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VRF Selection Tool Software

v1.2.19

Better Air Solutions

Toshiba Carrier Corporation
TCEU Pre-Sales Division
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Scope of Disclosure	Distributions
Owner	Toshiba Carrier Corporation

1. Introduction

In this part of the training we will do 3 exercises that include:

1. Multiple system project
2. Building with different floors and rooms
3. Multiple controllers design

1. Introduction

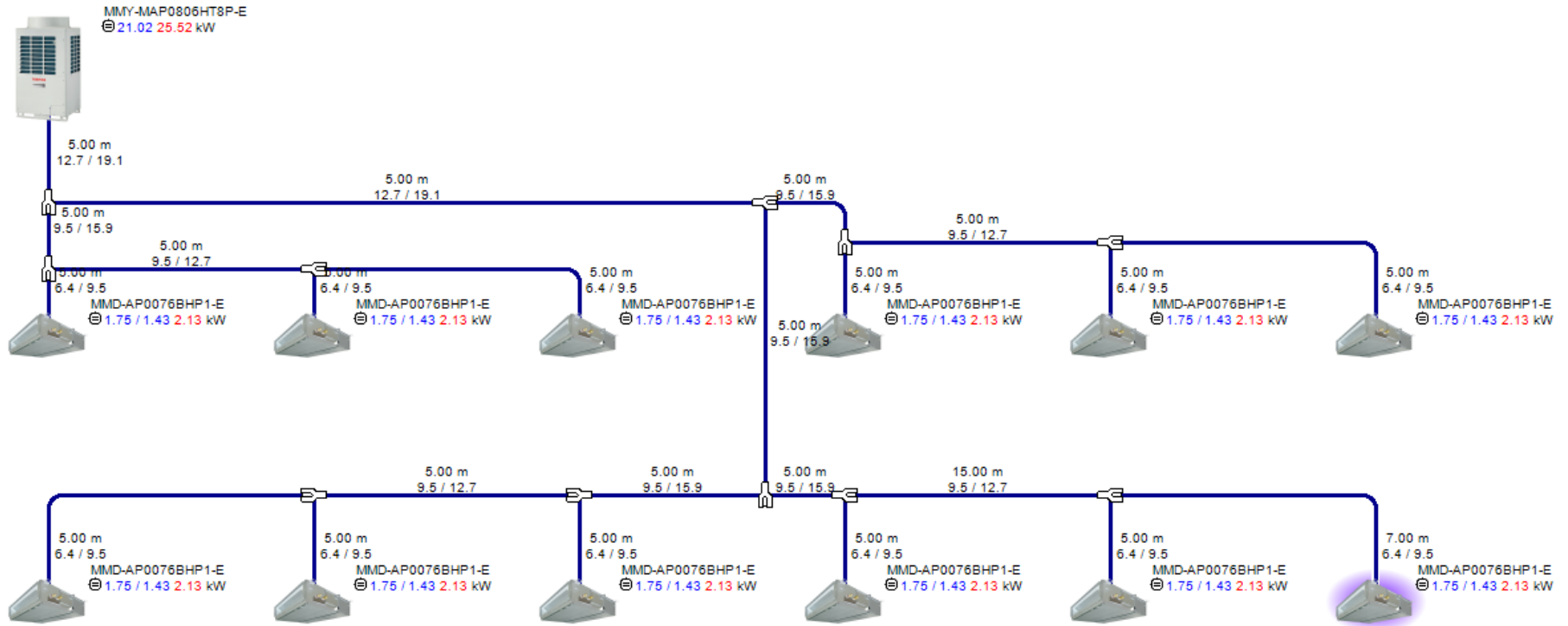2. Exercise 1

3. Exercise 2

4. Exercise 3

2. Exercise 1

Create the following design using the design, quotation and Drag & drop mode:
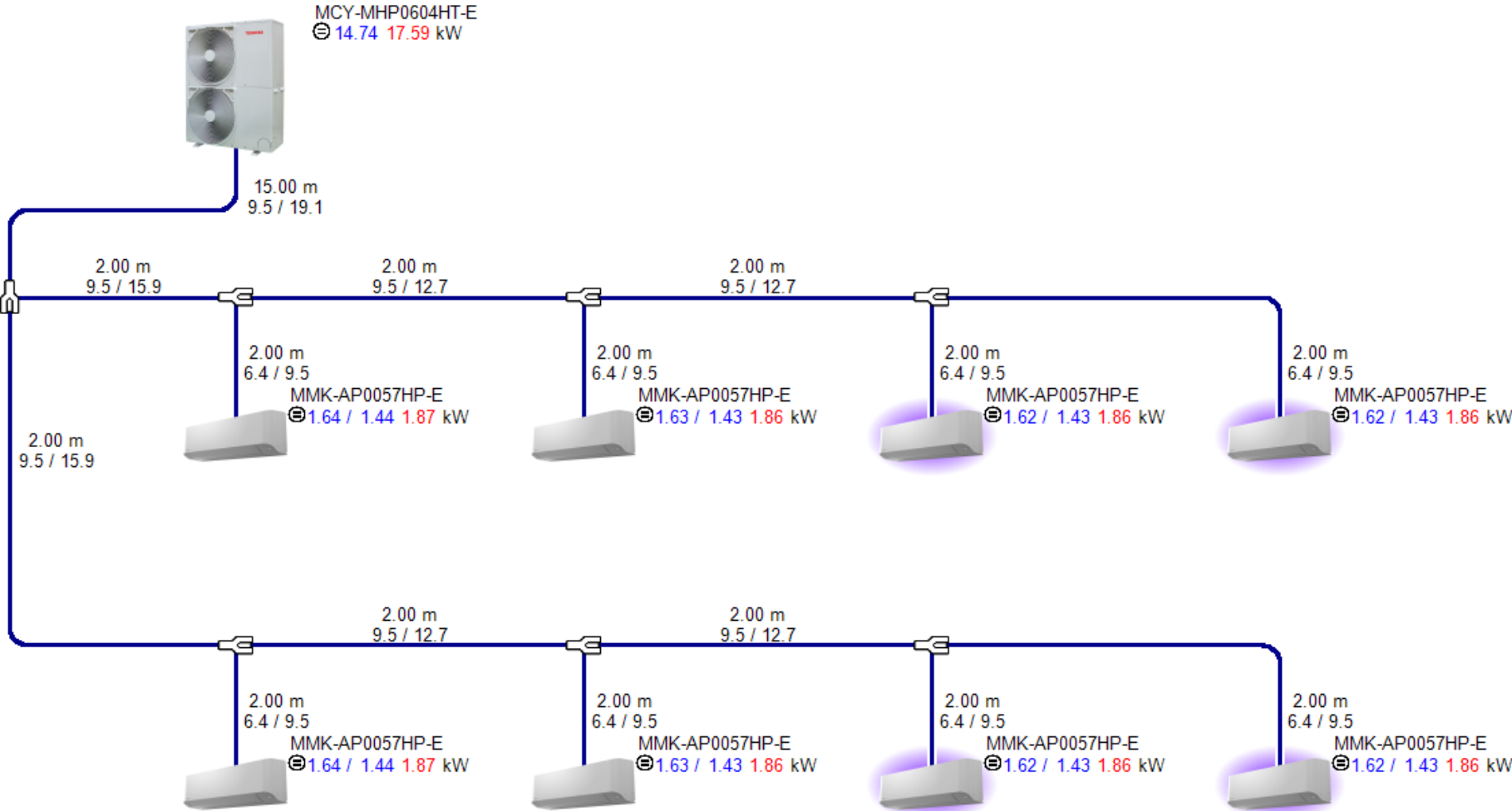
- System 1: VRF SMMSe with 12 indoor units (Concealed Duct). One flow selector every 3 indoor unit.
- System 2: Side Blow with 8 indoor units. PMV kits in 4 out of the 8 indoor units.
- System 3: (duplicate the previous one).
- Controls: One Smart Manager for the 3 systems. 2 of them through one line, the third one through another line.

2. Exercise 1

Possible System 1:

MCY-MHP0604HT-E
14.74 17.59 kW

15.00 m
9.5 / 19.1

2.00 m
9.5 / 15.9

2.00 m
9.5 / 12.7

2.00 m
9.5 / 12.7

2.00 m
9.5 / 15.9

2.00 m
6.4 / 9.5
MMK-AP0057HP-E
1.64 / 1.44 1.87 kW

2.00 m
6.4 / 9.5
MMK-AP0057HP-E
1.63 / 1.43 1.86 kW

2.00 m
6.4 / 9.5
MMK-AP0057HP-E
1.62 / 1.43 1.86 kW

2.00 m
6.4 / 9.5
MMK-AP0057HP-E
1.62 / 1.43 1.86 kW

2.00 m
9.5 / 12.7

2.00 m
9.5 / 12.7

2.00 m
6.4 / 9.5
MMK-AP0057HP-E
1.64 / 1.44 1.87 kW

2.00 m
6.4 / 9.5
MMK-AP0057HP-E
1.63 / 1.43 1.86 kW

2.00 m
6.4 / 9.5
MMK-AP0057HP-E
1.62 / 1.43 1.86 kW

2.00 m
6.4 / 9.5
MMK-AP0057HP-E
1.62 / 1.43 1.86 kW

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2. Exercise 1

Central Controller:

PC
(not supplied)

Hub/Switch
(not supplied)

BMS-SM1280HTLE

TCC Link LINE 2

TCC Link
LINE 1

System 1   12
Line Address :

System 2   8
Line Address :

System 3   8
Line Address :

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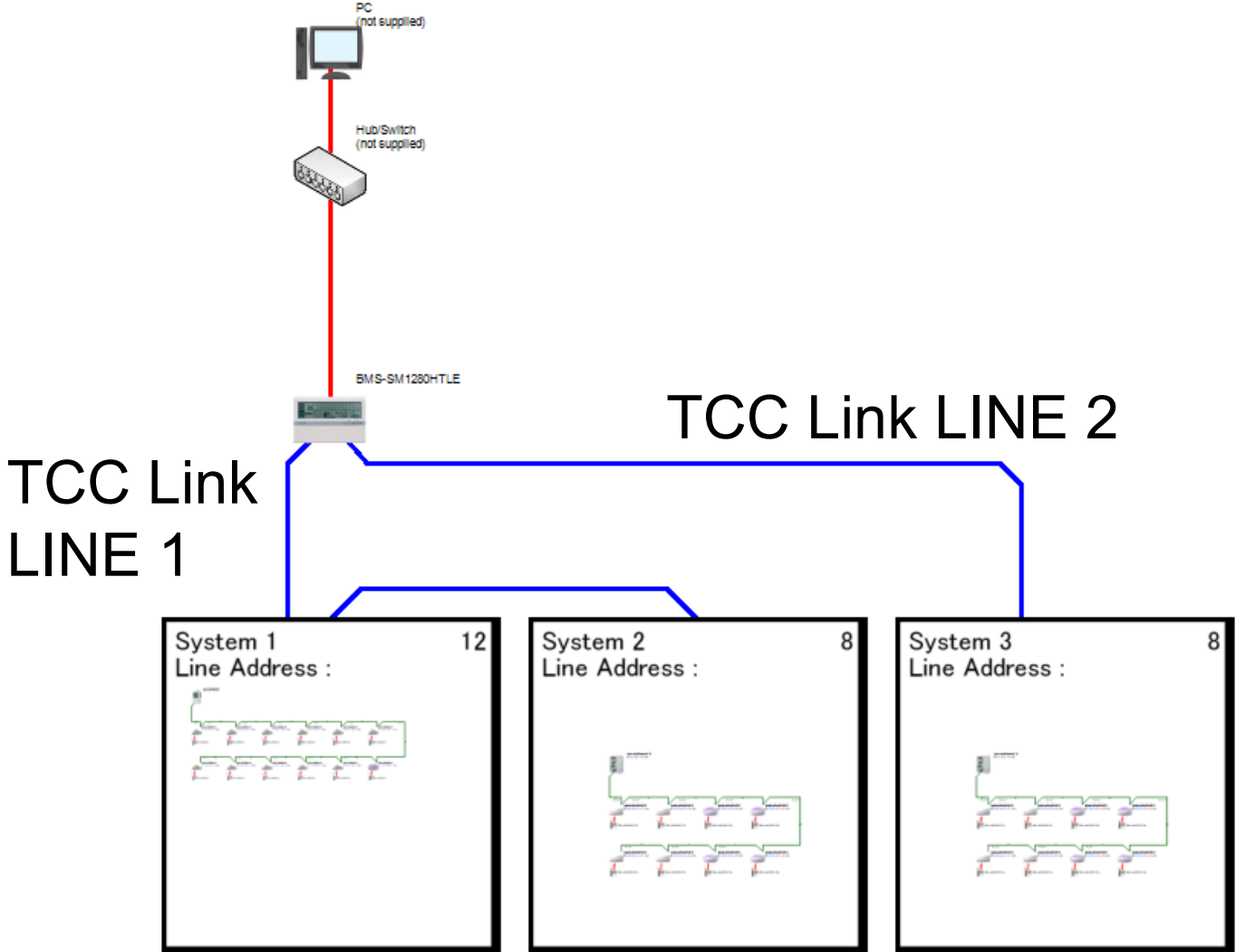
1. Introduction

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3. Exercise 2

We will realise the design of a 3 floor (3m/floor) VRF SMMSe system, with the outdoor below and the following characteristics:
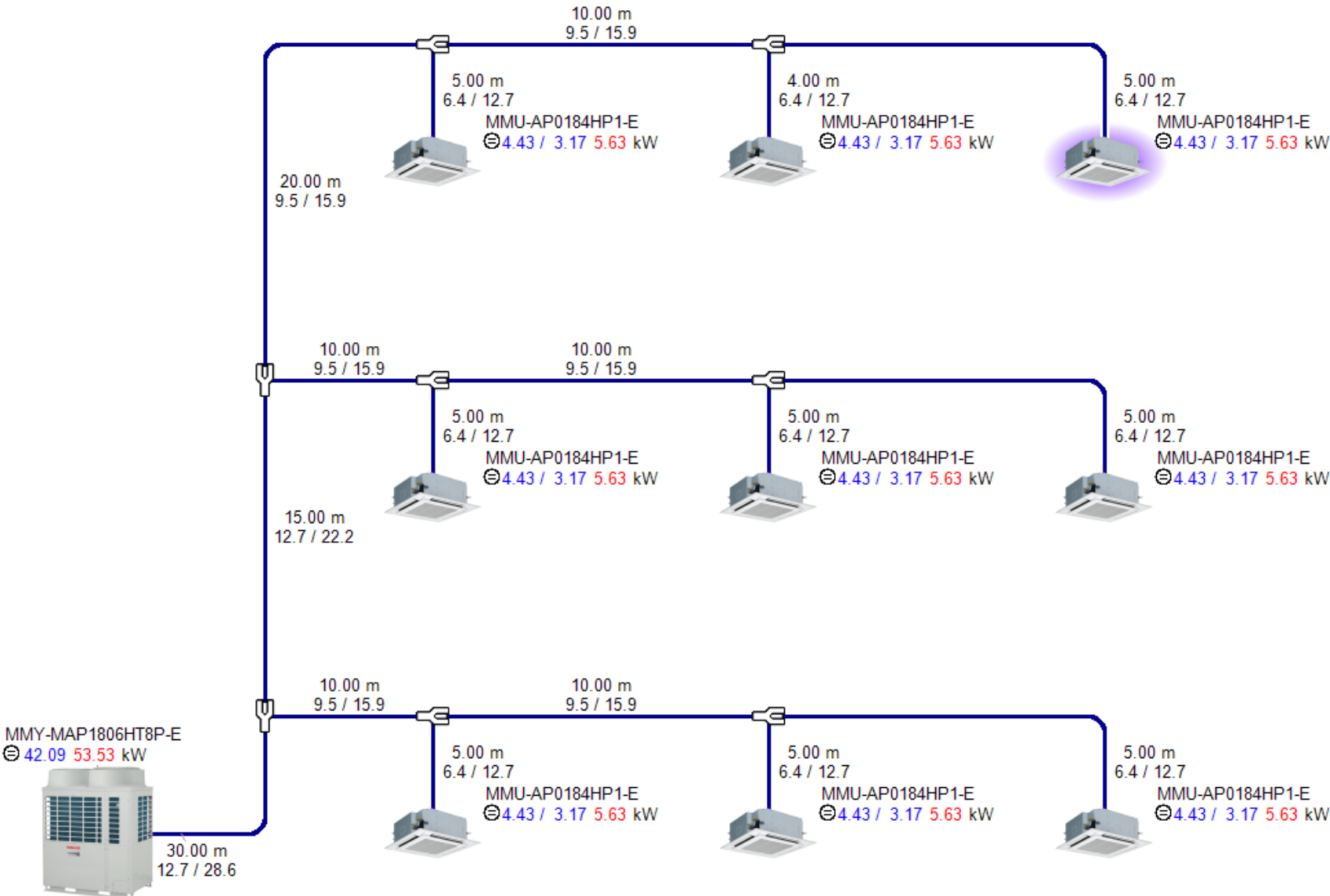
2 rooms per floor of 120m2 and 16m2. The name of the big one will be "Office x" and the name of the small one "Bathroom x" (where x is the floor number).

In each floor, there will be two 4 Way Cassette type indoor units in the office (one header, the other follower) and one Slim Duct in the bathroom.
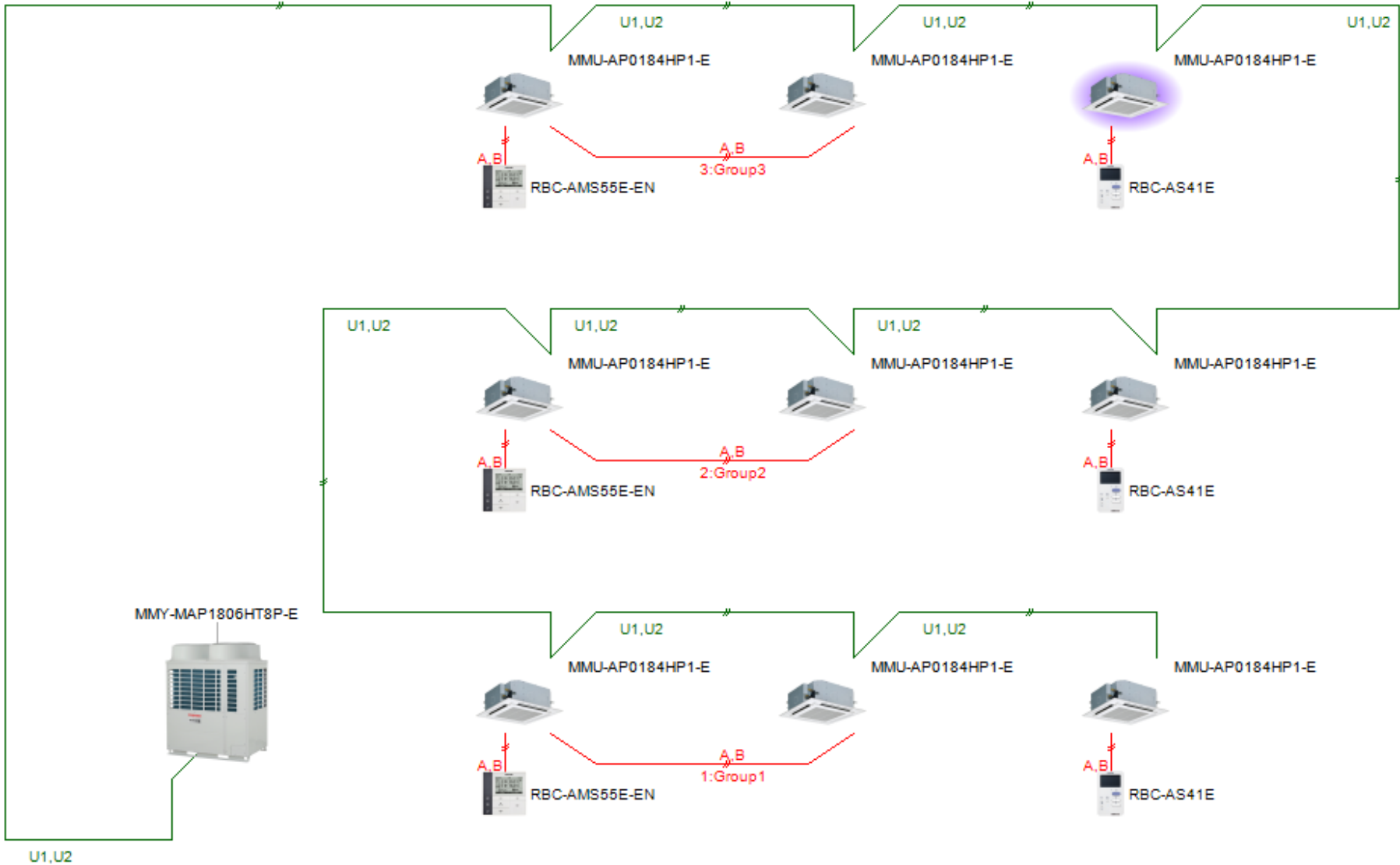
There will be a RBC-AMS55E local wired controller for each group of units (office) and the simplified controller RBC-AS41E for the bathroom units. Besides, a Window Switch is required.

Please, see the design for the pipe lengths.

3. Exercise 2

10.00 m
9.5 / 15.9

5.00 m
6.4 / 12.7
MMU-AP0184HP1-E
⊜4.43 / 3.17 5.63 kW

4.00 m
6.4 / 12.7
MMU-AP0184HP1-E
⊜4.43 / 3.17 5.63 kW

5.00 m
6.4 / 12.7
MMU-AP0184HP1-E
⊜4.43 / 3.17 5.63 kW

20.00 m
9.5 / 15.9

10.00 m
9.5 / 15.9

10.00 m
9.5 / 15.9

5.00 m
6.4 / 12.7
MMU-AP0184HP1-E
⊜4.43 / 3.17 5.63 kW

5.00 m
6.4 / 12.7
MMU-AP0184HP1-E
⊜4.43 / 3.17 5.63 kW

5.00 m
6.4 / 12.7
MMU-AP0184HP1-E
⊜4.43 / 3.17 5.63 kW

15.00 m
12.7 / 22.2

10.00 m
9.5 / 15.9

10.00 m
9.5 / 15.9

5.00 m
6.4 / 12.7
MMU-AP0184HP1-E
⊜4.43 / 3.17 5.63 kW

5.00 m
6.4 / 12.7
MMU-AP0184HP1-E
⊜4.43 / 3.17 5.63 kW

5.00 m
6.4 / 12.7
MMU-AP0184HP1-E
⊜4.43 / 3.17 5.63 kW

MMY-MAP1806HT8P-E
⊜42.09 53.53 kW

30.00 m
12.7 / 28.6

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3. Exercise 3

We are going to create a project based on the previous systems

- Import the previous two exercises into a new project

- Set different design conditions for each system

- On system 4, set different design conditions for the rooms

- Set Accessories to the units

- Set a project quotation

- Set the Address settings

- Verify that the project is not out of specification

- Create PDF output

- Create CAD output