

# Ver. 2.0

February 14, 2011

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# 1 Overview

*"Selection Tool 2010"* allows you to select a device such as an outdoor unit or indoor unit of a Super Modular Multi system, Mini-SMMS system, or BMS system. Using this tool, you can select a pipe according to the piping rules, automatically select the indoor unit performance according to the requirements, and automatically create piping/wiring diagrams and BMS system wiring diagrams. The selection results can be exported as an Excel file for easy secondary use.

# 2 Operating Environment

The following shows the ideal operating environment for this software.

Item	Specifications
PC	Windows 2000 or XP compliant
Operating System	Windows 2000 with SP4, XP (Home or Professional) with SP1 or later
Microsoft Excel	Excel 2000 or later

# 3. Basic Operations of Selection Tool 2010

- 3.1. Features of Selection Tool 2010
- 3.1.1. Managing a project

You can manage project data. This feature allows you to check previous projects or make modifications to the air-conditioner lineup.



Figure 3.1-1

#### 3.1.2. Selecting an indoor unit/outdoor unit

You can select an indoor unit/outdoor unit to use. In addition, you can automatically select an indoor unit according to indoor air-conditioning load data, and an outdoor unit corresponding to the selected indoor unit.

Indoor Unit Data - Teshiba Building			)e	*
Elle 5.01 (Jook Helle				
B P R & + + 1				
Index Unit Model Name Select				
				-
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	THE MARY OF DI	10121	-	-
=				
Didox Unit Data				
No.	1			
Mishel Name	4-war Ar Discharge Cassette Type MMU-AP0002H)		1	1
Indoor Unit Name	A0001			1
Room Name			4	
Roor Name			-	
Indear Unit Selection Method	IT AUto			
Capacity Rank (*)	MMU APOOREH	+	- 4	
Group Control	Indvidual	٠	-	
Group Settings	Cartren.	1		
Induor Cooling Dry Illub Temprature (*)		27.0	0	
Indoor Cooling Wet Built Temporture (*)		19.B	C	
Indoor Heating Dry Bulb Temprature (*)		20.0	C	
Cooling Cap. / Corrected Cap. / Required Cap. (*)	28/28/	8.0	IW.	
Cooling Semilale Cap. / Consciled Cap. / Networkd Cap. (*)	2.0/2.0/	5.5	£W	
Indoor Unit Detailed Information				
No. Model Name Installation Manual Owners	Manual Design Manual	Da	ta Boo	
(*) is completery nout ites.				

Figure 3.1-2

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Ele Edit Inci Hele		
(局) P. P. 体(★+)■/		
Perhiperant Cycle Number	and the second se	1
haltigerant Cycle Marie	04/1003	
Unit Type (*)	SWACH	
Capacity (*)	Revenue and Rado Phatemark too	
Max Selection(%) (*)	100	-
Winng System Nerve		
Outdoor Unit Poetlan	F ADONO C BOROW	
Man Pele Length (Actual) (*)	1.0	m
Nan Rise Length (Risuwahrit) (*)	1.0	m
M/1 44470194475-E		611
MAY ANNOUNTE:		6.11

Figure 3.1-3

#### 3.1.3. Creating a piping diagram

You can automatically select a pipe and joint, and create the piping diagram according to the corresponding indoor unit and outdoor unit. The joint can be changed.



Figure 3.1-4

#### 3.1.4. Exporting created data

Created data can be exported in Excel/CAD/PDF format as follows:

No	Content		Format			
INU			CAD	PDF		
1	Communication/Power wiring/Piping diagram of indoor unit/outdoor unit/remote controller	ОК	ОК	ОК		
2	Piping diagram of indoor unit/outdoor unit	OK	OK	OK		
3	Communication/Power wiring diagram of central/BMS system	OK	OK	OK		
4	Device list (outdoor unit/indoor unit/joint/remote controller/BMS system)		ОК	ОК		
5	Hyperlink to the related manual of the selected device	OK				

- 3.2. Starting/Exiting Selection Tool 2010
- 3.2.1. Starting Selection Tool 2010

Use the desktop icon or Windows menu.

- 1. Start Section Tool 2010.
  - Desktop icon
     Double-click the desktop icon.
  - Windows menu
     Select [Start] > [All Programs] > [Toshiba] > [Section Tool 2010] > [Section Tool 2010].
- 2. The startup screen appears.



Figure 3.2-1

3. Section Tool 2010 Startup Complete

The startup screen disappears, and the main screen appears. The Section Tool 2010 startup is now complete, and the software can be operated.



Figure 3.2-2

3.2.2. Exiting Selection Tool 2010

Click the [Close] button or select [ $\underline{F}$ ile] > [ $\underline{E}\underline{x}$ it]. The save confirmation dialog box appears before you exit the software.

9.	Mai	in Men	u					-	. 🗆 🗙
F	ile €	Edit Import Export Exit	Tools	Help	Modified Date	[Exit] button	roject Name stomer namer person in	Address	<b>A</b>



The following flowchart shows the process of selecting indoor/outdoor units, creating a piping diagram, and selecting central control devices with Selection Tool 2010:

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## 4. Using Selection Tool 2010

Proceed with the wizard. When you have finished specifying the necessary conditions on each screen, press the [Next Step] button to proceed. To edit data entered on the previous screen, press the [Back] button to return to the previous screen.

#### 4.1. Creating a New Project

Click the [Create Project] button or select [ $\underline{E}$ dit] > [Create Project].

🕘 Main Menu			_ 🗆 🔀
File Edit Tools Help			
: ← → 🖹 » ħ   X   I			
Version 🥄 Create Date	Modified Date	ling Informa oject Numb roject Name stomer namer person in	Address 📃 🔺
	[Create	e Project] button	

Figure 4.1-1

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File	Edit	Tools Help	_		
: 🦛 🛛		Back Alt+Left			
Ve	•	Next Step Alt+Right	ied Date	Jing Informa oject Numb Project Name stomer namer person in	Address 🔺
		Create Project			
	2	Edit Project			
	Ð	Copy Project			
	×	Delete Project			

Figure 4.1-2

The project information entry screen opens. Enter/Select each item, then click the [Save] button or select [File] > [Save] to save the entered project information.

	[Save] butto	on		
THE .	1			Sister Manadon
	1			Cutdoot ant Q ty
GealedDate	Name and Carling and Carl	-11 CM		Outplace unit light O'ty 0
10000	Provide state of the second state of the secon	1000		V-solut Offy D
EDR DADA	denn ran en	111 ton.		# Header tranch O/ty D
The statements	an com 10-	Free Land		S Header branch Q'ty D
standing to o marcon	the same of ground it.	211-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		Additional Refregalant, Charge amount, 10,000
Designed to be a lot	1			SM5 system X4/A
COMPACT PROPERTY.	10			North New York New Yo
Project Name	Tochba Building		_	
	- Ministration			
Outonei nane	Tishiba Carrier Epiporation		+	and the second se
	-			111
Outone person in charge	Teshiba 30'e bu			
				Device Information
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				Sectors name
				Refigerant Cycle name
Intelev	Tachiba Carrier Corporation			Outdoot unit Q ty
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Annual states a Rower	law interaction			8 Header branch Q/ty
Conversionand mate	[2013- 1-30 ( 200 )	-24		Additional Refregrant Charge amount
Descent of the re-	Turbha hou			and the second second second
and the second sec			-	
	Test Model			
Notae				171

Figure 4.1-3

Project Informat	ion -	
File Help		
Save	Coli+S	
Reburn to Ma	n Menu	System Information

Figure 4.1-4

Item	Method	Note
Created Date	Entered/Selected by user	Can be edited when the [Edit] checkbox is selected
Edit Date	Entered/Selected by user	Can be edited when the [Edit] checkbox is selected
Building Information	Selected by user	If "Existing" is selected, select "Replacement" or "Addition to a building"
Project Number	Entered by user	
Project Name	Entered by user	Entry required
Customer name	Entered/Selected by user	Entry required Existing data can be selected from the drop-down list
Customer person in charge	Entered/Selected by user	Existing data can be selected from the drop-down list
Address	Entered by user	
Installer	Entered/Selected by user	Existing data can be selected from the drop-down list
Installation Date	Selected by user	
Commissioning Date	Selected by user	
Person in charge	Entered/Selected by user	Existing data can be selected from the drop-down list
Notes	Entered by user	

#### 4.2. Editing Project Data

Select a project to edit, then click the [Edit Project] button or select [ $\underline{E}$ dit] > [Edit Project]. For how to edit data, see "4.1 Creating a New Project".

🕘 Main Menu			_ 🗆 🔀					
<u>Eile E</u> dit <u>T</u> ools <u>H</u> elp								
Version Create Date	[Edit Project] button	uilding Information Project Number	Project Name *					
1 Sunday, January 30, 2011 6:25:58 PM	1 Sunday, January 30, 2011 6:25:58 PM Ne	ew 1	Tosihba Buildin					
	\	- Select a project						

Figure 4.2-1

🕘 Ma	in Me	enu						_ 🗆 🔀
Eile	Edit	<u>T</u> ools	Help	_				
: 🗇		<u>B</u> ack	Alt+Left					
Vorci	-	<u>N</u> ext Step	Alt+Right		Modified Date	Puilding Information	Project Number	Project Name
1		⊆reate Project		:58 PM :	Sunday, January 30, 2011 6:25:58 PM	New	1	Tosihba Buildin
	0	<u>E</u> dit Project	t					
	1	Copy Proje	ct					
	×	<u>D</u> elete Proj	iect					

Figure 4.2-2

When you have finished editing a project, select a project to edit data for, then click the [Next Step] button or select [ $\underline{E}$ dit] > [Next Step] to proceed. Alternatively, double-click the project.

🔋 Ma	in Menu				
Eile	Edit Heol [Next Step] button				
: @					
Versio	n Create Date	Modified Date	Building Inf	ormation Project Numbe	er Project Name 🔶
1	Sunday, January 30, 2011 6:25:58 PM	Sunday, January 30, 2011 6:25:58 PM	1 New	1	Tosihba Buildin
		<b>X</b>			
				Select a proje	ect

#### Figure 4.2-3

🖲 Ma	in Me	nu								_ 🗆 🔀
Eile	Edit	Tools	Help	_						
: 🦛 🛚		<u>B</u> ack	Alt+Left							
Vorcio	⇒	<u>N</u> ext Step	Alt+Right			Modified Date		Ruilding Information	Project Number	Droject Name 🔺
1		⊆reate Pro	ject	:58 PM	Sunday,	January 30, 2011 6:	25:58 PM	New	1	Tosihba Buildir
	0	<u>E</u> dit Project	t							
		Copy Proje	ct							
	×	<u>D</u> elete Proj	ect							

Figure 4.2-4

🔋 Main Menu					_ 🗆 🔀
<u>File E</u> dit <u>T</u>	ools <u>H</u> elp				
i 🔶 🌳 i 🖹 🖡	A A A A A A A A A A A A A A A A A				
Version	Create Date	Modified Date	Building Information	Project Number	Project Name *
1 Sunday	/, January 30, 2011 6:25:58 PM	Sunday, January 30, 2011 6:25:58 PM	New	1	Tosihba Buildir
			Double-cli	ck a project	
		<b>-</b>			

Figure 4.2-5

# 4.3. Selecting a System Selection Method

There are two ways of selecting a system: "Wizard Type selection" and "Drag & Drop Drawing". After selecting a system selection method, click the [Next Step] button to proceed.

🕘 System selection method - To	sihba B 💶 🗖 🔀	
<u>File E</u> dit <u>T</u> ool <u>H</u> elp		
	[Next Step] but	ton
Wizard Type selection		
C Drag Drop Drawing		

Figure 4.3-1

The operations differ depending on the selection method. When "Wizard Type selection" is selected, see "5 Wizard Type Selection". When "Drag & Drop Drawing" is selected, see "6 Drag & Drop Drawing".

- 5. Wizard Type Selection
- 5.1. Setting the Outdoor Temperature Information

Enter the "Cooling Dry Bulb Temperature" and "Heating Wet Bulb Temperature" or select them using the spin buttons. When you have finished setting the outdoor temperatures, click the [Next Step] button to proceed.

e Edit Iool Help		
cling Dry Bub Temperature	[Next Step] button	Bub Temperature
35.0	-	6.0
55.0	-	0.0

Figure 5.1-1

5.2. Adding a New Indoor Unit

To add a new indoor unit, click the [Create Indoor Unit] button or select [<u>E</u>dit] > [Create Indoor Unit]. When you have finished adding indoor units, click the [Next Step] button to proceed.



Figure 5.2-1

3 Ind	oor L	Jnit List - Tosi	ihba Building								_	
Eile	Edit	<u>T</u> ool <u>H</u> elp		_								
		<u>B</u> ack	Alt+Left	6 4								
No.	-	<u>N</u> ext Step	Alt+Right	_	Floor	0	For instant UD	Nou m Contro	verue Cetting	< DD	C WD	
NU.		⊆reate Indoor U	nit		FIUUr	Auto	Equivalent HP	sroup contro	roup securiç	CDB	CWB	HL
	2	<u>E</u> dit Indoor Unit										
		C <u>o</u> py Indoor Uni	t									
		Multiple Copy In	door Unit									
	×	<u>D</u> elete Indoor Ur	nit									
	Ŷ	Up	Alt+Up									
	♣	Do <u>w</u> n	Alt+Down									

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Figure 5.2-2

Clicking the [Create Indoor Unit] button displays the indoor unit data entry screen. On this screen, select an indoor unit model by clicking the icon, and enter indoor unit data such as the name or capacity. When you have finished entering data, click the [Save] button or select [File] > [Save] to save the data. The indoor unit data will automatically be added to the indoor unit list.

Indoor Unit Data - Tosihba Building	[Save	] button	- 6		
Indoor Unit Model Name Select		-	<u> </u>	Indoor	unit model icons
				1.5	
Indoor Unit Data					Indoor unit data
No.	1				
Model Name	4-way Ar MMU-APO	4-way Air Discharge Cassette Type( MMU-AP0272H)			
Indoor Unit Name	AC001	AC001 -			
Room Name	Meeting R	Meeting Room			
Roor Name	1F	1F			
Indoor Unit Selection Method	□ Auto	l'Auto -			
Capacity Rank (*)	MMULAPO	(72H			
Group Control	Header		<u> </u>	+	
Indoor Unit Detailed Information					Indoor unit documents
No. Model Name Installation Manual	Owners Manual	Design Manual	Ciata Br	xok	
4					
(*) is compulsory input item.				.12	

Figure 5.2-3

Indoor Unit Data - Tosih	ba Building	
File Edit Tool Help	_	
🔚 Save Ctrl+S		
I L Close		

Figure 5.2-4

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On this screen, you can display a document related to the selected indoor unit. Select a file name in [Indoor Unit Detailed Information] to display the linked file.

The following table shows settings that can be entered:

Item		Method	Note
No.		Automatically	
		entered	
Model Name		Selected by	Entry required
		user	Select an indoor unit model icon
Indoor Unit Name		Entered by user	Entry required
Room Name		Entered by user	
Floor Name		Entered by user	
Indoor Unit Selection	on Method	Selected by	If checked, the model name cannot be
		user	selected
Capacity Rank		Selected by	
		user	
Group Control		Selected by	
		user	
Group Settings		Selected by	
		user	
Indoor Cooling Dry	Bulb Temperature	Entered by user	
Indoor Cooling We	t Bulb Temperature	Entered by user	
Indoor Heating Dry	Bulb Temperature	Entered by user	
Cooling Cap. / Cor	rected Cap. /	Entered by user	Entry required
Required Cap.	·		
Cooling Sensible C	ap. / Corrected Cap. /	Entered by user	Entry required
Required Cap.			
Heating Cap. / Cor	rected Cap. /	Entered by user	Entry required
Required Cap.			
Piping length from	Outdoor (Equivalent)	Entered by user	Entry required
Piping length from	Outdoor (Actual)	Entered by user	Entry required
Piping length from	Joint (Equivalent)	Entered by user	
Piping length from	Joint (Actual)	Entered by user	Entry required
Piping length from	FS-Unit (Actual)	Entered by user	
Height difference (	Lowest/Highest	Entered by user	
indoor Unit)	-		
Pipe Size (Gas/Liq	uid)	Entered by user	
Remote Controller	Select 1	Selected by	Selectable remote controllers are displayed
		user	
Remote Controller Select 2		Selected by	Selectable remote controllers are displayed
		user	
Heater Select		Selected by	
		user	
	Select	Selected by	If checked, the type cannot be selected
Humidifier		user	
	Туре	Selected by	
		user	

#### 5.3. Selecting a Capacity Rank

There are two ways of selecting an indoor unit capacity rank: Manual selection and Automatic selection in which you enter the required capacity (kW) and the rank is automatically selected according to the required capacity.

① Manual selection

Select a model that can be selected for the selected indoor unit from the model list.

#### Automatic selection

Select the [Auto] checkbox in Indoor Unit Selection Method. Enter the Indoor Cooling Dry Bulb Temperature, Indoor Cooling Wet Bulb Temperature, Indoor Heating Dry Bulb Temperature, and the kW data for Cooling Cap. / Corrected Cap. / Required Cap., Cooling Sensible Cap. / Corrected Cap. / Required Cap., and Heating Cap. / Corrected Cap. / Required Cap. An appropriate indoor unit model is automatically selected according to this data and the outdoor unit temperature conditions.

#### 5.4. Editing Indoor Unit Data

Select an indoor unit from the indoor unit list, then click the [Edit Indoor Unit] button or select [ $\underline{E}$ dit] > [Edit Indoor Unit]. The Indoor Unit Data screen appears.

🕘 Ine	door Unit List - T	osihba Build	ling							_			
Eile	<u>E</u> dit <u>T</u> ool <u>H</u> e	lp		[E	Edit Ind	door Unit] bu	tton						
No.	Model	Name	Room	Floor	Auto	Equivalent HP	iroup Contro	roup Settin <u>c</u>	C DB	C WB	НC		
1	MMU-AP0272H	AC001	Meeting R	1F	Г	3.00	Header		27.0	19.0			
2	MMU-APU272H	ACUU2				3.00	Individual		27.0	19.0			
						$\sim$	— Se	elect an in	door unit				

Figure 5.4-1

Ele	Edit	Tool Help		17								
8		Back	Alt+Left	14								
	-	Next Step	AK+Right	1.1	100000	1994		2000000000		1000	With the second	-
No.	ED:	Greate Indoor U	hit	m	Floor	ALITO .	Equivalent HP	Boup Contro	roup Setting	CDB	C MB	HE
1	10	Edit Indoor Unit		ng R	1F	F	3.00	Header		27.0	19.0	- 3
2	ch	Copy Indoor Uni	ł		····	F	3.00	Individual		27.0	19.0	- 3
		Multiple Copy In	door Unit									
	×	Epilete Indoor U	nt.									
	+	WP .	46114									
	10.1	Dreven	At+Down									

Figure 5.4-2

Alternatively, double-click the indoor unit name.

If an indoor unit already linked to an outdoor unit is edited and the outdoor unit capacity is exceeded, the link will be automatically removed.

For how to edit, see "5.2 Adding a New Indoor Unit" and "5.3 Selecting a Capacity Rank".

#### 5.5. Copying Indoor Unit Data

Select an indoor unit from the indoor unit list, then click the [Copy Indoor Unit] button or select [<u>E</u>dit] > [Copy Indoor Unit]. The indoor unit will be automatically copied to the indoor unit list, and the No. of the added indoor unit will be automatically increased by one.

) Inc	loor Unit List - T	osihba Builo	fing	_ [	[Conv	Indoor   Init] k	outton				
Eile	<u>E</u> dit <u>T</u> ool <u>H</u> e	p 🖌			Copy		Julion				
	🔶 • 🌳 • 🗎 🛛	) 🗿 🗎	×   🕀 🖪								
No.	Model	Name	Room	Floor	Auto	Equivalent HP	iroup Contro	roup Settin <u>c</u>	C DB	C WB	нс
1	MMU-AP0272H	AC001	Meeting R	1F	Г	3.00	Header		27.0	19.0	
2	MMU-AP0272H	AC002				3.00	Individual		27.0	19.0	
						$\sim$					
						$\sim$	Se	lect an ind	oor unit		

Figure 5.5-1

	🕘 Ind	loor l	Jnit List - Tosil	nba Building								_	
Γ	File	Edit	Tool Help										
		$\Leftrightarrow$	Back	Alt+Left	4								
		\$	Next Step	Alt+Right									
	No.		Create Indoor Un	it	m	Floor	Auto	Equivalent HP	iroup Contro	roup Settin <u>c</u>	C DB	C WB	ΗC
	1	0	Edit Indoor Unit		ng R	1F	Г	3.00	Header		27.0	19.0	
	2	Đ	Copy Indoor Unit					3.00	Individual		27.0	19.0	_
			Multiple Copy Ind	oor Unit									
		×	Delete Indoor Uni	it									
		1	Up	Alt+Up									
		♣	Down	Alt+Down									

Figure 5.5-2

5.6. Copying Data of Multiple Indoor Units

Select indoor units from the indoor unit list, then click the [Multiple Copy Indoor Unit] button or select  $[\underline{E}dit] > [Multiple Copy Indoor Unit].$ 

🖲 In File	door Unit List - To Edit Iool Hel	osihba Build P	fing ×   ↑ ₹	7	[Mul	Itiple Copy In					
No.	Model	Name	Room	Floor	Auto	Equivalent HP	iroup Contro	roup Settin <u>c</u>	C DB	C WB	нс
1	MMU-AP0272H	AC001	Meeting R	1F		3.00	Header		27.0	19.0	
2	MMU-AP0272H	AC002				3.00	Individual	elect indo	27.0 or units	19.0	

Figure 5.6-1

		iba bunung								-	
Edit	Tool Help										
<b>(</b>	Back	Alt+Left	1-4	7							
	Next Step	Alt+Right									
	Create Indoor Un	it	m	Floor	Auto	Equivalent HP	iroup Contro	roup Settin <u>c</u>	C DB	C WB	НC
0	Edit Indoor Unit		ng R	1F	Г	3.00	Header		27.0	19.0	
È	Copy Indoor Unit					3.00	Individual		27.0	19.0	_
	Multiple Copy Ind	oor Unit									
×	Delete Indoor Uni	t									
î	Up	Alt+Up									
₽	Down	Alt+Down									
		Edit Tool Help Back Next Step Create Indoor Unit Copy Indoor Unit Copy Indoor Unit Delete Indoor Uni Up Down	Edit Tool Help  Back Alt+Left  Next Step Alt+Right  Create Indoor Unit  Copy Indoor Unit  Copy Indoor Unit  Multiple Copy Indoor Unit  Delete Indoor Unit  Up Alt+Up  Down Alt+Down	Edit Tool Help  Back Alt+Left Next Step Alt+Right  Create Indoor Unit Copy Indoor Unit Copy Indoor Unit Delete Indoor Unit Up Alt+Up Down Alt+Down	Edit     Tool     Help       Back     Alt+Left       Next Step     Alt+Right       Create Indoor Unit     m       Edit Indoor Unit     ng R IF       Copy Indoor Unit     ng R IF       Multiple Copy Indoor Unit     ng R IF       Delete Indoor Unit     ng R IF       Up     Alt+Up       Down     Alt+Down	Edit     Tool     Help       Back     Alt+Left     Image: Constraint of the state of t	Edit       Tool       Help         Back       Alt+Left       Image: Constraint of the second secon	Edit       Tool       Help         Back       Alt+Left         Next Step       Alt+Right         Create Indoor Unit       m         Edit Indoor Unit       nq R 1F         Copy Indoor Unit       3.00         Multiple Copy Indoor Unit       3.00         Delete Indoor Unit       up         Alt+Up         Down       Alt+Down	Edit Tool Help   Back Alt+Left   Next Step Alt+Right   Create Indoor Unit   Edit Indoor Unit   Copy Indoor Unit   Multiple Copy Indoor Unit   Delete Indoor Unit   Up   Alt+Up   Down   Alt+Down	Edit       Tool       Help         Image: Step Step Step Step Step Step Step Step	Edit Tool Help   Hext Step Alt+Left   Next Step Alt+Right   Create Indoor Unit   Edit Indoor Unit   Copy Indoor Unit   Multiple Copy Indoor Unit   Delete Indoor Unit   Up   Alt+Up   Down   Alt+Down



The Copy Count screen appears. Enter the number of units or select it using the spin buttons, then click the [OK] button. The indoor units in the entered/selected number will be automatically copied to the indoor unit list, and the No. of the added indoor units will be automatically increased by one.

Сору	
Copy Count	1÷
ок	Cancel

Figure 5.6-3

#### 5.7. Adding a New Outdoor Unit

To add a new indoor unit, click the [Create Outdoor Unit] button or select [ $\underline{E}$ dit] > [Create Outdoor Unit]. When you have finished adding outdoor units and linking indoor units to outdoor units, click the [Next Step] button to proceed.

Outricor 1	Comparature Info	mation		2211/2010		IC	eate (	Outdoo	or Unit	button		
COLUMN 1	reinperatore tri t	(ROUVE)	-				cate	Juluoc		Junion	_	
Cooling	2 DB(C) ⊂	35.0		Heating	∦WB(C) C	9	i.0					
Outdoor L	Init List											
No.	Model	cant	Cycle N	Name	Stre(kW)A	uto 4ax S	dection%	Connect%	octed in	door   Winny	Syster	Outdoor I
•												
4.	d Indoor Units				_		electable	Indoor Units	6			_
4	d Indoor Units	T ARRES					ielectable	Indoor Units	1. 1.		127	-
4 Connecte	d Indoor Units Model	Name	Room	Floor	Auto		ielectable NO;	Indoor Units Model	Name	Room	Floor	Auto Equi-
• Connecte No.	d Indoor Units Model	Name	Room	Floor	Auto		ielectable NO,	Indoor Units Model N-AP0272	Name H ACOD1	Room Meeting Roo	Floor m 1F	Auto Equiv
• Connecte ND	d Indoor Units Model	Name	Room	Floor	Auto		ielectable NO. 1 MM 2 MM	Indoor Units Model NJ-AP02721	Name H ACOD1 H ACOD2	Room Meeting Roo	Floor m 1F	Auto Equi-
• ] Connecte NG.	d Indoor Units Model	Name	Room	Floor	Auto		ielectable NO, 1 MM 2 MM	Indoor Units Model IU-AP02721	Name H ACOD1 H ACOD2	Room Meeting Roo	Floor m 1F	Auto Equiv
4] Convecte NO.	d Indoor Units Model	Name	Room	Floor	Auto		ielectable NO, 1 MM 2 MM	Indoer Units Model U-AP02721	Name H ACODI H ACODI	Room Meeting Roo	Floor m 1F	Auto Eq.av
+ I Convecte No.	d Indoor Units Model	Name	Room	Floor	Auto		ielectable No. 2 MM	Indoor Units Model N-AP02721 U-AP02722	Name H ACODI H ACODI	Room Meeting Roo	Floor m 1F	Auto Equiv
+ Convecte No.	d Indoor Units Model	Name	Room	Floor	Auto		ielectable No. 2 MM	Indoor Units Model N-AP02721	Name H ACOOL H ACOOL	Room Meeting Roo	Floor m 1F	Auto Equiv
4 ] Correcte NO	d Indoor Units Model	Name	Room	Floor	Auto	<u>2</u>	ielectable No. 2 MM	Indoor Units Model U-AP02721 U-AP02721	Name H ACOOL H ACOOL	Room Meeting Roo	Floor m 1F	Auto Eq.Ar
• I Connecte NO.	d Indoor Units Model	Name	Room	Floor	Auto		ielectable No. 2 MM	Indoor Units Model NJ-AP02721	Name H ACOOL H ACOOL	Room Meeting Roo	Floo m 15	Auto Equiv

Figure 5.7-1

🖲 Cor	figu	ation of Refrigerant Cycle -	Tosihba Building	_ 🗆 🗙
Eile	Edit	<u>T</u> ool <u>H</u> elp		
: 🖪		Back Alt+Left		
Outdoo	\$	Next Step Alt+Right		
	Ð	<u>C</u> reate Outdoor Unit		
Coo	1	<u>E</u> dit Outdoor Unit	Heating WB(C) C 6.0	
		Copy Outdoor Unit		
Outdoo	B.	Multiple Copy Outdoor Unit		
No.	$\times$	Delete Outdoor Unit	Name Size(kW) Auto Max Selection% Connect% ected Indoor Wiring System	Outdoor Ur
	1	Up Alt+Up		
	₽	Do <u>w</u> n Alt+Down		

Figure 5.7-2

Clicking the [Create Outdoor Unit] button displays the Outdoor Unit Information screen. On this screen, enter outdoor unit data such as the name, type, or capacity. When you have finished entering data, click the [Save] button or select [File] > [Save] to save the data. The outdoor unit data will be automatically added to the outdoor unit list.

Outdoor Unit Information - T	osihba Build	ISavel button			
File tot Iool Help		[eare] ballon		Outdoor uni	t data
日前時(全幸)			↓ └─		
Refrigerant Cycle Number				-	
Refrigerant Cycle Name		OUT1			
Jhit Type (*)		SMMS-i		-	
Capacity (*)		MMY-AP3214T8-E * Auto	<ul> <li>High Efficiency type</li> </ul>		
Max Selection(%) (*)		100		*	
Wining System Name				-	
Outdoor Unit Position		(* Above	C Below		
Main Pipe Length (Actual) (*)			5.0	m	
Main Pipe Length (Equivalent) (*	)		5.0		
Between T-Shape to	La		0.0	m	
Outdoor(Actual) (*)	lh		0.0	m +	
MAT-MAP1004TE-E MAT-MA	P1804T8-E				Outdoor unit connection image
49.5 49.5 40.0 000 000 000 000 000 000 00	Lb 40.0 Dm/Om			M	

Figure 5.7-3

Item		Method	Note		
Refrigerant Cycle Nun	nber	Entered by user	Entry required		
Refrigerant Cycle Nan	ne	Entered by user	Entry required		
Unit Type		Selected by user			
Capacity		Selected by	Entry required		
		user/Automatically selected	High Efficiency type can be checked for		
			Auto only		
Max Selection (%)		Selected by user			
Wiring System Name		Entered/Selected by user	Entered data can be selected from the		
			drop-down list		
Outdoor Unit Position		Selected by user			
Power Supply method		Selected by user			
Main Pipe Length (Act	ual)	Entered by user			
Main Pipe Length (Equ	uivalent)	Entered by user	Entry required		
Between T-Joint to	La	Entered by user	Entry required		
Outdoor (Actual)			Only S-MMS can be entered		
	Lb	Entered by user	Entry required		
			Only S-MMS can be entered		
Between T-Joint to	La	Entered by user	Entry required		
Outdoor (Equivalent)			Only S-MMS can be entered		
	Lb	Entered by user	Entry required		
			Only S-MMS can be entered		
Height Difference (H3)	A to B	Entered by user			

The following table shows outdoor unit data:

#### 5.8. Selecting a Capacity Rank and Max Selection (%)

There are two ways of selecting an outdoor unit capacity rank: Manual selection and Automatic selection in which the rank is automatically selected according to the selected indoor unit capacity and the maximum connection percentage.

① Manual selection

Select a capacity and maximum connection (%) from the lists.

Automatic selection

Select the [Auto] checkbox in Capacity, then the maximum connection (%) from the list.

③ Max Selection (%)

Calculated by multiplying connection capacity by outdoor horsepower (HP). For example, if MMY-MAP1403H is selected and the maximum connection is set to 120%, indoor units of up to 6 horsepower can be connected. If the maximum connection capacity is exceeded, a warning message appears.



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Figure 5.8-1

If an outdoor unit is selected using [Auto], calculation is performed using the base outdoor horsepower and maximum connection capacity. When the connection capacity exceeds the calculated value, the outdoor capacity rank is automatically increased by one.

#### 5.9. Editing Outdoor Unit Data

Select an outdoor unit from the outdoor unit list, then click the [Edit Outdoor Unit] button or select [ $\underline{E}$ dit] > [Edit Outdoor Unit]. The Outdoor Unit Information screen appears.

Configuration of R	Refrigerant Cycle - T	esil [Edit Outdo	or Unit] button			-	. 🗆 🗙
! 📑   🔶 • 🔶 •   🖹	📎 🖻 🕼 🗙 I 🛧	- ↓					
Outdoor Temperature Info	ormation						
Cooling DB(C) C	35.0	Heating WB(C) C	6.0				-
Outdoor Unit List		1	/		Select an ou	utdoor unit	
No. Model	Refrigerant Cycle Nu	umber Name	Size(kW) 📕	Auto	Max Selection%	Connect% Con	nected In
1 MMY-AP3214T8-	E	OUT1 32HP 0.0	<w 0.0kw="" 0.<="" td=""><td>okw 🗖</td><td>130%</td><td>0%</td><td></td></w>	okw 🗖	130%	0%	





Figure 5.9-2

Alternatively, double-click the outdoor unit name.

Outdoor unit data can be edited on the Configuration of Refrigerant Cycle screen. If the outdoor unit data is edited, the linked indoor unit will be automatically released.

For how to edit, see "5.7 Adding a New Outdoor Unit" and "5.8 Selecting a Capacity Rank and Max Selection (%)".

#### 5.10. Copying Outdoor Unit Data

Select an outdoor unit from the outdoor unit list, then click the [Copy Outdoor Unit] button or select [ $\underline{E}$ dit] > [Copy Outdoor Unit]. The outdoor unit will be automatically copied to the outdoor unit list, and the No. of the added outdoor unit will be automatically increased by one.

Configuration of F	Refrigerant Cycle - Help	Tosihba [Copy Ou	utdoor Unit] butto	<b>1</b>			- 🗆 🔀
: 📑   💠 • 🔿 •   🗎							
Outdoor Temperature Inf	ormation						
Cooling DB(C) C	35.0	Heating WB(C) C	6.0	-			-
Outdoor Unit List				_	Select an out	door unit	
No. Model	Refrigerant Cycle N	Number Name	Size(kW) 🕨	Auto	Max Selection%	Connect% C	onnected In
1 MMY-AP3214T8	-E	OUT1 32HP 0.0	kW/0.0kW/0.0kW/0.0k	wГ	130%	0%	

Figure 5.10-1

🔋 Cor	figu	ation of Refrige	rant Cycle -	Tosihb	a Buile	ding								_ 🗆	
Eile	<u>E</u> dit	<u>T</u> ool <u>H</u> elp													
: 📑	$\Leftrightarrow$	<u>B</u> ack	Alt+Left	4	K										
Outdoo	4	<u>N</u> ext Step	Alt+Right												_
	Ð	⊆reate Outdoor Un	it						_						
Coo	0	<u>E</u> dit Outdoor Unit		H	Heating '	WB(C) C		6.0							
	È	Copy Outdoor Unit													
Outdoo	2	Multiple Copy Outd	oor Unit												
No.	×	Delete Outdoor Uni	t	mber	Name		S	ize(kW)		Auto	Max Selec	tion%	Connect%	Connecte	ed In
1	1	Up	Alt+Up		OUT1	32HP 0.0	)kW/O	i.okw/o.okw/o	I.OkW	Γ		130%	0%		
	₽	Do <u>w</u> n	Alt+Down												

Figure 5.10-2

5.11. Copying Data of Multiple Outdoor Units

Select outdoor units from the outdoor unit list, then click the [Multiple Copy Outdoor Unit] button or select  $[\underline{E}dit] > [Multiple Copy Outdoor Unit].$ 

🔋 Configuration of R	efrigerant Cycle -	Tosihba Buile				_	
<u> Eile E</u> dit <u>I</u> ool <u>H</u>	<u>i</u> elp	[Mu	litiple Copy Ou	itdoor Uni	t] button		
! 🛃   🗢 • 🗣 •   🖹	🃎 🖻 📑 🗙  -						
Outdoor Temperature Info	ormation						
Cooling DB(C) C	35.0	Heating WB(C) C	6.0				
Outdoor Unit List					Select out	door units	
No. Model	Refrigerant Cycle	Number Name	Size(kW)	Auto	Max Selection%	Connect% Conr	ected In
1 MMY-AP3214T8-	E	OUT1 32HP 0.0	)kW/0.0kW/0.0kW/	'0.0kW 🕅	130%	0%	

Figure 5.11-1

🕘 Cor	nfigu	ation of Refrige	rant Cycle - T	osihb	a Buil	ding						
File	Edit	Tool Help		_								
: 🔡	$\Leftrightarrow$	Back	Alt+Left	₽								
Outdoo	\$	Next Step	Alt+Right									
		Create Outdoor Unit	t									
Coo	1	Edit Outdoor Unit			Heating '	WB(C) C	6	.0				
	Ð	Copy Outdoor Unit										
Outdoo	4	Multiple Copy Outdo	ior Unit									
No.	×	Delete Outdoor Unit		mber	Name		Size(kW	/)	Auto	Max Selection%	Connect%	Connected In
1	1	Up	Alt+Up		OUT1	32HP 0.0	kW/0.0kW;	'0.0kW/0.0kW		130%	0%	
	₽	Down	Alt+Down									

Figure 5.11-2

The Copy Count screen appears. Enter the number of units or select it using the spin buttons, then click the [OK] button. The outdoor units in the entered/selected number will be automatically copied to the outdoor unit list, and the No. of the added outdoor units will be automatically increased by one.

Сору	$\overline{\mathbf{X}}$
Copy Count	1÷
ОК	Cancel

Figure 5.11-3

5.12. Connecting an Indoor Unit to an Outdoor Unit

Select an outdoor unit from the outdoor unit list. To connect an indoor unit to the selected outdoor unit, select an indoor unit from the Selectable Indoor Units list, then click the [<<] (Add) button or drag and drop the indoor unit into the Connected Indoor Units list. If the maximum outdoor unit capacity is exceeded, a warning message appears.

When you have finished connecting the indoor unit, click the [Next Step] button to proceed.

🖲 Co	onfiguration of	Refrige	rant C	ycle	- Tos	hiba Building									-	
Eile	<u>E</u> dit <u>T</u> ool	Help														
	🗇 <b>-  -   🗎</b>	) 🤌 🖻		×	1	₽   🖪										
Outdo Coo	oor Temperature In oling DB(C) C	formation 3	5.0	[	Ne>	tt Step] but Heating WB(C	ton oc	]	6.0							
Outdo	or Unit List				1	1										
No	Model	Re	ofriger:	ent Cy	icle N	lumher Name			Size	(h)A()		Auto	May Solor	tion%	Coppe	act% Col
1	MMY-MAP1604	HT8-E	singere	arre ey			16HP	2 45.0k1	W/45.0	kw/50.0kw	//50.0	nkw E		100%	Conne	56%
•													Sele	ect a	n ind	door un
<b>∢</b> Conne	ected Indoor Units							]	Select	able Indoor U	Inits		Sele	ect a	n ind	door un
<ul> <li>✓</li> <li>Conne</li> <li>No.</li> </ul>	ected Indoor Units Madel	Name I	Room	Floor .	Auto	Equivalent HP	3		Select	able Indoor U Model	Inits	Name	Room	ect a	n ind r Auto	door un
<ul> <li>Conne</li> <li>No.</li> </ul>	ected Indoor Units Model MMU-AP0272H	Name I AC001	Room I	Floor .	Auto	Equivalent HP			Select. No.	able Indoor U Model MMU-AP02	Inits	Name AC004	Room	ect a	n ind r Auto	door un
<ul> <li></li> <li>Conne</li> <li>No.</li> <li>1</li> <li>2</li> </ul>	ected Indoor Units Model MMU-AP0272H MMU-AP0272H	Name AC001	Room	Floor .	Auto	Equivalent HP 3.00 3.00			Select No.	able Indoor U Model MMU-AP02 MMU-AP02	Inits 72H	Name AC004 AC005	Room	ect a	n ind r Auto	door un
<ul> <li>Conne</li> <li>No.</li> <li>1</li> <li>2</li> <li>3</li> </ul>	ected Indoor Units Model MMU-AP0272H MMU-AP0272H MMU-AP0272H	Name   AC001   AC002   AC003	Room	Floor	Auto	Equivalent HP 3.00 3.00 3.00		~~	Select.	able Indoor U Model MMU-AP02 MMU-AP02 MMU-AP02	Inits 72H 72H	Name AC004 AC005 AC006	Room	ect a	r Auto	door un Equivale
<ul> <li>Conne</li> <li>No.</li> <li>1</li> <li>2</li> <li>3</li> </ul>	ected Indoor Units Model MMU-AP0272H MMU-AP0272H MMU-AP0272H	Name 1 AC001 AC002 AC003	Room	Floor	Auto	Equivalent HP 3.00 3.00 3.00	a H r	<<	Select.	able Indoor U Model MMU-AP02 MMU-AP02 MMU-AP02 MMU-AP02	Inits 72H 72H 72H	Name AC004 AC005 AC006 AC007	Room	ect a	r Auto	door un
<ul> <li>Conne</li> <li>No.</li> <li>1</li> <li>2</li> <li>3</li> </ul>	ected Indoor Units Model MMU-AP0272H MMU-AP0272H MMU-AP0272H	Name 1 AC001 AC002 AC003	Room	Floor	Auto	Equivalent HP 3.00 3.00 3.00	r	<<	Select.	able Indoor U Model MMU-AP02 MMU-AP02 MMU-AP02 MMU-AP02 MMU-AP02	Inits 72H 72H 72H 72H 72H	Name AC004 AC005 AC006 AC007 AC008 A	Room	ect a	r Auto	door un
Conne No. 1 2 3	ected Indoor Units Model MMU-AP0272H MMU-AP0272H	Name I AC001 AC002 AC003	Room I	Floor	Auto	Equivalent HP 3.00 3.00 3.00	3 H T	<<	Select. No. 1 2 3 4 5	able Indoor U Model MMU-APQ2 MMU-APQ2 MMU-APQ2 MMU-APQ2	Inits 772H 772H 772H 772H 772H	Name AC004 AC005 AC006 AC007 AC008	Room	Floo	n ind r Auto	

Figure 5.12-1

5.13. Deleting a Connected Indoor Unit

Select an outdoor unit from the outdoor unit list. To delete an indoor unit connected to the selected outdoor unit, select the indoor unit, then click the [>>] (Delete) button or drag and drop it into the Selectable Indoor Units list.

E Configuration of Refrigerant Cycle - Toshiba Building		. 🗆 🗙
<u>File Edit I</u> ool <u>H</u> elp		
🖶   🗢 • 🖨 🔌 🖻 😰 🗙   🏠 🖖   📓		
Outdoor Temperature Information		
Cooling DB(C) C 35.0 Heating WB(C) C	6.0	
Outdoor Unit List		
No. Model Refrigerant Cycle Number Name	Size(kW) Auto Max Selection% Conr	nect% Coi
1 MMY-MAP1604HT8-E 1 OUT001 16HP 45.0kV	W/45.0kW/50.0kW/50.0kW	56%
Connected Indoor Units Select an indoor unit	Selectable Indoor Units	•
No. Model Vame Room Floor Auto Equivalent HP G	No. Model Name Room Floor Aut	:o Equivale
1 MMU-AP0272H AC001	1 MMU-AP0272H AC004	
2 MMU-AP0272H AC002 3.00 Ir	2 MMU-AP0272H AC005	
3 MMU-AP0272H AC003 🗆 3.00 Ir <<	3 MMU-AP0272H AC006	
	4 MMU-AP0272H AC007	
Delete button		

Figure 5.13-1

#### 5.14. Creating the Piping Diagram

The piping diagram is automatically created. The automatically created piping diagram uses T-Joint. The piping size is automatically calculated according to the connected indoor unit, and is displayed on the diagram. The units are displayed in the order of their addition to the Connected Indoor Units list. The highlighted lines in the Indoor Unit List indicate already piped indoor units. The white lines indicate units not yet piped. If the diagram has no problems, click the [Next Step] button to proceed.



Figure 5.14-1

5.15. Changing the Joint Type

Drag a joint type from the Joint List, and drop it onto the joint you want to change. If the joint is changed, the piping is automatically redrawn to suit the new joint.



Figure 5.15-1

5.16. Entering the Length between the Joints

Double-click a joint. The Pipe Length screen appears. Enter the lengths then click the [OK] button. The lengths are automatically displayed and the sizes are calculated and displayed on the diagram.



Figure 5.16-1

Right-click the joint or indoor unit on the diagram. Select [Delete] from the displayed menu. The dummy indoor unit appears in place of the indoor unit deleted from the diagram. In the Indoor Unit List, the background color of the deleted indoor unit becomes white. If a joint is deleted, any indoor units connected to the joint are also deleted.

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Figure 5.17-1

Up to 10 devices can be connected on a single TCC-LINK line. When a BMS system is selected one BMS control device interface is connected, so up to 9 central controllers can be connected. When you have finished configuring the settings, click the [Next Step] button to proceed.

TOSHIBA AIRCONDITIONING

Settings
Settings
Settings
•
2

Figure 5.18-1

 Specify the number of units for Compliant Manager, 64 Central Remote Controller, and ON-OFF Controller in Central Remote Controller. Click the [Settings] button to set the central remote controller.

Central Remote Controller Compliant Manager No. 1 Controller Name Controller Name Compliant Manager No. 1 TCC-LINK Line 1 Controller System selection Connection System selection	Compliant Manager No.1	
Controller Name Compliant Manager No. 1 TCC-LINK Line 1 / TCC-LINK Line 2 Connection System selection	Complete Manager No. 1  Complete Manager No. 1  Concellance to Con	
TCC-LINK Line 1 C TCC-LINK Line 1 C TCC-LINK Line 2 Connection System selection	TCC-LINK Line 1     TCC-LINK Line 2	
Connection System selection	ring System Name Outdoor unit name Indoor unit name	
	ring System Name Cutdoor unit name Indoor unit name	
No System Name Wring System Name Outdoor unit name Indoor unit name	Rino Patternt OLITIO1 S	
SMMS-i Wing Pattern1 OUT001 5	ang restore a	

Figure 5.18-2

② Select Touch Screen Controller or Web Based Controller for a BMS system.

③ Select BACNet for Open Network System.

#### 5.19. Outputting Project Data

Click the [Output Drawing and Data] button or select [Edit] > [Output Drawing and Data].



Figure 5.19-1

🔋 Prii	nt / S	ysmte Check	- Toshiba Bui	lding			
File	Edit	Tool Help					
: 🔡	$\Leftrightarrow$	Back	Alt+Left				
Refrige	\$	Next Step	Alt+Right				 
No		Output Drawing	; and Data	Cycle Name	Wiring System Name	Result	
1	_	1	0011		Wiring Pattern1	Х	

Figure 5.19-2

The Output type selection screen appears. Select the output format.

Output type selection - Toshiba Building	
Output Format	
F Output to EXCEL	
C Output Project Tables to EXCEL (Drawing(s) to CAD	
C Output to CAD	
C Output to PDF	
C Output to Report	
- Seasonal Power Consumption	
Collaboration Desired Press Construction	
Calculate Pattern	<u>+</u>
	1
Calca	

Figure 5.19-3

The confirmation dialog box appears. Click the [Yes] button.

Output	type selection - Toshiba Building 💟
2	Do you want to output the file?
	<u>Y</u> es <u>N</u> o

Figure 5.19-4

The Save screen appears. Select the destination folder, enter a file name, then click the [OK] button. When the output starts, the following message appears:

Output in progress, Please wait		
Figure 5.19-5		

When the output is complete, a completion dialog box appears. Click the [OK] button.



Figure 5.19-6

Confirm the output file.

# 6. Drag & Drop Drawing

6.1. Setting the Outdoor Temperature Information

Click the [Outdoor Temperature Information] button or select [ $\underline{E}$ dit] > [Outdoor Temperature Information].



Figure 6.1-2

For how to set the outdoor temperature information, see "5.1 Setting the Outdoor Temperature Information".

# 6.2. Creating a New Piping Diagram

Click the [New] button or select [ $\underline{E}$ dit] > [New].

🔋 Ref	🔋 Refrigerant System List - Toshiba Annex Building 📃 🗖 🔀				
Eile	Edit	Tool	Help		
			XID	🔍 👼 i 🖪 🕸 ik 🕸 i 🕼 i 🖪 i 📘	
-					
[New] button					
Figure 6.2-1					



Figure 6.2-2

#### 6.3. Adding a New Indoor Unit

Drag an indoor unit from the indoor unit list and drop it onto a dummy indoor unit. For how to edit indoor unit data, see "5.2 Adding a New Indoor Unit" and "5.3 Selecting a Capacity Rank".

Simple Draw - Toshiba Annex Building	
Ele Ele Iool Help	
MMY-MAPDBD4HTS-ESHP) 22 49/022 49/025 (MM/25	Indoor unit model icons (Drag)
	34

Figure 6.3-1

#### 6.4. Editing Indoor Unit Data

Double-click an indoor unit on the piping diagram. For how to edit indoor unit data, see "5.2 Adding a New Indoor Unit" and "5.3 Selecting a Capacity Rank".



Figure 6.4-1

## 6.5. Copying Indoor Unit Data

Right-click an indoor unit on the piping diagram. Select [Copy] from the displayed menu.



Figure 6.5-1

Right-click a dummy indoor unit. Select [Paste] from the displayed menu. The indoor unit will be added, and the No. of the added indoor unit will be automatically increased by one.



Figure 6.5-2

#### 6.6. Editing Outdoor Unit Data

Double-click the outdoor unit on the piping diagram. For how to edit outdoor unit data, see "5.7 Adding a New Outdoor Unit" and "5.8 Selecting a Capacity Rank and Max Selection (%)".

🕘 Simple Draw - Toshiba Annex Building		_ 🗆 🔀
<u>Eile Edit I</u> ool <u>H</u> elp		
	) 100	- % 🕒
Image: Market		

Figure 6.6-1

6.7. Changing the Joint TypeSee "5.15 Changing the Joint Type".

6.8. Entering the Length between the JointsSee "5.16 Entering the Length between the Joints".

6.9. Deleting a Joint/Indoor Unit from the Piping DiagramSee "5.17 Deleting a Joint/Indoor Unit from the Piping Diagram".

6.10. Editing the Piping Diagram

Select the piping diagram, then click the [Edit] button or select [ $\underline{E}$ dit] > [Edit].

Refrigerant System List - Tosh     Ele Edit 100 Help	[Edit] button	
**************************************	ACM Activity A	iping diagram

Figure 6.10-1

3	Ref	riger	ant System List - Toshiba Annex Buildi	ng	_ 🗆 🗙
	File	Edit	<u>T</u> ool <u>H</u> elp		
1	D (	Ð	New		
			<u>⊆</u> opy		
1	MMY25 22.46445	2	Edit		
	- 10	×	Delete		
		5	Outdoor Temperature Information	-	
		**	Central Controller / BMS System Setting		
			Print / System Check		
			Output Drawing and Data		
			422 3/13 7 43 60 4 2 10 12 10	-	

Figure 6.10-2

Alternatively, double-click the piping diagram.

🔋 Refrigerant System List - Toshiba Annex Building	_ 🗆 🔀
Eile Edit Iool Help	
niner Anterkonini ta Honey 12 Anteriza Anteriza (anteriza)	
MAY ADD YOL ON U.E.	
Rec 9130 4402 Costs	
e22 007 38 30 29 57 50 50 50 50 50 50 50 50 50 50 50 50 50	iak
	ICK
	.12

Figure 6.10-3

For how to edit the diagram, see "6.3 Adding a New Indoor Unit" – "6.9 Deleting a Joint/Indoor Unit from the Piping Diagram".

## 6.11. Copying the Piping Diagram

Select the piping diagram, then click the [Copy] button or select [ $\underline{E}$ dit] > [Copy]. A copy of the piping diagram will be created.

	×
Reserve Servers Server	

Figure 6.11-1

🔋 Ref	riger	ant System List - Toshiba Annex Buildin	g	
Eile	Edit	<u>I</u> ool <u>H</u> elp		
10		New		
	Ê	⊆ору		
MMY 2 22,4645	1	Edit		
	×	Delete		
	5	Outdoor Temperature Information		
	***	Central Controller / BMS System Setting		
		Print / System Check		
		Output Drawing and Data		
L		422.2027 24 24 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25		

Figure 6.11-2

6.12. Setting the Central Controller/BMS System Setting

Click the [Central Controller / BMS System Setting] button or select [ $\underline{E}$ dit] > [Central Controller / BMS System Setting]. For how to configure the settings, see "5.18 Setting the Central Controller/BMS System Setting".

Central Controller / BMS System Setting] button	<u></u>	
	Refrigerant System List - Toshiba Annex Building	[Central Controller / BMS System Setting] button
*         Mar 2012 R00 R0 800 FB           *         Mar 2012 R00 FB           *         Mar 2012		
	* WHY YOF DOWN TO RESOLUTION TO REAL AND CONTROL (1997) MMY ADDR ALL (	

Figure 6.12-1

🕘 Refriger	rant System List - Toshiba Annex Buildir	g	- 🗆 🗙
Eile Edit	<u>T</u> ool <u>H</u> elp		
: 🖻 🕻 🗎	New	6	
	⊆opy		
100Y2	Edit		
• 🗙	Delete		
5	Outdoor Temperature Information		
***	Central Controller / BMS System Setting		
<b>_</b>	Print / System Check		
	Output Drawing and Data		
	422 3013 T 21 21 21 21 21 21 21 21 21 21		

Figure 6.12-2

6.13. Outputting Project Data

Click the [Output Drawing and Data] button or select [ $\underline{E}$ dit] > [Output Drawing and Data]. For how to output the data, see "5.19 Outputting Project Data".

Refrigerant System List - Toshiba Annex Build	ling 📃 🔲 🔀
Eile Edit Iool Help	
- 🗈 🖶 i 🔌 🗈 i 🗶 i 🖨 🔍 👼 i 🖪 🍪 🕞 🞑	
	Ĩ <u>ŧ</u>
MMY 2009/2004/01 BIGAP) 22 AMAZZ AMAZZ AMAZZ AMAZZ ALAMAZ ALAMAZI ALAMAZ MARZANAZ ALAMAZ ALAMAZI ALAMAZI ALAMAZI ALAMAZI ALAMAZI ALAMAZ	[Output Drawing and Data] button
Recently Recently (22)2407 30 20 20 20 20 20 20 20 20 20 2	

Figure 6.13-1

🔋 Ref	riger	ant System List - Toshiba Annex Building	3	
File	Edit	Tool Help		
: 🖻 🛛		New		
	e	Сору		
MMY25 22.46445	1	Edit		
	×	Delete		
	5	Outdoor Temperature Information		
	**	Central Controller / BMS System Setting		
	1	Print / System Check		
		Output Drawing and Data		
		922.02.5 30 31 92 0.00 0 32 0.00 0 30 0 50 0 50 0 50 0 50 0 50 0 50 0		

Figure 6.13-2

# 7. Configuring Various Settings

Configure various function settings of Selection Tool 2010. Select [Tool] > [Preferences].

	Ind	loor Unit List -	Toshib	a Building									_			
	File	File Edit Tool Help														
		引 🡍 🗸 🕼 Preferences														
	No.	Model	Name	Room	Floor	Auto	Equivalent HP	Group Control	Group Settings	C DB	C WB	H DB	CTC(kW)	CSI		
Π	1	MMU-AP0272H	AC001	Meeting Room	1F		3.00	Header		27.0	19.0	20.0	8.0 / 8.0 / 8.0	5.5 /		
	2	MMU-AP0272H	AC002				3.00	Individual		27.0	19.0	20.0	8.0 / 8.0 / 8.0	5.5 /		

Figure 7-1

7.1. Configuring the Display/Unit Settings

Configure the main menu display settings and unit settings used for output.

derment dapaty setting			
Items to display	Currency unit	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	
No. 7 Verson	Decimal place	1	1
Creation date	Temperature unit	00	e i
Building information     Building number	Diameter	(* mm	C inth
Paulding name	Weight	(F 10	Charles
🖓 Client name	Capacity	17 June 1	E-mail
Person in charge of client.	Cabacità	1.066 (0.077	- ACC 190.
Address	Energy unit	15 (14/1)	C 223,00
Installation company	- I have been	100 C	Central C
<ul> <li>Instalation date</li> </ul>	Week starts	De constitue	E surner
✓ Test run date			
Person in onarge     Tratege			
<ul> <li>Notes</li> <li>✓ Be nath</li> </ul>			
100 2001			

Figure 7.1-1

#### 7.2. Setting the Specification Check

Configure the settings of Piping specification check, Indoor unit data check, and Equipment length calculation. The default setting is that Piping specification check and Indoor unit data check are to be performed.

ale a table router (Starfferstern chart) have asked for a to also a loss	and the second se
pervisioned and and	and tubles second 1 producers are 1
V President Check	
Outdoor unit Poe Lewith Clark	
🔽 Indoor Unit Paging Length and Height Difference Check	
Indoor unit data check	
IV Indoor unit Cooling Data Check	
🔽 Indoor unit Heating Data Check	
Outdoor unit dats check	
${\boldsymbol \Gamma}^{\prime}$ comes set (math) to set in factor and statistic matrix that is	accorded for 90 the index sinterreadments)
Equivalent length calculation	
Coefficient for equivalent length calculation	
Equivalent length (m) = Actual length (m) $\times$ 1.0 $\frac{1}{2}$	

Figure 7.2-1

 $\textcircled{1} \quad \text{Piping Rule Check} \\$ 

Select whether to check the piping rules provided by design manual. If the checkbox is selected, the following rules are checked: the total length is 180m or less (excluding PMV Kit); the indoor unit farthest from the first branch is within 35m; the length of the main pipe is 65m or less, etc. If the checkbox is not selected, no piping rules are checked and they are no longer required entry items.

② Outdoor unit Pipe Length Check

Select whether to check if the pipe length is entered on the outdoor unit data screen. If the checkbox is selected, a warning message will appear if the pipe length of the outdoor unit created/edited on the outdoor unit data screen is not entered.

If the checkbox is not selected, entry is not checked and it is no longer a required entry item.

③ Indoor Unit Piping Length and Height Difference Check

Select whether to check if the pipe length and height are entered on the indoor unit data screen. If the checkbox is selected, a warning message will appear if the pipe length and height of the indoor unit created/edited on the indoor unit data screen are not entered.

If the checkbox is not selected, entry is not checked and they are no longer required entry items.

(4) Indoor unit Cooling Data Check

Select whether to check if the cooling data is entered on the indoor unit data screen. If the checkbox is selected, a warning message will appear if the temperature data and cooling capacity for Auto are not entered.

If the checkbox is not selected, entry is not checked and it is no longer a required entry item.

(5) Indoor unit Heating Data Check

Select whether to check if the heating data is entered on the indoor unit data screen. If the checkbox is selected, a warning message will appear if the temperature data and heating capacity for Auto are not entered.

If the checkbox is not selected, entry is not checked and it is no longer a required entry item.

#### 7.3. Setting Items for Output/Print

Select whether to output/print items. The default setting is that all items are to be output/printed.

en setting for output/prink	
Indoor unit To Jadoor unit name Types Model name Posser (HP) Floor name Tonort name	Oubdoor unit Coubdoor unit nome Type Model name Power (HP) Cutine name
Pipe data I⊽ Pipe son I⊽ Pipe Langth	Report The output of a drawing ruts down in one page

Figure 7.3-1

Set the items to be displayed for the drawing frame. Entering the drawing frame name allows you to register the frame as a database. If the [New] button is clicked while the project is being edited, the building name from the project information is automatically displayed. When the screen is opened from the main screen, the entry fields are blank, and the date is that which is displayed on the computer.

TOSHIBA AIRCONDITIONING

derences - Toshiba Building				
givy & Units Setting   Specification diec	I then setting for output/print Drawing Plan	w Setting Document	ink	
Draweigh are input				
Drawing frame name	1			
Building name				
Drawingmane				
Date	2011- 1-30 (Sun)			
Drawing No.				
F Show electrical protection/isolato	on point for each indeer unit			
G Show electrical protection/isolato	on pount for each indeer unit			

Figure 7.4-1

# 7.5. Setting the Document Link

The default document path is set to the installation folder on the hard disk.



Figure 7.5-1

- 8. Setting the Calculation Pattern of Seasonal Power Consumption
- 8.1. Creating a New Calculation Pattern of Seasonal Power Consumption

The seasonal power consumption can be calculated using the system selection data. Select [Tool] > [Seasonal Power Consumption].

🕘 Main Menu					_ 🗆 🔀
File Edit Tools Help					
Frequency					
Version Seasonal Power Consumption		Setting	Juilding Information	Project Number	Project Nam 🔺
1 Tue A Preferences		Temperature Data Import	lew	1	Toshiba Buildii
1 Tuesday, February 01, 2011 2:28:31 РМ 10	ue	Temperature Data Export	Replacement	2	Toshiba Anne

Figure 8.1-1

To create/edit the calculation pattern of the Seasonal Power Consumption, select [Tool] > [Seasonal Power Consumption] > [Setting].



Figure 8.1-2

Be Edit Help BIIPX																									
Calculation Pattern	[liex]		_	_		_	_	_	_	_	_	_	_												
Calculation Name			_	_	_	_	_	_	_	_	_	_	_	_	-										
Country	Albania		_	_	_	_	_	_	_	_	_	_	_	_	٠										
City	Trate	_	_	_	_	_	_	_	_	_	_	_	_	_	٠										
Type	Stand-alon	e shops		_	_	_	_	_	_	_	_	_	_	_	٠										
Cooling Setting Temp.	210					_	_		_		_			_	٠										
Cooling Operating Period	From 7	Tuesday	, F	ebrua	cy 🛓	1	a [	Tue	sday	, Fe	bruan														
Heating Operation Temp.	21C	_	_	_	_	_	_	_	_	_	_	_	_	_	٠										
Heating Operating Period	From	Tuesda	y , I	Febru	ay_	1	ta [	Tue	sday	, Fei	bruary	•													
Operating Time		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	2
	Mon.				-	-		_	_	-	_	-	_						-	_	_		_	_	-
	Tue,							_						-			_		_	_					-
	Wed.	-		-	-	_	_	_	_	-	-		-	-	-	_	_			-	-	-	-	_	-
	Thu,	-	-	-	-	-		_				-					-			-			-	-	-
	HTL.	-		-	-			-				-		-					-	-			-	-	-
	Sup																								ł
	Contraction of the local division of the loc																								1.

Figure 8.1-3

To create a new pattern, click the [Add Calculation Pattern] button, select [ $\underline{E}$ dit] > [Add Calculation Pattern], or select [New] from the Calculation Pattern combo box.

Eile	Edit	<u>H</u> elp					
		XI					
-	Add	Calcula		T			
	Carco	Hacion 1	[Add	Calcul	ation P	attern]	button
			•				
		Fig	gure 8	.1-4			
Se	asonal	Fig Power	gure 8	.1-4	- Tosh	iba Anı	ne
Se	asonal	Fig Power (	gure 8. Consum	.1-4	- Tosh	iba Anı	ne
Sei File	asonal Edit	Fig Power ( Help Add Calcu	gure 8. Consun	.1-4 nption	- Tosh	iba Anı	ne

Figure 8.1-5

Calculation Pattern	Tokyo
Calculation Name	Tokyo Tokyo

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8.2. Editing the Calculation Pattern of Seasonal Power Consumption

Select a calculation pattern from the Calculation Pattern combo box.

## $\textcircled{1} \quad \text{Calculation Name} \\$

Set the calculation pattern name. An existing name cannot be set.

Calculation Name	Токуо

Figure 8.2-1

# Country

Select a target country for the calculation of Seasonal Power Consumption.

City Netherlands New Zealand Norway Philippines	<b>_</b>
Philippines	·······
Type Poland Portugal	

#### Figure 8.2-2

#### ③ City

Select a target city for the calculation of Seasonal Power Consumption. The list of the cities varies depending on the selected country.

City	Aix-en-Provence	-
Туре	Amiens Angers Bordeaux	
Cooling Setting Temp.	Caen Dijon Grenoble	~



# ④ Type

Select the air-conditioner type.

Туре	Stand-alone shops
Cooling Setting Temp.	Stand-alone shops Tenant shops Offices

TOSHIBA AIRCONDITIONING



(5) Cooling Setting Temp./ Heating Operation Temp.

Select a temperature for the calculation of Seasonal Power Consumption.

Cooling Setting Temp.	21C 21C	•
Cooling Operating Period	22C 23C 24C	
Heating Operation Temp.	25C 26C 27C	
	28C	×.

Figure 8.2-5

6 Cooling Operating Period/ Heating Operating Period

Set the operating period for the calculation of Seasonal Power Consumption.

Cooling Operating Period	From	Tue	sday	, Fe	ebrua	ary 💽	•	То	Г	Tues	day	, Fe	bruary	y 💌				
		•		Febru	Jary,	, 201	1	۲										
Heating Operation Temp.	21C	Sun	Mon	Tue	Wed	Thu	Fri	Sat									•	
		30	31	Ð	2	3	4	5										
Harris Construction Design	From	6	7	8	9	10	11	12		Tues	daw	Ed	beupe					
Heating Operating Period	From J	13	- 14	15	16	17	18	19	L.,	rues	uay	, re	Diuai	Ľ				
1		20	21	22	23	24	25	26										
Operating Time		27	28	1	2	3	4	5		7	8	9	10	11	12	13	14	
operating finite		6	7	8	9	10	11	12		_								Ē
,	Mon.	2	To	day:	2/1/	201	1											
	Tue								'									



⑦ Operating Time

Set the operating time for each day of the week. Clicking a cell selects/deselects the hour. Also, multiple cells can be selected simultaneously by selecting a range, line or column.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon.																								
Tue.																								
Wed.																								
Thu.																								
Fri.																								
Sat.																								
Sun.																								

Figure 8.2-7

Click the [Delete Calculation Pattern] button or select [Edit] > [Delete Calculation Pattern].

Seasonal Power Consumption		
Eile Edit Help		
Calculate [Delete	Calculation Pattern] button	×
	Figure 8.3-	-1
Seasonal Power Consumption - Toshil	ba Anne	X
<u>File</u> <u>E</u> dit <u>H</u> elp		
Add Calculation Pattern		
Delete Calculation Pattern		
Calculation Fattern Trokvo	- Figuro 8 3-1	
	Figure 0.3-2	-2

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8.4. Saving the Calculation Pattern of Seasonal Power Consumption

Click the [Save] button or select [ $\underline{F}$ ile] > [Save].

Seasonal Power Consumption			
<u>File E</u> dit <u>H</u> elp			
Save		-	
[Save] button	Figure 8.4-1		
Seasonal Power Consumption - Toshiba Anne			$\overline{\mathbf{X}}$
File Edit Help			
Save Ctrl+S			
Return to Main Menu			
	=:		



9. Importing the Temperature Data

The temperature data for each city can be imported. Select [Tools] > [Seasonal Power Consumption] > [Temperature Data Import].

🕘 Main Menu				
File Edit Tools Help				
Frequency				
Version Seasonal Power Consumption	Setting	Juilding Information	Project Number	Project Nam 🔺
1 Tue Preferences	Temperature Data Import	lew	1	Toshiba Buildir
1 Tuesday, February 01, 2011 2:28:31 PM Tue	Temperature Data Export	leplacement	2	Toshiba Anne

Figure 9-1

9.1. Selecting a Temperature Data File

Click the [Open] button or [Browse] button, or select [File] > [Open].

🔋 Temperature Import		X
<u>File H</u> elp		
linen l		
[Open]	button	
Area	Tirana	
File		
	[Browse] button	
Browse		
	1	
L		

Figure 9.1-1

🕘 Tem	perature Import -	Toshiba Anne	X
<u>F</u> ile	<u>H</u> elp		
🗁 🛛	lpen		
In In	mport	Albania	
	lose		

Figure 9.1-2

The Open dialog box appears. Select a file to import.

The following formats are available:

File type	Excel 97 - 2003
Extension	.xls
Column 1	Month
Column 2	Day
Column 3	Hour
Column 4	DBT(C)

When a file is selected, the file path appears in the text box.

File	C:\Documents and Settings\User\Desktop\2009-temperatures-Russia-1hour Corrected2.xls
Browse	



#### 9.2. Specifying a Country

Enter a country name in the combo box, or select a country from the list. If the entered country name is not in the list, the country data is newly added when imported. If it is in the list, the data is overwritten.

Country	Albania	-
	Albania	~
Area	Australia Austria Brazil	
File	Brussels Bulgaria China	
	Croatia	×.

Figure 9.2-1

#### 9.3. Specifying a City

Enter a city name in the combo box, or select a city from the list. If the entered city name is not in the list, the city data is newly added when imported. If it is in the list, the data is overwritten.

Area	Aix-en-Provence	•
	Aix-en-Provence	~
File	Amiens Angers Bordeaux	
Browse	Caen Dijon Grenoble Le Mans	~

Figure 9.3-1

## 9.4. Starting the Import

Click the [Import] button, or select [File] > [Import].

🔋 Temperature Import	
<u>File Help</u>	
Country [Import] button	
Figure 9.4-1	
🔋 Temperature Import - Toshiba Anne	$\mathbf{X}$
<u>File</u> <u>H</u> elp	
Den	
Import	

Figure 9.4-2

When the import is complete, the data is saved.



Figure 9.4-3

# 10. Exporting the Temperature Data

The temperature data for each city can be exported. Select [Tools] > [Seasonal Power Consumption] > [Temperature Data Export].

🕘 Main Menu				
File Edit Tools Help				
Frequency				
Version Seasonal Power Consumption	Setting	uilding Information	Project Number	Project Nam 🔺
1 Tue 💮 Preferences	Temperature Data Import	lew	1	Toshiba Buildir
1 Tuesday, February 01, 2011 2:28:31 PM Tue	e Temperature Data Export	eplacement	2	Toshiba Anne

Figure 10-1

## 10.1. Specifying the Export Destination

Click the [Open] button or [Browse] button, or select [File] > [Open]. The Open dialog box appears. Select a file to export the data to.

🕘 Tempe	rature Export			
<u>F</u> ile <u>H</u> el	lp			
Open Export Da	[Open]	button	-	
Country		Albania	Ţ	
Area		Tirana	7	
File				
	Browse			
<u> </u>	[Browse	) button		

Figure 10.1-1

🔋 Temperature Exp	ort - Toshiba Anne	
Eile Help		
🗁 Open		
Export -	New Topplate	
<u>C</u> lose		

Figure 10.1-2

When a file is selected, the file path appears in the text box.

File	C:\Tokyo.xls
Browse	

Figure 10.1-3

#### 10.2. Selecting the File Type

Select the File Type from the Export Data Category combo box.

Export Data Category	New Template
Country	New Template All All Areas
Area	Selected Area

Figure 10.2-1

The following table shows data content exported for each type:

New Template	Export a temperature data file template.
All	Export temperature data targeting all countries and cities.
All Areas	Export temperature data targeting all cities of the selected country.
Selected Area	Export temperature data targeting the selected country and city.

#### 10.3. Selecting a Country

Select a country from the list. If the selected type is "New Template" or "All", a country cannot be selected.

Country	Albania
Area	Albania Australia Australia
File	Brazil Brussels Bulgaria
Browse	China Croatia 💌

Figure 10.3-1

## 10.4. Selecting a City

Select a city from the list. If the selected type is "New Template", "All" or "All Areas", a city cannot be selected.



#### 10.5. Starting the Export

Click the [Export] button, or select [File] > [Export].

When the export is complete, the data is saved to the specified file.



Figure 10.5-1

11. Outputting the Calculation Report of Seasonal Power Consumption

The calculation report of Seasonal Power Consumption can be output using the system selection data and specified calculation pattern.

Output type select	tion - Toshiba Building 🛛 🛛 🔀
Output Format	
C Output to EXCEL	
C Output Project Ta	bles to EXCEL Drawing(s) to CAD
C Output to CAD	
C Output to PDF	
<ul> <li>Output to Report</li> </ul>	t
Seasonal Power Con Calculate Season Calculate Pattern	nsumption Ial Power Consumption
	OK Cancel

Figure 11-1

Select the "Calculate Seasonal Power Consumption" checkbox on the Output type selection screen to output the calculation report of Seasonal Power Consumption along with another output file.

Seasonal Power Consumption	
✓ Calculate Seasonal Power Consumption	
Calculate Pattern	Tokyo

Figure 11-2

If no calculation pattern is created, the calculation report of Seasonal Power Consumption can be output. To create a calculation pattern, see "8.1 Creating a New Calculation Pattern of Seasonal Power Consumption".

Click the [OK] button. The calculation report of Seasonal Power Consumption will be output as a file of the selected format.

# 12. License Agreement

Before using "Selection Tool 2010" (hereinafter referred to as "this software"), read this software's license agreement (hereinafter referred to as "this agreement") carefully.

By using or installing this software in part or as a whole, you agree to be bound by the terms of this agreement.

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- 5. The user shall make no attempt to reverse engineer, decompile, disassemble, or alter this software.
- 6. The user shall not let any other users use this software over a local network or the Internet.
- 7. The user shall not distribute, give, rent, lease, sell, or sublicense this software or the right to use this software to any third party.
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9. The user agrees to comply with the Foreign Exchange and Foreign Trade Control Law, the Export Trade Control Order, the United States Export Administration Act and all applicable international and national laws and regulations that apply to this software directly or indirectly.

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