

D-checker User Manual

Ver. 3.4.0.0

DAIKIN INDUSTRIES, LTD.

Global Service Department

Contents

Overview	3
You will need	4
1. Installing D-checker	5
2. Connecting D-checker to the air conditions	e r 6
3. Launching and Exiting D-checker	7
3-1. Launching D-checker for the first time	7
3.2. Menu	7
3-3. Options	8
3-4. Exiting D-checker	9
4. Setting customer information	10
4-1. Registering, choosing, editing, deleting, im	porting, and exporting
customer information	10
4-2. Registering new customer information	11
4-3. Recording and playing operation data	12
4-4. Importing customer information	13
4-5. Exporting customer information	13
4-6. Caution regarding importing recorded files .	14
5. Recording operation data	15
5-1. Registering, selecting, editing, deleting, im	porting, and exporting
customer information	15
5-2. Registering new customer information	16
5-3. Configuring equipment information	17
5-4. Entering equipment information	18
5-5. Displaying the network map	20
5-6. Starting and stopping recording of operatio	n data 21
5-7. Displaying operation data	22
5-8. Editing equipment information	26
6. Playing operation data	28
6-1. Playing operation data	28
6-2. Displaying operation data	29
6-3. Editing equipment information	33
7. Outputting operation data as a CSV file	34
8. Importing legacy data	35
9. Importing mobile app data	36

Overview

Caution

This software is designed to be used by Daikin service engineers. Use by any other party is prohibited.

- D-checker is a software application used to record and monitor operation data from an air conditioner to which it has been connected with a cable. Be sure to read the User Manual before use.
- The software can monitor the status of sensors (temperature and pressure) and actuators (compressors, solenoid valves, etc.) on air conditioners.
- The data supported by the software vary by model.
- D-checker collects air conditioner operation data via control PCB connectors on outdoor units. Monitoring and recording of data from multiple outdoor unit circuits is not supported. The following table compares D-checker with the Type 3 Checker:

Product	D-checker	Type 3 Checker					
Connection method	PCB connection	D3-NET connection					
Maximum number of connections per record	1 circuit (cable connection)	D3-NET: All devices on same D3-NET					
Recorded data	Sensor data, actuator status, other						
Extra sensors	Not supported	6 thermistors, 2 pressure sensors (requires optional sensor kit)					
Centralized control	Not supported	Setpoints can be changed, and indoor units can be turned on and off.					

Supported products	D-checker	Type 3 Checker
SkyAir	Models manufactured in 2003 and later*	Models manufactured in 1998 and later
RA	Models manufactured in 2002 and later*	Some models manufactured from 1992 to 1995
Chiller	Not supported	Some models manufactured in 2000 and later
VRV**	Models manufactured in 2003 and later*	Models manufactured in 1990 and later
Altherma LT:BB,CA	Indoor unit models (2010 and later)	Not supported
Altherma HT	Not supported	AB models (2010 and later)
Altherma Flex	Not supported	All models

^{*} Exceptions may apply (even though applicable to this condition, some models do not support D-checker protocol). VRVII MA (M9) series are not supported.

^{**} Maximum supported number of VRV indoor unit data is 59.

You will need

You will need the following equipment:

1. A computer that satisfies the following requirements:

Operating system	WindowsXP, Vista, 7, 8, 8.1*1						
RS-232C	D-sub 9-pin inte	D-sub 9-pin interface (faster than 9,600 bps)					
Other	.NET framework 4 or later*2						
	Windows 8.1 Windows 8	Already installed					
	Windows 7 Windows Vista	.NET Framework 4.5.1 is recommended.					
	Windows XP	Only .NET Framework 4 can be installed.					

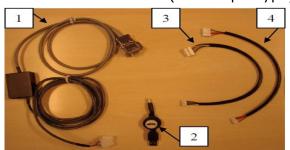
- *1 The software has only been confirmed to work with 32-bit versions of Windows.
- *2 If you do not have installation privileges, install from a user account with Administrator privileges.

Checking the .NET Framework version

Check the Microsoft .NET Framework version from the list of installed programs under Control Panel \rightarrow (Programs \rightarrow) Programs and Functions (on Windows XP, under Control Panel \rightarrow Add or Remove Programs).

2. Connection cables

D-checker cable (D-sub9 pin type)

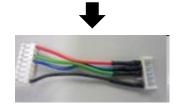


D-checker cable (USB type)



<Equipment>

- 1: Cable
- 2: USB power supply for cable
- 3: Connection harness 1 (for split)
- 4: Connection harness 2 (for SkyAir)
- *Additional connecting harness is required for Altherma LT (BB type) indoor units (CA type or later models do not need for this).



Caution

Only use the cable shown above. Use of other cables may cause electric shock or damage to the AC power supply or computer.

1. Installing D-checker

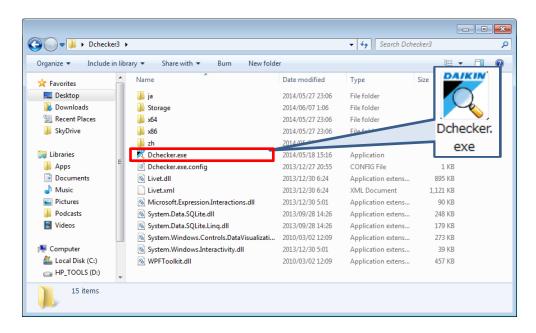
This chapter describes how to install and launch D-checker.

1-1. Installing D-checker

Dchecker3zip

 Unzip the D-checker package into a folder of your choice (for example, on the desktop).

 Double-click D-checker.exe, which can be found in the unzipped folder, to launch D-checker.



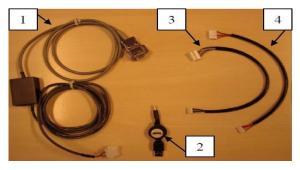
- When you launch D-checker for the first time, a firewall settings dialog box will be displayed. You can choose either "Allow access" or "Cancel."
 - *This dialog box may not be displayed on some computers.



2. Connecting D-checker to the air conditioner

Caution

Split air conditioners have two types of control PCB (isolated and non-isolated). All components on non-isolated PCBs are charged with a high voltage. Be sure to turn the air conditioner off before connecting the cable to the PCB.

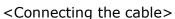


D-checker cable (USB type)



<Equipment>

- 1: Cable
- 2: USB power supply for cable
- 3: Connection harness 1 (for split)
- 4: Connection harness 2 (for SkyAir)
- 5: USB type cable
- 6: USB power supply/communication cable (A/B)
- *Additional connecting harness is required for Altherma LT (BB type) indoor units (CA type or later models do not need for this).



- 1. Attach the connection harness (3 or 4) to the cable (1) as appropriate for the AC unit's connection type. \rightarrow In case of USB type, skip to step2
 - SkyAir

Since the cable can be connected to the blue 5-pin connector (CN-IF) on the outdoor unit's control PCB, choose the appropriate connector adapter.

• RA

The connector varies with the control PCB type (isolated or non-isolated).

• Altherma LT indoor units (BB type only)

A dedicated cable is required for this type of equipment (see note above).

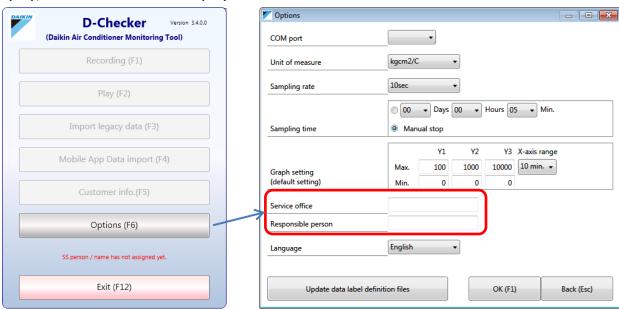
- Connect the cable to the computer's serial port.
 (If the computer does not have a serial port, use the USB converter.)
 → In case of USB type, connect USB cable (6) between USB type cable (5) and PC and skip to step4
- 3. Connect the DC connector on the USB power supply (2).
- 4. Connect the connection harness to the PCB connector.

3. Launching and Exiting D-checker

This chapter describes how to launch and exit D-checker, how to use the menu window, and how to configure options.

3-1. Launching D-checker for the first time

Available functionality is limited when you launch D-checker for the first time until you enter certain information. Register the service office name and person on the "Options" window. Once you have set this information, you will be able to use the "Recording (F1)," "Play (F2)," "Import legacy data (F3),""Mobile App Data Import (F4)," and "Customer info. (F5)" functions.



3.2 Menu

This section describes the menu window.



[Recording (F1)]

Records operation data.

(For more information, see "5. Recording operation data.")

[Play (F2)]

Plays recorded operation data. (For more information, see "6. Playing operation data.")

[Import legacy data (F3)]

Imports data gathered with D-checker Ver. 2.18 or earlier.

(For more information, see "8. Importing legacy data.")

[Mobile App Data Import (F4)]

Imports data gathered with D-checker app for Android or iOS. (For more information, see "9. Importing mobile app data")

[Customer info. (F5)]

Provides customer-specific operations. (For more information, see "4. Setting customer information.")

[Options (F6)]

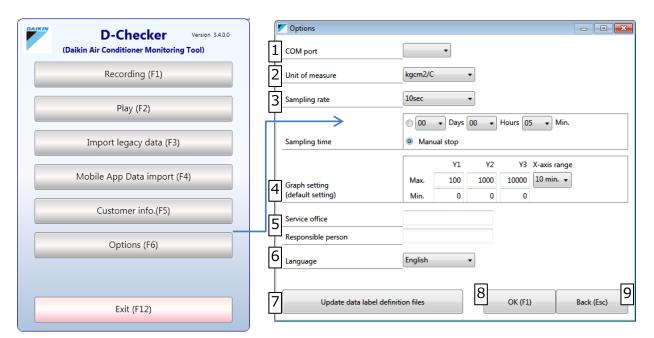
Configures COM port, units, and other settings. (For more information, see "3-3. Options.")

[Exit (F12)]

Exits D-checker.

3-3. Options

Click the "Options (F6)" button to display the "Options" window, which allows you to configure settings needed in order to record operation data and set visual information used when playing data.



- 1. Set the COM port to use. (You can choose any currently recognized port.)
- 2. Choose the unit of measure (kgcm/C, MPa/C, bar/C, or psi/F).
- 3. Choose the sampling rate (5, 10, 20, 30, 60, 120, or 300 sec.).

If you need to automatically stop recording after a certain mount of time has elapsed, set the sampling time.

*If you do not need to automatically stop recording, choose "Manual stop."

4. Set the length (in the form of minimum and maximum values) of the Y-axis (which displays analog data values) used on the "Graph view" tab.

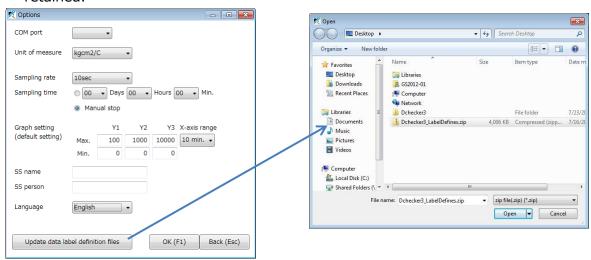
Set the range for the X-axis (which displays the time axis range) used on the "Graph view" tab.

- 5. Enter the service office name and responsible person.
- 6. Choose preferred language as the display language.
- 7. Label definition files are used when importing data. (More details in next page)
- 8. Click "OK (F1)" to save changes.
- 9. Click "Back (Esc)" to discard changes.

Update data label definition files

In Options screen, when [Update data label definition files] button is pressed, data label file (zip file) selection window will appear By locating correct data label file and pressing [Open] button, data label definition files in zip file will be imported.

- Existing data label definition files with same name as imported files will be overwritten by new files.
- Existing data label definition files with different names from imported files will be retained.

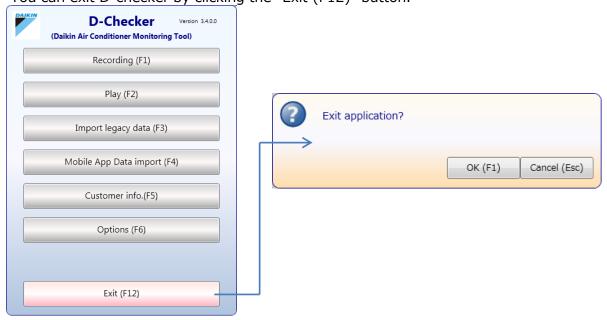


◆ What is data label definition file?

They are external files which lists names (meanings) of data transmit from products. If incorrect data label definition file was selected, incorrect data name could be listed in D-checker screen.

3-4. Exiting D-checker

You can exit D-checker by clicking the "Exit (F12)" button.



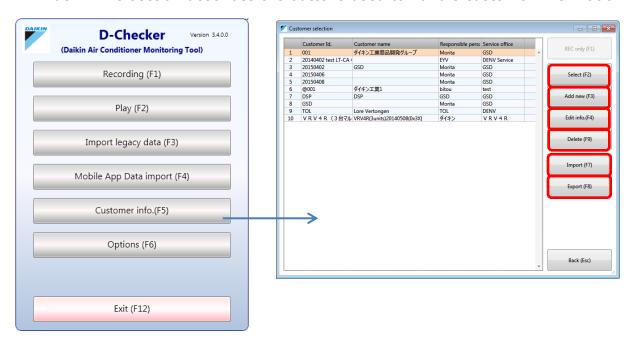
When you exit the application, a confirmation dialog box will be displayed. Click "OK (F1)."

4. Setting customer information

This chapter describes how to set customer information.

4-1. Registering, choosing, editing, deleting, importing, and exporting customer information

Click the "Customer info. (F5)" button to display the "Customer selection" window. This section describes the buttons used to handle customer information.



[Select (F2)]

Uses the customer information that has been selected in the list.

[Add new (F3)]

Registers new customer information.

[Edit info. (F4)]

Allows you to edit the customer information that has been selected in the list.

[Delete (F9)]

Deletes the customer information that has been selected in the list.

*Exercise caution since when customer information is deleted, the network map and recorded data associated with the selected customer will also be deleted.

[Import (F7)]

Imports operation data recorded by another D-checker and the associated customer information.

*Import function only supports zip files exported by "Export(F8)" button (see 4-6 for details).

[Export (F8)]

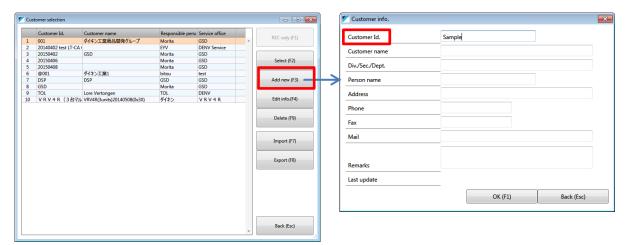
Outputs the recorded operation data and the associated customer information as

Recommended practice

It is recommended to create a new customer information file for each customer and equipment location. This approach will allow you to manage information appropriately for each customer and to maintain and check model data in an appropriate manner.

4-2. Registering new customer information

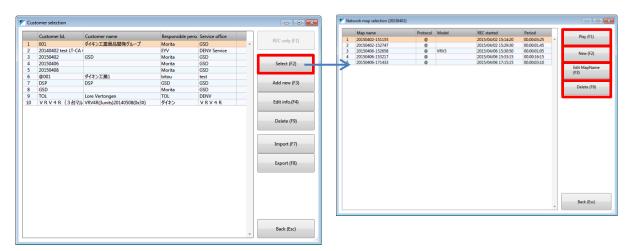
Click the "Add new" button on the "Customer selection" window to start the customer information registration process. New customer information can be registered on this window.



- The customer ID is used to identity customers.
 *You must enter a customer ID.
- The customer ID and customer name are shown on the "Customer selection" window.
- Other information is for informational purposes.
- Click "OK (F1)" to register the customer.
- Click "Back (Esc)" to cancel the registration.

4-3. Recording and playing operation data

Click the "Select" button on the "Customer selection" window to open the "Network map selection" window, which allows you to perform the operations described below.



[Play (F1)]

Plays the operation data that has been selected in the list.

[New (F2)]

Registers new equipment information and records data.

[Edit MapName (F3)]

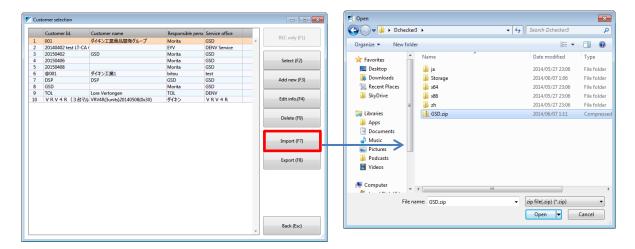
Allows you to edit the equipment information for the operation data that has been selected in the list.

[Delete (F9)]

Deletes the operation data that has been selected in the list.

4-4. Importing customer information

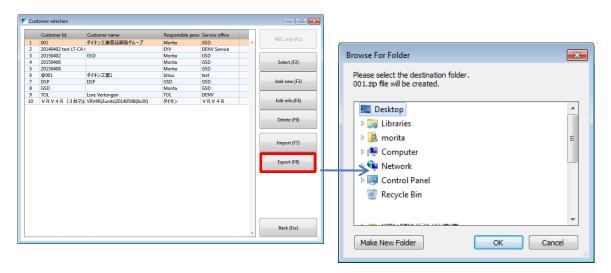
Click the "Import" button on the "Customer selection" window to display the dialog box shown below, which is used to import previously recorded operation data and associated customer information.



- Select a customer information file that has been saved as a ZIP file and click the "Open" button.
- If the information is successfully imported, a list of the customer information will be shown.

4-5. Exporting customer information

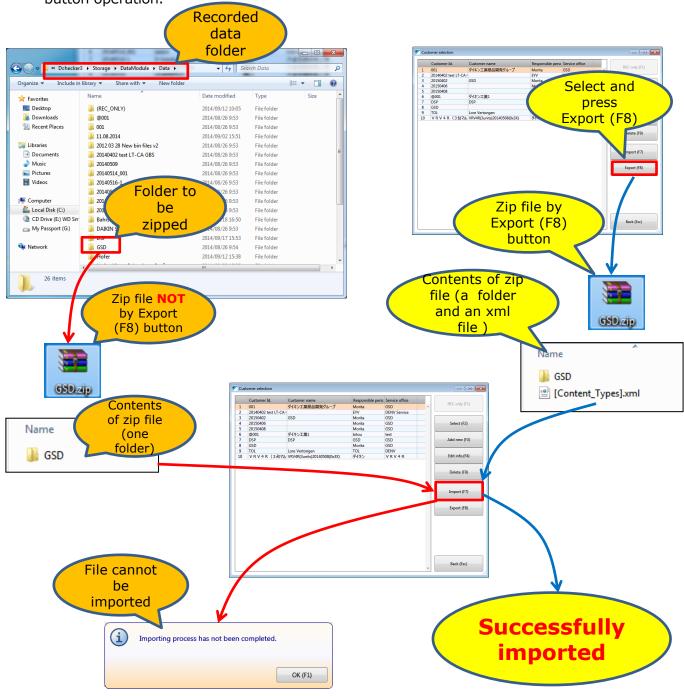
Click the "Export" button on the "Customer selection" window to display the dialog box shown below, which is used to output recorded operation data and associated customer information as a ZIP file.



- Select the customer information you wish to output from the list and click the "Export" button.
- When the dialog box is displayed, select the destination folder and click "OK."
 (The customer ID will be used as the filename.)

4-6. Caution regarding importing recorded files

Import (F7) button function in "Customer selection" screen only works if you locate compressed (zipped) files which was made by Export (F8) button function. If you made zip file directly from saved recordings folder by general file compression software such as Winzip, etc, those zip files cannot be imported by Import (F7) button operation.

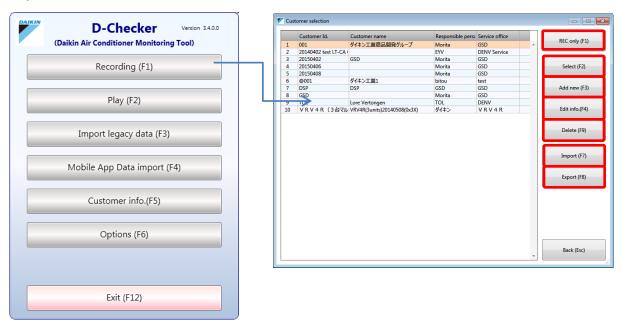


5. Recording operation data

This chapter describes how to record operation data.

5-1. Registering, selecting, editing, deleting, importing, and exporting customer information

Click the "Recording (F1)" button to display the "Customer selection" window. This section describes the functionality provided by each button for recording operation data.



[REC only (F1)]

Records data without using customer information.

[Select (F2)]

Uses the customer information that has been selected in the list.

[Add new (F3)]

Opens the "Customer info." window.

[Edit info. (F4)]

Allows you to edit the customer information that has been selected in the list of registered customer information.

[Delete (F9)]

Deletes the customer information that has been selected in the list of registered customer information.

*Exercise caution since when customer information is deleted, the network map and recorded data associated with the selected customer will also be deleted.

[Import (F7)]

Imports operation data recorded by another D-checker and the associated customer information.

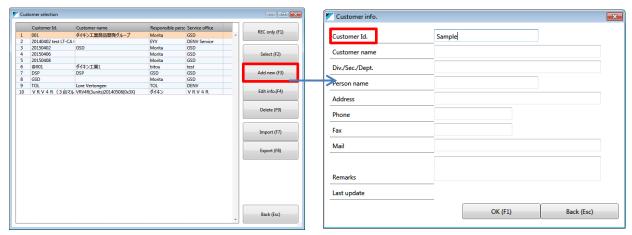
*Import function only supports zip files exported by "Export(F8)" button (see 4-6 for details).

[Export (F8)]

Outputs the recorded operation data and the associated customer information as a ZIP file.

5-2. Registering new customer information

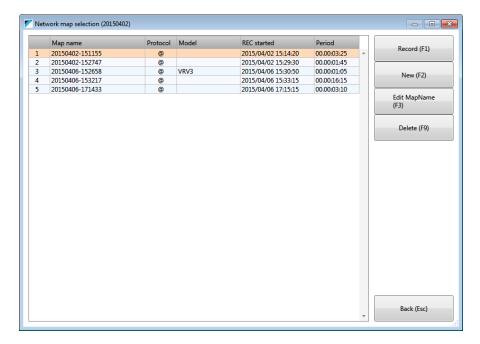
Click the "Add new" button on the "Customer selection" window to start the customer information registration process. New customer information can be registered on this window.



- The customer ID is used to identity customers. *You must enter a customer ID.
- The customer ID and customer name are shown on the "Customer selection" window.
- Other information is for informational purposes.
- Click "OK (F1)" to register the customer.
- Click "Back (Esc)" to cancel the registration.

5-3. Configuring equipment information

Select a customer on the "Customer selection" window to display the "Network map selection" window, which allows you to register new equipment information and edit or delete existing equipment information.



[Record (F1)]

Records data using the equipment information that has been selected in the list.

[New (F2)]

Registers new equipment information and records data.

[Edit MapName (F3)]

Allows you to edit the equipment information that has been selected in the list.

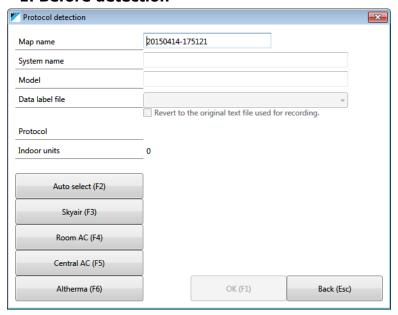
[Delete (F9)]

Deletes the equipment information that has been selected in the list.

5-4. Entering equipment information

Click the "New" button on the "Network map selection" window to open the "Protocol detection" window, which allows you to register and configure information about the connected equipment.

1. Before detection



- To detect the connected equipment, choose "Auto select," "SkyAir," "Room AC," "Central AC," or "Indoor."
- Once the connection to the equipment is detected, the map name, system name, protocol, and indoor units will be displayed.
- The default value for the map name and system name is "yyyymmdd-hhmmss." Edit the map name as necessary.
 - * To make it easier to manage recorded operation data later, change the map name to a more descriptive phrase. Choose "Indoor" when registering outdoor models.

Caution

If a "Protocol detection failure" message is displayed, verify that the cable is securely connected and check the system settings to verify that the proper COM port has been selected. Then click "Auto select." In case of "standby electricity saving function" activated for Split products, it is necessary to cancel this mode by switch on indoor unit by remote controller (fan mode, etc.).

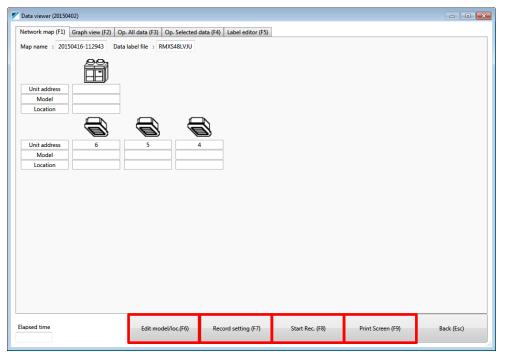
2. After detection



- If you know the model name for the connected equipment, select it from the "Data label file" drop-down menu. If not, choose "Default."
 - * If you choose the wrong data label file, the data may not be displayed properly.
- If the target equipment is a room air conditioner, choose "Default."
- Click the "OK (F1)" button to proceed to the "Network map display" window.
- If D-checker is connected to an Altherma LT indoor unit, do not click any button other than "Indoor." Doing so may prevent the data from being displayed properly. If the outdoor unit is compatible, outdoor unit data will be displayed properly.

5-5. Displaying the network map

Once the equipment information has been entered, the "Network map" tab for the connected equipment will be displayed. This tab displays connection information for indoor and outdoor units.



[Edit model/loc. (F6)]

Allows you to enter and edit the model name and location.

[Record setting (F7)]

Opens the "Options" window.

[Start Rec. (F8)]

Starts recording.

[Print Screen (F9)]

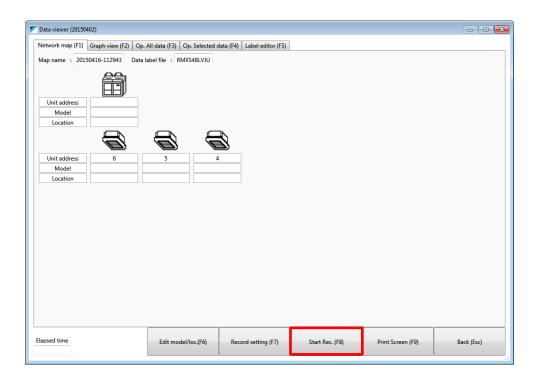
Saves a screenshot of the currently displayed window as a JPEG image file.

Caution

Do not change the computer's time setting after the network map has been displayed. If the time is changed to a time that is later than the current time, the order of recorded data will be lost, and data will not play properly.

5-6. Starting and stopping recording of operation data

This section describes how to record operation data for the connected equipment.



- Click the "Start Rec. (F8)" button to start recording operation data.
- The label of the "Start Rec. (F8)" button will change to "Stop Rec. (F8)" while recording is in progress. Click "Stop Rec. (F8)" to stop recording of operation data.

*Recording of operation data cannot be stopped with the "X" button at the top right corner of the window.

Troubleshooting

If D-checker freezes while recording data, you can click the "X" button at the top right corner of the window while pressing Shift+Ctrl on the keyboard.

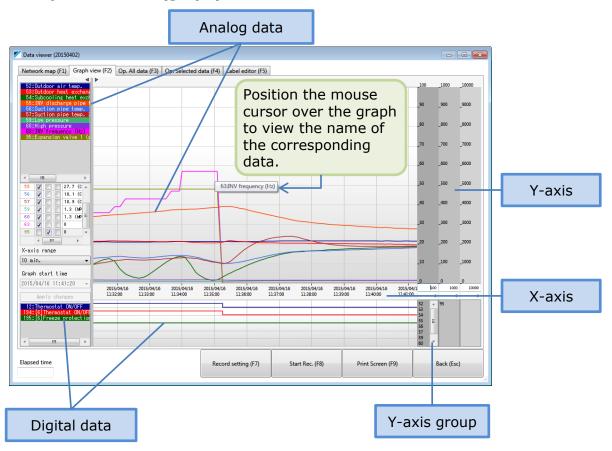
Caution

Do not disconnect cable between equipment and PC <u>BEFORE</u> completion of recording process (until "Back" button will be active again). By this action, data saving process could hang and recorded data will be lost.

5-7. Displaying operation data

Operation data can be viewed using three methods: "Graph view (F2)," "Op. All data (F3)," and "Op. Selected data (F4)."

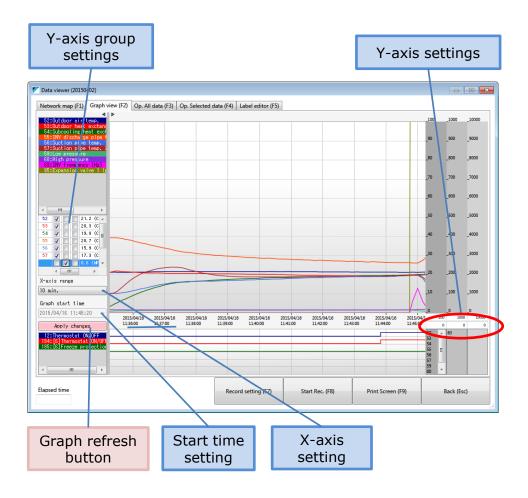
1. Operation data (graph)



• Position the mouse cursor over the graph to display the name of the corresponding data.

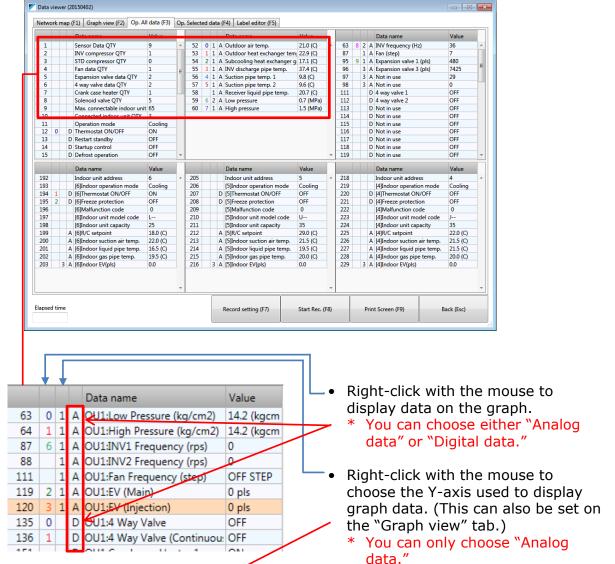
For your reference

EV pulse data for indoor units connected to BP unit is displayed in VRV indoor unit value range (0-2000pls), it is necessary to convert reading value to split indoor EV value range (0-480pls).



- X-axis setting (time display interval) Set the X-axis (time axis) display interval with the drop-down menu. (Choose from 10 min., 20 min., 30 min., and 60 min.)
- Y-axis settings Set the upper and lower limits for the Y-axis (analog data value). You can set three Y-axis values (Y1, Y2, and Y3, from the top).
- Y-axis group settings
 Set the Y-axis used to display graph data from 1 to 3.
- Once any setting has been changed, the color of the "Apply changes" button will change. Click the "Apply changes" button to apply the settings to the graph.





A: Analog data (Up to 16 can be displayed.) D: Digital data (Up to 6 can be displayed.)

Value

14.2 (kgcm

14.2 (kgcm

OFF STEP

0 pls

0 pls

Data name

2 1 A OU1:EV (Main)

1 A OU1:EV (Injection)

Α

63

87

88 111

119

120

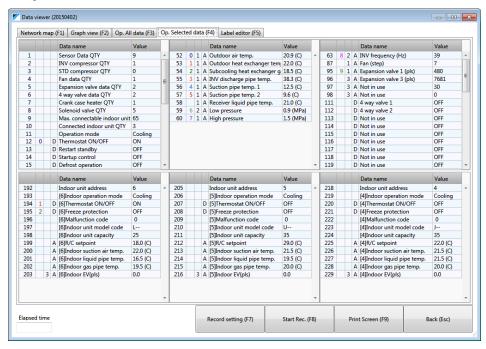
0 1 A OU1:Low Pressure (kg/cm2)

1 1 A OU1:High Pressure (kg/cm2)

A OU1:Fan Frequency (step)

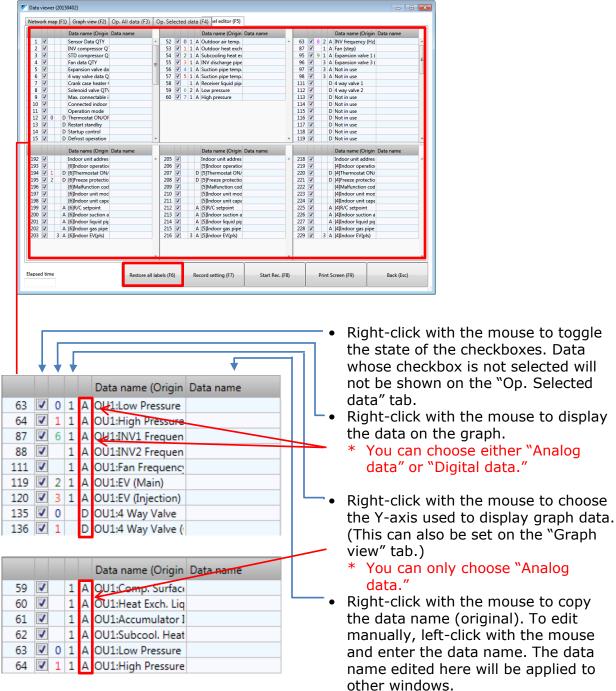
6 1 A OU1:IMV1 Frequency (rps) U1:INV2 Frequency (rps)

3. Op. Selected data



- The necessary data is extracted from all operation data and displayed.
- This tab is useful when you only need to display a subset of the data.
- You can choose which data to display on the "Label editor" tab.



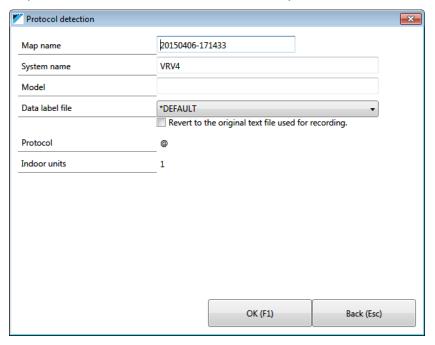


A: Analog data (Up to 16 can be displayed.) D: Digital data (Up to 6 can be displayed.)

- Click "Restore all labels (F6)" to delete all currently set data names.
- * This action cannot be undone.

5-8. Editing equipment information

You can change the map name, system name, and label definition file for registered equipment information. If you registered the information with the wrong label definition file, you can choose the correct label definition file to enable operation data to be recorded correctly.



- Change the label definition file.
 (For example, if you discover that the model name of equipment registered as "DEFAULT" is actually "LRDYP10C," changing the label definition file to "LRDYP10C" will allow operation data to be recorded correctly.)
- Select the "Revert to the original text file used for recording" checkbox will revert to the label definition file used to record data. You can change data label language by this option if you received data in other language which is different from the language option of your D-checker software.
- * The "IMPORTED_DATALABEL" label definition file is the default setting for legacy data.

Caution

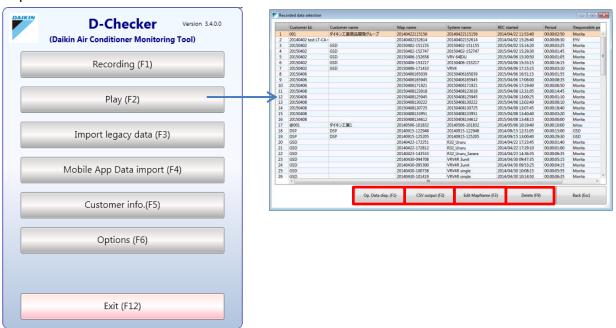
- Selecting the "Revert to the original text file used for recording" checkbox with the label definition file set to "IMPORTED_DATALABEL" and then clicking "OK" will cause "IMPORTED DATALABEL" to be deleted.
- Once you have deleted "IMPORTED_DATALABEL," the operation cannot be undone.
- If "IMPORTED_DATALABEL" is deleted, no label definition file will be selected. Click "Edit MapName" again and choose a label definition file.

6. Playing operation data

This chapter describes how to play previously recorded operation data.

6-1. Playing operation data

Click the "Play (F2)" button to display the "Recorded data selection" window. Following are descriptions of each button related to playback of recorded operation data.



[Op. Data disp. (F1)]

Plays the operation data that has been selected in the list.

[CSV output (F2)]

Outputs the data that has been selected in the list as a CSV file.

[Edit MapName (F3)]

Allows you to edit the equipment information for the operation data that has been selected in the list.

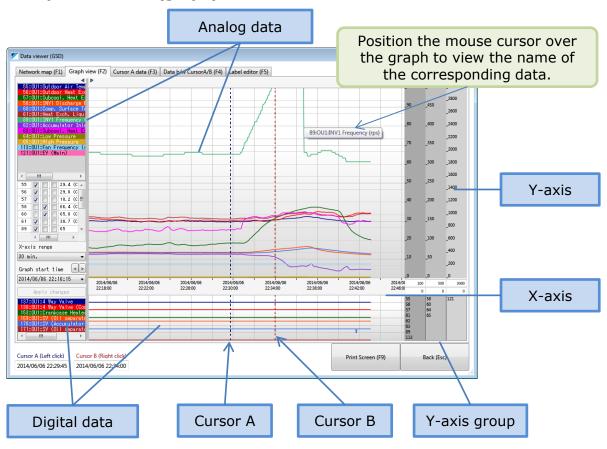
[Delete (F9)]

Deletes the operation data that has been selected in the list.

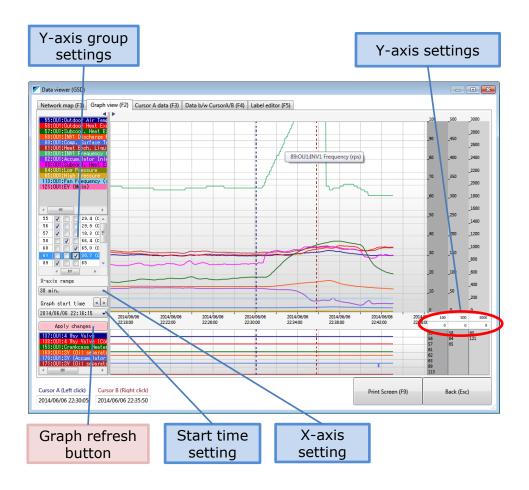
6-2. Displaying operation data

Operation data can be viewed using three methods: "Graph view (F2)," "Cursor A data (F3)," and "Data b/w CursorA/B (F4)."

1. Operation data (graph)

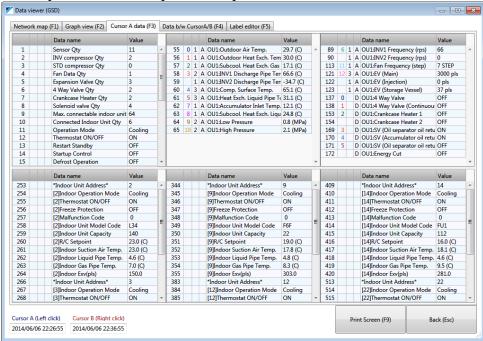


- Left-click with the mouse inside the graph to set the position of cursor A.
- Right-click with the mouse inside the graph to set the position of cursor B.
- Position the mouse cursor over the graph to display the name of the corresponding data.



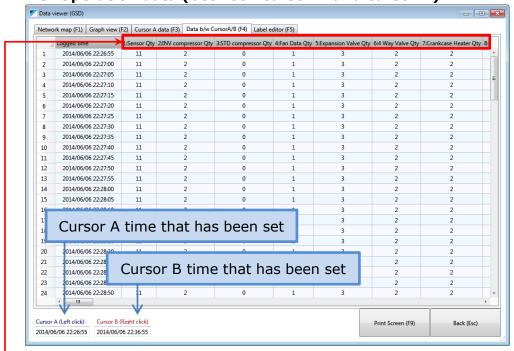
- X-axis setting (time display interval)
 Set the X-axis (time axis) display interval with the drop-down menu. (Choose from 10 min., 20 min., 30 min., and 60 min.)
- Y-axis settings Set the upper and lower limits for the Y-axis (analog data value). You can set three Y-axis values (Y1, Y2, and Y3, from the top).
- Y-axis group settings
 Set the Y-axis used to display graph data from 1 to 3.
- Start time setting
 Set the start time using the "<" and ">" buttons and the drop-down menu.
 (The drop-down menu provides a series of settings that are 5 minutes apart, and the "<" and ">" buttons move the time axis range by the set time.) For example, if the time-axis range were set to 30 minutes, the buttons would move the time backwards and forwards in 30-minute increments.
- Once any setting has been changed, the color of the "Apply changes" button will change. Click the "Apply changes" button to apply the settings to the graph.





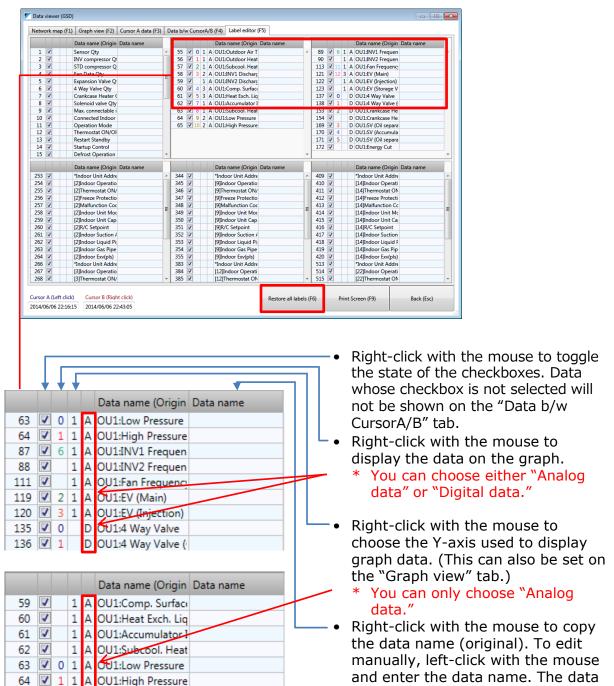
- The data at the position of cursor A will be shown.
- All recorded data will be shown.





- Operation data between cursor A and cursor B as set in the graph view will be shown on a time axis.
- Chose which data items to display on the "Label editor" tab.

<"Label editor" tab>



A: Analog data (Up to 16 can be displayed.)
D: Digital data (Up to 6 can be displayed.)

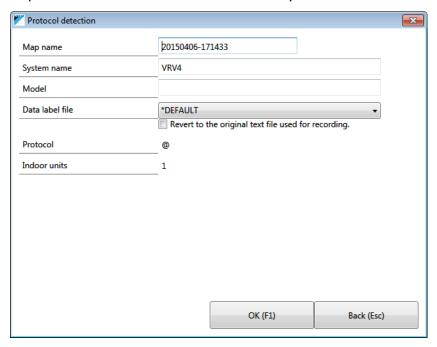
- Click "Restore all labels (F6)" to delete all currently set data names.
- * This action cannot be undone.

name edited here will be applied to

other windows.

6-3. Editing equipment information

You can change the map name, system name, and label definition file for registered equipment information. If you registered the information with the wrong label definition file, you can choose the correct label definition file to enable operation data to be recorded correctly.



- Change the label definition file.
 (For example, if you discover that the model name of equipment registered as "DEFAULT" is actually "LRDYP10C," changing the label definition file to "LRDYP10C" will allow operation data to be recorded correctly.)
- Select the "Revert to the original text file used for recording" checkbox will revert to the label definition file used to record data. You can change data label language by this option if you received data in other language which is different from the language option of your D-checker software.
- * The "IMPORTED_DATALABEL" label definition file is the default setting for legacy data.

Caution

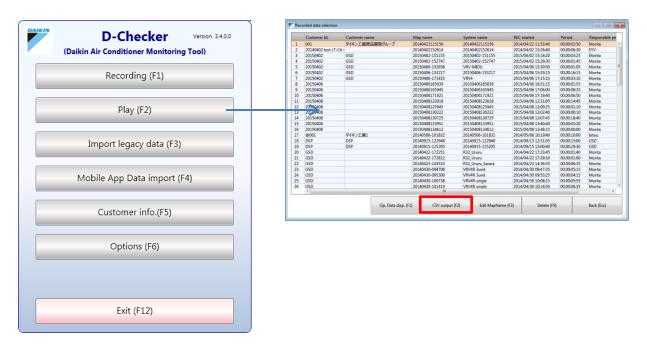
- Selecting the "Revert to the original text file used for recording" checkbox with the label definition file set to "IMPORTED_DATALABEL" and then clicking "OK" will cause "IMPORTED_DATALABEL" to be deleted.
- Once you have deleted "IMPORTED_DATALABEL," the operation cannot be undone.
- If "IMPORTED_DATALABEL" is deleted, no label definition file will be selected. Click "Edit MapName" again and choose a label definition file.

7. Outputting operation data as a CSV file

This chapter describes how to output operation data as a CSV file.

7-1. Outputting data as a CSV file

Click the "Play (F2)" button to display the "Recorded data selection" screen. Recorded operation data can be output as a CSV file.



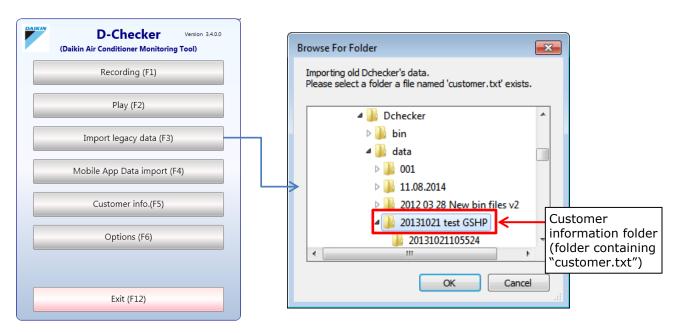
- Select the operation data you wish to output in the list and click the "CSV output (F2)" button.
- When the dialog box is displayed, select the save destination and click "OK."

8. Importing legacy data

This chapter describes how to import legacy data.

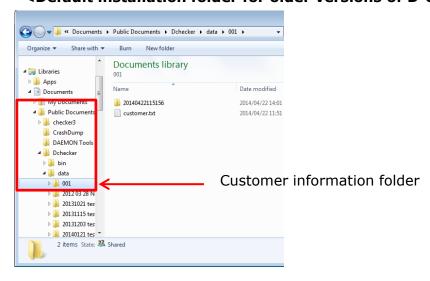
8-1. Procedure for importing legacy data

Click the "Import legacy data (F3)" button to import data recorded with Version 2.18 or earlier of the software.



- Select the folder containing the legacy data and click the "OK" button.
 *Verify that the file "customer.txt" exists in the folder.
- If the import operation is successful, the imported data will appear in the "Customer info." and "Data viewer" windows.
- The default installation folder for older versions of D-checker is "C:\u00e4Users\u00e4Public\u00e4Documents\u00e4D-checker."
- The "customer.txt" file can be found in the customer information folder.

<Default installation folder for older versions of D-checker>

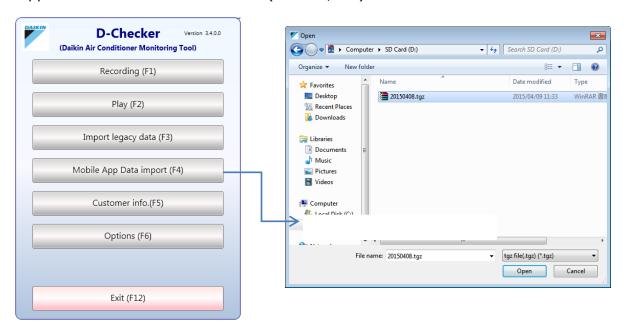


9. Importing mobile app data

This chapter describes how to import recorded data by mobile apps (Android, iOS).

9-1. Procedure for importing mobile app data

Click the "Mobile App Data Import (F4)" button to import data recorded by mobile app version of D-checker software (Android/iOS).



- Select the recorded file by mobile app and click the "Open" button.
- If the import operation is successful, the imported data will appear in the "Customer info." and "Data viewer" windows.
- The default file name of mobile app data is "YYYYMMDD.tgz"

Revision history

May 30, 2014 English version	Initial version	D-checker (Ver. 3.0.0.0)
July 22, 2014	1st revision	D-checker (Ver. 3.0.0.1)
September 18, 2014	2nd revision	D-checker (Ver. 3.0.0.1A)
May 12, 2015	3rd revision	D-checker (Ver. 3.2.0.2)
July 17, 2015	4th revision	D-checker (Ver. 3.2.0.4)
August 26, 2015	5th revision	D-checker (Ver. 3.2.0.4)
October 26, 2015	6th revision	D-checker (Ver. 3.2.0.4)
July 14, 2016	7th revision	D-checker (Ver. 3.3.0.3)
September 27, 2016	8th revision	D-checker (Ver. 3.4.0.0)

[Reference] Conversion table for expansion valve pulse value of indoor units being connected to BP unit

		Conv	version	table	("CHK"	'=LEFT:	value	listed	by check	er soft	tware, "l	EV"=RI	GHT: coi	nverte	d value)			
СНК	EV	CHK EV	СНК	EV	СНК	EV	СНК	EV	СНК	EV	СНК	EV	СНК	EV	СНК	EV	СНК	EV
0	0	200 60	295	120	419	180	586	240	752	300	1016	360	1731	420	2178	480	2468	540
3	1	202 61	297	121	422	181	588	241	755	301	1029	361	1741	421	2183	481	2468	541
7	2	203 62	298	122	425	182	591	242	758	302	1042	362	1750	422	2188	482	2468	542
11	3	205 63	300	123	428	183	594	243	760	303	1056	363	1760	423	2193	483	2468	543
14	4	207 64	302	124	430	184	597	244	763	304	1069	364	1769	424	2199	484	2468	544
18	5	208 65	303	125	433	185	600	245	766	305	1082	365	1778	425	2204	485	2468	545
22	6	210 66	305	126	436	186	602	246	769	306	1095	366	1788	426	2209	486	2468	546
25	7	211 67	306	127	439	187	605	247	771	307	1108	367	1797	427	2215	487	2468	547
29	8	213 68	308	128	442	188	608	248	774	308	1122	368	1806	428	2220	488	2468	548
33	9	214 69	310	129	444	189	611	249	777	309	1135	369	1816	429	2225	489	2468	549
37	10	216 70	311	130	447	190	613	250	780	310	1148	370	1825	430	2230	490	2468	550
40	11	218 71	313	131	450	191	616	251	782	311	1161	371	1835	431	2236	490	2468	551
	12	-	—	-	-	-	_					_		-		_	—	552
44	-	-	314	132	453	192	619	252	785	312	1174	372	1844	432	2241	492	2468	
48	13	221 73	316	133	455	193	622	253	788	313	1188	373	1853	433	2246	493	2468	553
51	14	222 74	317	134	458	194	624	254	791	314	1201	374	1863	434	2252	494	2468	554
55	15	224 75	319	135	461	195	627	255	794	315	1214	375	1872	435	2257	495	2468	555
59	16	226 76	321	136	464	196	630	256	796	316	1227	376	1881	436	2262	496	2468	556
62	17	227 77	322	137	466	197	633	257	799	317	1240	377	1891	437	2267	497	2468	557
66	18	229 78	324	138	469	198	636	258	802	318	1254	378	1900	438	2273	498	2468	558
70	19	230 79	325	139	472	199	638	259	805	319	1267	379	1910	439	2278	499	2468	559
74	20	232 80	327	140	475	200	641	260	807	320	1280	380	1919	440	2283	500	2468	560
77	21	234 81	329	141	478	201	644	261	810	321	1293	381	1928	441	2288	501	2468	561
81	22	235 82	330	142	480	202	647	262	813	322	1306	382	1938	442	2294	502	2468	562
85	23	237 83	332	143	483	203	649	263	816	323	1320	383	1947	443	2299	503	2468	563
88	24	238 84	333	144	486	204	652	264	819	324	1333	384	1956	444	2304	504	2468	564
92	25	240 85	335	145	489	205	655	265	821	325	1346	385	1966	445	2310	505	2468	565
96	26	241 86	336	146	491	206	658	266	824	326	1359	386	1975	446	2315	506	2468	566
99	27	243 87	338	147	494	207	661	267	827	327	1372	387	2003	447	2320	507	2468	567
103	28	245 88	340	148	497	208	663	268	830	328	1386	388	2009	448	2325	508	2468	568
107	29	246 89	341	149	500	209	666	269	832	329	1399	389	2014	449	2331	509	2468	569
110	30	248 90	343	150	503	210	669	270	835	330	1412	390	2019	450	2336	510	2468	570
114	31	249 91	339	151	505	211	672	271	838	331	1425	391	2024	451	2341	511	2468	571
118	32	251 92	342	152	508	212	674	272	841	332	1438	392	2030	452	2347	512	2468	572
122	33	253 93	345	153	511	213	677	273	843	333	1452	393	2035	453	2352	513	2468	573
125	34	254 94	347	154	514	214	680	274	846	334	1465	394	2040	454	2357	514	2468	574
129	35	256 95	350	155	516	215	683	275	849	335	1478	395	2046	455	2362	515	2468	575
133	36	257 96	353	156	519	216	685	276	852	336	1491	396	2051	456	2368	516	2468	576
136	37	259 97	356	157	522	217	688	277	855	337	1504	397	2056	457	2373	517	2468	577
140	38	260 98	358	158	525	218	691	278	857	338	1518	398	2061	458	2378	518	2468	578
144	39	262 99	361	159	527	219	694	279	860	339	1531	399	2067	459	2384	519	2468	579
147	40	264 100	364	160	530	220	697	280	863	340	1544	400	2072	460	2389	520	2468	580
151	41	265 101	367	161	533	221	699	281	866	341	1553	401	2077	461	2394	521	2468	581
155	42	267 102	369	162	536	222	702	282	868	342	1563	402	2083	462	2399	522	2468	582
159	43	268 103	372	163	539	223	705	283	871	343	1572	403	2088	463	2405	523	2468	583
162	44	270 104	375	164	541	224	708	284	874	344	1581	404	2093	464	2410	524	2468	584
166	45	272 105	378	165	544	225	710	285	877	345	1591	405	2098	465	2415	525	2468	585
170	46	273 106	381	166	547	226	713	286	880	346	1600	406	2104	466	2420	526	2468	586
173	47	275 107	383	167	550	227	716	287	882	347	1610	407	2109	467	2426	527	2468	587
177	48	276 108	386	168	552	228	719	288	885	348	1619	408	2114	468	2431	528	2468	588
181	49	278 109	389	169	555	229	722	289	888	349	1628	409	2120	469	2436	529	2468	589
184	50	279 110	392	170	558	230	724	290	891	350	1638	410	2125	470	2442	530	2468	590
186	51	281 111	394	171	561	231	727	291	893	351	1647	411	2130	471	2447	531	2468	591
188	52	283 112	397	172	564	232	730	292	896	352	1656	412	2135	472	2452	532	2468	592
189	53	284 113	400	173	566	233	733	293	924	353	1666	413	2141	473	2457	533	2468	593
191	54	286 114	403	174	569	234	735	294	937	354	1675	414	2146	474	2463	534	2468	594
192	55	287 115	406	175	572	235	738	295	950	355	1685	415	2151	475	2468	535	2468	595
194	56	289 116	408	176	575	236	741	296	963	356	1694	416	2156	476	2468	536	2468	596
195	57	291 117	411	177	577	237	744	297	976	357	1703	417	2162	477	2468	537	2468	597
197	58	292 118	414	178	580	238	746	298	990	358	1713	418	2167	478	2468	538	2468	598
199	59	294 119	417	179	583	239	749	299	1003	359	1722	419	2172	479	2468	539	2468	599
			-		-		•	-	-		-		-		•		•	