

Project Name: ΠΑΛΑΙΟ ΕΙΡΗΝΟΔΙΚΕΙΟ

Created Date: 02/06/2020

Client Name: ΠΟΛΙΤΙΣΤΙΚΟΣ ΣΥΛΛΟΓΟΣ ΚΑΛΟΥ ΧΩΡΙΟΥ "Ο ΜΑΖ

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Project Ref No:

Project Ref Text:

Project Revision:



Client:	ΠΟΛΙΤΙΣΤΙΚΟΣ ΣΥΛΛΟΓΟΣ ΚΑΛΟΥ ΧΩΡΙΟΥ "Ο ΜΑΖΑΣ"
To:	
Tel:	
Email:	
Address:	ΚΑΛΟ ΧΩΡΙΟ ΠΕΔΙΑΔΟΣ

Project Name:	ΠΑΛΑΙΟ ΕΙΡΗΝΟΔΙΚΕΙΟ
Quote No:	0
Quote Ref:	
Revision:	0

Site Name:	
Contact:	
Tel:	
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Project Ref No:	
Project Ref Text:	
Project Revision:	

Comment:	
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ΠΑΛΑΙΟ ΕΙΡΗΝΟΔΙΚΕΙΟ

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**Project:** ΠΑΛΑΙΟ ΕΙΡΗΝΟΔΙΚΕΙΟ

**Notes:** Equivalent length is calculated by coefficients:  
1,2:ΣΥΣΤΗΜΑ ΙΣΟΓΕΙΟΥ, ΣΥΣΤΗΜΑ Α ΟΡΟΦΟΥ  
The user is responsible for ensuring that all data entered is correct.  
Equipment selections have been based on the Design Guidelines stated within the Toshiba SMMS-e/SHRM-e/SMMS-7/MiNi-SMMS7/MiNi-SMMS-e/Side Blow VRF/MiNi-SMMS Installation Manual.  
It is the responsibility of the consultant or contractor, to verify and confirm that the equipment selection and system design is correct before installation.  
Please note that in the event of future system expansion being allowed for in the system design or a change in cooling/heating requirements, a re-evaluation of the air conditioning system must be made prior to final installation.

**ΣΥΣΤΗΜΑ  
ΙΣΟΓΕΙΟΥ:**

**ΣΥΣΤΗΜΑ Α  
ΟΡΟΦΟΥ:**

ΠΑΛΑΙΟ ΕΙΡΗΝΟΔΙΚΕΙΟOutdoor Units

Model	Quantity	Description
MCY-MHP0504HS-E	1	MiNi Super Modular Multi System (MiNi-SMMS-e)
MCY-MHP0604HS-E	1	MiNi Super Modular Multi System (MiNi-SMMS-e)

Indoor Units

Model	Quantity	Description
MML-AP0074NH1-E	1	0,8HP Bi-Flow Console
MML-AP0094NH1-E	2	1,0HP Bi-Flow Console
MML-AP0124NH1-E	2	1,3HP Bi-Flow Console
MML-AP0154NH1-E	3	1,7HP Bi-Flow Console
MML-AP0184NH1-E	1	2,0HP Bi-Flow Console

Y Joints

Model	Quantity	Description
RBM-BY55E	7	Y-Joint

Piping Length

Pipe Diameter	Total Length	Gas Side	Discharge Side	Liquid Side
1/4"	22,30 m	0,00 m	0,00 m	22,30 m
3/8"	44,30 m	12,80 m	0,00 m	31,50 m
1/2"	14,00 m	14,00 m	0,00 m	0,00 m
5/8"	20,80 m	20,80 m	0,00 m	0,00 m
3/4"	6,20 m	6,20 m	0,00 m	0,00 m

Total Refrigerant Charge Amount

Refrigerant (R410A)	Amount	Description
Outdoor Unit	6,400 kg	Refrigerant amount charged in factory
Additional Refrigerant	1,556 kg	Amount needed for the pipes at the site
Outdoor Unit	6,400 kg	Refrigerant amount charged in factory
Additional Refrigerant	1,934 kg	Amount needed for the pipes at the site
<b>TOTAL:</b>	<b>16,290 kg</b>	

Outdoor Design Temperature

System	Mode	Description	Temperature
ΣΥΣΤΗΜΑ ΙΣΟΓΕΙΟΥ	Cooling	Dry Bulb temperature	35,0 °C
	Heating	Wet Bulb temperature	6,0 °C
ΣΥΣΤΗΜΑ Α ΟΡΟΦΟΥ	Cooling	Dry Bulb temperature	35,0 °C
	Heating	Wet Bulb temperature	6,0 °C

## ΠΑΛΑΙΟ ΕΙΡΗΝΟΔΙΚΕΙΟ Compliance

## ΣΥΣΤΗΜΑ ΙΣΟΓΕΙΟΥ

Rules	Specification	Design	Ok
Outdoor Units	-	1 Unit	✓
Indoor Units (Control Boards)	10 Unit	4 Unit	✓
Outdoor Combined Rated HP	-	5 HP	✓
Outdoor Combined Rated Cooling	-	14,00 kW	✓
Outdoor Combined Rated Heating	-	16,00 kW	✓
Indoor Combined Rated Cooling	-	15,10 kW	✓
Indoor Combined Corrected Cooling	-	13,68 kW	✓
Indoor Combined Rated Heating	-	17,00 kW	✓
Indoor Combined Corrected Heating	-	16,01 kW	✓
Indoor Units Combined Capacity Code	-	5,50	✓
Outdoor Combined Capacity Code	-	5	✓
Outdoor DB (Cooling) temperature range	-5,0°C - 46,0°C	35,0°C	✓
Outdoor WB (Heating) temperature range	-20,0°C - 15,5°C	6,0°C	✓
Indoor DB (Cooling) temperature range	18,0°C - 32,0°C	27,0°C	✓
Indoor WB (Cooling) temperature range	15,0°C - 24,0°C	19,0°C	✓
Indoor RH (Cooling) range	20% - 80%	47%	✓
Indoor DB (Heating) temperature range	15,0°C - 28,0°C	20,0°C	✓
Capacity Ratio	80 - 130%	110,0 %	✓
Total Pipe Length	180,00 m	25,50 m	✓
Farthest Piping Real Length	100,00 m	20,80 m	✓
Farthest Piping Equivalent Length	125,00 m	24,96 m	✓
Farthest Piping From 1st Indoor Branching Equivalent Length	35,00 m	15,36 m	✓
Main Piping Equivalent Length(L1e)	65,00 m	9,60 m	✓
Greatest Indoor Unit Connecting Piping Real Length	15,00 m	3,50 m	✓
Highest Indoor Unit	20,00 m	0,00 m	✓
Lowest Indoor Unit	30,00 m	0,00 m	✓
Greatest Height Between Indoor and Outdoor Units(H1)	-	0,00 m	✓
Greatest Height Difference Between Indoor Units(H2)	15,00 m	0,00 m	✓
Limit Density	0,390 kg/m <sup>3</sup>	0,000 kg/m <sup>3</sup>	✓
Additional Charge	-	1,556 kg	✓
Total Charge	-	7,956 kg	✓
Central Control			✓

Overall

✓

## ΠΑΛΑΙΟ ΕΙΡΗΝΟΔΙΚΕΙΟ Compliance

## ΣΥΣΤΗΜΑ Α ΟΡΟΦΟΥ

Rules	Specification	Design	Ok
Outdoor Units	-	1 Unit	✓
Indoor Units (Control Boards)	13 Unit	5 Unit	✓
Outdoor Combined Rated HP	-	6 HP	✓
Outdoor Combined Rated Cooling	-	15,50 kW	✓
Outdoor Combined Rated Heating	-	18,00 kW	✓
Indoor Combined Rated Cooling	-	19,00 kW	✓
Indoor Combined Corrected Cooling	-	15,86 kW	✓
Indoor Combined Rated Heating	-	21,20 kW	✓
Indoor Combined Corrected Heating	-	18,41 kW	✓
Indoor Units Combined Capacity Code	-	6,90	✓
Outdoor Combined Capacity Code	-	6	✓
Outdoor DB (Cooling) temperature range	-5,0°C - 46,0°C	35,0°C	✓
Outdoor WB (Heating) temperature range	-20,0°C - 15,5°C	6,0°C	✓
Indoor DB (Cooling) temperature range	18,0°C - 32,0°C	27,0°C	✓
Indoor WB (Cooling) temperature range	15,0°C - 24,0°C	19,0°C	✓
Indoor RH (Cooling) range	20% - 80%	47%	✓
Indoor DB (Heating) temperature range	15,0°C - 28,0°C	20,0°C	✓
Capacity Ratio	80 - 130%	115,0 %	✓
Total Pipe Length	180,00 m	28,30 m	✓
Farthest Piping Real Length	100,00 m	18,00 m	✓
Farthest Piping Equivalent Length	125,00 m	21,60 m	✓
Farthest Piping From 1st Indoor Branching Equivalent Length	35,00 m	14,16 m	✓
Main Piping Equivalent Length(L1e)	65,00 m	7,44 m	✓
Greatest Indoor Unit Connecting Piping Real Length	15,00 m	5,50 m	✓
Highest Indoor Unit	20,00 m	0,00 m	✓
Lowest Indoor Unit	30,00 m	0,00 m	✓
Greatest Height Between Indoor and Outdoor Units(H1)	-	0,00 m	✓
Greatest Height Difference Between Indoor Units(H2)	15,00 m	0,00 m	✓
Limit Density	0,390 kg/m <sup>3</sup>	0,000 kg/m <sup>3</sup>	✓
Additional Charge	-	1,934 kg	✓
Total Charge	-	8,334 kg	✓
Central Control			✓

Overall ✓



## ΣΥΣΤΗΜΑ ΙΣΟΓΕΙΟΥ

**Outdoor Units**

Model	Quantity	Description
MCY-MHP0504HS-E	1	Mini Super Modular Multi System (Mini-SMMS-e)

**Indoor Units**

Model	Quantity	Description
MML-AP0074NH1-E	1	0,8HP Bi-Flow Console
MML-AP0094NH1-E	1	1,0HP Bi-Flow Console
MML-AP0154NH1-E	1	1,7HP Bi-Flow Console
MML-AP0184NH1-E	1	2,0HP Bi-Flow Console

**Y Joints**

Model	Quantity	Description
RBM-BY55E	3	Y-Joint

**Piping Length**

Pipe Diameter	Total Length	Gas Side	Discharge Side	Liquid Side
1/4"	8,20 m	0,00 m	0,00 m	8,20 m
3/8"	22,00 m	4,70 m	0,00 m	17,30 m
1/2"	8,00 m	8,00 m	0,00 m	0,00 m
5/8"	12,80 m	12,80 m	0,00 m	0,00 m

**Total Refrigerant Charge Amount**

Refrigerant (R410A)	Amount	Description
Outdoor Unit	6,400 kg	Refrigerant amount charged in factory
Additional Refrigerant	1,556 kg	Amount needed for the pipes at the site
<b>TOTAL:</b>	<b>7,956 kg</b>	

**Outdoor Design Temperature**

Mode	Description	Temperature
Cooling	Dry Bulb temperature	35,0 °C
Heating	Wet Bulb temperature	6,0 °C

**Electronic Information(OutdoorUnits)**

Property	Value	Description
MOCP(A)	16	Maximum Overcurrent Protection
MCA(A)	12,5	Minimum Circuit Amps
Protection Device Size(A)		Follow applicable local standard as needed
Wire(cable size)(mm <sup>2</sup> ) or AWG(#)		Follow applicable local standard as needed

**Electronic Information(IndoorUnits)**

Property	Value	Description
Total MCA(A)	1,5	
Protection Device Size(A)		Follow applicable local standard as needed
Wire(cable size)(mm <sup>2</sup> ) or AWG(#)		Follow applicable local standard as needed



ΣΥΣΤΗΜΑ ΙΣΟΓΕΙΟΥ

Outdoor Unit

Model Name	Cooling (kW)		Heating (kW)		Diversity	
	Rated	Corrected	Rated	Corrected	System	Building
MCY-MHP0504HS-E	14,00	13,68	16,00	16,01	110%	0%

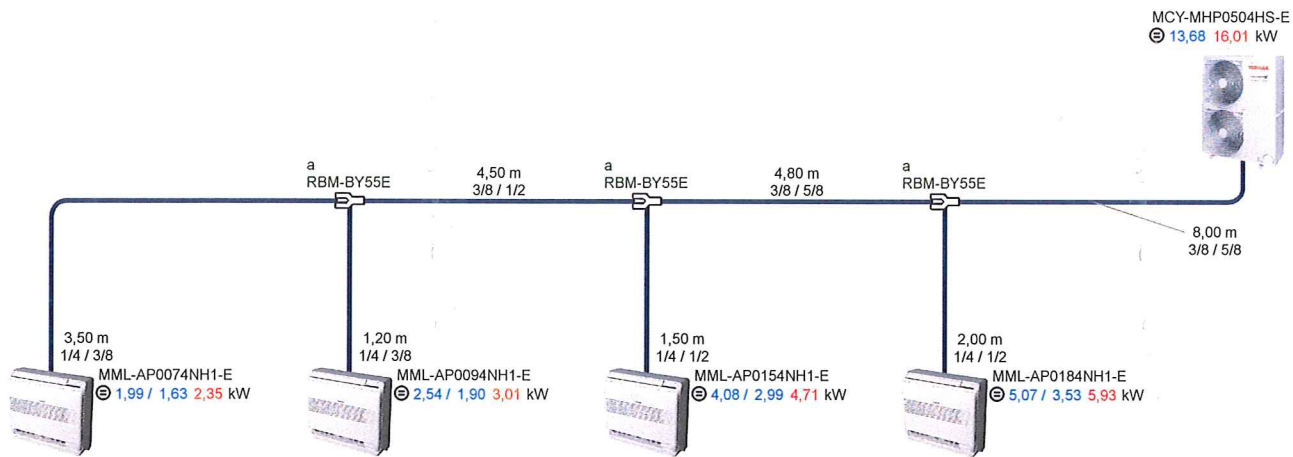
Outdoor Unit Combination

Header	Follower1	Follower2	Follower3	Follower4
MCY-MHP0504HS-E				

Indoor Units

Model Name	UnitName &Room	Capacity Code	Fan Speed Air flow (m³/h)	Mode	Capacity (Total/Sensible) [kW]		
					Rated	Corrected	Required
MML-AP0184NH1-E		2	High 726	Cooling	5,60/3,90	5,07/3,53	0,00/0,00
				Heating	6,30	5,93	0,00
MML-AP0154NH1-E		1,7	High 624	Cooling	4,50/3,30	4,08/2,99	0,00/0,00
				Heating	5,00	4,71	0,00
MML-AP0094NH1-E		1	High 510	Cooling	2,80/2,10	2,54/1,90	0,00/0,00
				Heating	3,20	3,01	0,00
MML-AP0074NH1-E		0,8	High 510	Cooling	2,20/1,80	1,99/1,63	0,00/0,00
				Heating	2,50	2,35	0,00

ΣΥΣΤΗΜΑ ΙΣΟΓΕΙΟΥ



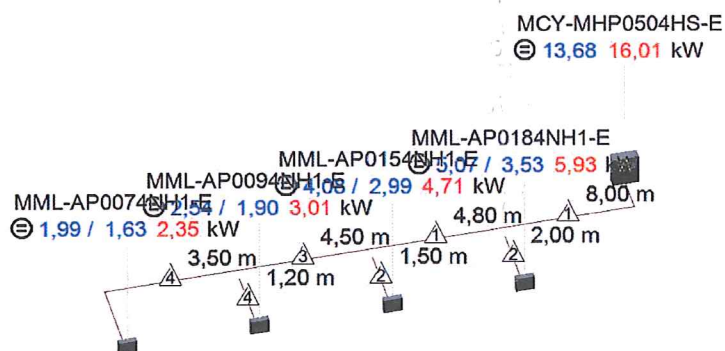
System information	
Indoor Units	4 of 10
Capacity Ratio	110,0%
Total Pipe Length	25,50 m
Indoor Cap. Tot./Sen.	13,68 kW/10,06 kW
Indoor Cap. Heat.	16,01 kW
Building diversity	0%

Outdoor/Indoor Legend	
Unit Name	
Model Name	
Room Name	
⊖ Corrected capacity	Tot./Sens./ Heat.

Piping Legend	
Actual Length	
Liquid / Suction Gas diameters	
Note: It is the responsibility of the consultant or contractor, to verify and confirm that the equipment selection and system design is correct before installation.	

Branches Legend	
a	RBM-BY55E (x3)

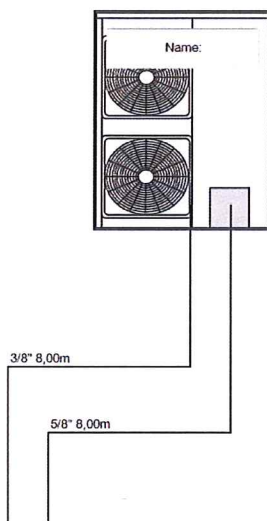
a	RBM-BY55E	(x3)
1	3/8" 5/8"	
2	1/4" 1/2"	
3	3/8" 1/2"	
4	1/4" 3/8"	



Customer:	ΠΟΛΙΤΙΣΤΙΚΟΣ ΣΥΛΛΟΓΟΣ ΚΑΛΟΥ ΧΩΡΙΟΥ "Ο ΜΑΖΑΣ"
Project:	ΠΑΛΑΙΟ ΕΙΡΗΝΟΔΙΚΕΙΟ
System:	ΣΥΣΤΗΜΑ ΙΣΟΓΕΙΟΥ
Date:	02/06/2020
Scale:	None

## ΣΥΣΤΗΜΑ ΙΣΟΓΕΙΟΥ

MCY-MHP0504HS-E



## Accessories Header

Follower1

Follower2

Follower3

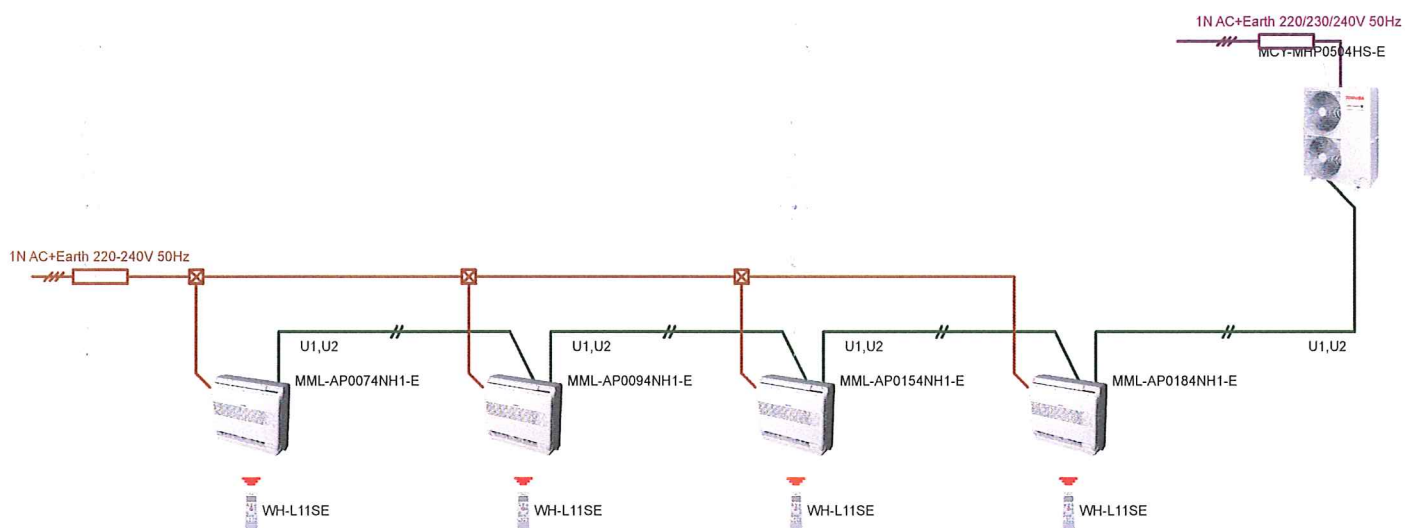
Follower4

## Electrical Information

Summary: 1N AC+Earth 220/230/240V 50Hz

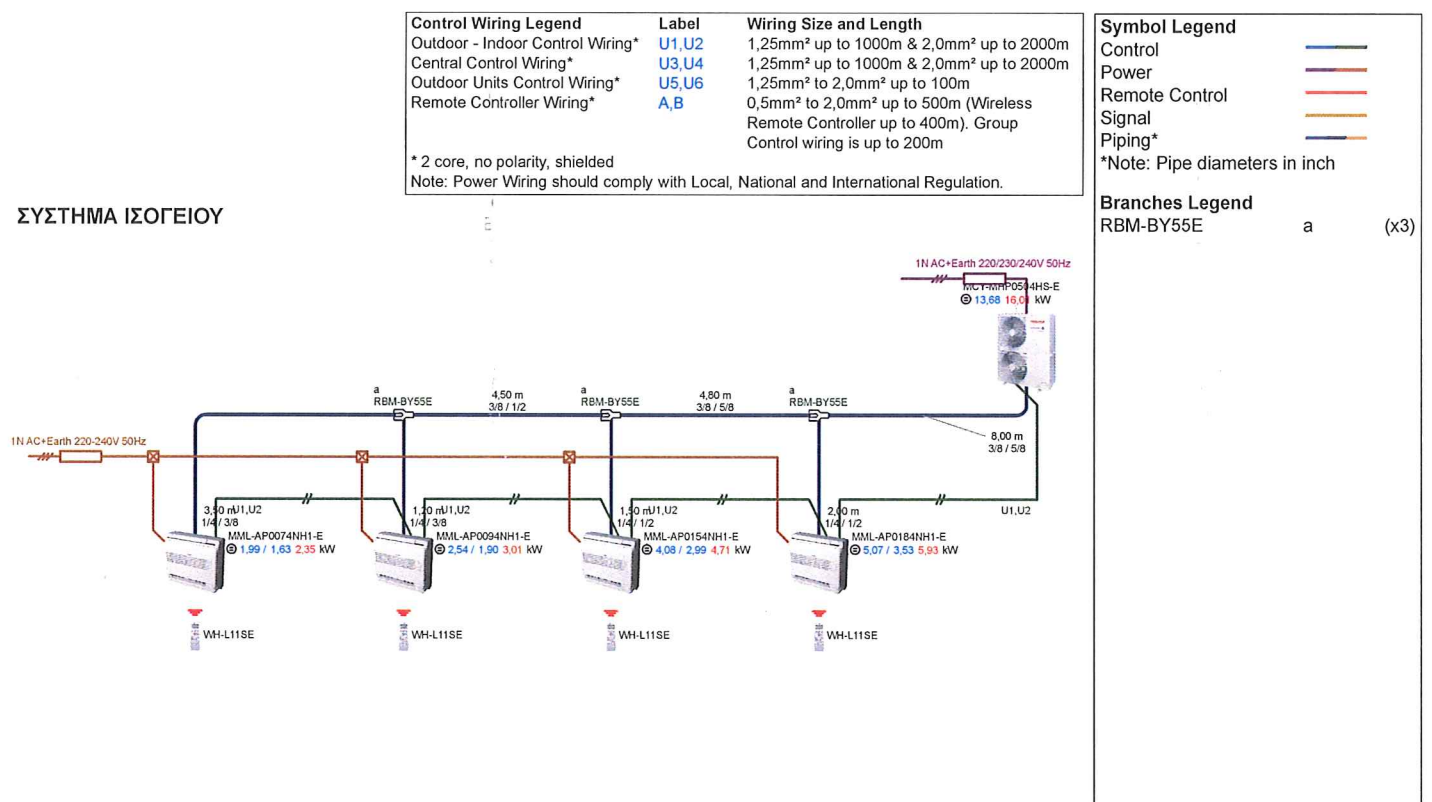
Slot 1  
Slot 2  
Slot 3  
Slot 4  
Slot 5

**ΣΥΣΤΗΜΑ ΙΣΟΓΕΙΟΥ**





### Piping & Wiring Diagram



## ΣΥΣΤΗΜΑ Α ΟΡΟΦΟΥ

**Outdoor Units**

Model	Quantity	Description
MCY-MHP0604HS-E	1	MiNi Super Modular Multi System (MiNi-SMMS-e)

**Indoor Units**

Model	Quantity	Description
MML-AP0094NH1-E	1	1,0HP Bi-Flow Console
MML-AP0124NH1-E	2	1,3HP Bi-Flow Console
MML-AP0154NH1-E	2	1,7HP Bi-Flow Console

**Y Joints**

Model	Quantity	Description
RBM-BY55E	4	Y-Joint

**Piping Length**

Pipe Diameter	Total Length	Gas Side	Discharge Side	Liquid Side
1/4"	14,10 m	0,00 m	0,00 m	14,10 m
3/8"	22,30 m	8,10 m	0,00 m	14,20 m
1/2"	6,00 m	6,00 m	0,00 m	0,00 m
5/8"	8,00 m	8,00 m	0,00 m	0,00 m
3/4"	6,20 m	6,20 m	0,00 m	0,00 m

**Total Refrigerant Charge Amount**

Refrigerant (R410A)	Amount	Description
Outdoor Unit	6,400 kg	Refrigerant amount charged in factory
Additional Refrigerant	1,934 kg	Amount needed for the pipes at the site
<b>TOTAL:</b>	<b>8,334 kg</b>	

**Outdoor Design Temperature**

Mode	Description	Temperature
Cooling	Dry Bulb temperature	35,0 °C
Heating	Wet Bulb temperature	6,0 °C

**Electronic Information(OutdoorUnits)**

Property	Value	Description
MOC(P)(A)	16	Maximum Overcurrent Protection
MCA(A)	12,5	Minimum Circuit Amps
Protection Device Size(A)		Follow applicable local standard as needed
Wire(cable size)(mm <sup>2</sup> ) or AWG(#)		Follow applicable local standard as needed

**Electronic Information(IndoorUnits)**

Property	Value	Description
Total MCA(A)	1,68	
Protection Device Size(A)		Follow applicable local standard as needed
Wire(cable size)(mm <sup>2</sup> ) or AWG(#)		Follow applicable local standard as needed

ΣΥΣΤΗΜΑ Α ΟΡΟΦΟΥ

Outdoor Unit

Model Name	Cooling (kW)		Heating (kW)		Diversity	
	Rated	Corrected	Rated	Corrected	System	Building
MCY-MHP0604HS-E	15,50	15,86	18,00	18,41	115%	0%

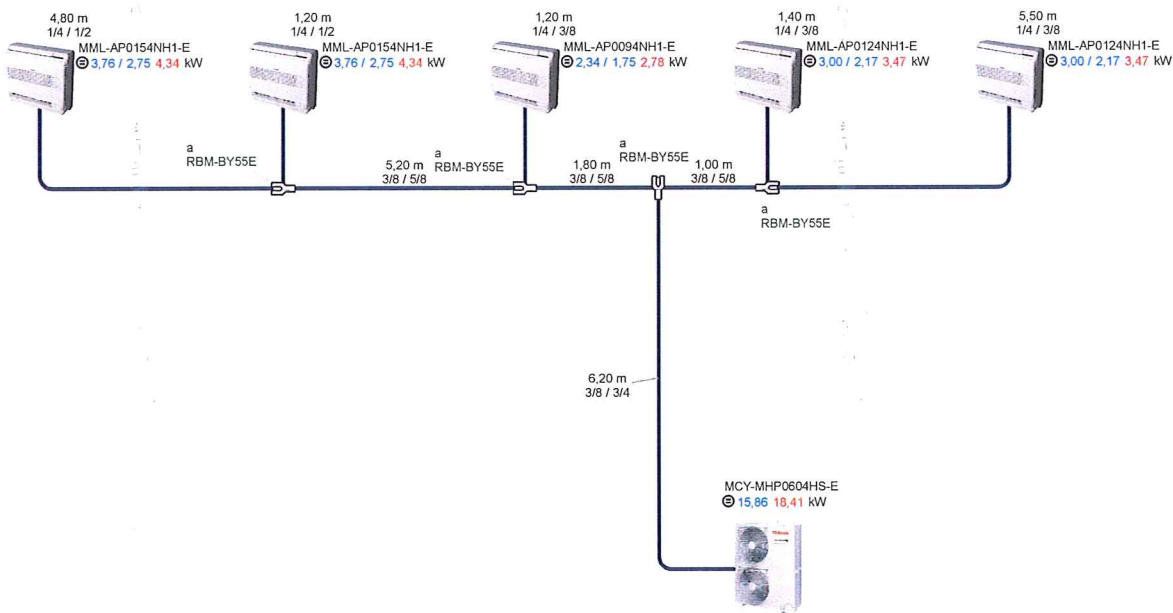
Outdoor Unit Combination

Header	Follower1	Follower2	Follower3	Follower4
MCY-MHP0604HS-E				

Indoor Units

Model Name	UnitName &Room	Capacity Code	Fan Speed Air flow (m³/h)	Mode	Capacity (Total/Sensible) [kW]		
					Rated	Corrected	Required
MML-AP0124NH1-E		1,25	High 552	Cooling	3,60/2,60	3,00/2,17	0,00/0,00
				Heating	4,00	3,47	0,00
MML-AP0154NH1-E		1,7	High 624	Cooling	4,50/3,30	3,76/2,75	0,00/0,00
				Heating	5,00	4,34	0,00
MML-AP0154NH1-E		1,7	High 624	Cooling	4,50/3,30	3,76/2,75	0,00/0,00
				Heating	5,00	4,34	0,00
MML-AP0124NH1-E		1,25	High 552	Cooling	3,60/2,60	3,00/2,17	0,00/0,00
				Heating	4,00	3,47	0,00
MML-AP0094NH1-E		1	High 510	Cooling	2,80/2,10	2,34/1,75	0,00/0,00
				Heating	3,20	2,78	0,00

ΣΥΣΤΗΜΑ Α ΟΡΟΦΟΥ



System information	
Indoor Units	5 of 13
Capacity Ratio	115,0%
Total Pipe Length	28,30 m
Indoor Cap. Tot./Sen.	15,86 kW/11,60 kW
Indoor Cap. Heat	18,41 kW
Building diversity	0%

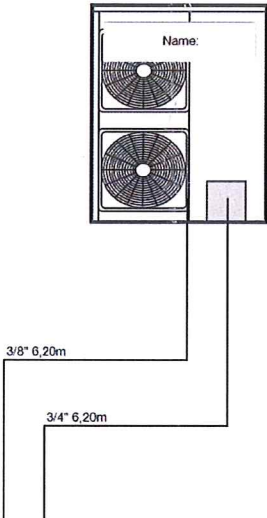
Outdoor/Indoor Legend	
Unit Name	
Model Name	
Room Name	
⊖ Corrected capacity	Tot./Sens./ Heat

Piping Legend	
Actual Length	
Liquid / Suction Gas diameters	
Note: It is the responsibility of the consultant or contractor, to verify and confirm that the equipment selection and system design is correct before installation.	

Branches Legend	
a	RBM-BY55E (x4)



Outdoor Unit Details

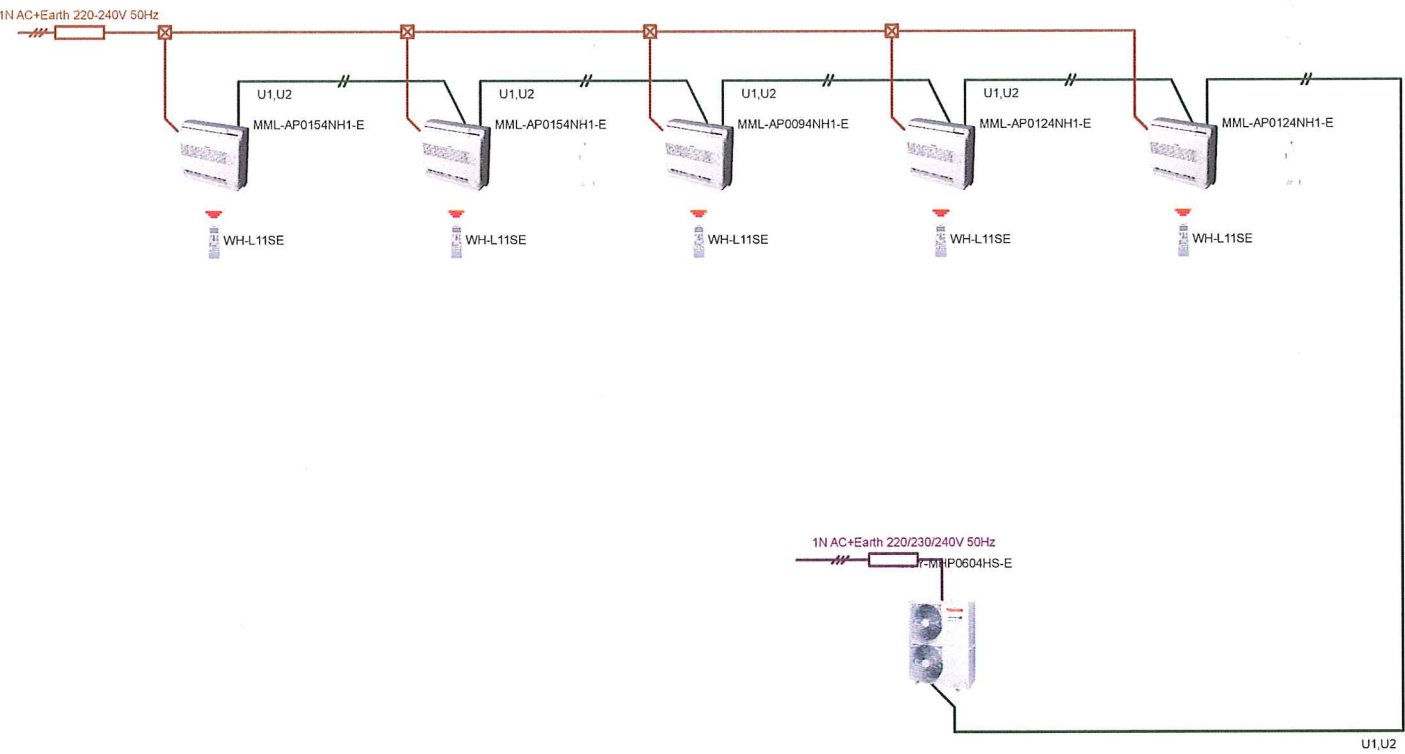
ΣΥΣΤΗΜΑ Α ΟΡΟΦΟΥ		MCY-MHP0604HS-E				
						
Accessories Header		Follower1	Follower2	Follower3	Follower4	Electrical Information
Slot 1						Summary: 1N AC+Earth 220/230/240V 50Hz
Slot 2						
Slot 3						
Slot 4						
Slot 5						





System Wiring Diagram

ΣΥΣΤΗΜΑ Α ΟΡΟΦΟΥ





Piping & Wiring Diagram

Control Wiring Legend	Label	Wiring Size and Length
Outdoor - Indoor Control Wiring*	U1,U2	1,25mm² up to 1000m & 2,0mm² up to 2000m
Central Control Wiring*	U3,U4	1,25mm² up to 1000m & 2,0mm² up to 2000m
Outdoor Units Control Wiring*	U5,U6	1,25mm² to 2,0mm² up to 100m
Remote Controller Wiring*	A,B	0,5mm² to 2,0mm² up to 500m (Wireless Remote Controller up to 400m). Group Control wiring is up to 200m

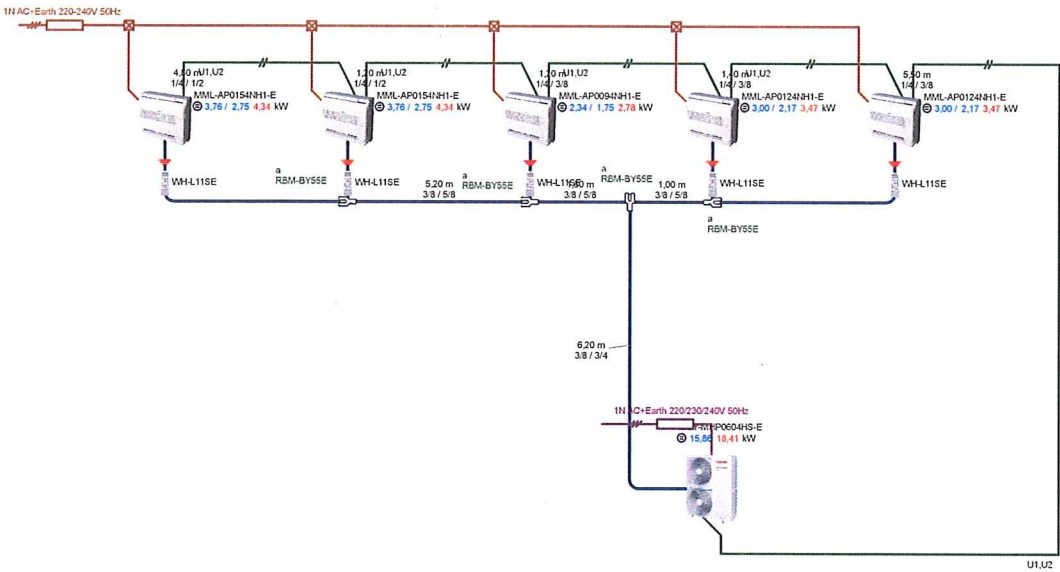
\* 2 core, no polarity, shielded  
Note: Power Wiring should comply with Local, National and International Regulation.

Symbol Legend	
Control	
Power	
Remote Control	
Signal	
Piping*	

\*Note: Pipe diameters in inch

Branches Legend		
RBM-BY55E	a	(x4)

ΣΥΣΤΗΜΑ Α ΟΡΟΦΟΥ

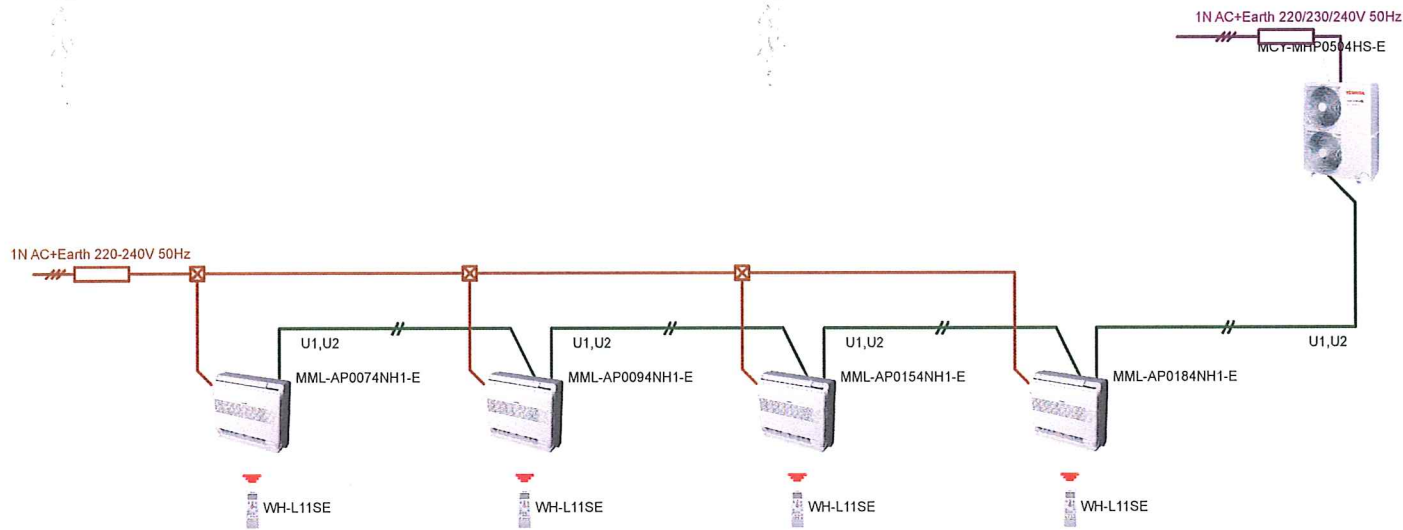


Control Wiring Legend	Label	Wiring	Wiring Size and Length
Outdoor - Indoor Control Wiring	U1,U2	2 core, no polarity, shielded	1,25mm <sup>2</sup> up to 1000m & 2,0mm <sup>2</sup> up to 2000m
Central Control Wiring	U3,U4	2 core, no polarity, shielded	1,25mm <sup>2</sup> up to 1000m & 2,0mm <sup>2</sup> up to 2000m
Outdoor Units Control Wiring	U5,U6	2 core, no polarity, shielded	1,25mm <sup>2</sup> to 2,0mm <sup>2</sup> up to 100m
Remote Controller Wiring	A,B	2 core, no polarity, shielded	0,5mm <sup>2</sup> to 2,0mm <sup>2</sup> up to 500m (Wireless Remote Controller up to 400m). Group Control wiring is up to 200m

Symbol Legend
Multi Flow Selector
Flow Selector
PMV kit
Electrical isolator

Note: Power Wiring should comply with Local, National and International Regulation.

ΣΥΣΤΗΜΑ ΙΣΟΓΕΙΟΥ

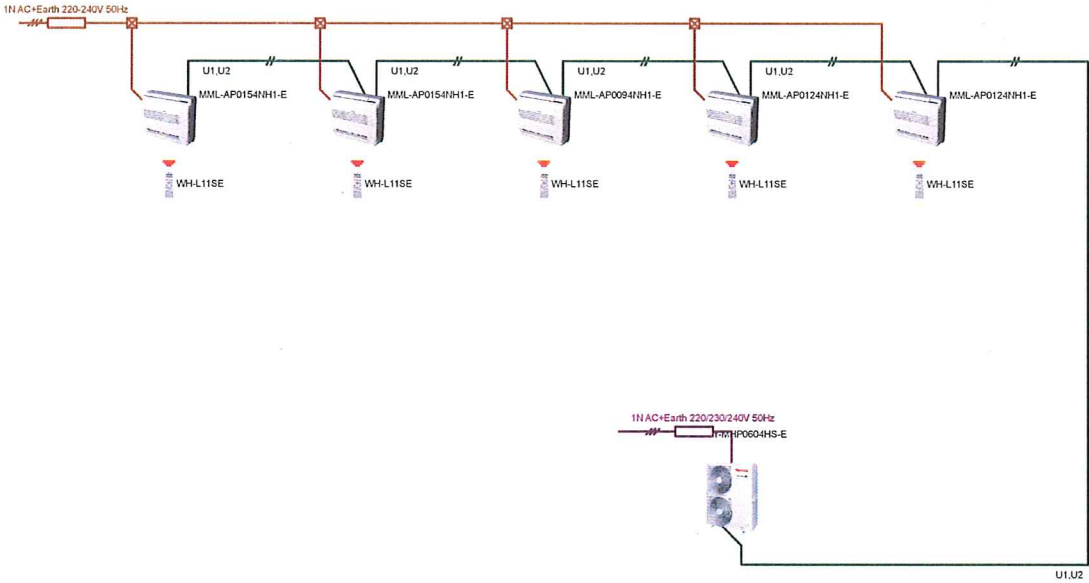


Control Wiring Legend	Label	Wiring	Wiring Size and Length
Outdoor - Indoor Control Wiring	U1,U2	2 core, no polarity, shielded	1,25mm <sup>2</sup> up to 1000m & 2,0mm <sup>2</sup> up to 2000m
Central Control Wiring	U3,U4	2 core, no polarity, shielded	1,25mm <sup>2</sup> up to 1000m & 2,0mm <sup>2</sup> up to 2000m
Outdoor Units Control Wiring	U5,U6	2 core, no polarity, shielded	1,25mm <sup>2</sup> to 2,0mm <sup>2</sup> up to 100m
Remote Controller Wiring	A,B	2 core, no polarity, shielded	0,5mm <sup>2</sup> to 2,0mm <sup>2</sup> up to 500m (Wireless Remote Controller up to 400m). Group Control wiring is up to 200m

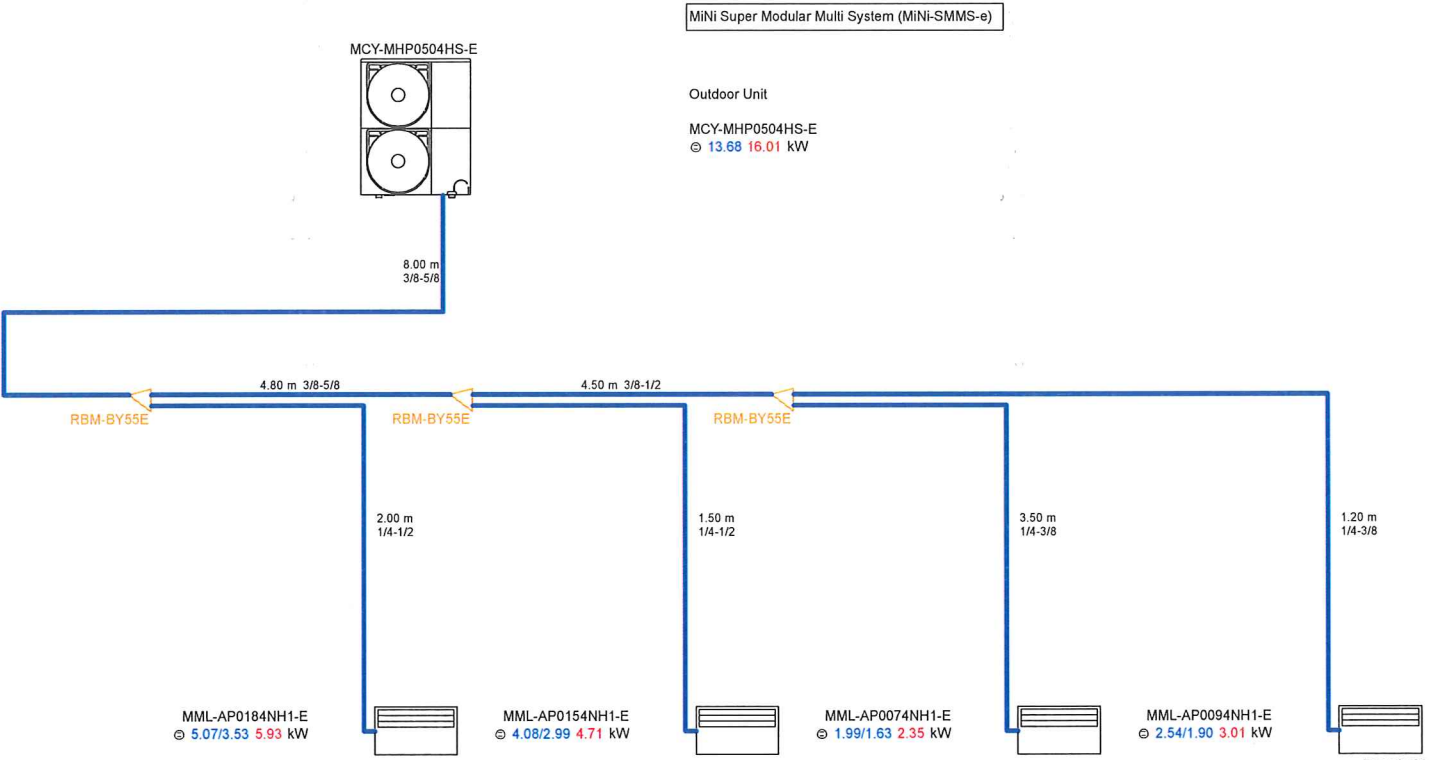
Symbol Legend
Multi Flow Selector
Flow Selector
PMV kit
Electrical isolator

Note: Power Wiring should comply with Local, National and International Regulation.

ΣΥΣΤΗΜΑ Α ΟΡΟΦΟΥ

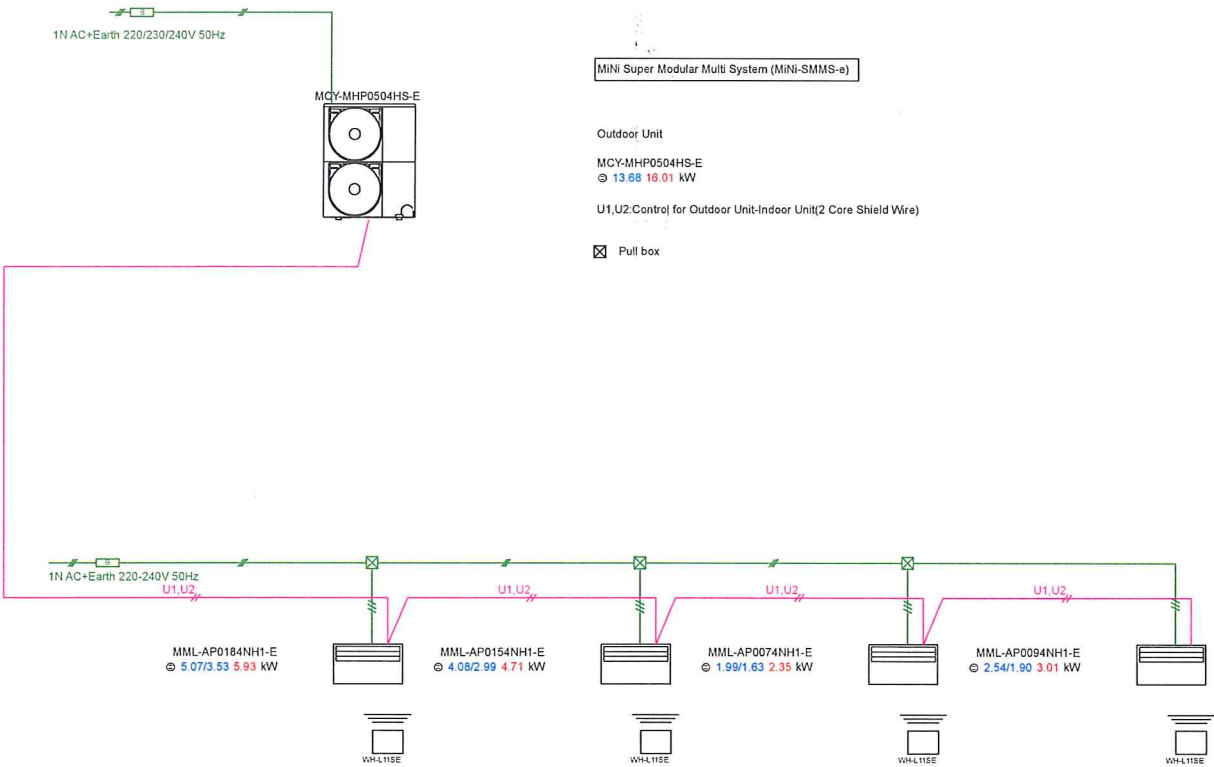


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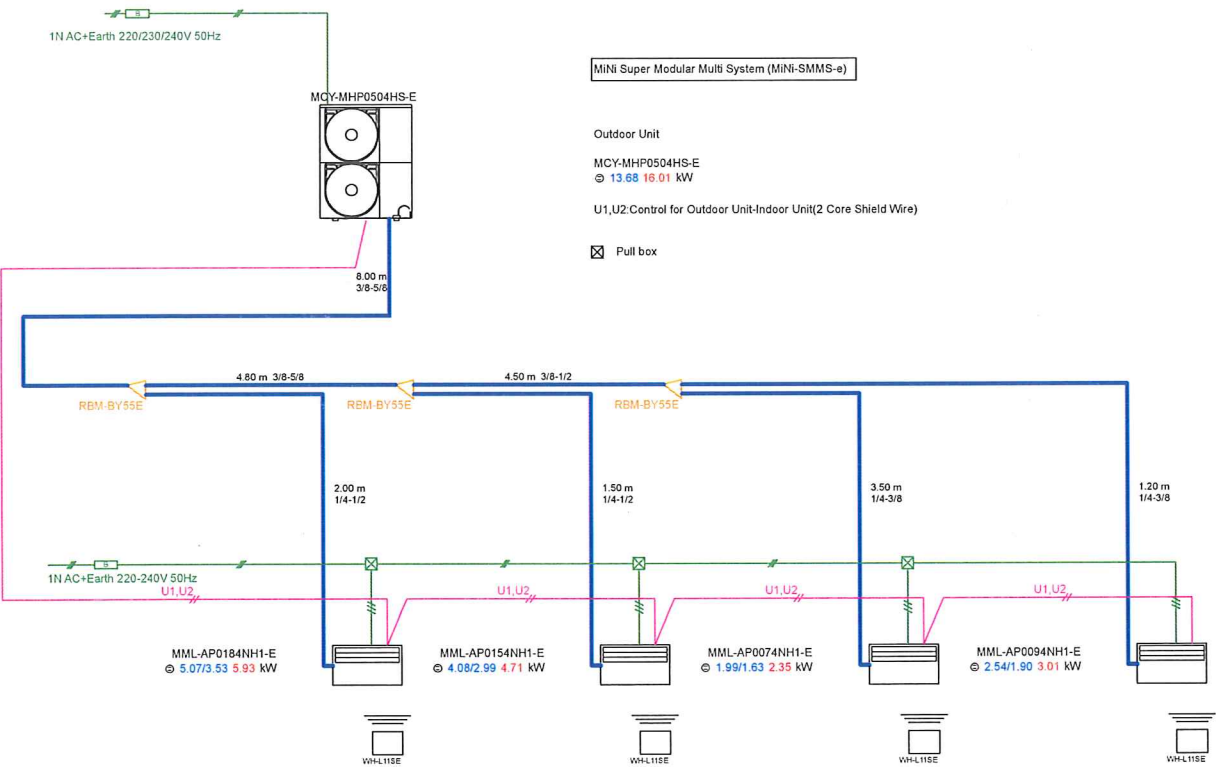




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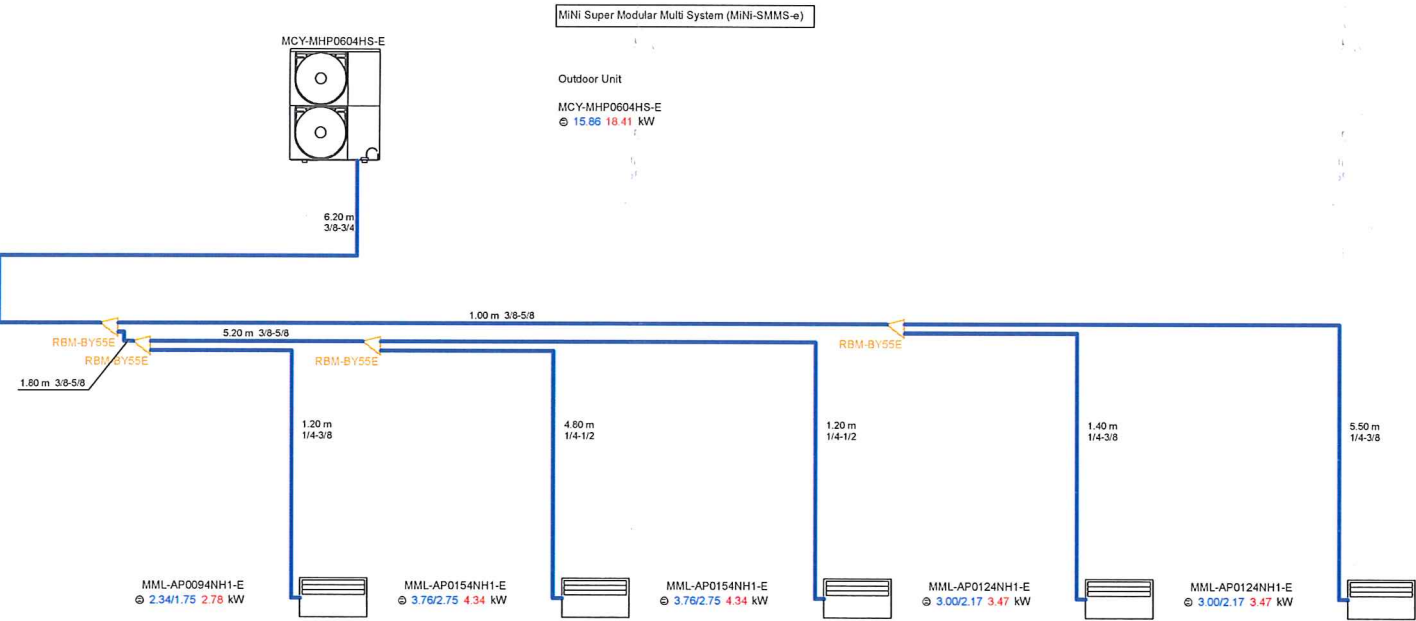
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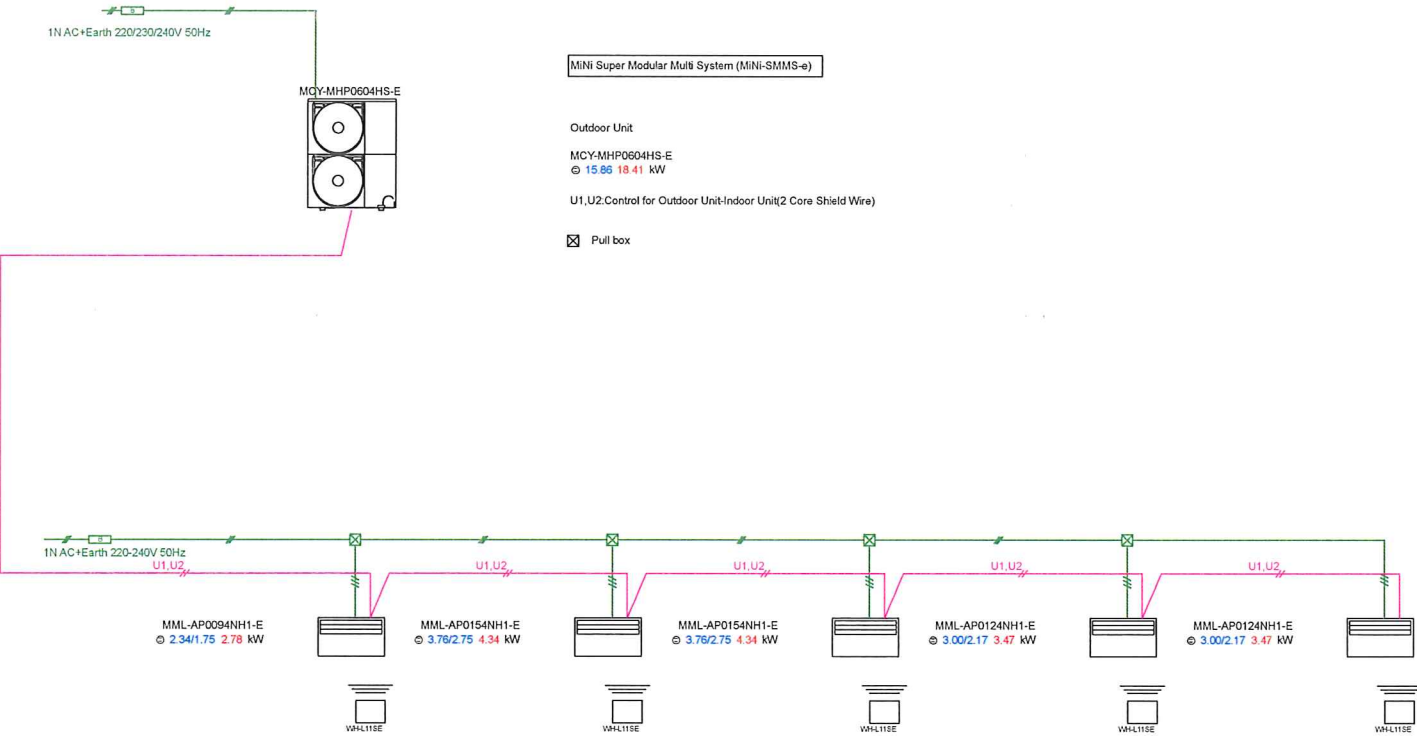


Piping Diagram

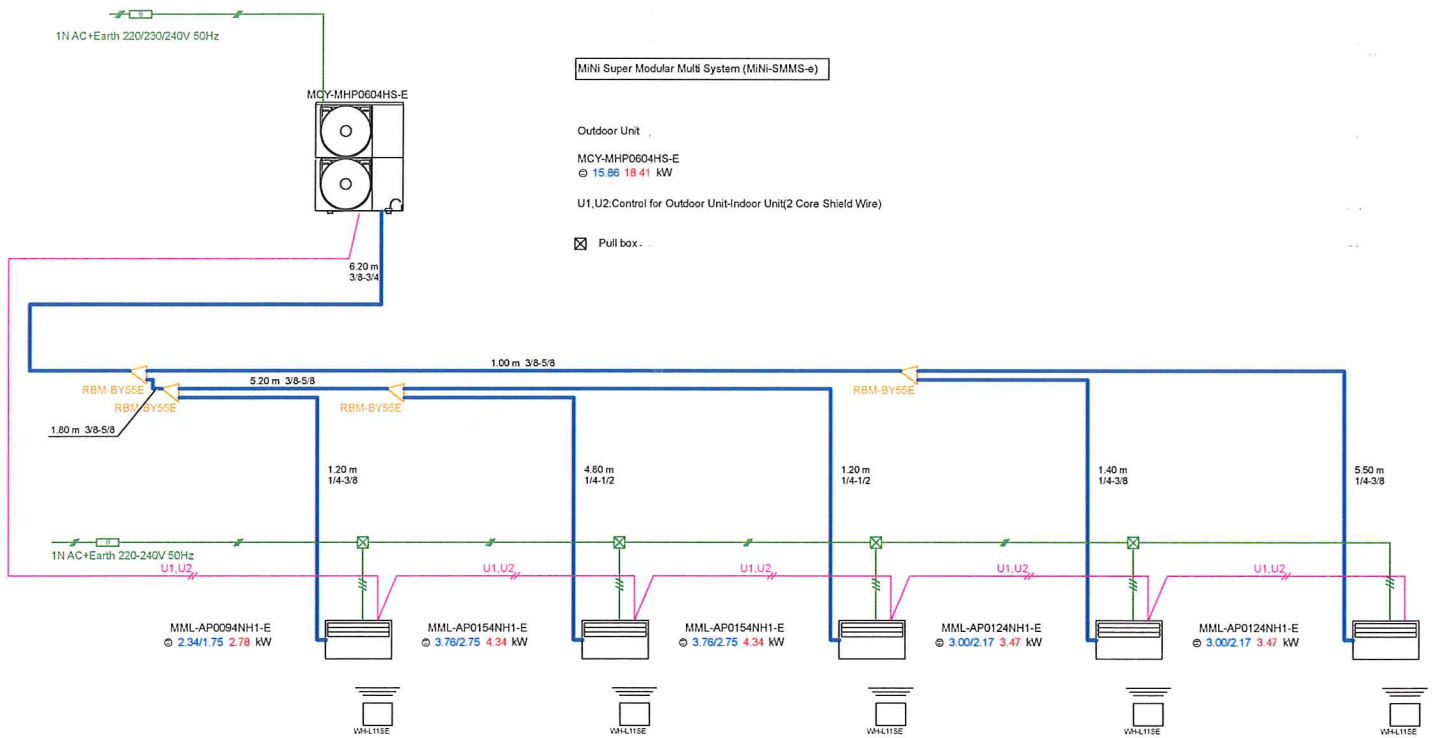
ΣΥΣΤΗΜΑ Α ΟΡΟΦΟΥ



ΣΥΣΤΗΜΑ Α ΟΡΟΦΟΥ



### ΣΥΣΤΗΜΑ Α ΟΡΟΦΟΥ



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