nameplate

To access the VFD, unit must be switched off and VFD must not be supplied

DANGER: RISK OF ELECTROCUTION

It's strongly recommended to perform the procedure before to install the regulation board on the VFD
In case procedure is performed with regulation board mounted on the VFD, before to access it:

- Wear safety glasses and gloves
- Disable the circuit involved by switch
- Main line fuses in series to the VFD must be disconnected
- Wait till the DC-link capacitor are discharged: wait almost 20 minutes (residual voltage must be under 5 V)
- Once the cover has been opened, observe ESD precautions and wear protective gloves against electrostatic discharge during maintenance or assembly.

DANGER: RISK OF ELECTROCUTION

Even when the main circuit breaker or isolator is switched off, certain circuits may still be energised, since they may be connected to a separate power source.

DANGER: RISK OF BURNING

Electrical currents cause components to get hot either temporarily or permanently. Handle power cable, electrical cables and conduits, terminal box covers and motor frames with great care.



DANGER: RISK OF ARC FLASH

A substantial amount of energy can be stored in the capacitor bank even if its voltage is below 60 V. Do not short-circuit the DC-Link unless the capacitor bank is completely discharged. Before commencing any mechanical work on the inverter, discharge completely the DC-Link by means of a suitable external device or allow enough time for the DC-Link to be completely discharged (< 5 V).



WARNING

Once the cover has been opened, observe ESD precautions and wear protective gloves against electrostatic discharge during maintenance or assembly



Figure 26: ESD precautions

Recipe Selection for LHF

- a. Search correct recipe file to download on the LHF
- b. Click on the “Search recipe” button



“Search recipe box” will appear

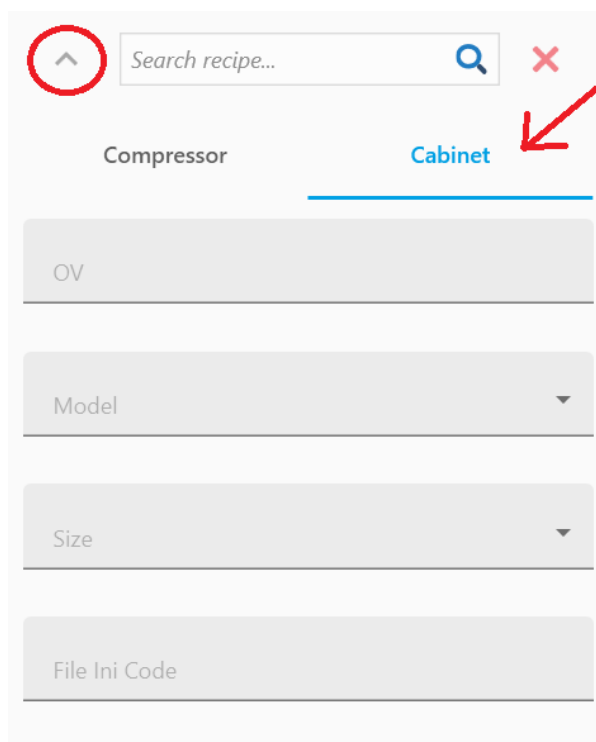


Figure 27: Search recipe box

c. Click on the arrow of the “Search recipe” box

“Model” and “Size” field will appear

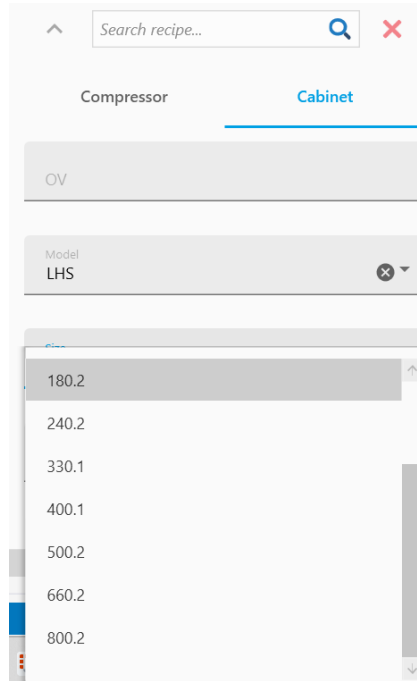


Figure 28: Search recipe box expanded

- Panel model can be found on the LHF nameplate

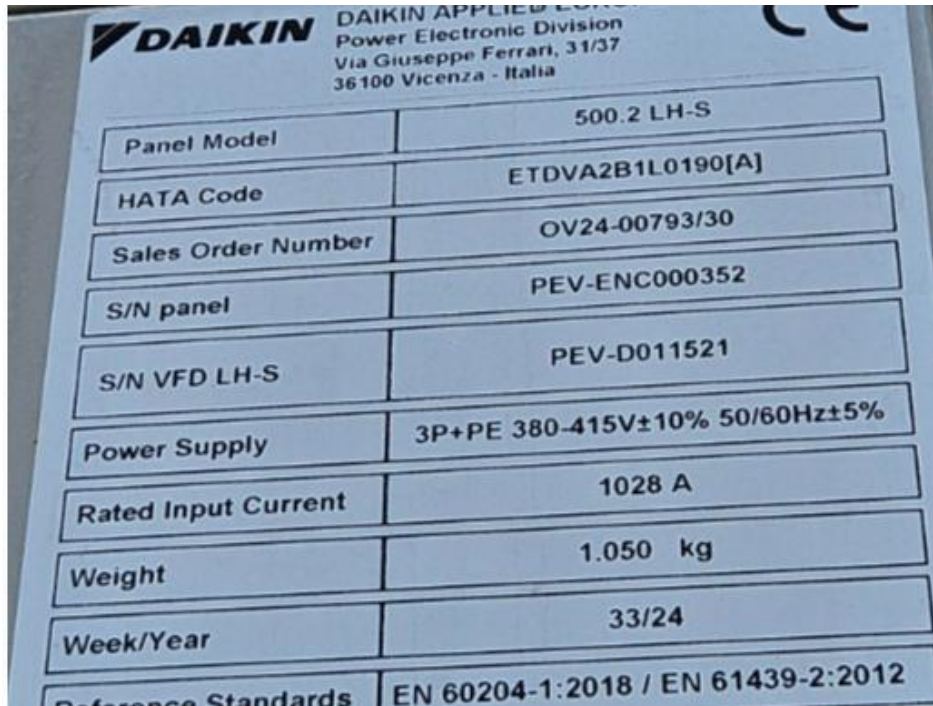


Figure 29: LHF nameplate

Recipe Selection for Digital Box

- a. Search on the label the correct recipe file to upload on the board

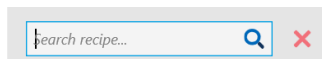


Figure 12: Digital Box nameplate

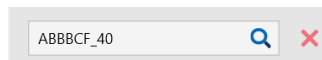
- b. Click on the “Search recipe” button



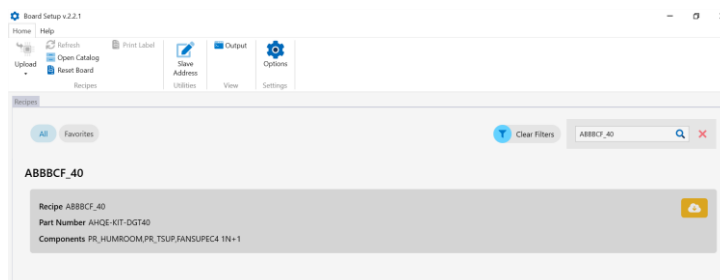
“Search recipe” box will appear



- c. Insert the recipe name and click the “Search recipe” button again



The recipe will appear



- d. If the “Download” button is visible, download the receipt (refer to paragraph 9. RECIPE DOWNLOAD). Otherwise, it means that the recipe is already present in the local catalog and that is already possible to upload the recipe on the board.

9. RECIPE DOWNLOAD

C. FROM CATALOGUE

Recipe download for VFD – from catalogue

**NOTICE**

Recipe contains the parameter address equal to “1” as default
In case the VFD involved is on circuit “2”, inverter address must be correctly addressed to “2” after the upload procedure process when the regulation board is installed on the VFD through the Addressing controller function.

- Open “Board Setup” software
- Insert Service Password: **Daikin@2021**



Figure 31: Insert password window

If it is the first time the application is started, a popup window will appear to choose the display type based on the board type. The settings can be changed at any time in the options (refer to paragraph 5 HMI DESCRIPTION – Home section)

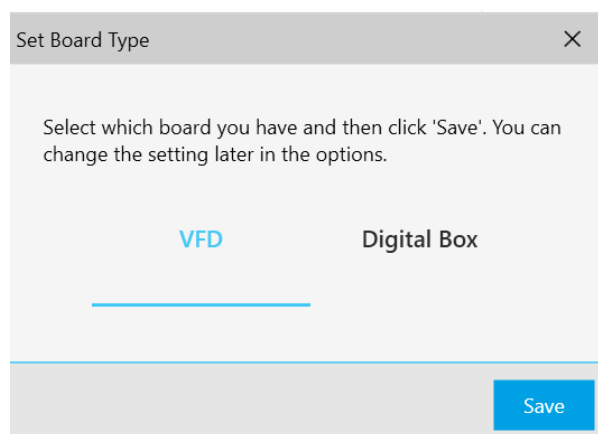
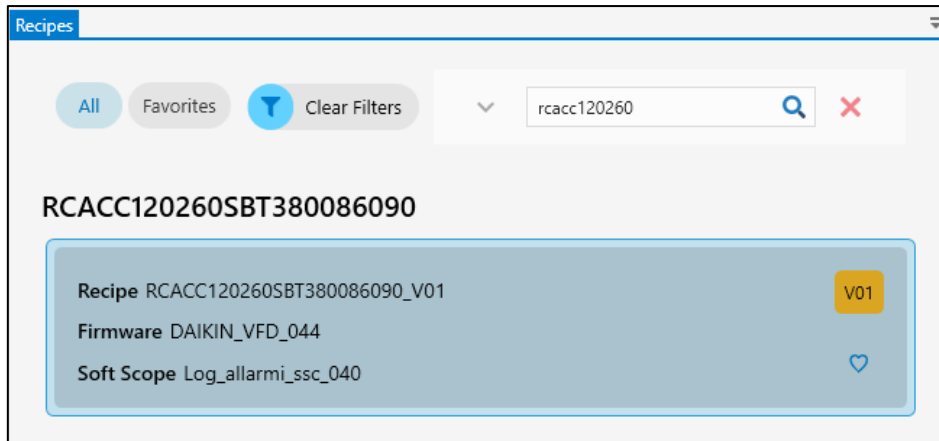


Figure 32: Choose board type

- a. Connect the regulation board to the laptop (refer to paragraph 7. CONNECTION)
- b. Search the correct receipt (refer to paragraph 8. RECIPE SELECTION)
- c. Click on the recipe in the list showed in the “Recipes” section

The Recipe selected becomes blue lighted



- d. Click on "Upload" button to download the recipe in the regulation board



- e. Following message will be displayed, press on "Ok" button

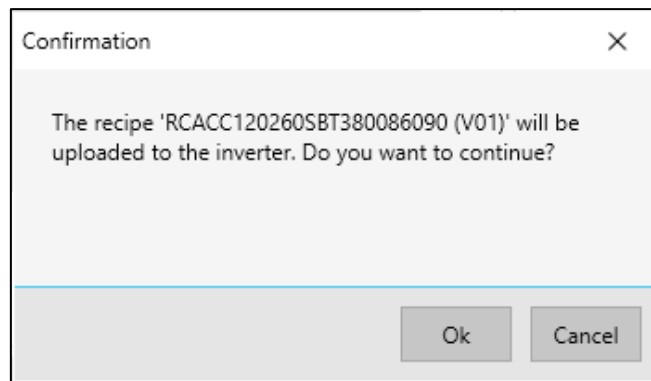


Figure 33: Confirmation pop-up window

- f. In case following message is displayed, press "Ok" to continue

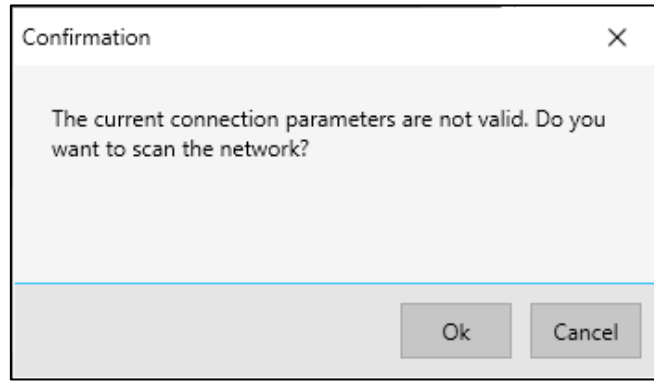


Figure 34: Confirmation pop-up window

“Scan connections” settings will be displayed

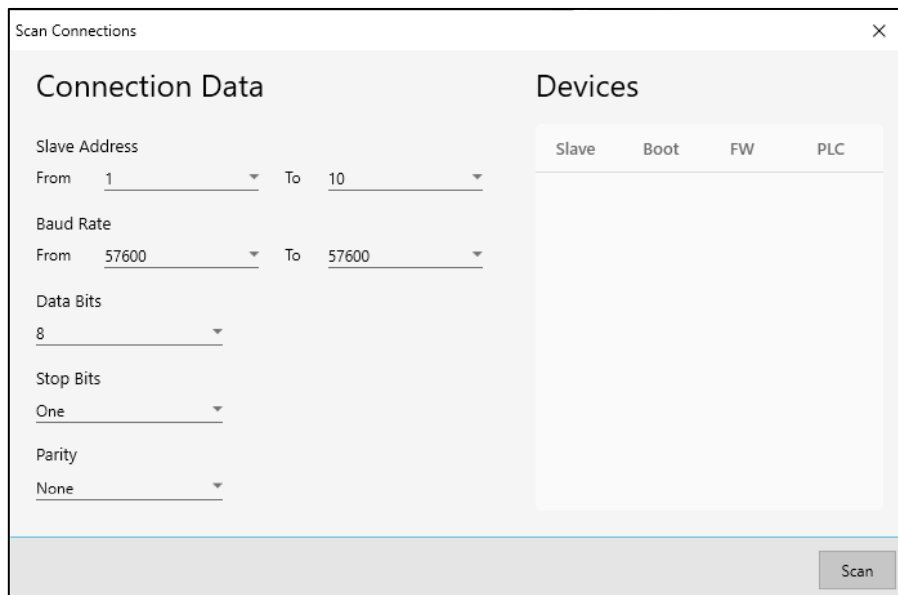


Figure 35: Scan Connections Window

- g. Press the scan button to find the regulation board. The device will be found in the “Devices” section.



INFORMATION

In case Scan button pressing has no effect, it means that there is no communication with the regulation board. Verify cable connection and regulation board supply to continue

- h. When scan process is completed, double click on the raw of “Devices” section to start the downloading process

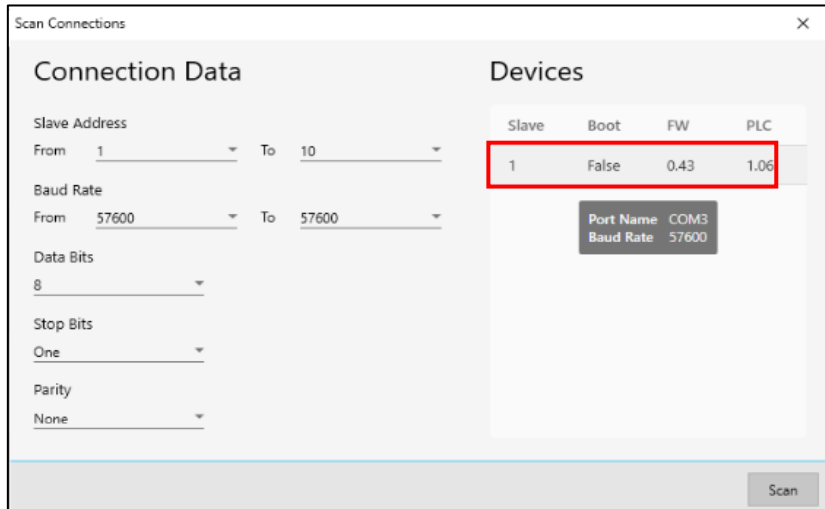


Figure 36: Scan process ended



INFORMATION

If a firmware update is available, the program will download latest firmware version as well

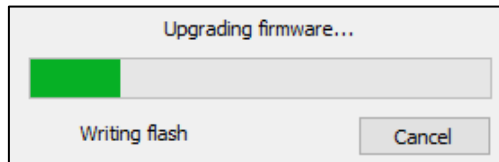


Figure 37: Upgrading firmware pop-up window

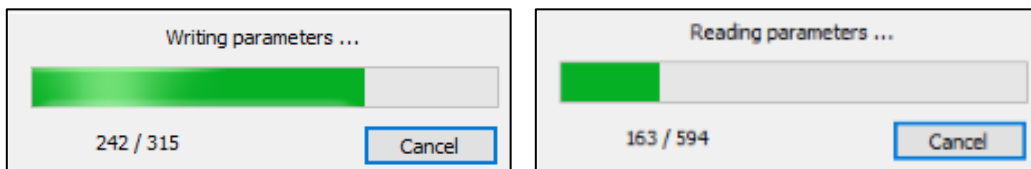


Figure 38: Writing parameters and reading parameters process

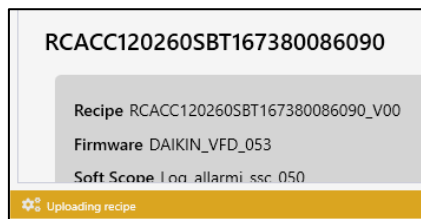


Figure 39: Status bar "uploading recipe"

- i. Feedback can be checked in:
 - a. the output window
 - b. a pop-up window appears from the bottom

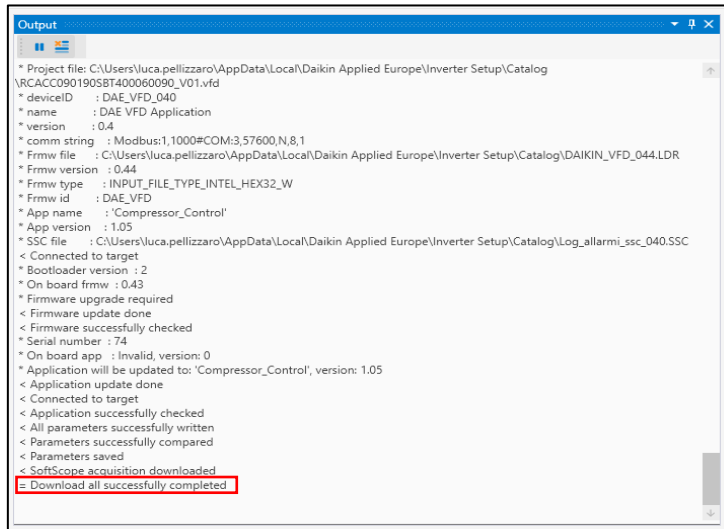


Figure 40: Procedure feedback in Output window

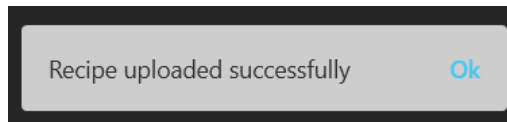


Figure 41: Recipe download feedback pop-up window



INFORMATION

In case procedure fails, refer to paragraph 12. *TROUBLESHOOTING*

- j. Procedure is completed

Recipe download for Low Harmonic Filter (LHF) – from catalogue

- Open “Board Setup” software
- Insert Service Password: **Daikin@2021**



Figure 42: Insert password window

If it is the first time the application is started, a popup window will appear to choose the display type based on the board type. The settings can be changed at any time in the options (refer to paragraph 5 HMI DESCRIPTION – Home section)

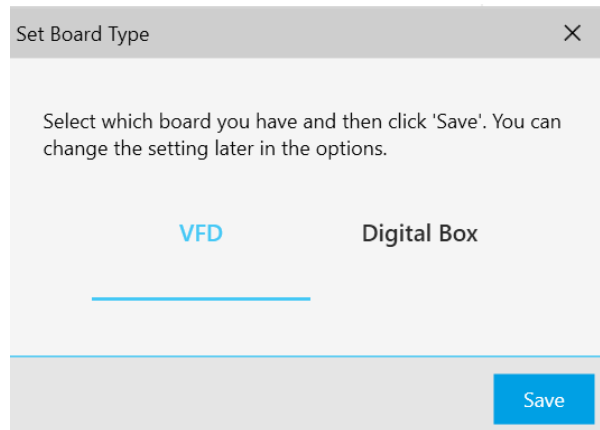


Figure 43: Choose board type

- k. Connect the LHF to the laptop (refer to paragraph 7. CONNECTION)
- l. Search the correct recipe (refer to paragraph 8. RECIPE SELECTION)
- m. Click on the recipe in the list showed in the “Recipes” section
The Recipe selected becomes blue lighted



- n. Click on “Upload” button to download the recipe in the regulation board



- o. Following message will be displayed, press on “Ok” button

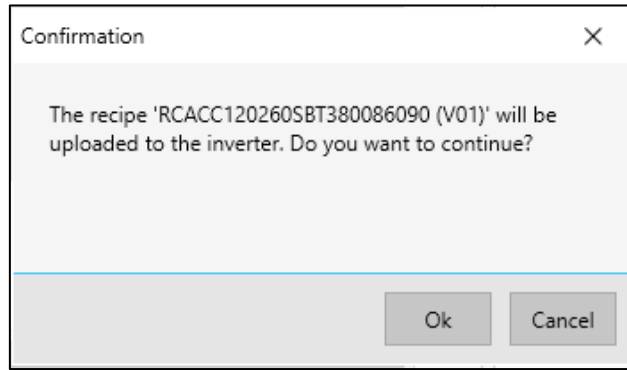


Figure 44: Confirmation pop-up window

- p. In case following message is displayed, press "Ok" to continue

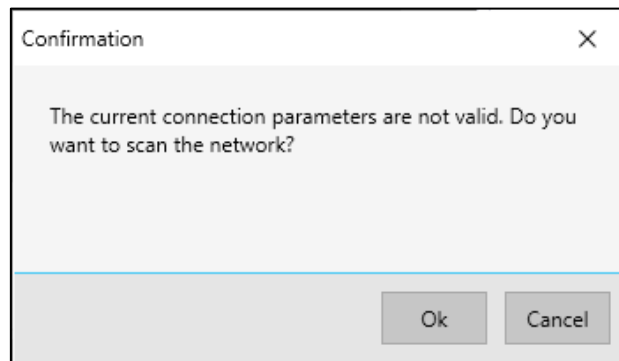


Figure 45: Confirmation pop-up window

"Scan connections" settings will be displayed

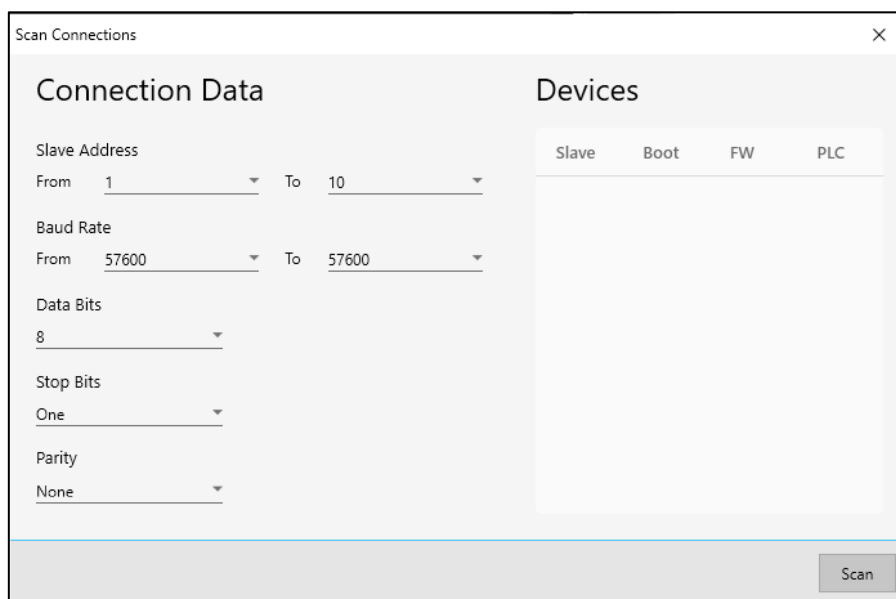


Figure 46: Scan Connections Window

- q. Press the scan button to find the regulation board.
The device will be found in the “Devices” section.



INFORMATION

In case Scan button pressing has no effect, it means that there is no communication with the regulation board. Verify cable connection and regulation board supply to continue

- r. When scan process is completed, double click on the raw of “Devices” section to start the downloading process

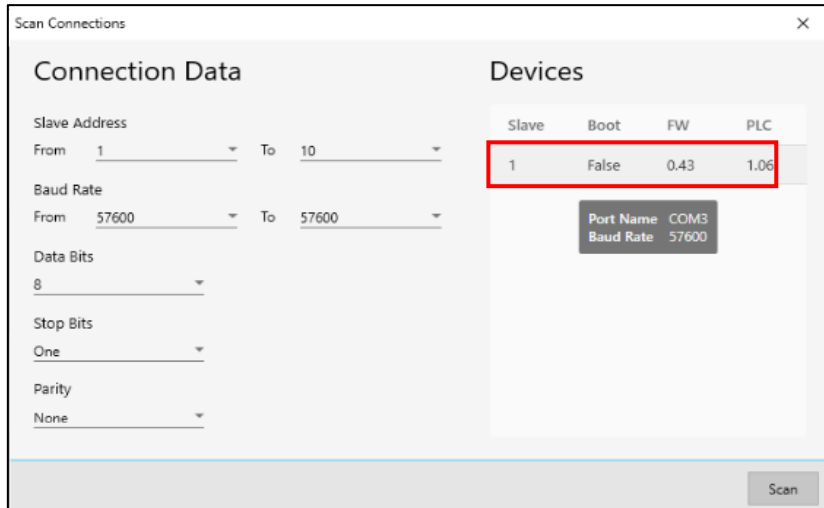


Figure 47: Scan process ended

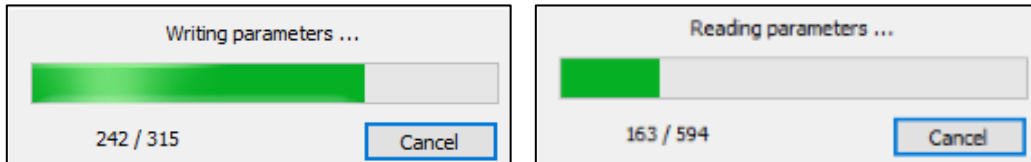


Figure 48: Writing parameters and reading parameters process

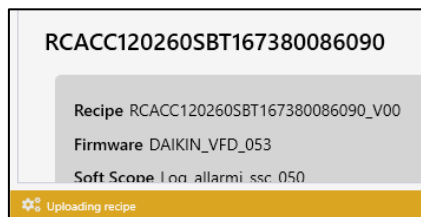


Figure 49: Status bar “uploading recipe”

- s. Feedback can be checked in:
 - a. the output window
 - b. a pop-up window appears from the bottom

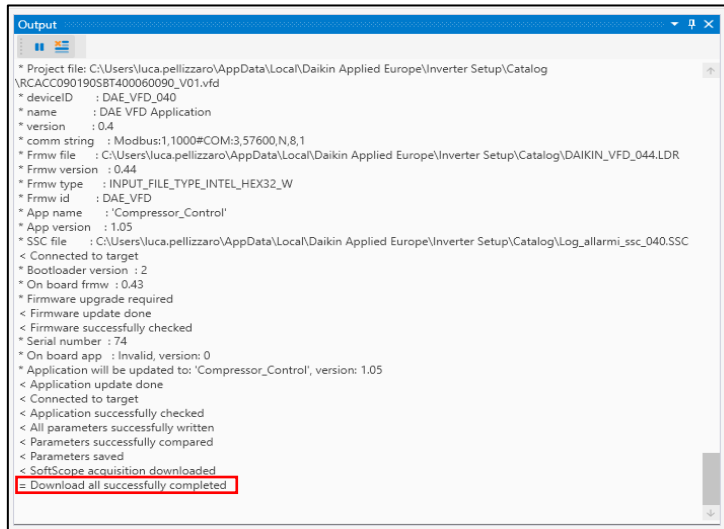


Figure 50: Procedure feedback in Output window

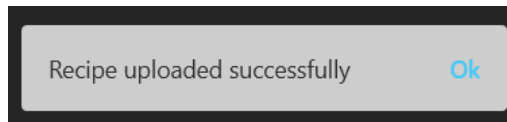


Figure 51: Recipe download feedback pop-up window



INFORMATION

In case procedure fails, refer to paragraph 12. *TROUBLESHOOTING*

- t. Procedure is completed

Recipe download for Digital Box – from catalogue

- a. Open “Board Setup” software
- b. Insert Service Password: **Daikin@2021**



Figure 52: Insert password window

If it is the first time the application is started, a popup window will appear to choose the display type based on the board type. The settings can be changed at any time in the options (refer to paragraph 5 HMI DESCRIPTION – Home section)

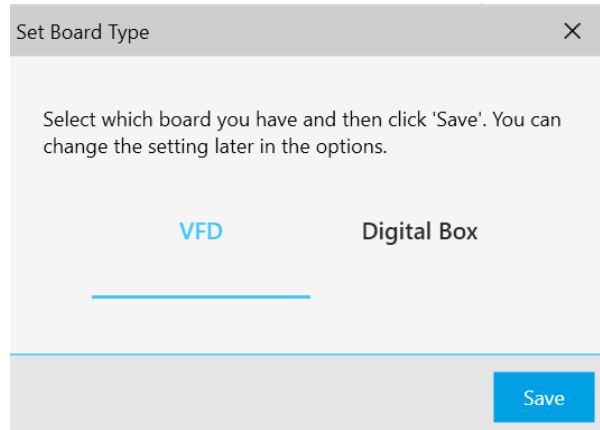


Figure 53: Choose board type

- c. Search the correct receipt (refer to paragraph 8. RECIPE SELECTION)

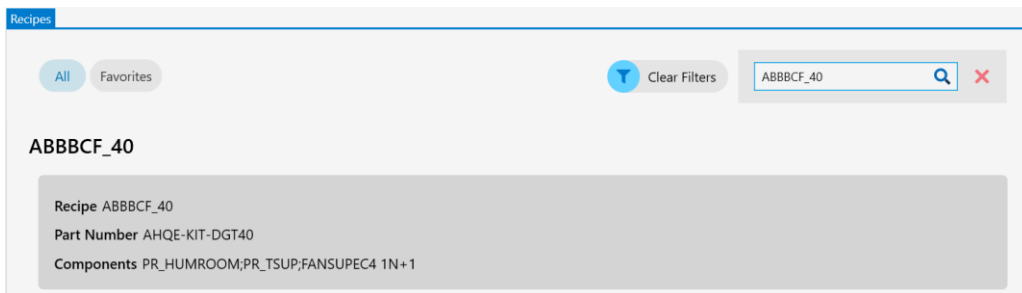


Figure 54: Receipt Selected in "Recipes" section

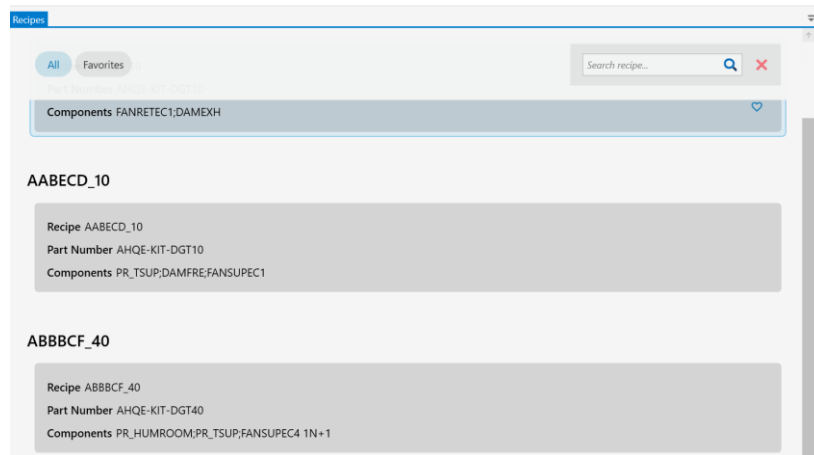
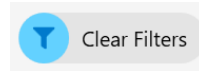
- d. Click on the "Download" button



The recipe will be downloaded in the local catalogue and the "Download" button will disappear.



- e. Click on the "Clear Filter" button to see the entire list of recipes



- f. Connect the regulation board to the laptop (refer to paragraph 7. CONNECTION)
- g. Search the correct receipt (refer to paragraph 8. RECIPE SELECTION)
- h. Click on the recipe in the list showed in the “Recipes” section

The Recipe selected becomes blue lighted

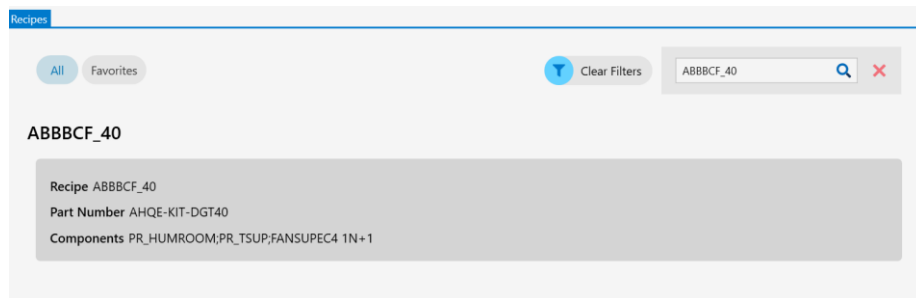


Figure 55: Receipt Selected in "Recipes" section

- i. Click on “Upload” button to upload the recipe in the board



Upload

- j. Following message will be displayed. Insert the correct node number and press “Save” button

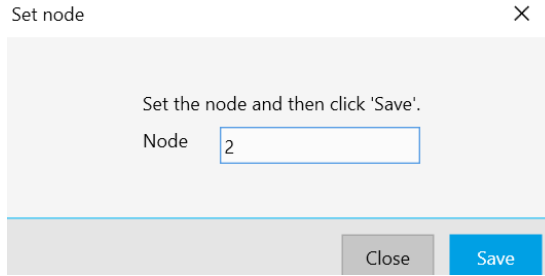


Figure 56: Set node pop-up window

Search on the label the correct node to set



k. Following message will be displayed, press on “Ok” button

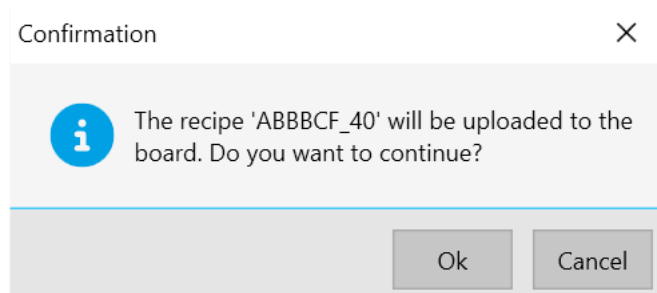


Figure 57 Confirmation pop-up window

l. In case following message is displayed, press “Ok” to continue

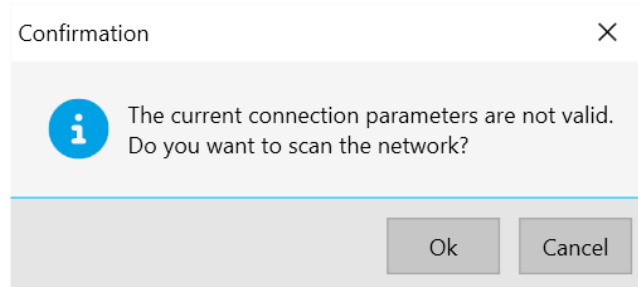


Figure 58: Confirmation pop-up window

“Scan connections” settings will be displayed

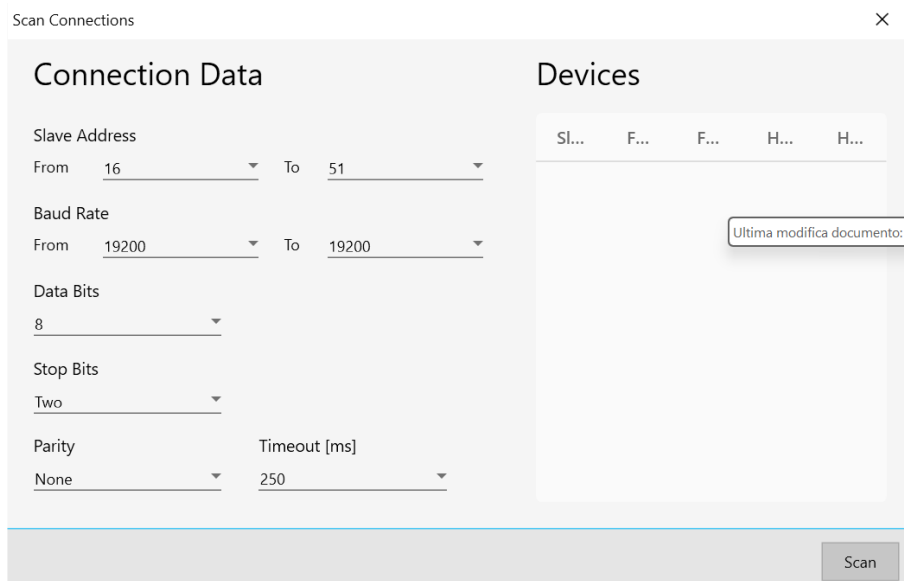


Figure 13: Connections Window

- m. Press the scan button to find the regulation board. The device will be found in the “Devices” section.



INFORMATION

In case Scan button pressing has no effect, it means that there is no communication with the regulation board. Verify cable connection and regulation board supply to continue

- n. When scan process is completed, double click on the raw of “Devices” section with slave 51 to start the uploading process

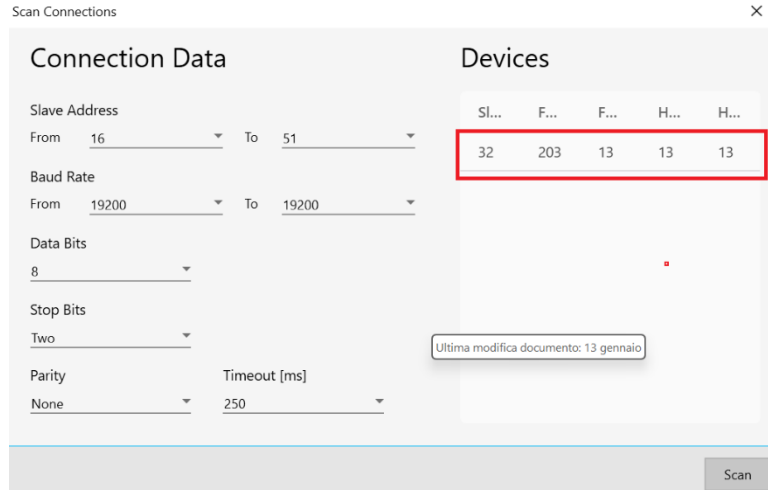


Figure 60: Scan process ended

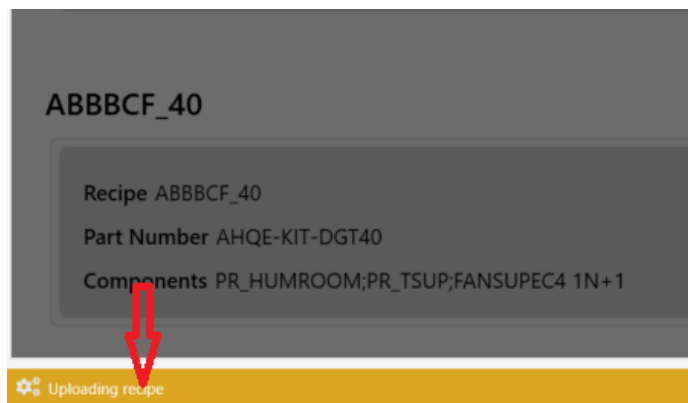


Figure 61: Status bar "uploading recipe"

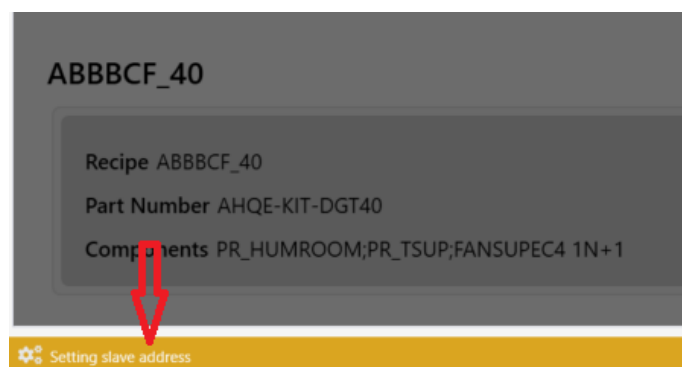


Figure 62: Status bar "Setting slave address"

- o. Feedback can be checked in:
 - a. the output window
 - b. a pop-up window appears from the bottom

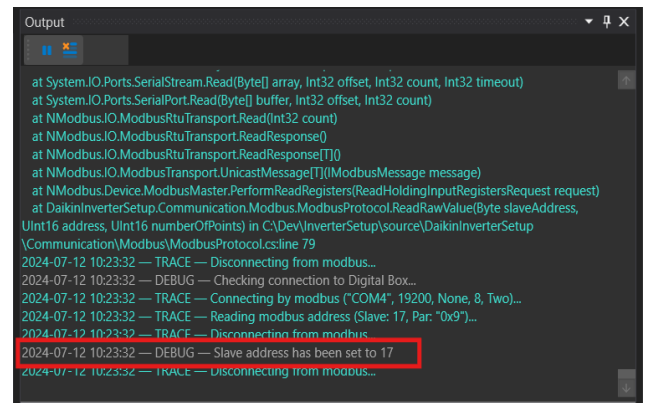
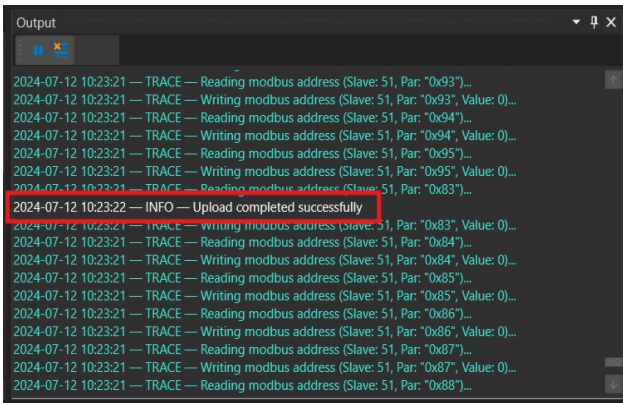


Figure 63: Procedure feedback in Output window

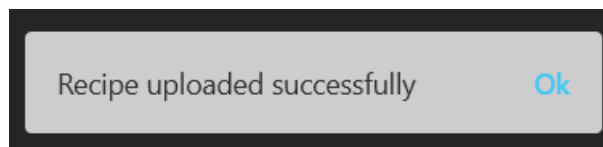


Figure 64: Recipe download feedback pop-up window



INFORMATION

In case procedure fails, refer to paragraph 12. **TROUBLESHOOTING**

- p. Procedure is completed

D. FROM LOCAL FILE

Recipe download for VFD – local file



NOTICE

Recipe contains the parameter address equal to “1” as default
 In case the VFD involved is on circuit “2”, inverter address must be correctly addressed to “2” after the upload procedure process when the regulation board is installed on the VFD through the Addressing controller function.



NOTICE

The following procedure is for exceptional cases only, the installation of a recipe not included in the catalogue must only be carried out with the factory support

- Open “Board Setup” software
- Insert Service Password: Daikin@2021

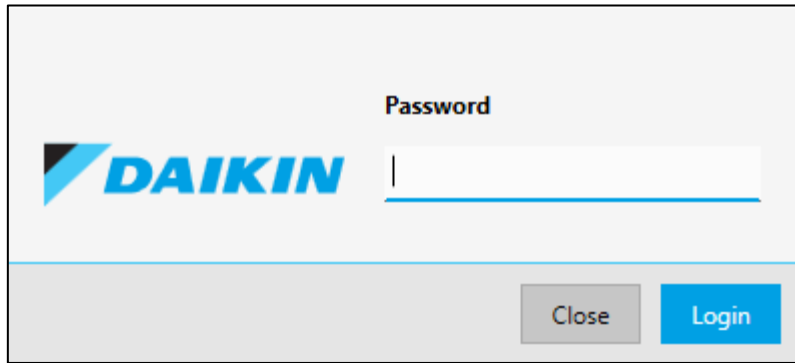


Figure 65: Insert password window

- a. Connect the regulation board to the laptop (refer to paragraph 7. CONNECTION)
- b. Click on "Open Catalog". "Catalog" folder will automatically open
- c. Paste the recipe files (.vfd + .ini files) in the Catalog folder

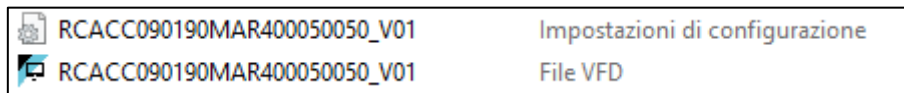
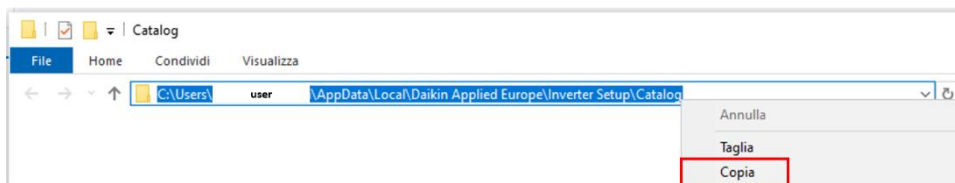


Figura 66: VFD + ini files

- d. Right click on folder path and copy it



- e. Click on the Upload Button (in the top-left side of the software window) and then on Select file.

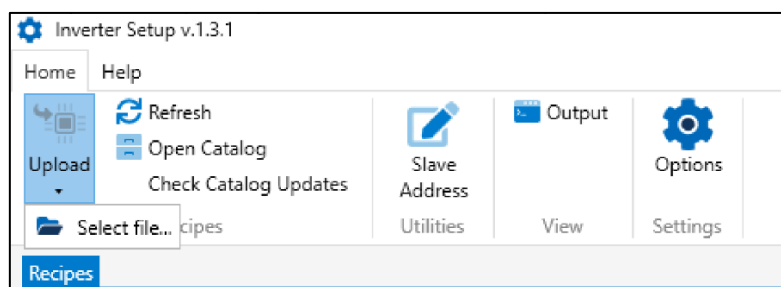
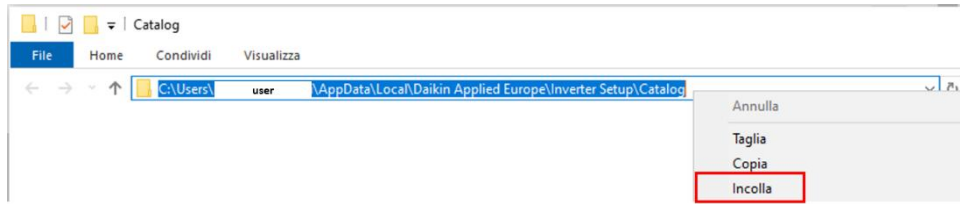
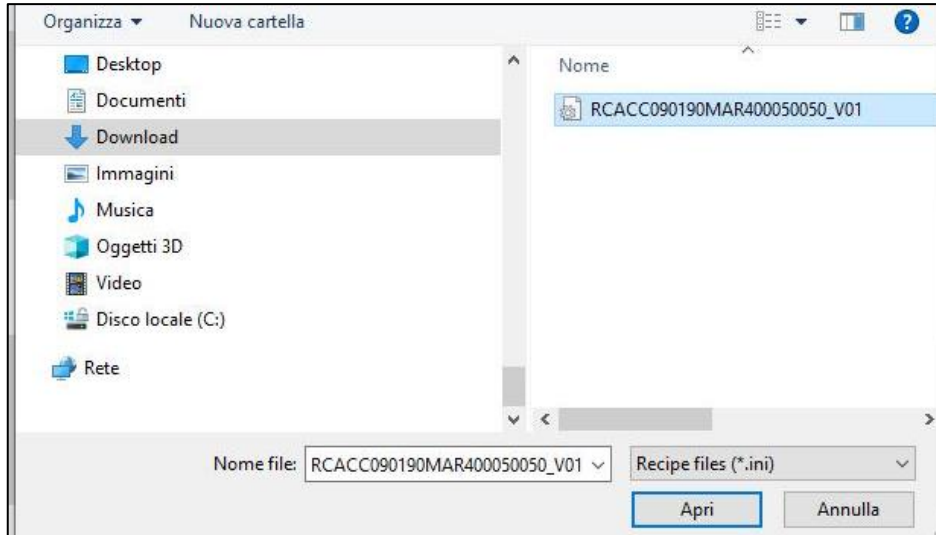


Figure 67: Upload recipe window

- f. Paste the folder path previously copied in step d:



g. Select the recipe file and click on “Open”



h. Following message will be displayed, press on “Ok” button

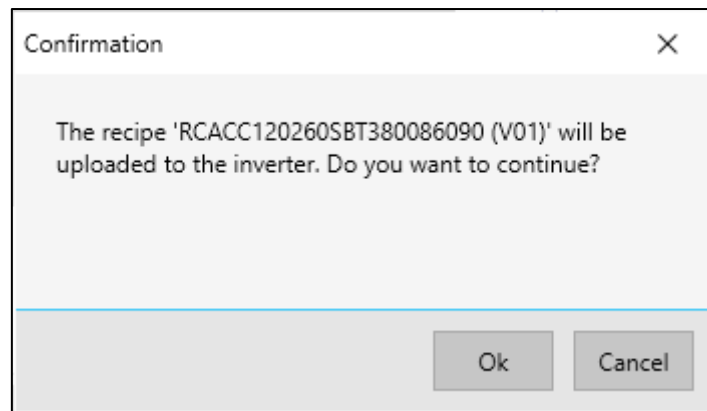


Figure 68: Confirmation pop-up window

i. In case following message is displayed, press “Ok” to continue

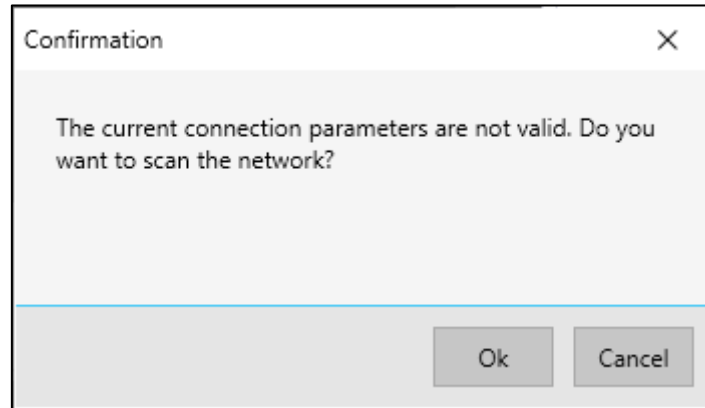


Figure 69: Confirmation pop-up window

"Scan connections" settings will be displayed

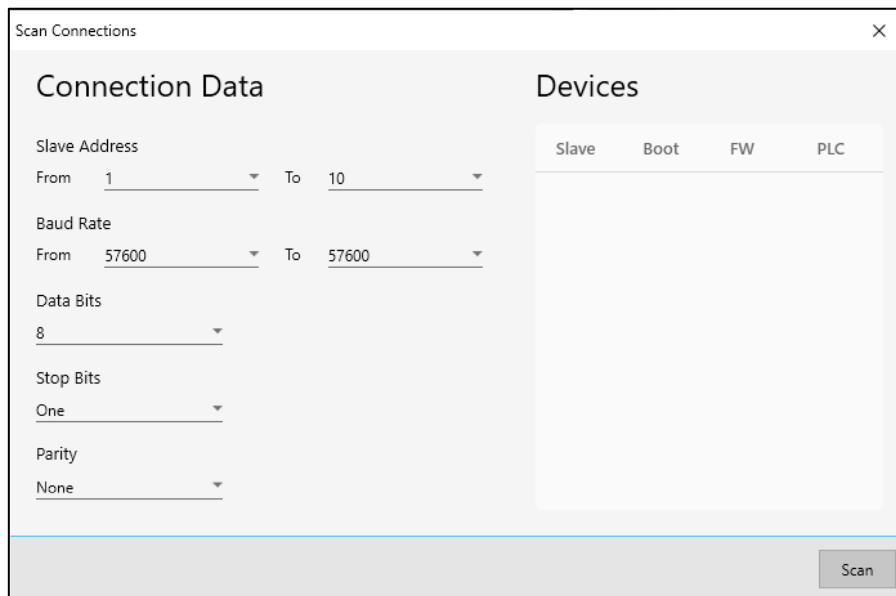


Figure 70: Scan Connections Window

- j. Press the scan button to find the regulation board.
The device will be found in the "Devices" section.



INFORMATION

In case Scan button pressing has no effect, it means that there is no communication with the regulation board. Verify cable connection and regulation board supply to continue

- k. When scan process is completed, double click on the raw of "Devices" section to start the downloading process

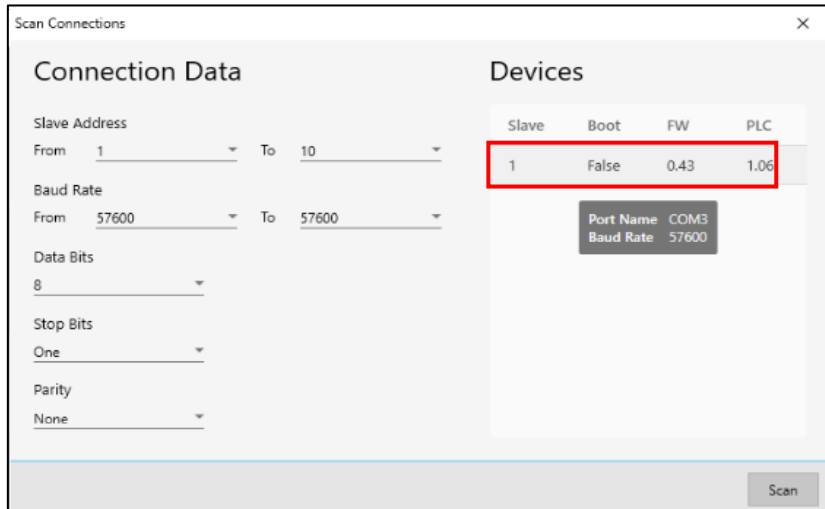


Figure 71: Scan process ended



INFORMATION

If a firmware update is available, the program will download latest firmware version as well

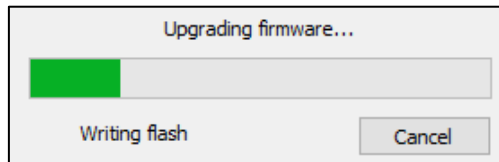


Figure 72: Upgrading firmware pop-up window



Figure 73: Writing parameters and reading parameters process

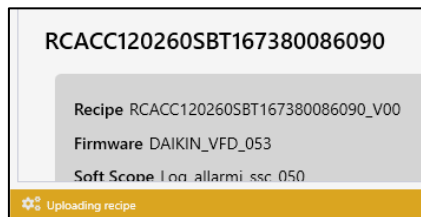


Figure 93: Status bar "uploading recipe"

- I. Feedback can be checked in:
 - a. the output window
 - b. a pop-up window appears from the bottom

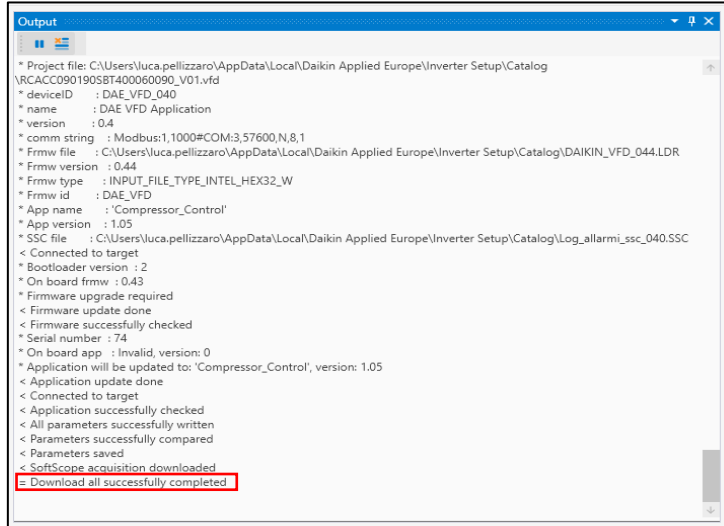


Figure 74: Procedure feedback in Output window

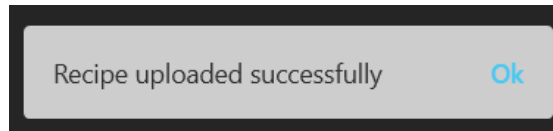


Figure 75: Recipe download feedback pop-up window



INFORMATION

In case procedure fails, refer to paragraph 12. *TROUBLESHOOTING*

m. Procedure is completed

Recipe download for Low Harmonic Filter (LHF) – local file

- Open “Board Setup” software
- Insert Service Password: Daikin@2021

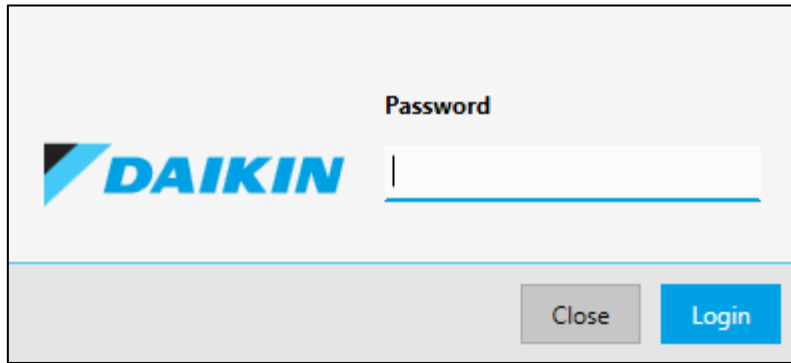


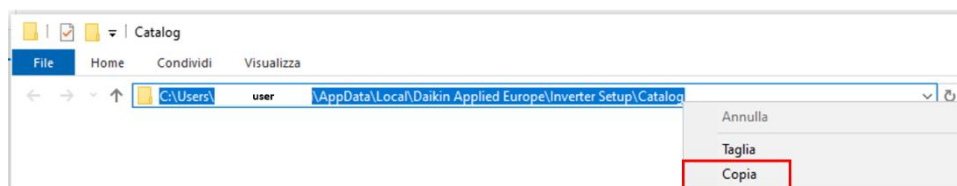
Figure 76: Insert password window

- n. Connect the regulation board to the laptop (refer to paragraph 7. CONNECTION)
- o. Click on “Open Catalog”. “Catalog” folder will automatically open
- p. Paste the recipe files (.vfd + .ini files) in the Catalog folder

DAIKIN_SAF_1031.LDR	19/07/2024 16:46	File LDR	315 KB
DAIKIN_SAF_1032.LDR	19/07/2024 16:46	File LDR	315 KB
DAIKIN_SAF_1033.LDR	17/12/2024 15:13	File LDR	323 KB

Figura 77: example of files

- q. Right click on folder path and copy it



- r. Click on the Upload Button (in the top-left side of the software window) and then on Select file.

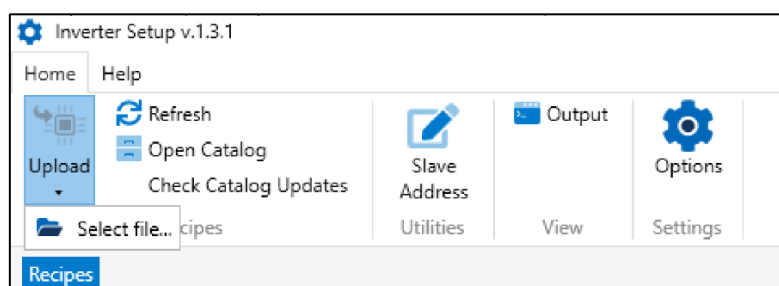
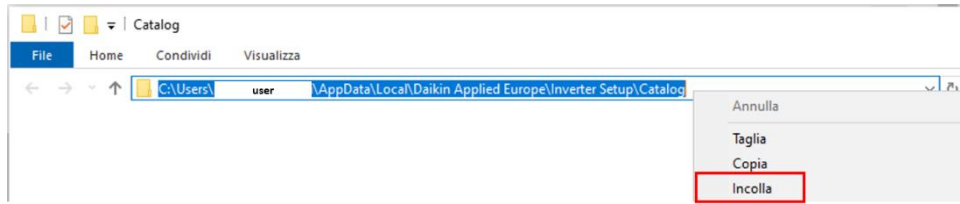


Figure 78: Upload recipe window

- s. Paste the folder path previously copied in step d:



t. Select the recipe file and click on “Open”



u. Following message will be displayed, press on “Ok” button

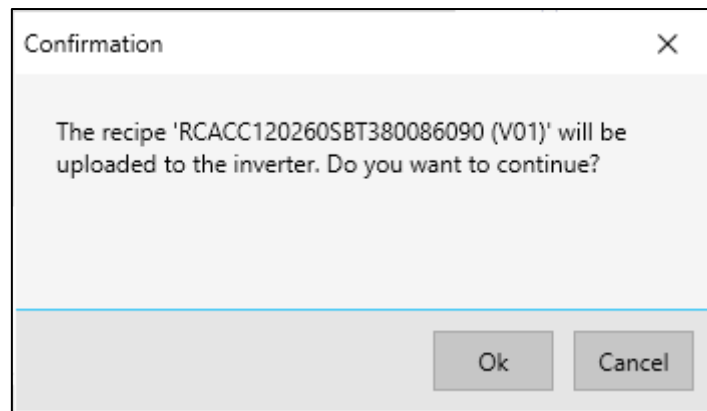


Figure 79: Confirmation pop-up window

v. In case following message is displayed, press “Ok” to continue

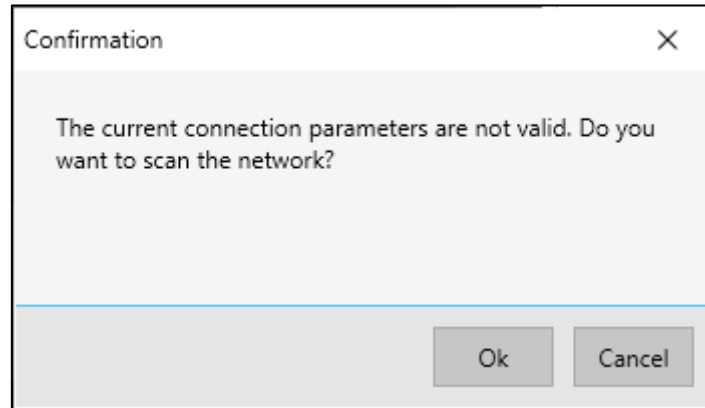


Figure 80: Confirmation pop-up window

“Scan connections” settings will be displayed

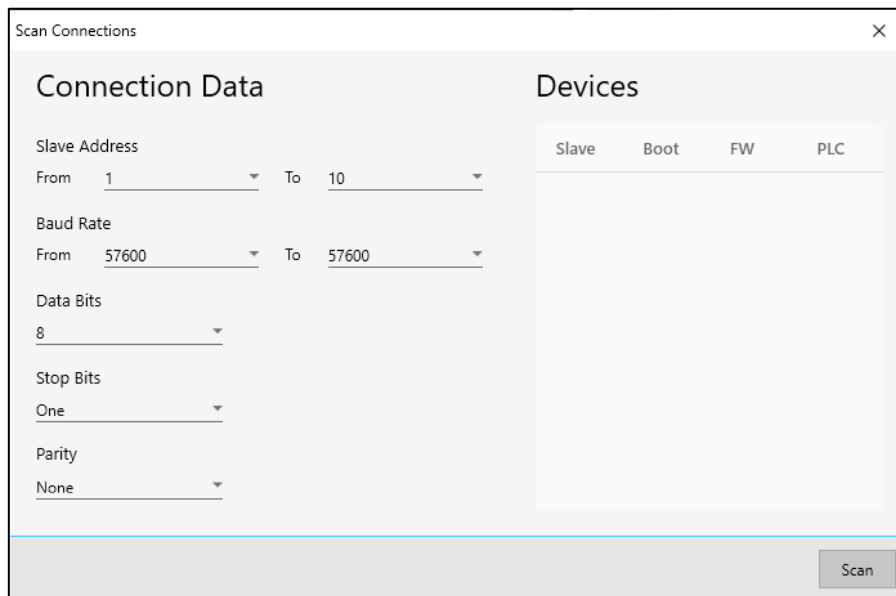


Figure 81: Scan Connections Window

- w. Press the scan button to find the regulation board.
The device will be found in the “Devices” section.



INFORMATION

In case Scan button pressing has no effect, it means that there is no communication with the regulation board. Verify cable connection and regulation board supply to continue

- x. When scan process is completed, double click on the raw of “Devices” section to start the downloading process

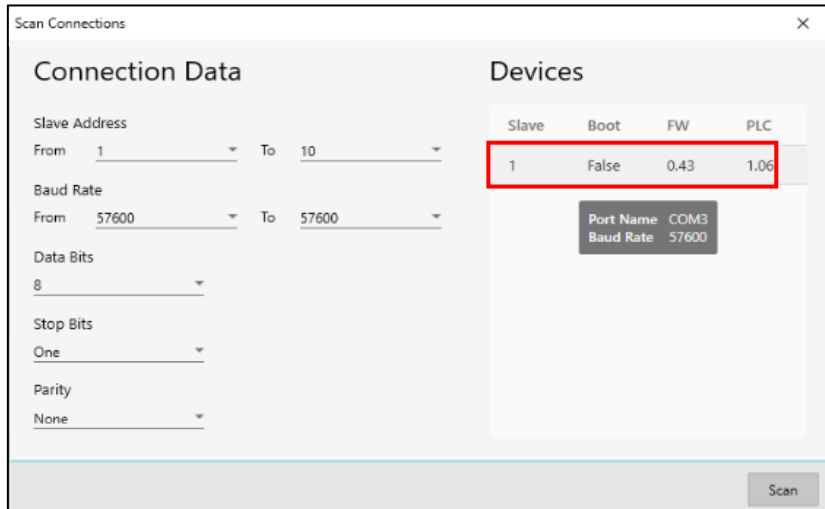


Figure 82: Scan process ended



INFORMATION

If a firmware update is available, the program will download latest firmware version as well

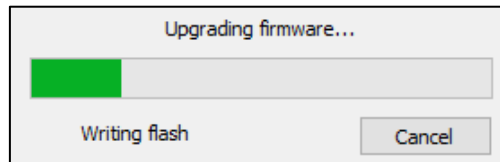


Figure 83: Upgrading firmware pop-up window

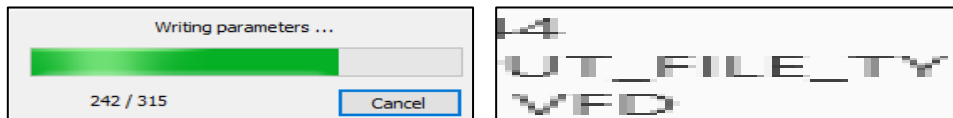


Figure 84: Writing parameters and reading parameters process

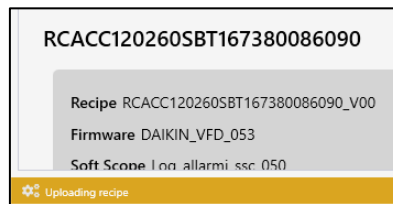


Figure 85: Status bar "uploading recipe"

- y. Feedback can be checked in:
 - a. the output window
 - b. a pop-up window appears from the bottom

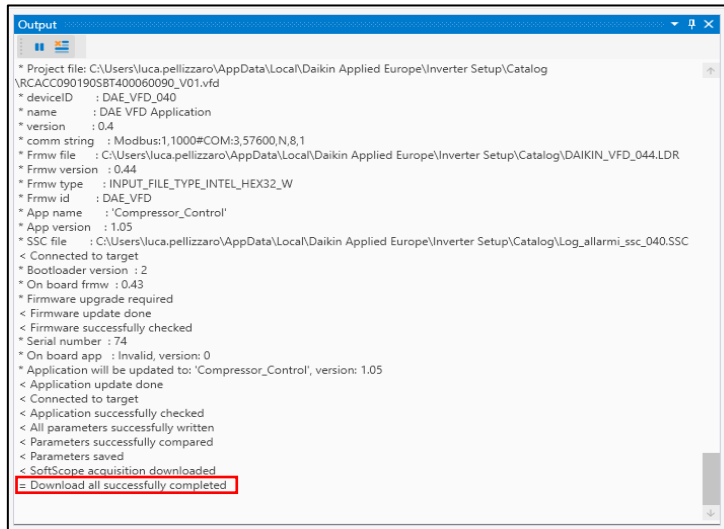


Figure 86: Procedure feedback in Output window

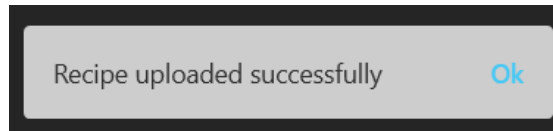


Figure 87: Recipe download feedback pop-up window



INFORMATION

In case procedure fails, refer to paragraph 12. *TROUBLESHOOTING*

z. Procedure is completed

Recipe download for Digital Box – local file

- Open “Board Setup” software
- Insert Service Password: **Daikin@2021**



Figure 14 Insert password window

If it is the first time the application is started, a popup window will appear to choose the display type based on the board type. The settings can be changed at any time in the options (refer to paragraph 5 HMI DESCRIPTION – Home section)

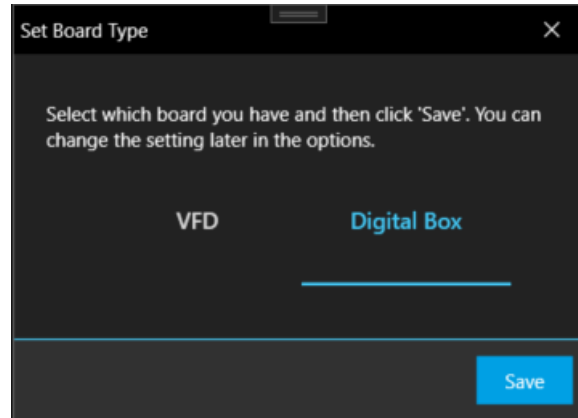

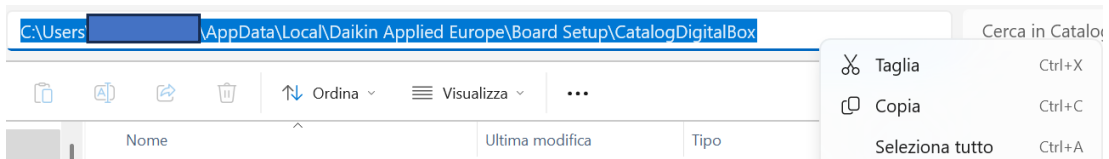


Figure 89: Choose board type

- a. Connect the regulation board to the laptop (refer to paragraph 7. CONNECTION)
- b. Click on “Open Catalog”.  Open Catalog “Catalog” folder will automatically open
- c. Right click on folder path and copy it



- d. Click on the Upload Button (on the arrow pointing down) and then on “Select file”.

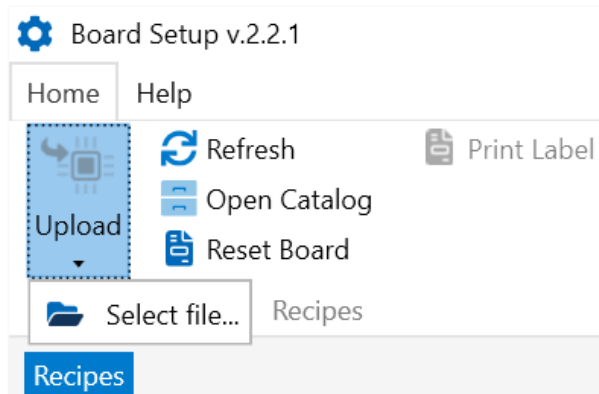
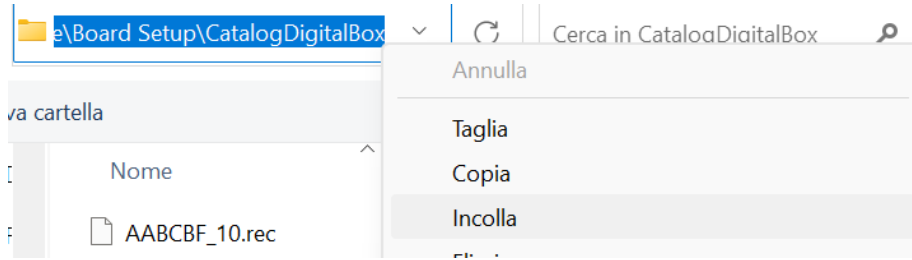
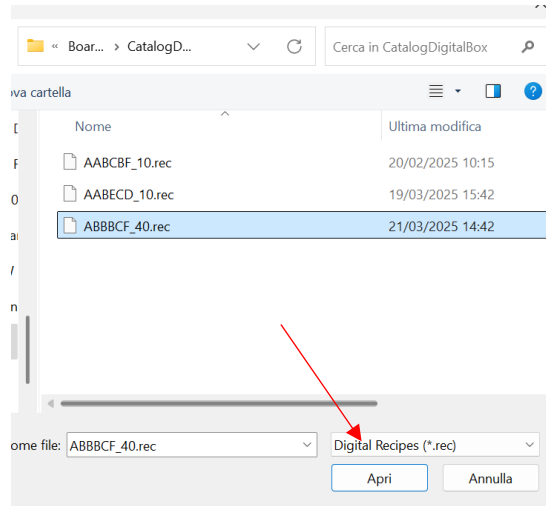


Figure 90: Upload recipe window

- e. Paste the folder path previously copied in step c:



- f. Select the recipe file and click on “Open”



- g. Following message will be displayed. Insert the correct node number and press “Save” button

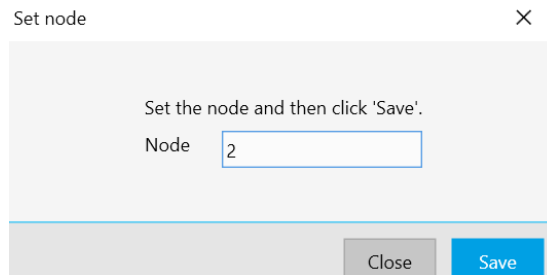


Figure 91: Set node pop-up window

Search on the label the correct node to set



- h. Following message will be displayed, press on “Ok” button

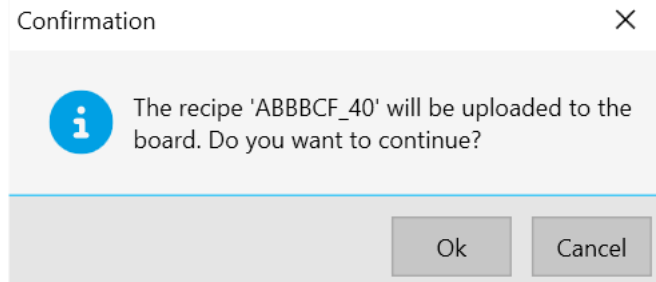


Figure 92: Confirmation pop-up window

- i. In case following message is displayed, press “Ok” to continue

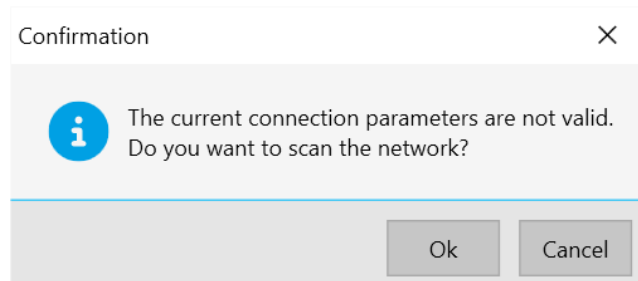


Figure 93: Confirmation pop-up window

“Scan connections” settings will be displayed

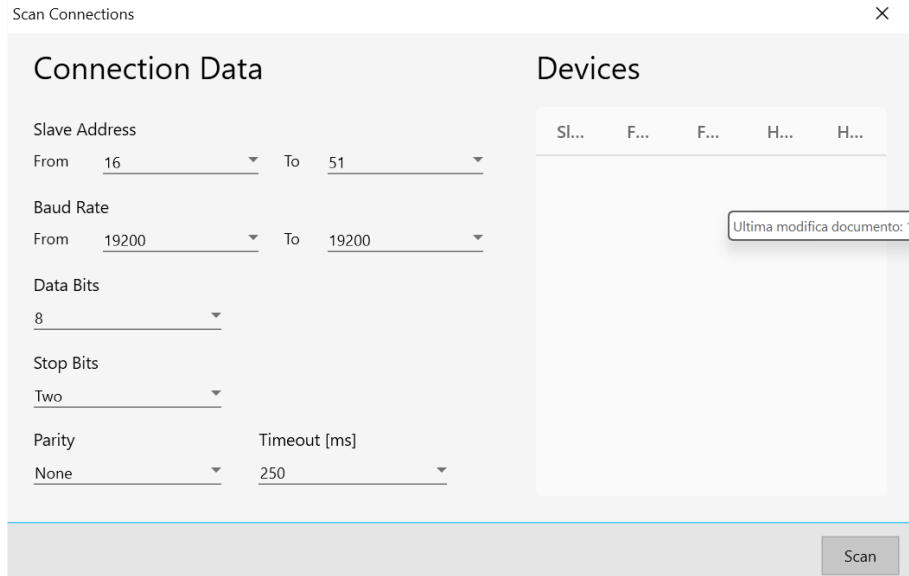


Figure 94: Connections Window

- j. Press the scan button to find the regulation board. The device will be found in the “Devices” section.



INFORMATION

In case Scan button pressing has no effect, it means that there is no communication with the regulation board. Verify cable connection and regulation board supply to continue

- k. When scan process is completed, double click on the raw of “Devices” section with slave 51 to start the uploading process

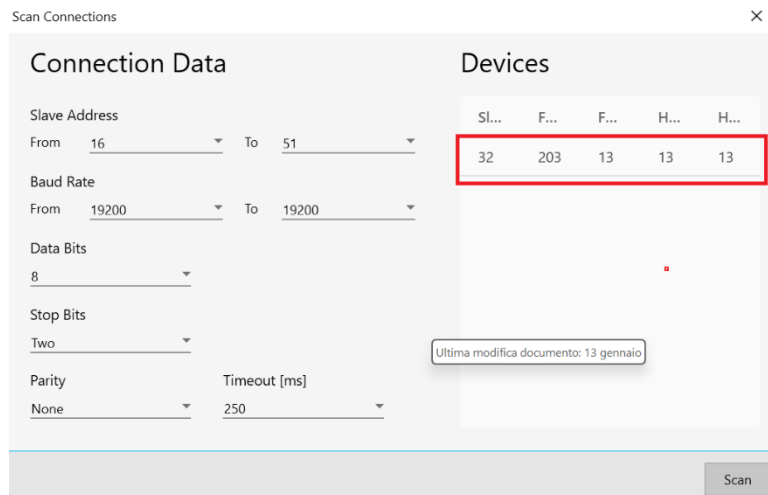


Figure 95: Scan process ended

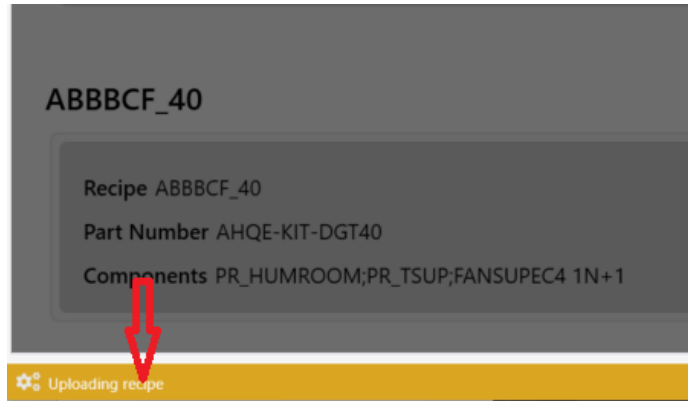


Figure 96: Status bar "uploading recipe"

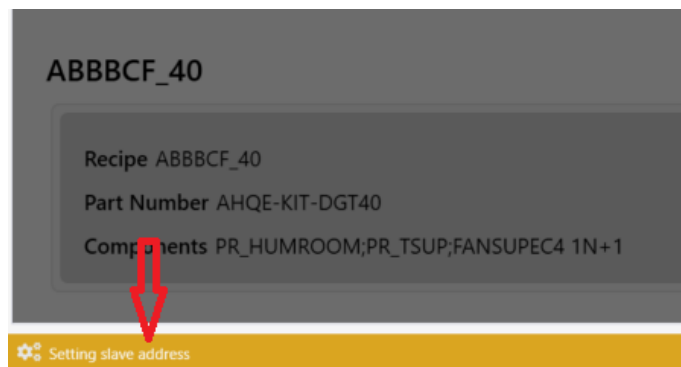


Figure 97: Status bar "Setting slave address"

- I. Feedback can be checked in:
 - b. the output window
 - c. a pop-up window appears from the bottom

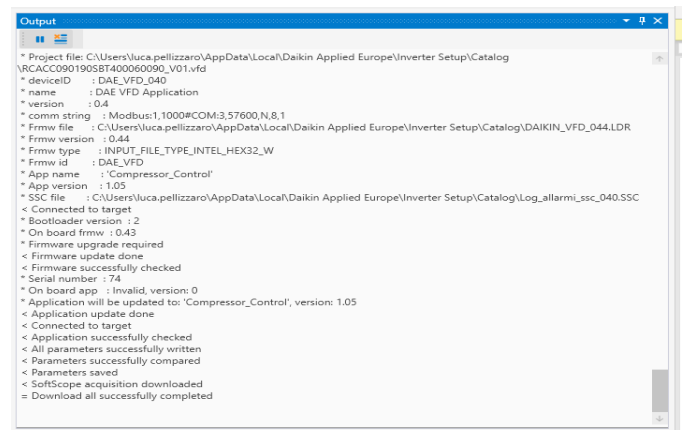
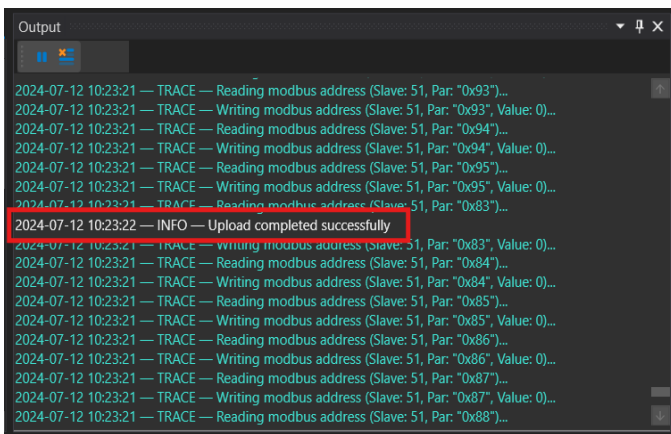


Figure 98: Procedure feedback in Output window

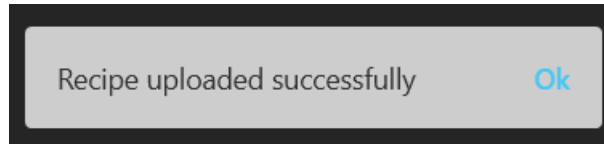


Figure 99: Recipe download feedback pop-up window



INFORMATION

In case procedure fails, refer to paragraph 12. *TROUBLESHOOTING*

- m. Procedure is completed

10. INVERTER/BOARD ADDRESSING PROCEDURE



INFORMATION

If the inverter mounted on the compressor belongs to circuit 2, it is necessary to change the address of the inverter

- a. Click on the "Slave address" button

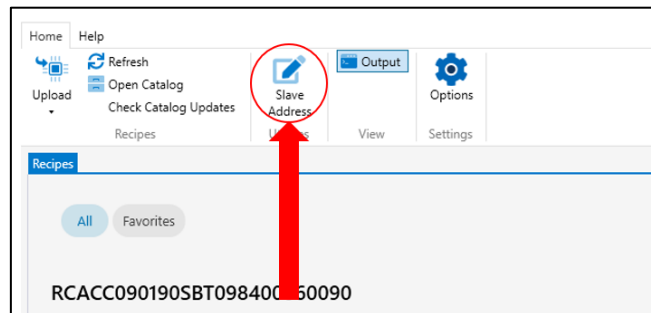


Figure 100: Slave Address button

- b. In case following message is displayed, there may be communication problems, check the cables and press "Ok" to continue

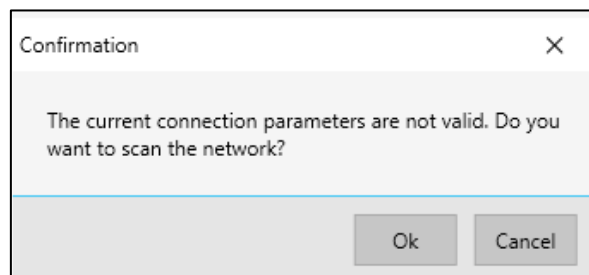


Figure 101: Confirmation pop-up window

Refer to the chapter 9-point for scan network procedure
"Set Slave Address" pop-up window will appear

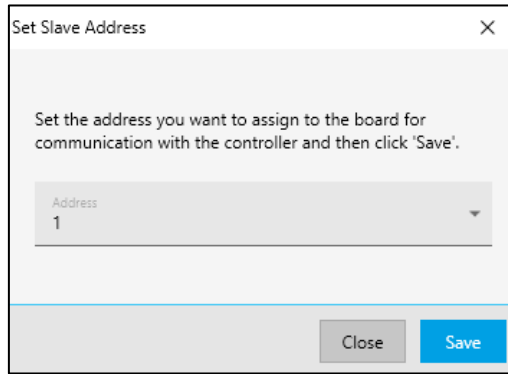


Figure 102: Set Slave Address pop-up window

- c. Select the address 2 and click on “Save Button”

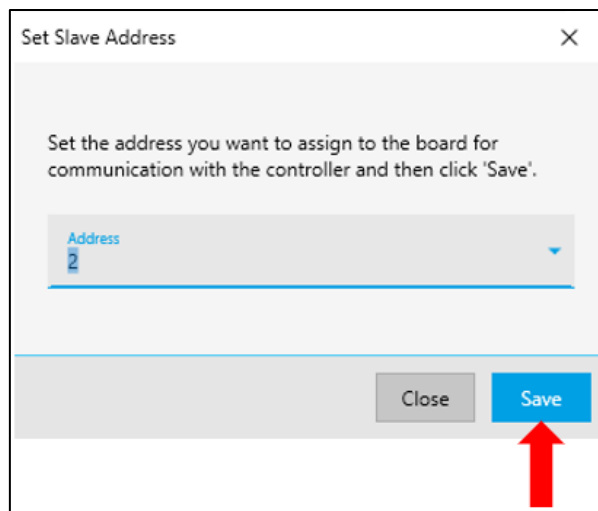


Figure 103: Save Slave Address

The software will start to change the inverter address and during the process the status bar becomes orange



Figure 104: Setting slave address status bar

- d. Feedback can be checked in:
 - a. The output window
 - b. A pop-up window appears

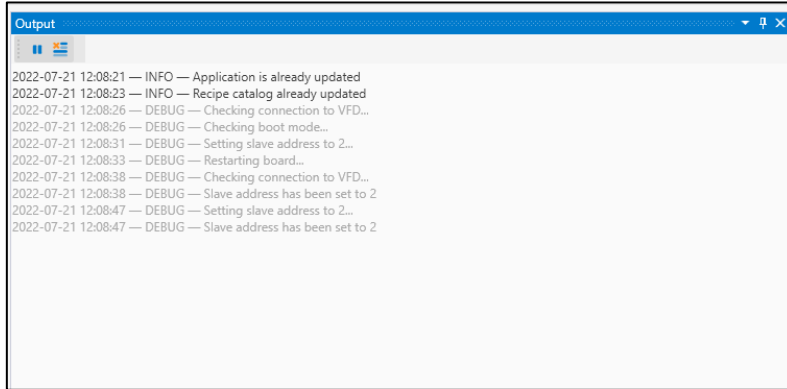


Figure 105: Procedure feedback in Output window

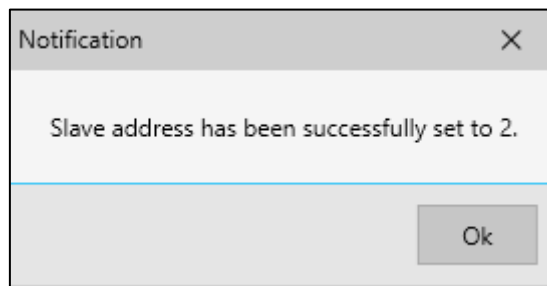


Figure 106: Procedure feedback in pop-up window

- e. Procedure is completed

11. TROUBLESHOOTING

In case the RECIPE DOWNLOAD PROCEDURE doesn't end with good result (in Output window it will show = DOWNLOAD ALL FAILED. ERROR):

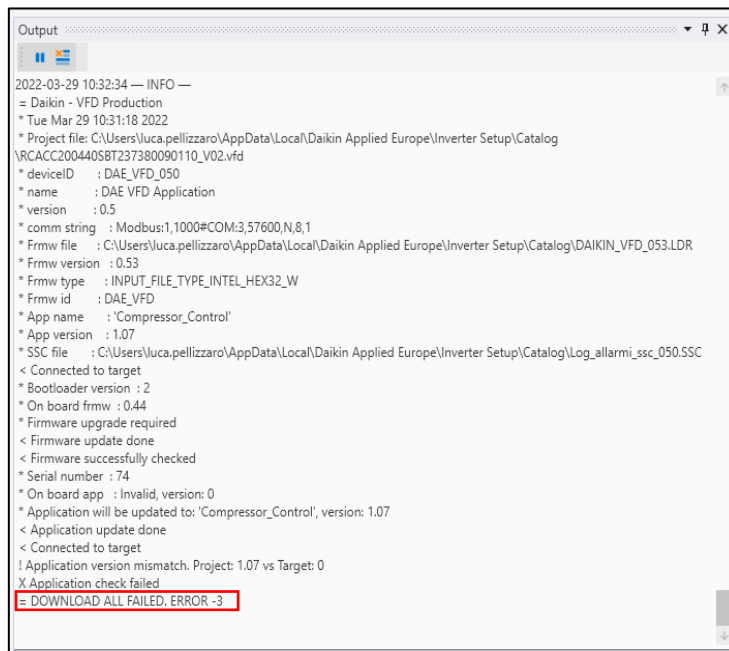


Figure 107: Example of error: procedure failed

A notification pop-up window shows a message error

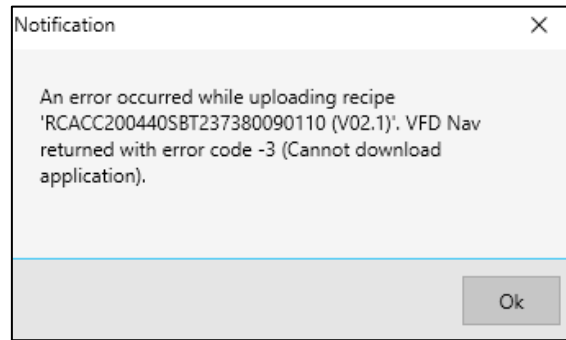


Figure 108: Notification message error

In case during the RECIPE DOWNLOAD PROCEDURE there is a communication or power problem, a notification pop-up window will appear

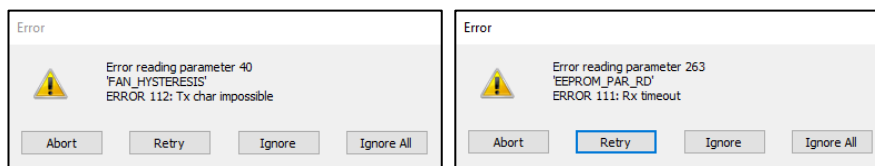
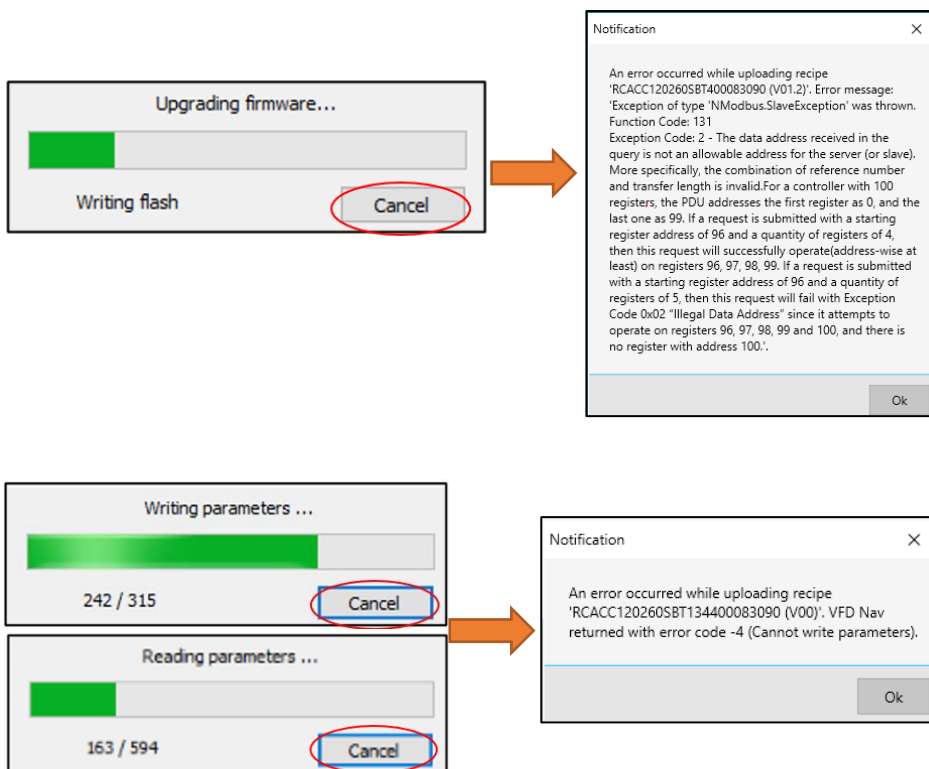


Figure 109: Communication or Power error message

- Make sure the cables are in good condition and are well connected, also check that there are no electromagnetic disturbances.
- After checking the correct wiring, click on “Retry” to continue

In case during the RECIPE DOWNLOAD PROCEDURE, the “cancel” button is clicked by mistake, a notification



pop-up window will appear

Figure 110: Error message – Cancel During Procedure

In case the INVERTER ADDRESSING PROCEDURE doesn't end with good result
A notification pop-up window shows a message error

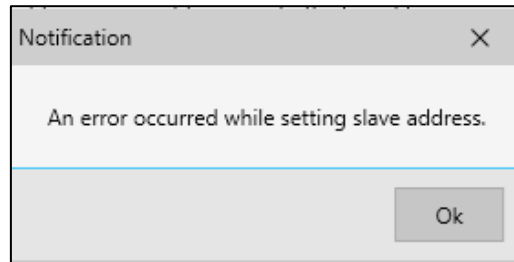


Figure 111: Notification message error

To ensure proper operation:

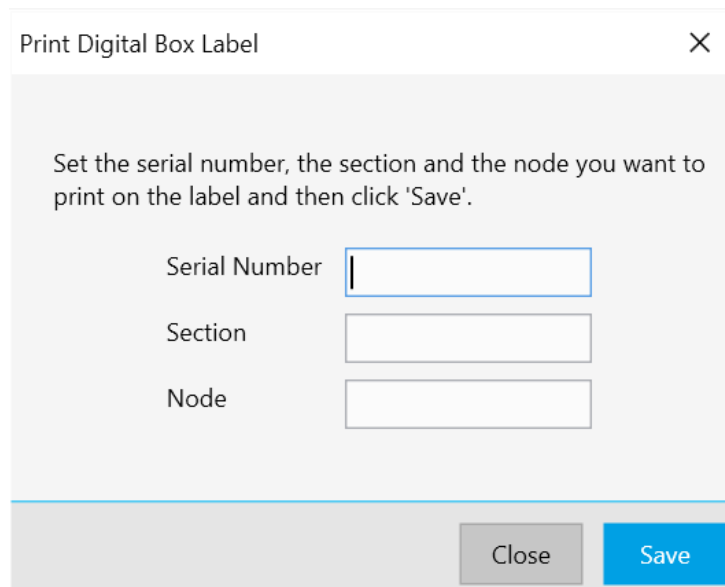
- Guarantee goodness of connection cable
- Guarantee power supply to regulation board
- Guarantee communication Laptop – Regulation board (led lights of converter RS485 blink during upload process)
- Try again procedure

In case procedure fails again, contact servicesupport@daikinapplied.eu

12. Print label for Digital Box

A new label can be printed for the Digital Box. Click on "Print Label", then a window will appear in which you can enter the serial number of the AHU, the section number of the node within the AHU and the node number.

 Print Label



Print Digital Box Label

Set the serial number, the section and the node you want to print on the label and then click 'Save'.

Serial Number

Section

Node

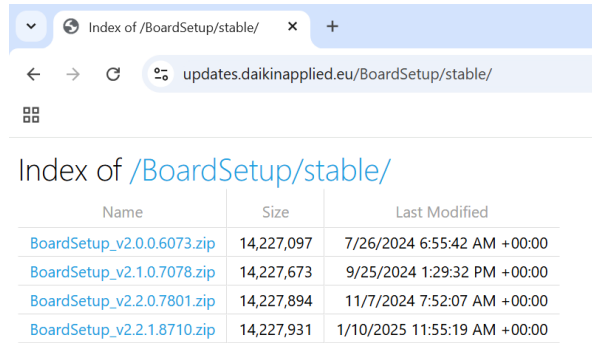
Close Save

Figure 112: Window for printing a new label for node

13. SOFTWARE UPDATE HISTORY

The latest Board setup software version updated to date "01/10/2025" is V 2.2.1.

It is possible to consult the history of the software implementations at the following link: [Index of /BoardSetup/stable/](https://updates.daikinapplied.eu/BoardSetup/stable/)



Name	Size	Last Modified
BoardSetup_v2.0.0.6073.zip	14,227,097	7/26/2024 6:55:42 AM +00:00
BoardSetup_v2.1.0.7078.zip	14,227,673	9/25/2024 1:29:32 PM +00:00
BoardSetup_v2.2.0.7801.zip	14,227,894	11/7/2024 7:52:07 AM +00:00
BoardSetup_v2.2.1.8710.zip	14,227,931	1/10/2025 11:55:19 AM +00:00

Figure 113: Board Setup Release notes