

[VU-7 Heat Recovery] Unit Selection Manual

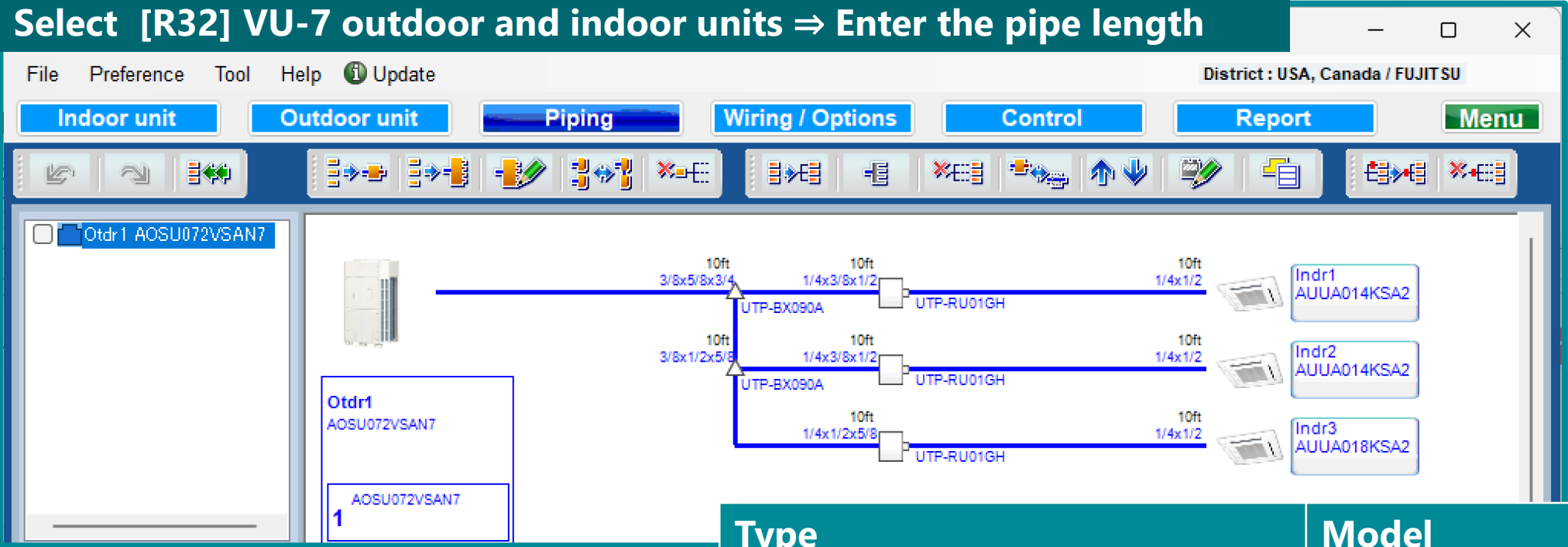
For Design Simulator

Table of Contents

01	<u>VU-7(Heat Recovery) Unit Selection and Pipe Length Input</u>
02	<u>Create a room</u>
03	<u>Allocate an indoor unit to a room</u>
04	<u>(NEW) Allocate an RB to a room</u> <u>Enter the height of the indoor unit and RB</u>
05	<u>Report</u>

01. VU-7(Heat Recovery) Unit Selection and Pipe Length Input

[Piping Screen]
Select [R32] VU-7 outdoor and indoor units ⇒ Enter the pipe length



Type	Model
[R32]VU-7	AOUS072VSAN7
[R32]Compact Cassette(KSA2)	AUUA014KAS2
[R32]Compact Cassette(KSA2)	AUUA014KAS2
[R32]Compact Cassette(KSA2)	AUUA018KAS2

02-01. Create a room(Image)

[Piping Screen]
In this manual, we will create rooms and allocate indoor units and RBs as shown in the following image.

File

Preference

Tool

Help

Update

District : USA, Canada / FUJITSU

Indoor unit

Outdoor unit

Piping

Wiring / Options

Control

Report

Menu

Otdr1 AOSU072VSAN7

Floor1

Otdr1

AOSU072VSAN7

1

Pipe explanatory notes

aa x bb x cc

10ft

3/8x5/8x3/4

UTP-BX090A

10ft

1/4x3/8x1/2

UTP-RU01GH

10ft

1/4x1/2

10ft

3/8x1/2x5/8

UTP-BX090A

10ft

1/4x3/8x1/2

UTP-RU01GH

10ft

1/4x1/2

10ft

1/4x1/2x5/8

UTP-RU01GH

10ft

1/2

Indr1

AUUA014KSA2

Indr2

AUUA014KSA2

Indr3

AUUA018KSA2

Hall1

Room1

Room2

Room3

Floo1	Allocate Unite
Room1	[R32]Compact Cassette(KSA2)
Room2	[R32]Compact Cassette(KSA2)/RB Single
Room3	[R32]Compact Cassette(KSA2)
Hall1	RB Single

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4

[Room Setting Screen]

✖Please enter the length, width, and height of the room.

Floor

Floor1

Floor setting

Add room

Remove

* Height : The room height is used for safety assessments. Please enter a valid height for the assessment.

	Floor	Room	Length (ft)	Width (ft)	Height (ft)	Room Area (ft2)	Room Volume (ft3)	IU Height (H0) (ft)	RB / SOV Height (ft)	Syst
1	Floor1	Room1	14	14	14	196.0	2744.0			
2	Floor1	Room2	14	14	14	196.0	2744.0			
3	Floor1	Room3	14	14	14	196.0	2744.0			
4	Floor1	Hall1	14	14	14	196.0	2744.0			

Enter the dimensions of the room

✖Example

Floor	Room	Length(ft)	Width(ft)	Height(ft)
Floor1	Room1	14	14	14
Floor1	Room2	14	14	14
Floor1	Room3	14	14	14
Floor1	Hall1	14	14	14

IU Allocation

*Required input for R32 VRF S

Auto-select

Gas Sensor Kit (inc. alarm)

☐ select one to an IU in the room which required safety measures

Cancel

OK

03. Allocate an indoor unit to a room

[Indoor unite allocation Screen]

1.Select Room

2. Select Indoor

3.Select[Allocate IU]

Selected room information

Floor	Room	Length (ft)	Width (ft)	Height (ft)	Room Area (ft ²)	Room Volume (ft ³)	Rq TC (kBTU/h)	Rq SC (kBTU/h)	Rq HC (kBTU/h)
Floor1	Room3	8	8	8	64.0	512.0			

Allocated IU to the selected room

Name	Model	Tmp C (F/%)	Tmp H (F)	Discharge Tmp C (F/WBT)	Outside Tmp C (F/%)	Discharge Tmp H (F)
------	-------	-------------	-----------	-------------------------	---------------------	---------------------

Series All

Allocate IU

Select	Series	Name	Comments	Model	Capa C (kBTU/h)	Capa H (kBTU/h)	Outdoor
☒	V2	Indr1		AUUA014KSA2	14.0	15.6	Otdr1
☐	V2	Indr2		AUUA014KSA2	14.0	15.6	Otdr1
☐	V2	Indr3		AUUA018KSA2	18.0	20.0	Otdr1

☐ Show IU already allocated.

Close

4.The room has been assigned an indoor unit

5. Repeat steps 1 through 4 to assign indoor units

Selected room information

Floor	Room	Length (ft)	Width (ft)	Height (ft)	Room Area (ft ²)	Room Volume (ft ³)	Rq TC (kBTU/h)	Rq SC (kBTU/h)	Rq HC (kBTU/h)
Floor1	Room1	8	8	8	64.0	512.0			

Allocated IU to the selected room

Series	Name	Model	Tmp C (F/%)	Tmp H (F)	Discharge Tmp C (F/WBT)	Outside Tmp C (F/%)	Discharge Tmp H (F)
V2	Indr1	AUUA014KSA2	80.0/50.4	70.0	-		-

Series All

Allocate IU **Clear IU**

Select	Series	Name	Comments	Model	Capa C (kBTU/h)	Capa H (kBTU/h)	Outdoor
☒	V2	Indr2		AUUA014KSA2	14.0	15.6	Otdr1
☐	V2	Indr3		AUUA018KSA2	18.0	20.0	Otdr1

☐ Show IU already allocated.

Floo1	Allocate Unite
Room1	Indoor1
Room2	Indoor2
Room3	Indoor3
Hall1	

04-01. (New) Allocate an RB to a room

[Room Setting Screen] How to allocate an RB to a room

Project

Detail Room setting

Floor Floor1 Floor setting Add room Remove

* Height : The room height is used for safety assessments. Please enter a valid height for the assessment.

	Floor	Room	System of RB / SOV	R32 VRF Safety measures		
				Response measure 1	Response measure 2	Response measure 3
1	Floor1	Room1	None	IU Air circulation	Leakage detection	Ventilation or Shutoff valve
2	Floor1	Room2	None	IU Air circulation	Leakage detection	Ventilation or Shutoff valve
3	Floor1	Room3	None	IU Air circulation	Leakage detection	Ventilation or Shutoff valve
4	Floor1	Hall1	None			

1.Select [None]

2. Select [Otdr1]

⇒A pop-up window for allocating RBs opens

- Otdr1 : RB for Otdr1 is allocated
- Same as I.U. : Refers to RB connected to the same refrigerant circuit as the indoor unit allocated to the room (Heat Pump : Shutoff Valve)

System of RB / SOV

Select system of RB / SOV.

☐ Same as I.U.

☒ Otdr1

Cancel OK

3.Select [OK]

Project

Detail Room setting

Floor Floor1 Floor setting Add room Remove

* Height : The room height is used for safety assessments. Please enter a valid height for the assessment.

	Floor	Room	System of RB / SOV	R32 VRF Safety measures		
				Response measure 1	Response measure 2	Response measure 3
1	Floor1	Room1	None	IU Air circulation	Leakage detection	Ventilation or Shutoff valve
2	Floor1	Room2	Otdr1	IU Air circulation	Leakage detection	Ventilation
3	Floor1	Room3	None	IU Air circulation	Leakage detection	Ventilation or Shutoff valve
4	Floor1	Hall1	None			

4. RB (with shutoff valve function) has been allocated to Floor 1
Please See System of RB / Shutoff valve

04-02. (New) Allocate an RB to a room

[Room Setting Screen] How to allocate an RB to a room
✖Repeat steps 04-01 to allocate an RB to the room

Floor1

Floor setting

Add room

Remove

* Height : The room height is used for safety assessments. Please enter a valid height for the assessment.

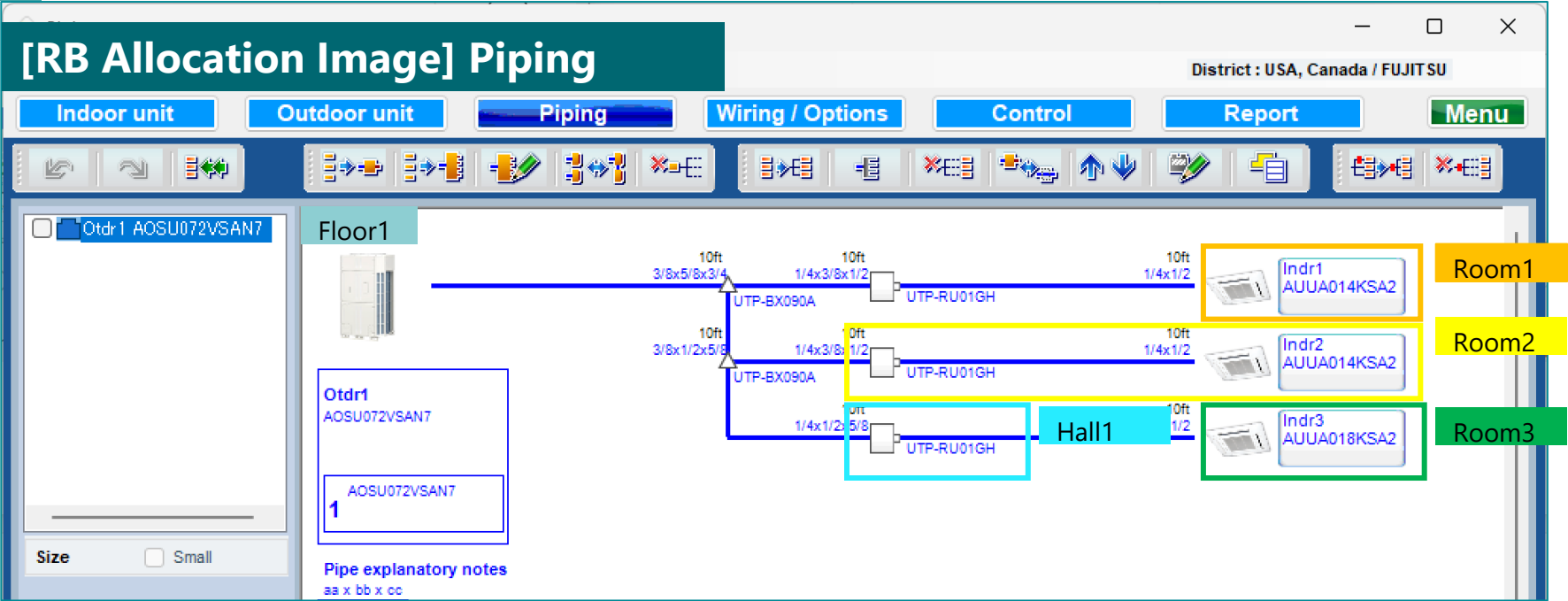
	Floor	Room	System of RB / SOV	R32 VRF Safety measures		
				Response measure 1	Response measure 2	Response measure 3
1	Floor1	Room1	None	IU Air circulation	Leakage detection	Ventilation or Shutoff valve
2	Floor1	Room2	Otdr1	IU Air circulation	Leakage detection	Ventilation
3	Floor1	Room3	None	IU Air circulation	Leakage detection	Ventilation or Shutoff valve
4	Floor1	Hall1	Otdr1	IU Air circulation	Leakage detection	Ventilation

No RB allocated

RB allocated

No RB allocated

RB allocated



04-03. (NEW) Allocate an RB to a room Enter the height of the indoor unit and RB

[Room Setting]

※Please enter the heights of RB, Room, and Indoor unit each time.

- Units (RB and room ,Indoor unite) for which height has not been entered will be excluded when calculating the effective height.
- When not all values (RB and room, Indoor unite) are entered, the indoor unit installation height will be used as the effective height.

	Floor	Room	Room height (ft)	RB / SOV height (ft)	System of RB / SOV	Response measure 1	Response measure 2
1	Floor1	Room1	6		None	IU Air circulation	Leakage detection
2	Floor1	Room2	6	6	Otdr1	IU Air circulation	Leakage detection
3	Floor1	Room3	6		None	IU Air circulation	Leakage detection
4	Floor1	Hall1	6	6	Otdr1	IU Air circulation	Leakage detection

IU Allocation

*Required input for R32 VRF Safety. **Optional

R32 Graph

Customize List

Auto-select
Gas Sensor Kit (inc. alarm) ☐ select one to an IU in the room which required safety measures

Cancel

OK

※When using a heat pump, the shutoff valve

Please check Safety measures of the report.

AIRSTAGE

Project Name :

Management Number :

Building :

Created by :

Company :

Address :

1. Material list

1.1. Material list

Series: VRF system

Model	Quantity	Type
AOSU072VSA7	1	[R32] VU-7 Heat recovery (230V)
AUUA014KSA2	2	[R32] Compact Cassette (KSA2)
AUUA018KSA2	1	[R32] Compact Cassette (KSA2)
UTY-RNRUZ5	3	Wired RC(Touch) Z5
UTG-UFUH-W	3	Cassette Grille
UTP-BX080A	2	Separation tube
UTP-RU01GH	3	RB unit

1.2. Material List 2 (Pipe)

Series: VRF system

Pipe length(ft)					
	1/4	3/8	1/2	5/8	3/4
Total	60	40	70	30	10

1.3. Material List 3 (Calculation of additional charge refrigerant)

Series: VRF system

Refrigerant	lbs
R32	2.2

1.4. Material List 4 (Locally purchased)

Results of unit selection

AIRSTAGE

1. Room list

1.1. Room list

Floor	Room	Length (ft)	Width (ft)	Height (ft)	Room Area (ft ²)	Room Volume (ft ³)	Rq TC (kBTU/h)	Rq SC (kBTU/h)	Rq HC (kBTU/h)
Floor1	Room1	14	14	14	196	2744			
Floor1	Room2	14	14	14	196	2744			
Floor1	Room3	14	14	14	196	2744			
Floor1	Hall1	14	14	14	196	2744			

Floor	Room	Tmp C (DBT)	Tmp C (RH %)	Tmp H (F)	Remarks1	Remarks2	Remarks3	Remarks4	Remarks5
Floor1	Room1	80	50.4	70					
Floor1	Room2	80	50.4	70					
Floor1	Room3	80	50.4	70					
Floor1	Hall1	80	50.4	70					

Floor	Room	Remarks6	Remarks7	Remarks8
Floor1	Room1			
Floor1	Room2			
Floor1	Room3			
Floor1	Hall1			

1.2. Room-indoor list

Floor	Room	Series	Name	Model
Floor1	Room1	V2	Indr1	AUUA014KSA2
Floor1	Room2	V2	Indr2	AUUA014KSA2
Floor1	Room3	V2	Indr3	AUUA018KSA2

1.3. R32 VRF Safety measures

Floor	Room	Response measure 1	Response measure 2	Response measure 3
Floor1	Room1	IU Air circulation	Leakage detection	Ventilation or Shutoff valve
Floor1	Room2	IU Air circulation	Leakage detection	Ventilation
Floor1	Room3	IU Air circulation	Leakage detection	Ventilation or Shutoff valve
Floor1	Hall1	IU Air circulation	Leakage detection	Ventilation

Floor	Room	Note
Floor1	Room1	
Floor1	Room2	
Floor1	Room3	
Floor1	Hall1	

Please check Safety measures



Creating a Life Conditioner