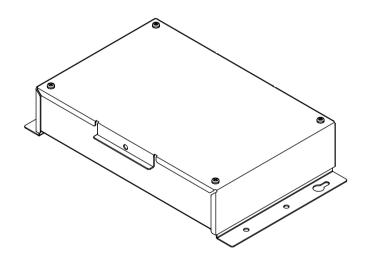


# **APPLICATION MANUAL**

## **Tool for Convertor**

## UTY-VMGX UTY-VKGX



KEEP THIS MANUAL FOR FUTURE REFERENCE

FUJITSU GENERAL LIMITED

PART NO. 9708437026-02

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## **5. DESCRIPTION OF THE SCREEN**

## 6. OPERATION AFTER SETTING

## Notice

Print the Application Manual in "Manual" folder of the attached DVD before starting the setting operation work from now. Prepare the Installation Manual attached to it.

## 1. OUTLINE

• Connecting the PC that is installed Tool for Convertor to this convertor, the setting or the setting contents can be confirmed.

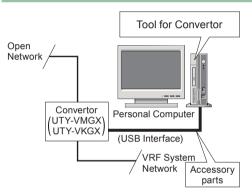
The main functions are as follows.

1-1. System Outline

- a) Setting
- Set the address of indoor and outdoor unit between open network and VRF system network.

## b) Confirming

 Confirm the address setting of indoor and outdoor unit between open network and VRF system network.



## Fig. System Outline

• The layout of the system is shown in Fig. System Outline. Setting and confirming the Convertor are performed using a PC.

The USB interface of the PC is used to connect this Convertor to the PC.

## 1-2. Setting & Confirming Flow

- The Setting & confirming flow is as follows. (Fig. Setting & Confirming Flow)
- Following are the work item during on line operation.

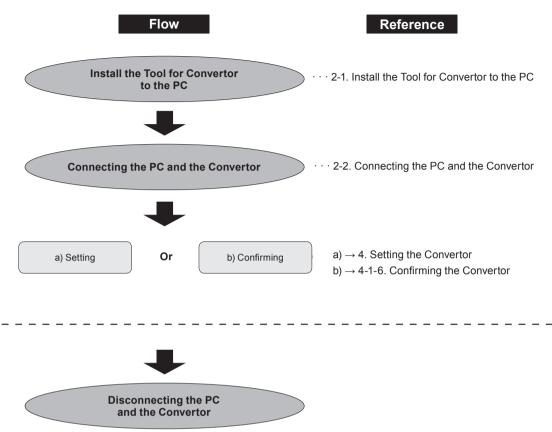


Fig. Setting & Confirming Flow

## 2. SETTINGS

• Install the application and connect the PC and Convertor according to the following explanations.

## 2-1. Install the Tool for Convertor to the PC.

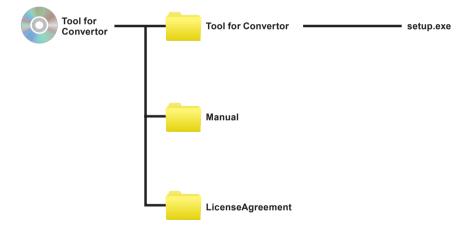
## 2-1-1. Operating Environment

#### • This program requires the following operating environment.

## **Personal Computer Specifications**

	Microsoft <sup>®</sup> Windows <sup>®</sup> 7 SP1 (32/64-bit) Home Premium, Professional (*1)
Operating System	Microsoft <sup>®</sup> Windows <sup>®</sup> 8.1 (32/64-bit) , Pro (*1)
Operating System	Microsoft <sup>®</sup> Windows <sup>®</sup> 10 (32/64-bit) Home, Pro (*1)
	(*1) English, Chinese, French, German, Russian, Spanish, and Polish
CPU	At compatible machine that runs Microsoft <sup>®</sup> Windows <sup>®</sup>
Display	1366 x 768 dots or higher resolution
Interface	USB port (x1)
Software required	DVD drive
Hardware required	Adobe <sup>®</sup> Reader 11.0 or later
	Microsoft <sup>®</sup> .NET Framework 4.5

## DVD Configuration (Accessory)



## 2-1-2. Install the Tool for Convertor

· Follow the following procedure to install the Tool for Convertor.



Double-click the file "setup.exe".

♦ Follow the instructions on PC screen to install the Tool for Convertor.

## 2-1-3. Uninstall the Tool for Convertor

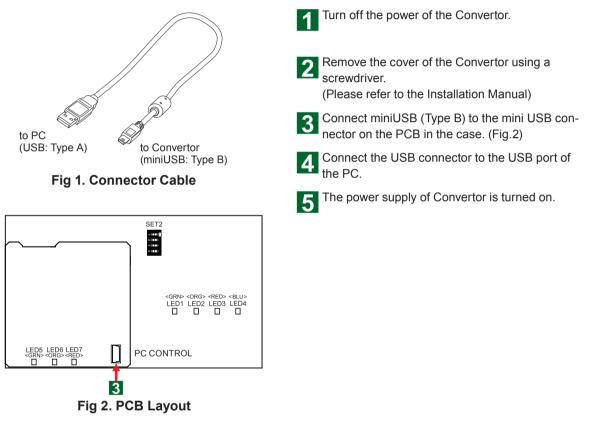
• Follow the method of uninstall of each PC about the method of uninstall of Tool for Convertor.

• When Microsoft<sup>®</sup> .NET Framework 4.5 is not installed to the PC, select the language to be used and download and install it from the download page of Microsoft<sup>®</sup> shown below.

https://www.microsoft.com/en-US/download/details.aspx?id=30653

## 2-2. Connecting the PC and Convertor

- Connect the PC to the Convertor with the included cable\*. Follow the following procedure to connect the PC to the Convertor.
  - \* Cable: USB (Type A) miniUSB (Type B) (Fig. 1).
- This cable is packed in the carton of the Convertor.



## Note

• Starting the Convertor under USB mode is necessary if the Convertor is set from PC with this application.

Check the LED display and confirm that the Convertor is started under USB mode. During the Convertor starting as USB mode, the LEDs of Convertor perform [USB Mode Display (LED5, LED6 and LED7 flash simultaneously with 1.0 second interval)].

## 2-3. Driver installation (First time only)

## 2-3-1. Driver installation (UTY-VMGX)

- (1) Open the Device Manager.
- (2) Click on the additional USB devices in Ports.
- (3) Right-click.
- (4) Select Update driver.
- (5) Select "Browse my computer for diver software".
- (6) Specify and install the folder containing the inf file in accordance with the wizard.
- (7) inf file is in the folder where application is installed at 2-1-2.

It is in FUJITSU GENERAL LIMITED - Tool for Convertor - inf. - VMGX.

Used OS	Folder
Windows 7	FUJITSU GENERAL LIMITED - Tool for Convertor - inf - VMGX - Win7
Windows 8.1	FUJITSU GENERAL LIMITED - Tool for Convertor - inf - VMGX - Win8.1
Windows 10	FUJITSU GENERAL LIMITED - Tool for Convertor - inf - VMGX - Win10

## 2-3-2. Driver installation (UTY-VKGX)

- (1) Run the following dpinst file found in FUJITSU GENERAL LIMITED Tool for Convertor inf VKGX in the application installation folder:
- For 64 bit OS: dpinst\_x64.exe
- For 32 bit OS: dpinst\_x86.exe
- (2) Install the drivers following the procedure displayed in the wizard.

## **3. BASIC OPERATION**

The basic operation of the Tool for Convertor is described in the following explanations.

## 3-1. Starting the Tool for Convertor.

- On the taskbar, click [Start]  $\rightarrow$  [Programs]  $\rightarrow$ [FUJITSU GENERAL LIMITED]  $\rightarrow$  [Tool for Convertor]  $\rightarrow$  [ Tool for Convertor] The screen shown in the PC.
  - Start the Tool for Convertor. Open the screen of "Connection environment" menu.

## 3-2. Selecting the "Connection environment" between the Convertor and the Tool for Convertor.

"Connection environment" menu



#### "Tool for Convertor / Serial Port" menu

S Tool for Convertor		x
Serial Port	COM1 •	
	OK	

"Tool for Convertor / Model Name" menu

🐪 Tool for Convertor			×
Model Name		UTY-VMGX •	
	ОК	Cancel	

 Click the selected button of the "Connection environment" menu.

The items that can be selected are as follows.

- - "Online work (Connected to the convertor)" : Convertor and Tool for Convertor connect and perform the setting operation.

The serial port of USB connected Convertor can be selected.

- (1) Select serial port [COM ...] with pull-down.
- (2) Click "OK" Button, The initial communication with Convertor is performed.
- (3) If the communication is successful by (2), transit to [4-1].
- (4) If the communication is not successful by (2), return to "Tool for Convertor / Serial Port" menu and perform the setting again.
- (5) If the setting is not performed, Click "Cancel" button, and return to "Connection environment" menu.

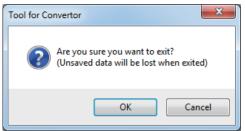


Offline work (Disconnected from the convertor)":

The Convertor model name to be set from PC can be selected.

- (1) Use the pull-down to select the model name.
- (2) Transit to [4-1] by clicking "OK" Button.
- (3) Click the "Cancel" button to return to the "Connection environment" menu.

"Tool for Convertor / Exit" menu





C "Exit" : End the Tool for Convertor.

Confirm whether the application should be exited or not.

- (1) When "OK" button is clicked, unsaved data is deleted and the application is exited.
- (2) If the application is not exited, close "Tool for Convertor / Exit" menu by clicking the "Cancel".

## Notice

Check the following if error occurs when beginning to communicate with Convertor.

- 1. Is the cable connecting the Convertor with PC disconnected?
- 2. Is the Convertor set in "USB Mode"?

Confirm the followings again if the communication was unsuccessful for a number of times:

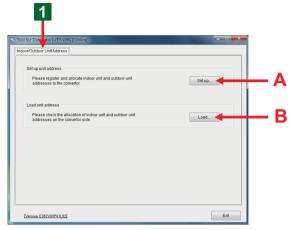
- 1. The USB cable connection between the Convertor and PC
- 2. Whether the selected serial port number and the Convertor connected serial port number are the same or not

It is the "Connection environment" of the relation of 1 to 1, the Tool for Convertor and the Convertor. Therefore, the trouble of the VRF system and BMS is not affected.

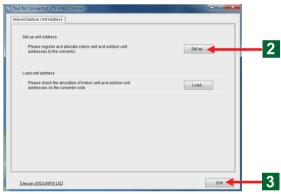
## **4. SETTING THE CONVERTOR**

## 4-1. "Layout of Indoor / Outdoor Unit Address" data is made.

Main Screen / "Indoor/Outdoor Unit Address"



Main Screen / "Indoor/Outdoor Unit Address"





The screen of the "Indoor/Outdoor Unit Address" opens.

## Note

The functions that can be selected are as follows.

- A."Set up unit address" : Make the "Layout of Indoor / Outdoor Unit Address" data and register the Convertor. In addition, the file of the made setting information can be saved in PC. The saved PC data can be confirmed.
- B."Load unit address" :

The read of the "Layout of Indoor / Outdoor Unit Address" data registered in the Convertor. The Tool for Convertor can confirm and save the data.

• Register the "Layout of Indoor / Outdoor Unit Address" data in the Convertor.



2 Click the button of the "Set up...".

♦ The screen of the "Set up unit address" opens.

#### Note

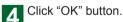
In order to control the Indoor Unit and Outdoor Unit that exists in VRF system from BMS, the "Layout of Indoor / Outdoor Unit Address" is the related Address.

• End the Tool for Convertor.



3 Click "Exit" button.

The screen of the end confirmation opens.

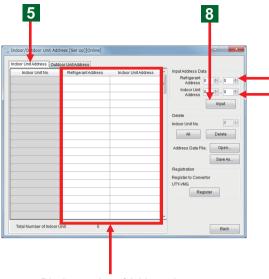


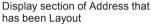
- End the Tool for Convertor.

## Notice

Delete the made information data when ending the application. Then end the operation after saving the necessary setting file.

"Set Up Unit Address" (Indoor Unit)





- Begin setting the "Set Up Unit Address".
- First, set the "Refrigerant Address" and the "Indoor Unit Address".

Click the tab of the "Indoor Unit Address" 5

• Register the "Refrigerant Address" and the "Indoor Unit Address".

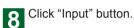
6 Select the Address Number by clicking the "▲" "▼" button of the "Refrigerant Address".

♦ Number can also be input by the Keyboard. The input range is shown on the Note below;

6

Select the Address Number by clicking the "" "▼" button of the "Indoor Unit Address".

♦ Number can also be input by the Keyboard. The input range is shown on the Note below;



## Notice

Register the same "Refrigerant Address" of "Indoor Unit Address" and "Outdoor Unit Address" without excess and deficiency.

## Note

The "Unit No." is automatically allocated to the "Refrigerant Address" and the "Indoor/Outdoor Unit Address" in this tool.

## Note

The "Refrigerant Address" can be input from 0 to 99. The "Indoor Unit Address" can be input from 0 to 63. The "Outdoor Unit Address" can be input from 0 to 3.

#### "Set Up Unit Address" (Outdoor Unit)

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Display section of Address that has been Layout

For example: The attaching method of the Unit Address

Outdoor Unit	No.	of Addr	ess
Master	0	-	-
Master + Slave1	0	1	-
Master + Slave1 + Slave2	0	1	2

• Continue to register the "Refrigerant Address" and the "Outdoor Unit Address".

Click the tab of the "Outdoor Unit Address"

**10 11** Input the "Refrigerant Address" and the "Outdoor Unit Address".

Refer to the "Example : the input method of address" as follows.

 Number can also be input from the Keyboard. The input range is shown on the Note below;



## 2 Click "Input" button.

## Note

The "Unit No." is automatically allocated to the "Refrigerant Address" and the "Indoor/Outdoor Unit Address" in this tool.

"Indoor Unit No." is from 1 to 128. "Outdoor Unit No." is from 1 to 100.

## Note

The "Refrigerant Address" can be input from 0 to 99. The "Indoor Unit Address" can be input from 0 to 63. The "Outdoor Unit Address" can be input from 0 to 3.

## Note

The "Outdoor Unit Address" including the case of set up 1 outdoor unit must be set from 0. And then, set it in the order of 1, 2. Don't jump the order of the number. Refer to the attachment of the "Outdoor Unit Address" on the left.

## For example: the input method of address

#### Notice:

Prepare the data of the "Indoor/Outdoor Unit Address" and the "Refrigerant Address" registered in "VRF system" that can be understood at a glance before starting "Address" input.

The setting method of the registered address is explained by using a case.

#### For example:

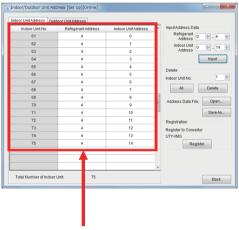
Register the following equipment address of the VRF system.

## VRF system

Refrigerant System: 6 Systems Outdoor Unit: 17 Units Indoor Unit: 83 Units

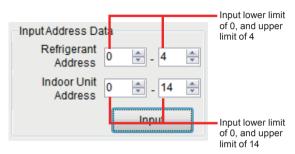
Refrigerant System	Indoor Unit	Outdoor Unit
0	15	3
1	15	3
2	15	3
3	15	3
4	15	3
5	8	2
Total 6	Total 83	Total 17

"Set Up Unit Address" (Indoor Unit) ( Fig. 1)



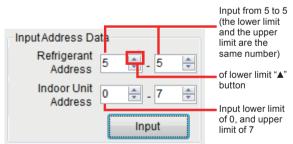
15 "Indoor Unit" each is set in the 0 to 4 system of the "Refrigerant Address".

- Input the "Outdoor Unit Address" according to the instructed input method of the "Indoor Unit Address" and the same knacks till now.
- 2 or more "Refrigerant Address" and "Indoor Unit Address" can be input in a batch.
- (1) Input the "Refrigerant Address" from 0 to 4, and the "Indoor Unit Address" from 0 to 14.



Number can also be input from the Keyboard. The input range is shown on the Note

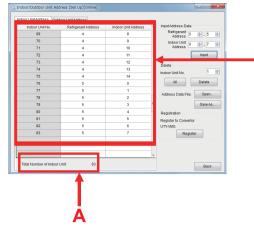
- (2) Click "Input" button.
  - 15 Indoor Unit each is set in the 0 to 4 system of the "Refrigerant Address". (Fig 1.)
- Register 5 of the "Refrigerant Address". Register from 0 to 7 of the "Indoor Unit Address".
- (1) Input 5 of the "Refrigerant Address", and from 0 to 7 of the "Indoor Unit Address".



Number can also be input from the Keyboard. The input range is shown on the Note

- (2) Click "Input" button.
  - 8 "Indoor Unit" is set in the 5 system of "Refrigerant Address". (Fig. 2)

#### "Set Up Unit Address" (Indoor Unit) (Fig. 2)



8 "Indoor Unit" is set in the 5 system of "Refrigerant Address". And then, the input equipment address is displayed on the upper part of this window.

## Note

The "Refrigerant Address" can be input from 0 to 99. The "Indoor Unit Address" can be input from 0 to 63. The "Outdoor Unit Address" can be input from 0 to 3.

The setting is required so that the "lower limit" value does not exceed the "upper limit" value.

\* If the "lower limit" value was set to exceed the "upper limit" value, the "upper limit" value is changed to the "lower limit" value forcibly.

## Note

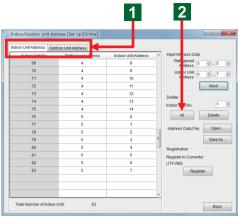
When the lower limit and the upper limit are in the state of the same number, if the " $\blacktriangle$ " button of the lower limit is clicked, the lower limit and the upper limit will switch at the same time. It is convenient when a single setting is input.

## Note

The following information necessary for System Integration is automatically displayed.

A. "Indoor/Outdoor Unit" Display the total number of the unit.

#### "Set Up Unit Address"





• Delete all data of "Layout of Indoor / Outdoor Unit Address".

Click the tab of "Indoor Unit Address" or "Outdoor Unit Address" with the deleted Address.



Click the "All" button of the "Delete" section.

Open the screen of "Are you sure to delete all Indoor Unit Address (Outdoor Unit Address) Data?." for confirmation of deleting all data.



Click "OK" button.

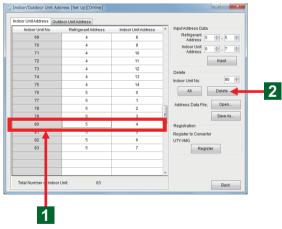
The address content of the opened "Indoor Unit" Address" or "Outdoor Unit Address" was deleted.

## Note

If "All" button is clicked, all the address data will be deleted. It is not possible to regain. Please pay attention to it.

## 4-1-2. Delete any data of "Layout of Indoor / Outdoor Unit Address".

#### "Set Up Unit Address"



 Delete any data of "Layout of Indoor / Outdoor Unit Address".

[The selection method of the "Unit No." on the display of Address List]

Click the "Unit No." of the address list display.

- (1) The line of clicked "Unit No." and "Indoor / Outdoor Unit Address" is selected.
- (2) The selected "Unit No." is displayed in the window of "Delete" section.



2 Click "Delete" button.

The deleted "Unit No." and "Indoor / Outdoor Unit" Address" disappear.

## Note

When any line is deleted, the Address of Unit No. below the deleted line will move up automatically.

#### "Set Up Unit Address"

Indoor Unit No.	Refrigerant Address	Indoor UnitAddress	<ul> <li>Input Address Data</li> </ul>	
69	4	8	Address 5 🔶 - 5	
70	4	9	Indoor Unit 0 🚔 - 7	
71	4	10	Address	
72	4	11	Input	
73	4	12	Delete	
74	4	13	Indoor Unit No. 80 👻	
75	4	14		
76	5	0	All Delete	_
77	6	1	Address Data File: Open	
78	6	2	Address Data File; Open	
79	5	3	E Save As	
80	5	4	Registration	
81	5	5	Register to Convertor	
82	6	6	UTY-VMG	
83	6	7	Register	
			-	

[The setting method of the deleted "Unit No." on the "Delete" section of the display]

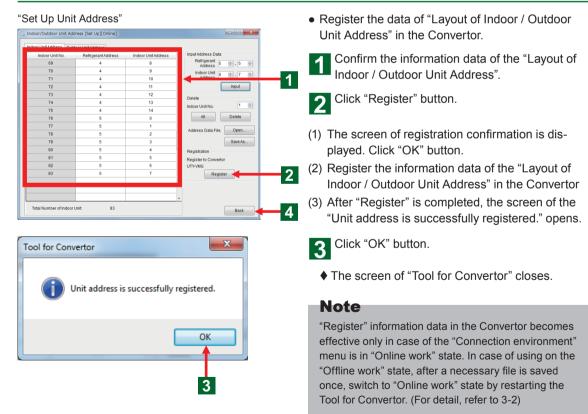
- Click "▲" "▼" button to select the "Unit No." in the "Delete" section.
- Number can also be input from the Keyboard. The input range is the number of "Unit No." which was already set.
- Click "Delete" button.
- The address list of the line of selected "Unit No." was deleted.

## Note

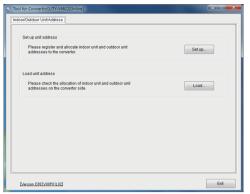
In case of Address of any "Unit No." was deleted, the "Unit No." below the deleted one will move up automatically.

If the number of "Unit No." exceeds the input allowable range, it is changed to the maximum number of "Unit No." which was already set.

# 4-1-3. Register the data of "Layout of Indoor / Outdoor Unit Address" in the Convertor.



Main Screen/ "Indoor/Outdoor Unit Address" :



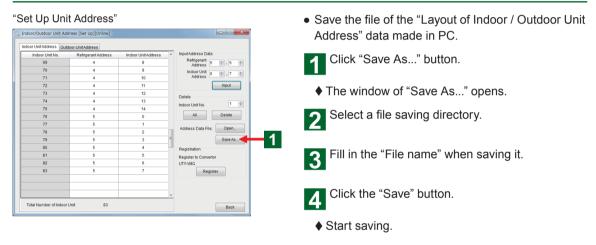
 After each operation ends, return to the main screen.



**4** Click "Back" button.

♦ The Main Screen opens.

4-1-4. Saving the file of the "Layout of Indoor / Outdoor Unit Address" data registered in the Convertor in PC.



# 4-1-5. Opening the saved file data of the "Layout of Indoor / Outdoor Unit Address" in PC.

Set Up Unit Address" , Indoor/Outdor Unit Address [Set up][Online]	<ul> <li>The saved "Layout of Indoor / Outdoor Unit Ad- dress" data in PC is confirmed or changed.</li> </ul>
Hidoor Unit 0	<ul> <li>Click "Open" button.</li> <li>The window of "Open" opens.</li> <li>Open the directory that the file is saved.</li> </ul>
Registration UTYVMG Registration	3 Select the read in file.
Total Number of Indoor Unit 0	Click the "Open" button.
	Start opening

# 4-1-6. Confirming the read in of the "Layout of Indoor / Outdoor Unit Address" data registered in the Convertor.

# "Indoor/Outdoor Unit Address"

#### "Load Unit Address"

ndoor Unit No.	RefrigerantAddress	Indoor Unit Address	-	Unit Address Information
ndoor Onicivo.	Reingerant Address	Indoor OnicAddress	-6	Load from Convertor
				UTY-VMG*
				Load
				Save Unit Address Information
				Address Data File;
				Address Data Pile,
				Save As



• Confirm the read in of the "Layout of Indoor / Outdoor Unit Address" information data registered in the Convertor.

Click the "Load" button.

The screen of the "Load Unit Address" opens.
 The previous data might be displayed. Press the button of step 2 to display the new data.

2 Click "Load" button.

- (1) Read in the "Layout of Indoor / Outdoor Unit Address" that has already been set the Convertor.
- (2) Use tab to switch the display of the read in "Indoor Unit Address" and "Outdoor Unit Address" in the display section.
- (3) After "Load" is completed, the screen of the "Unit address is successfully loaded." opens.

## 3 Click "OK" button.

- ♦ That screen closes.
- Confirm the information data of the read in address. Refer to 4-1-7 when that file of data is saved.
- **A** Click "Back" button.
- ♦ The Main Screen opens.

## Note

"Load" information data from the Convertor becomes effective only in case of the connection environment menu is in "Online work" state. In case of using on the "Offline work" state, after a necessary file is saved once, switch to "Online work" state by restarting the Tool for Convertor. (For detail, refer to 3-2)

## Note

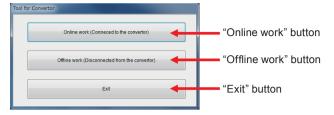
The data that displayed on the "Load Unit Address" will not erase even if the display of the "Indoor/Outdoor Unit Address" is returned with "Back" button. In addition, in case the display of the "Load Unit Address" is open, pay attention that the content of previous "Load Unit Address" will be displayed, when "Load Unit Address" is not made.

# 4-1-7. Saving the file of the data of the "Layout of Indoor / Outdoor Unit Address" read in from the Convertor.

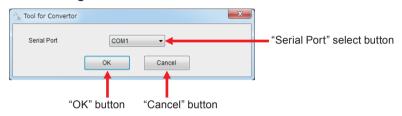
"Load Unit				<ul> <li>Here, the file of the information data of "Layout of Indoor / Outdoor Unit Address" was saved in PC.</li> </ul>
Indoor Unit Address Quitdoor Unit Address				
Indoor Unit No.	Refrigerant Address	Indoor Unit Address	Unit Address Information	
1	0	0	Load from Convertor	Click "Save As" button.
2	0	1	= UTY-VMG*	
3	0	2	Load	
4	0	3	Save Unit Address Information	The window of "Cove Ac." anone
5	0	4	Address Data File;	The window of "Save As" opens.
6	0	5	Save As	
7	0	6		Select a file saving directory
8	0	7		2 Select a file saving directory.
9	0	8		
10	0	9		
11	0	10		
12	0	11		Fill in the "File name" when saving it.
13	0	12		
14	0	13		3
15	1	14		
10	1	1		
18	1	2		Click the "Save" button
Total Number of Indoc	r Unit: 83	-	Back	<b>4</b> Click the "Save" button.
				♦ Start saving.

## **5. DESCRIPTION OF THE SCREEN**

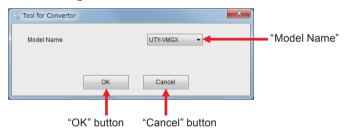
## "Connection environment" menu screen



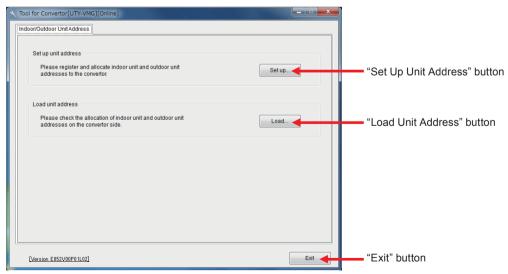
#### When selecting "Online Work"



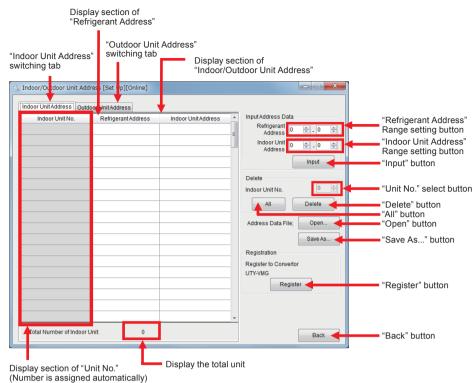
## When selecting "Offline Work"



## Main Screen / "Indoor/Outdoor Unit Address" screen



## Set Up Unit Address screen



## Load Unit Address screen

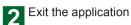
Display section of "Refrigerant Addre	SS"		
"Indoor Unit Address" switching tab	b	Display section of "Indoor/Outdoor Unit Add	ress"
Indoor Unit Address Outdoo Unit Address	1		
Indoor Unit No. Refrigerant Address	Indoor UnitAddress A	Unit Address Information Lead from Convertor UTI-VMC <sup>2</sup> Load Save Unit Address Information Address Data File: Save As	"Load" button "Save As" button
Total Number of Indoor Unit: 0	•	Back	"Back" button

## **6. OPERATION AFTER SETTING**

• The steps to proceed to the normal operation of Convertor after Convertor setting completion by this application are shown below.



Complete the setting from the Tool for Convertor







Start up the Convertor as the main power supply

**5** The contents set from PC are reflected on the Convertor