Los documentos que se adjuntan son salidas de programas informáticos de Empresa específica del equipo a dimensionar, a título informativo.

Project No.
SIK-002-18 AULARIO UCA JEREZ

15/11/2020



MITSUBISHI ELECTRIC CORPORATION

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Quotation

Qty	Model	Description	Price	Total
4	PAR-FL32MA	Wireless remote controller		
1	PUMY-P112YKM4R1	R410A S Series Outdoor Unit		
4	PLFY-P20VEM-E	Ceiling Cassette (4way air flow) type Indoor Unit		
4	PLP-6EA	Decoration panel		
3	CMY-Y62-G-E	Joint		
4	PAR-FA32MA	Wireless signal receiver		
			Grand Total	0

Control System Configuration

Category1		Category2		Category3		Category4		category5		Category6		
Model name		Model name		Model name		Model name		Model name		Indoor unit Ref.	Model name	M-NET
		-		-		-		-				
M-NET	-	M-NET	-	M-NET	-	M-NET	-	M-NET	-			
IP add.	-	IP add.	-	-	-	-	-	-	-			
											PAR-FL32MA	
											PAR-FL32MA	
											PAR-FL32MA	
											PAR-FL32MA	

Centralized Ctrl Sys1

>System Configuration

> Outdoor unit / Indoor unit / Controller

Refrigerant system	Outdoor unit		Room	Indoor unit			Controller		Group name
	Ref.	Model name Add.		Ref.	Model name	Add.	Model name	Add.	
System 2		PUMY-P112YKM4R1 51			PLFY-P20VEM-E	001	PAR-FL32MA		0-030
					PLFY-P20VEM-E	002	PAR-FL32MA		0-029
					PLFY-P20VEM-E	003	PAR-FL32MA		0-028
					PLFY-P20VEM-E	004	PAR-FL32MA		0-027

Centralized Ctrl Sys1

> Product information

>Controller

Model name	Product image*1	Qty	Description
PAR-FL32MA		4	Wireless remote controller

>PI/AI/DIDO controller

Model name	Product image*1	Qty	Description

>Air conditioning unit specifications

1. Outdoor unit

Sys.	Model name	Product image*1	Qty		Capacity(kW)		Power input (kW)		COP (kW/kW)*2	
					Rated	Corrected	Rated	Corrected	Rated	Corrected
System 2	PUMY-P112YKM4R1		1	Cooling	12,50	12,07	2,79	1,96	4,48	4,51
				Heating	14,00	12,25	3,04	2,78	4,60	3,44

	Conditions				Dimension(mm)	Net weight
	D.B.(deg C)	W.B.(deg C)	Humidity(%)	Water inlet(deg C)	H X W X D	(kg)
Cooling	37,4	-	-	-	-	-
Heating	1,5	0,9	90	-		

2. BC controller / Hydro unit

Sys.	Model name	Product image*1	Qty		Power input (kW)	Dimension(mm)	Net weight
					Rated	H X W X D	(kg)
				Cooling			
				Heating			

*1 The product image refers to a representative model. The actual product may differ from the image shown.
*2 Ability using in the COP calculation is corrected by capacity of connected indoor unit.

Centralized Ctrl Sys1

> Product information

3. Indoor unit

Sys.	Model name	Product image*1	Qty		Capacity(kW)		Sensible capacity(kW)		Power input (kW)	Current (A)	Air flow rate	External static pressure
					Rated	Corrected	Rated	Corrected	Rated		(m3/min)	
System 2	PLFY-P20VEM-E		4	Cooling	2,20	2,21	1,80	1,81	0,03	0.31	12 - 13 - 14 - 15	*3
				Heating	2,50	2,40			0,03	0.24		

	Conditions			Dimension(mm)	Net weight
	D.B.(deg C)	W.B.(deg C)	Humidity(%)	H X W X D	(kg)
Cooling	24,0	19,2	64	258 x 840 x 840	19
Heating	21,0	-	-		

4. Branch/Header/Twinning kit/Valve kit

Sys.	Model name	Product image*1	Qty	Description
System 2	CMY-Y62-G-E		3	-

>Ventilators

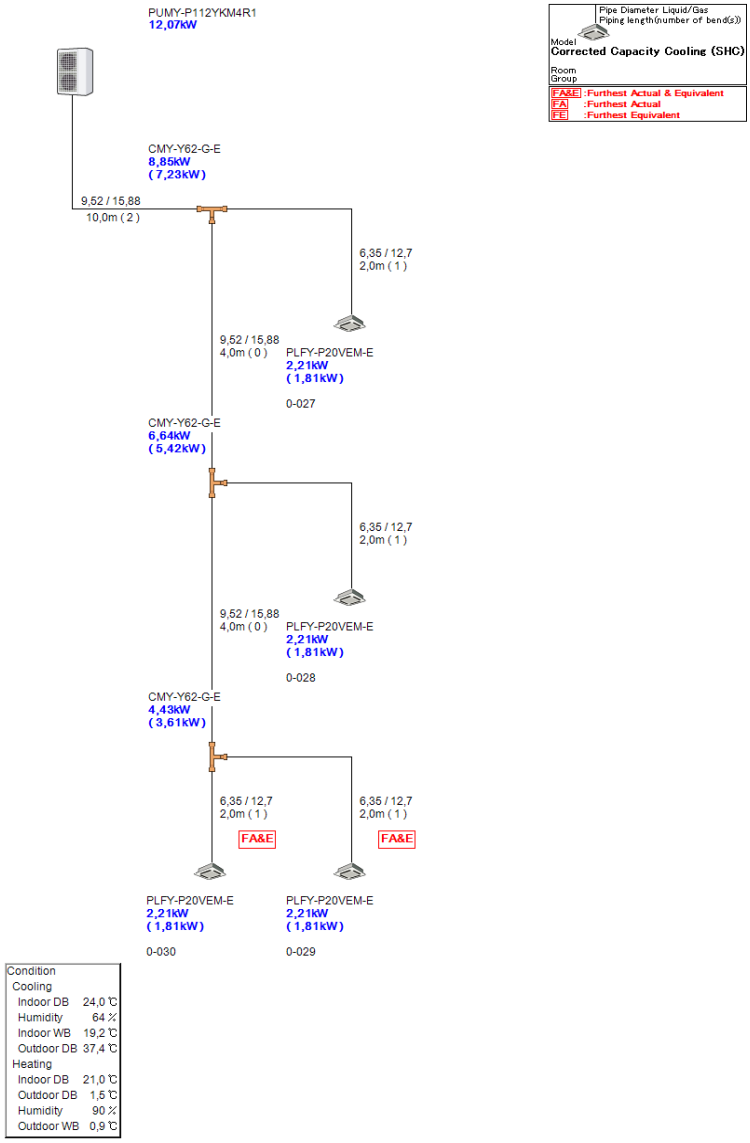
Model name	Product image*1	Qty	Description	Fan Speed	Air Volume(m3/h)
-		-	-	-	-

*1 The product image refers to a representative model. The actual product may differ from the image shown.
*3 Please refer to the specification sheet in the "Product Features" section at the end.

Centralized Ctrl Sys1 System 2

> Piping Design

1. Piping diagram



Centralized Ctrl Sys1 System 2

> Piping Design

2. Refrigerant Piping

	Liquid/High (mm)	Gas/Low(mm)	Low/Gas/Bypass/Oil(mm)	Total length(m)	Number of bent
First joint to Indoor unit	6,35	12,7		8,0	4
First joint to Indoor unit	9,52	15,88		8,0	0
Outdoor Unit to first joint	9,52	15,88		10,0	2

3. Summary totals (Refrigerant piping)

Pipe Size (mm)	Total length(m)	Number of bent
6,35	8,0	4
9,52	18,0	2
12,7	8,0	4
15,88	18,0	2

4. Refrigerant charge

Additional refrigerant required	R410A	X	3,6	kg
Total refrigerant amount	R410A	X	8,4	kg

5. Water flow rate (for WY/WR2/HCM(Water Cooled))

Flow rate(m3/h)	Pressure drop(kPa)
-	-

Centralized Ctrl Sys1

> Electrical Wiring Information

Sys.	4	x	PAR-FL32MA
		Power supply info.	
		Power source:	-
		MCA(A):	-
		Max.Fuse(A):	-
		Connection:	-
		Power supply cable:	-
		size	-
			-
			-
			-
		Transmission info.	
		Connection:	A,B
		Transmission cable:	-
			-
			-
		size	-
			-

Sys.	1	x	PUMY-P112YKM4R1
		Power supply info.	
		Power source:	3-phase 4-wire 380-415V 50Hz
		MCA(A):	13
		Max.Fuse(A):	-
		Connection:	-
		Power supply cable:	-
		size	-
System 2			-
			-
			-
		Transmission info.	
		Connection:	- *2
		Transmission cable:	-
			-
			-
		size	-
			-

Sys.	4	x	PLFY-P20VEM-E
System 2		Power supply info.	
		Power source:	1-phase 220/230/240V 50Hz
		MCA(A):	0.28
		Max.Fuse(A):	-
		Connection:	TB2(L,N),ground
		Power supply cable:	-
		size	1.5mm2 or thicker(main) *3
			1.5mm2 or thicker(ground) *3
			-
			-
		Transmission info.	
		Connection:	TB5(M1,M2,S)TB15(1,2) *4
		Transmission cable:	Shielding wire
			CVVS or CPEVS
			-
		size	1.25mm2 or thicker
			-

*2 TB7 is used for centralized controller.
*3 The wiring size differs depending on the total operating current of the indoor unit. 1.5mm2 or thicker(16A or less), 2.5mm2 or thicker(25A or less), 4.0mm2 or thicker(32A or less)
*4 TB5 is used for ME remote controller. TB15 is used for MA remote controller.

Summary List

> Equipment list

1. Controller

Model name	Quantity
PAR-FL32MA	4

2. PI/AI/DIDO controller

Model name	Quantity
-	-

3. Outdoor unit

Model name	Quantity
PUMY-P112YKM4R1	1

4. BC controller / Hydro unit

Model name	Quantity
-	-

5. Indoor unit

Model name	Quantity
PLFY-P20VEM-E	4

6. Branch/Header/Twinning kit/Valve kit

Model name	Quantity
CMY-Y62-G-E	3

7. Lossnay

Model name	Quantity
-	-

8. HUB (Field supply)

Model name	Quantity
-	-

9. Air volume controller (Field supply)

Model name	Quantity
-	-

Summary List

> Equipment list

10. Twinning pipe (Field supply)

Model name	Quantity
-	-

11. Piping parts (Field supply)

Model name	Quantity
-	-

Summary List

> Field providing list

1. Refrigerant Piping Materials

Pipe Size(mm)	Total length(m)	Number of bent
6,35	8	4
9,52	18	2
12,7	8	4
15,88	18	2

2. Refrigerant charge

Additional refrigerant required	R410A	X	3,6	kg
Total refrigerant amount	R410A	X	8,4	kg

3. Electrical cables

Power supply cable size	Cable type	Usage
Transmission cable size	**Cable type**	**Usage**
1.25mm2 or thicker	Shielding wire CVVS or CPEVS	Indoor/outdoor transmission cable

CVVS,MVVS : PVC insulated PVC jacketed shielded control cable
CPEVS : PE insulated PVC jacketed shielded communication cable
CVV : PVC insulated PVC sheathed control cable

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Qty	Model	Description	Price	Total
1	AE-200E	Central controller		
1	PUHY-P200YNW-A	R410A Y Series Outdoor Unit		
2	PLFY-P20VEM-E	Ceiling Cassette (4way air flow) type Indoor Unit		
2	PLP-6EA	Decoration panel		
1	PEFY-P140VMHS-E	Ceiling Concealed type Indoor Unit		
1	CMY-Y102LS-G2	Joint		
1	CMY-Y102SS-G2	Joint		
			Grand Total	0

Control System Configuration

Category1		Category2		Category3		Category4		category5		Category6		
Model name		Model name		Model name		Model name		Model name		Indoor unit Ref.	Model name	M-NET
AE-200E		-		-		-		-				
M-NET	000	M-NET	-	M-NET	-	M-NET	-	M-NET	-			
IP add.	-	IP add.	-	-	-	-	-	-	-			
v												
v												
v												

Centralized Ctrl Sys1

>System Configuration

> Outdoor unit / Indoor unit / Controller

Refrigerant system	Outdoor unit		Room	Indoor unit			Controller		Group name
	Ref.	Model name Add.		Ref.	Model name	Add.	Model name	Add.	
Salon actos		PUHY-P200YNW-A	0-018		PLFY-P20VEM-E	001			1
		51	0-032		PLFY-P20VEM-E	002			
			0-026		PEFY-P140VMHS-E	003			

Centralized Ctrl Sys1

> Product information

>Controller

Model name	Product image*1	Qty	Description
AE-200E		1	Central controller

>PI/AI/DIDO controller

Model name	Product image*1	Qty	Description

>Air conditioning unit specifications

1. Outdoor unit

Sys.	Model name	Product image*1	Qty		Capacity(kW)		Power input (kW)		COP (kW/kW)*2	
					Rated	Corrected	Rated	Corrected	Rated	Corrected
Salon actos	PUHY-P200YNW-A		1	Cooling	22,40	21,56	4,24	4,30	5,28	4,81
				Heating	25,00	19,35	4,58	4,47	5,45	4,32

	Conditions				Dimension(mm)	Net weight
	D.B.(deg C)	W.B.(deg C)	Humidity(%)	Water inlet(deg C)	H X W X D	(kg)
Cooling	38,9	-	-	-	1,858 (1,798 without legs) x 920 x 740	225
Heating	1,6	1,0	90	-		

2. BC controller / Hydro unit

Sys.	Model name	Product image*1	Qty		Power input (kW)	Dimension(mm)	Net weight
					Rated	H X W X D	(kg)
				Cooling			
				Heating			

*1 The product image refers to a representative model. The actual product may differ from the image shown.
*2 Ability using in the COP calculation is corrected by capacity of connected indoor unit.

Centralized Ctrl Sys1

> Product information

3. Indoor unit

Sys.	Model name	Product image*1	Qty		Capacity(kW)		Sensible capacity(kW)		Power input (kW)	Current (A)	Air flow rate	External static pressure
Salon actos	PLFY-P20VEM-E		2		Rated	Corrected	Rated	Corrected	Rated		(m3/min)	
				Cooling	2,20	2,23	1,80	2,23	0,03	0.31	12 - 13 - 14 - 15	*3
				Heating	2,50	2,10			0,03	0.24		
					Conditions			Dimension(mm)		Net weight		
					D.B.(deg C)	W.B.(deg C)	Humidity(%)	H X W X D		(kg)		
				Cooling	27,0	19,5	50	258 x 840 x 840		19		
				Heating	17,6	-	-					

Sys.	Model name	Product image*1	Qty		Capacity(kW)		Sensible capacity(kW)		Power input (kW)	Current (A)	Air flow rate	External static pressure
Salon actos	PEFY-P140VMHS-E		1		Rated	Corrected	Rated	Corrected	Rated		(m3/min)	
				Cooling	16,00	16,23	11,50	11,10	0,19	1.24(220V)/1.19(230V)/1.14(240V)	28.0 - 34.0 - 40.0	*3
				Heating	18,00	15,15			0,19	1.24(220V)/1.19(230V)/1.14(240V)		
					Conditions			Dimension(mm)		Net weight		
					D.B.(deg C)	W.B.(deg C)	Humidity(%)	H X W X D		(kg)		
				Cooling	27,0	19,5	50	380 x 1,195 x 900		53		
				Heating	17,6	-	-					

4. Branch/Header/Twinning kit/Valve kit

Sys.	Model name	Product image*1	Qty	Description
Salon actos	CMY-Y102LS-G2		1	-
	CMY-Y102SS-G2		1	-

*1 The product image refers to a representative model. The actual product may differ from the image shown.
*3 Please refer to the specification sheet in the "Product Features" section at the end.

Centralized Ctrl Sys1

> Product information

>Ventilators

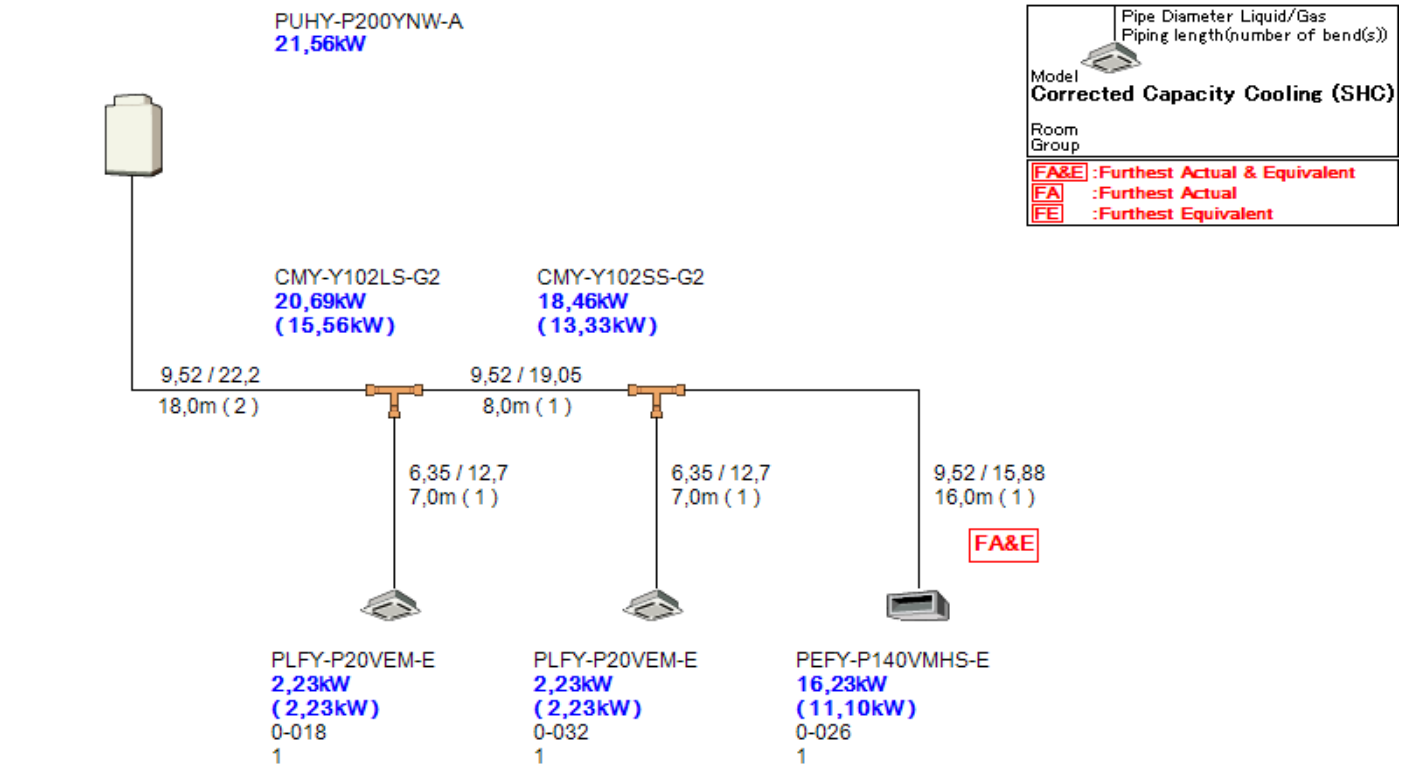
Model name	Product image*1	Qty	Description	Fan Speed	Air Volume(m3/h)
-		-	-	-	-

*1 The product image refers to a representative model. The actual product may differ from the image shown.

Centralized Ctrl Sys1 Salon actos

> Piping Design

1. Piping diagram



Condition	
Cooling	
Indoor DB	27,0 ℃
Humidity	50 %
Indoor WB	19,5 ℃
Outdoor DB	38,9 ℃
Heating	
Indoor DB	17,6 ℃
Outdoor DB	1,6 ℃
Humidity	90 %
Outdoor WB	1,0 ℃

Centralized Ctrl Sys1 Salon actos

> Piping Design

2. Refrigerant Piping

	Liquid/High (mm)	Gas/Low(mm)	Low/Gas/Bypass/Oil(mm)	Total length(m)	Number of bent
First joint to Indoor unit	6,35	12,7		14,0	2
First joint to Indoor unit	9,52	15,88		16,0	1
First joint to Indoor unit	9,52	19,05		8,0	1
Outdoor Unit to first joint	9,52	22,2		18,0	2

3. Summary totals (Refrigerant piping)

Pipe Size (mm)	Total length(m)	Number of bent
6,35	14,0	2
9,52	42,0	4
12,7	14,0	2
15,88	16,0	1
19,05	8,0	1
22,2	18,0	2

4. Refrigerant charge

Additional refrigerant required	R410A	X	5,6	kg
Total refrigerant amount	R410A	X	12,1	kg

5. Water flow rate (for WY/WR2/HCM(Water Cooled))

Flow rate(m3/h)	Pressure drop(kPa)
-	-

Centralized Ctrl Sys1

> Electrical Wiring Information

Sys.	1	x	AE-200E
		Power supply info.	
		Power source:	-
		MCA(A):	-
		Max.Fuse(A):	-
		Connection:	to power supply unit
		Power supply cable:	-
		size	-
			-
			-
			-
		Transmission info.	
		Connection:	-
		Transmission cable:	Shielding wire (2-core)
			CVVS or CPEVS
			-
		size	1.25-2mm2 or thicker
			-

Sys.	1	x	PUHY-P200YNW-A
Salon actos		Power supply info.	
		Power source:	3-phase 4-wire 380/400/415V 50Hz
		MCA(A):	16.1
		Max.Fuse(A):	-
		Connection:	TB1(L1,L2,L3,N),ground
		Power supply cable:	Metal conduit wiring
		size	4.0mm2 or thicker(main)
			4.0mm2 or thicker(ground)
			-
			-
		Transmission info.	
		Connection:	TB3(M1,M2,S)TB7(M1,M2,S) *2
		Transmission cable:	Shielding wire (2-core)
			CVVS, CPEVS or MVVS
			-
		size	1.25mm2 or thicker
			-

Sys.	2	x	PLFY-P20VEM-E
Salon actos		Power supply info.	
		Power source:	1-phase 220/230/240V 50Hz
		MCA(A):	0.28
		Max.Fuse(A):	-
		Connection:	TB2(L,N),ground
		Power supply cable:	-
		size	1.5mm2 or thicker(main) *3
			1.5mm2 or thicker(ground) *3
			-
			-
		Transmission info.	
		Connection:	TB5(M1,M2,S)TB15(1,2) *4
		Transmission cable:	Shielding wire
			CVVS or CPEVS
			-
		size	1.25mm2 or thicker
			-

Sys.	1	x	PEFY-P140VMHS-E
Salon actos		Power supply info.	
		Power source:	1-phase 220/230/240V 50Hz
		MCA(A):	3.93
		Max.Fuse(A):	-
		Connection:	TB2(L,N),ground
		Power supply cable:	Metal conduit wire
		size	1.5mm2 or thicker(main) *3
			1.5mm2 or thicker(ground) *3
			-
			-
		Transmission info.	
		Connection:	TB5(M1,M2,S)TB15(1,2) *4
		Transmission cable:	Shielding wire (2-core)
			CVVS, CPEVS or MVVS
			-
		size	1.25mm2 or thicker
			-

*2 TB7 is used for centralized controller.
*3 The wiring size differs depending on the total operating current of the indoor unit. 1.5mm2 or thicker(16A or less), 2.5mm2 or thicker(25A or less), 4.0mm2 or thicker(32A or less)
*4 TB5 is used for ME remote controller. TB15 is used for MA remote controller.

Summary List

> Equipment list

1. Controller

Model name	Quantity
AE-200E	1

2. PI/AI/DIDO controller

Model name	Quantity
-	-

3. Outdoor unit

Model name	Quantity
PUHY-P200YNW-A	1

4. BC controller / Hydro unit

Model name	Quantity
-	-

5. Indoor unit

Model name	Quantity
PLFY-P20VEM-E	2
PEFY-P140VMHS-E	1

6. Branch/Header/Twinning kit/Valve kit

Model name	Quantity
CMY-Y102LS-G2	1
CMY-Y102SS-G2	1

7. Lossnay

Model name	Quantity
-	-

8. HUB (Field supply)

Model name	Quantity
-	-

Summary List

> Equipment list

9. Air volume controller (Field supply)

Model name	Quantity
-	-

10. Twinning pipe (Field supply)

Model name	Quantity
-	-

11. Piping parts (Field supply)

Model name	Quantity
-	-

Summary List

> Field providing list

1. Refrigerant Piping Materials

Pipe Size(mm)	Total length(m)	Number of bent
6,35	14	2
9,52	42	4
12,7	14	2
15,88	16	1
19,05	8	1
22,2	18	2

2. Refrigerant charge

Additional refrigerant required	R410A	X	5,6	kg
Total refrigerant amount	R410A	X	12,1	kg

3. Electrical cables

Power supply cable size	Cable type	Usage
1.5mm2 or thicker *4	Metal conduit wire *1 *2 *3	Indoor unit power supply cable (main and ground wire)
4.0mm2 or thicker	Metal conduit wiring	Outdoor unit power supply cable (main and ground)
Transmission cable size	**Cable type**	**Usage**
1.25-2mm2 or thicker	Shielding wire (2-core) CVVS or CPEVS	Centralized control transmission cable
1.25mm2 or thicker	Shielding wire CVVS or CPEVS	Indoor/outdoor transmission cable
1.25mm2 or thicker	Shielding wire (2-core) CVVS, CPEVS or MVVS	Indoor/outdoor transmission cable

*1 The wire size is the minimum value for metal conduit wiring. If the voltage drops, use a wire that is one rank thicker in diameter.
Make sure the power-supply voltage does not drop more than 10%.

*2 Specific wiring requirements should adhere to the wiring regulations of the region.

*3 Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (design 245 IEC57). For example, use wiring such as YZW.

*4 The wiring size differs depending on the total operating current of the indoor unit.
1.5mm2 or thicker(16A or less), 2.5mm2 or thicker(25A or less), 4.0mm2 or thicker(32A or less)

CVVS,MVVS : PVC insulated PVC jacketed shielded control cable
CPEVS : PE insulated PVC jacketed shielded communication cable
CVV : PVC insulated PVC sheathed control cable

Project No.
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MITSUBISHI ELECTRIC CORPORATION

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Qty	Model	Description	Price	Total
1	AE-200E	Central controller		
1	PUHY-P300YNW-A	R410A Y Series Outdoor Unit		
2	PEFY-P100VMA-E3	Ceiling Concealed type Indoor Unit		
4	PEFY-P25VMA-E3	Ceiling Concealed type Indoor Unit		
1	CMY-Y102LS-G2	Joint		
4	CMY-Y102SS-G2	Joint		
			Grand Total	0

Control System Configuration

Category1		Category2		Category3		Category4		category5		Category6		
Model name		Model name		Model name		Model name		Model name		Indoor unit Ref.	Model name	M-NET
AE-200E		-		-		-		-				
M-NET	000	M-NET	-	M-NET	-	M-NET	-	M-NET	-			
IP add.	-	IP add.	-	-	-	-	-	-	-			
v												
v												
v												
v												
v												
v												

Centralized Ctrl Sys1

>System Configuration

> Outdoor unit / Indoor unit / Controller

Refrigerant system	Outdoor unit		Room	Indoor unit			Controller		Group name
	Ref.	Model name Add.		Ref.	Model name	Add.	Model name	Add.	
ZONAS TRABAJO		PUHY-P300YNW-A 51	0-043		PEFY-P100VMA-E3	001			3
			1-038		PEFY-P25VMA-E3	002			
			1-037		PEFY-P25VMA-E3	003			
			1-040		PEFY-P25VMA-E3	004			
			1-041		PEFY-P25VMA-E3	005			
			1-043		PEFY-P100VMA-E3	006			

Centralized Ctrl Sys1

> Product information

>Controller

Model name	Product image*1	Qty	Description
AE-200E		1	Central controller

>PI/AI/DIDO controller

Model name	Product image*1	Qty	Description

>Air conditioning unit specifications

1. Outdoor unit

Sys.	Model name	Product image*1	Qty		Capacity(kW)		Power input (kW)		COP (kW/kW)*2	
					Rated	Corrected	Rated	Corrected	Rated	Corrected
ZONAS TRABAJO	PUHY-P300YNW-A		1	Cooling	33,50	29,67	7,66	7,63	4,37	3,88
				Heating	37,50	28,37	7,86	7,64	4,77	3,71

	Conditions				Dimension(mm)	Net weight
	D.B.(deg C)	W.B.(deg C)	Humidity(%)	Water inlet(deg C)	H X W X D	(kg)
Cooling	38,9	-	-	-	1,858 (1,798 without legs) x 920 x 740	228
Heating	1,6	1,0	90	-		

2. BC controller / Hydro unit

Sys.	Model name	Product image*1	Qty		Power input (kW)	Dimension(mm)	Net weight
					Rated	H X W X D	(kg)
				Cooling			
				Heating			

*1 The product image refers to a representative model. The actual product may differ from the image shown.
*2 Ability using in the COP calculation is corrected by capacity of connected indoor unit.

Centralized Ctrl Sys1

> Product information

3. Indoor unit

Sys.	Model name	Product image*1	Qty		Capacity(kW)		Sensible capacity(kW)		Power input (kW)	Current (A)	Air flow rate	External static pressure
ZONAS TRABAJO	PEFY-P100VMA-E3		2		Rated	Corrected	Rated	Corrected	Rated		(m3/min)	
				Cooling	11,20	9,89	8,70	7,83	0,14		23.0 - 28.0 - 32.0	*3
				Heating	12,50	9,39			0,14			
					Conditions			Dimension(mm)		Net weight		
					D.B.(deg C)	W.B.(deg C)	Humidity(%)	H X W X D		(kg)		
				Cooling	24,0	17,1	50	250 x 1,400 x 732		37		
				Heating	22,0	-	-					

Sys.	Model name	Product image*1	Qty		Capacity(kW)		Sensible capacity(kW)		Power input (kW)	Current (A)	Air flow rate	External static pressure
ZONAS TRABAJO	PEFY-P25VMA-E3		4		Rated	Corrected	Rated	Corrected	Rated		(m3/min)	
				Cooling	2,80	2,47	2,20	1,98	0,03		6.0 - 7.5 - 8.5	*3
				Heating	3,20	2,40			0,03			
					Conditions			Dimension(mm)		Net weight		
					D.B.(deg C)	W.B.(deg C)	Humidity(%)	H X W X D		(kg)		
				Cooling	24,0	17,1	50	250 x 700 x 732		21		
				Heating	22,0	-	-					

4. Branch/Header/Twinning kit/Valve kit

Sys.	Model name	Product image*1	Qty	Description
ZONAS TRABAJO	CMY-Y102LS-G2		1	-
	CMY-Y102SS-G2		4	-

*1 The product image refers to a representative model. The actual product may differ from the image shown.
*3 Please refer to the specification sheet in the "Product Features" section at the end.

Centralized Ctrl Sys1

> Product information

>Ventilators

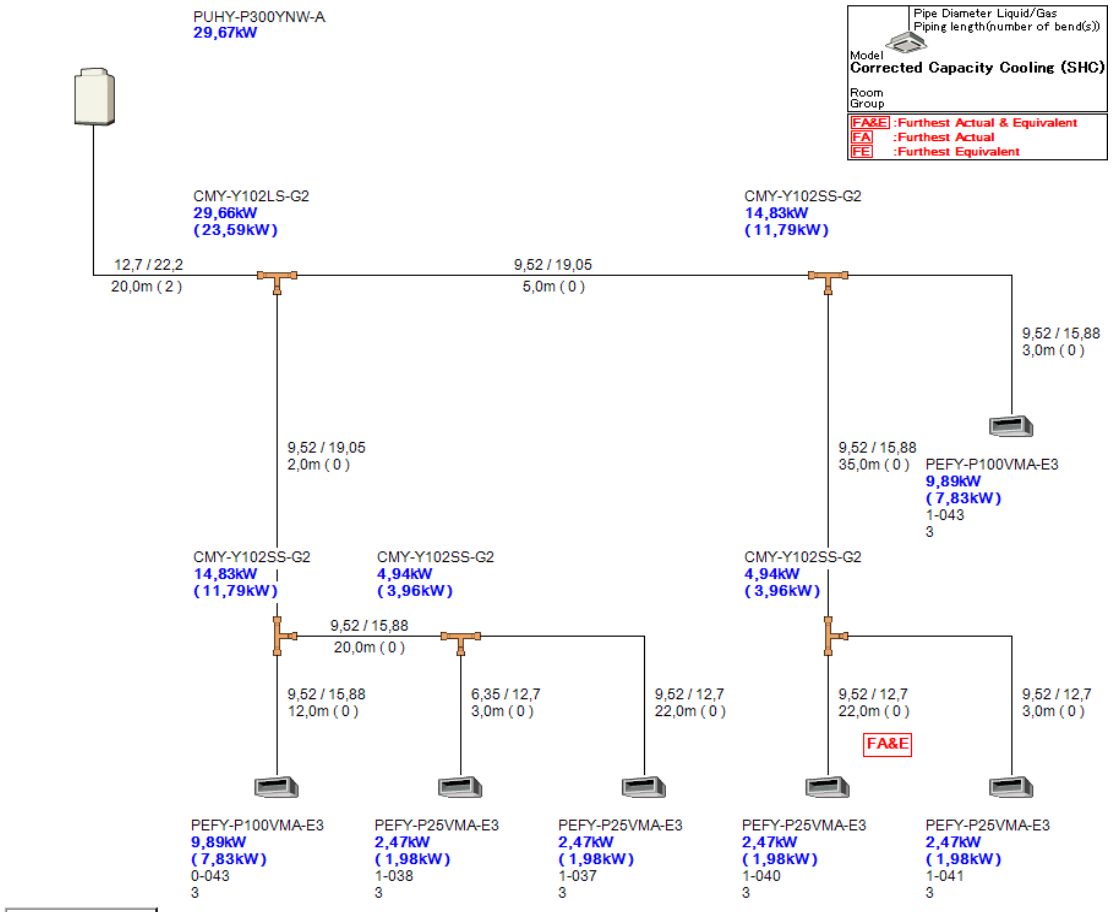
Model name	Product image*1	Qty	Description	Fan Speed	Air Volume(m3/h)
-		-	-	-	-

*1 The product image refers to a representative model. The actual product may differ from the image shown.

Centralized Ctrl Sys1 ZONAS TRABAJO

> Piping Design

1. Piping diagram



Condition	
Cooling	
Indoor DB	24,0 ℃
Humidity	50 %
Indoor WB	17,1 ℃
Outdoor DB	38,9 ℃
Heating	
Indoor DB	22,0 ℃
Outdoor DB	1,6 ℃
Humidity	90 %
Outdoor WB	1,0 ℃

Centralized Ctrl Sys1 ZONAS TRABAJO

> Piping Design

2. Refrigerant Piping

	Liquid/High (mm)	Gas/Low(mm)	Low/Gas/Bypass/Oil(mm)	Total length(m)	Number of bent
First joint to Indoor unit	9,52	15,88		70,0	0
First joint to Indoor unit	6,35	12,7		3,0	0
First joint to Indoor unit	9,52	12,7		47,0	0
First joint to Indoor unit	9,52	19,05		7,0	0
Outdoor Unit to first joint	12,7	22,2		20,0	2

3. Summary totals (Refrigerant piping)

Pipe Size (mm)	Total length(m)	Number of bent
6,35	3,0	0
9,52	124,0	0
12,7	70,0	2
15,88	70,0	0
19,05	7,0	0
22,2	20,0	2

4. Refrigerant charge

Additional refrigerant required	R410A	X	12,0	kg
Total refrigerant amount	R410A	X	18,5	kg

5. Water flow rate (for WY/WR2/HCM(Water Cooled))

Flow rate(m3/h)	Pressure drop(kPa)
-	-

Centralized Ctrl Sys1

> Electrical Wiring Information

Sys.	1	x	AE-200E
		Power supply info.	
		Power source:	-
		MCA(A):	-
		Max.Fuse(A):	-
		Connection:	to power supply unit
		Power supply cable:	-
		size	-
			-
			-
			-
		Transmission info.	
		Connection:	-
		Transmission cable:	Shielding wire (2-core)
			CVVS or CPEVS
			-
		size	1.25-2mm2 or thicker
			-

Sys.	1	x	PUHY-P300YNW-A
ZONAS TRABAJO		Power supply info.	
		Power source:	3-phase 4-wire 380/400/415V 50Hz
		MCA(A):	22.7
		Max.Fuse(A):	-
		Connection:	TB1(L1,L2,L3,N),ground
		Power supply cable:	Metal conduit wiring
		size	4.0mm2 or thicker(main)
			4.0mm2 or thicker(ground)
			-
			-
		Transmission info.	
		Connection:	TB3(M1,M2,S)TB7(M1,M2,S) *2
		Transmission cable:	Shielding wire (2-core)
			CVVS, CPEVS or MVVS
			-
		size	1.25mm2 or thicker
			-

Sys.	2	x	PEFY-P100VMA-E3
ZONAS TRABAJO		Power supply info.	
		Power source:	1-phase 220/230/240V 50Hz
		MCA(A):	2.81
		Max.Fuse(A):	-
		Connection:	TB2(L,N),ground
		Power supply cable:	Metal conduit wire
		size	1.5mm2 or thicker(main) *3
			1.5mm2 or thicker(ground) *3
			-
			-
		Transmission info.	
		Connection:	TB5(M1,M2,S)TB15(1,2) *4
		Transmission cable:	Shielding wire (2-core)
			CVVS, CPEVS or MVVS
			-
		size	1.25mm2 or thicker
			-

Sys.	4	x	PEFY-P25VMA-E3
ZONAS TRABAJO		Power supply info.	
		Power source:	1-phase 220/230/240V 50Hz
		MCA(A):	0.93
		Max.Fuse(A):	-
		Connection:	TB2(L,N),ground
		Power supply cable:	Metal conduit wire
		size	1.5mm2 or thicker(main) *3
			1.5mm2 or thicker(ground) *3
			-
			-
		Transmission info.	
		Connection:	TB5(M1,M2,S)TB15(1,2) *4
		Transmission cable:	Shielding wire (2-core)
			CVVS, CPEVS or MVVS
			-
		size	1.25mm2 or thicker
			-

*2 TB7 is used for centralized controller.
*3 The wiring size differs depending on the total operating current of the indoor unit. 1.5mm2 or thicker(16A or less), 2.5mm2 or thicker(25A or less), 4.0mm2 or thicker(32A or less)
*4 TB5 is used for ME remote controller. TB15 is used for MA remote controller.

Summary List

> Equipment list

1. Controller

Model name	Quantity
AE-200E	1

2. PI/AI/DIDO controller

Model name	Quantity
-	-

3. Outdoor unit

Model name	Quantity
PUHY-P300YNW-A	1

4. BC controller / Hydro unit

Model name	Quantity
-	-

5. Indoor unit

Model name	Quantity
PEFY-P100VMA-E3	2
PEFY-P25VMA-E3	4

6. Branch/Header/Twinning kit/Valve kit

Model name	Quantity
CMY-Y102LS-G2	1
CMY-Y102SS-G2	4

7. Lossnay

Model name	Quantity
-	-

8. HUB (Field supply)

Model name	Quantity
-	-

Summary List

> Equipment list

9. Air volume controller (Field supply)

Model name	Quantity
-	-

10. Twinning pipe (Field supply)

Model name	Quantity
-	-

11. Piping parts (Field supply)

Model name	Quantity
-	-

Summary List

> Field providing list

1. Refrigerant Piping Materials

Pipe Size(mm)	Total length(m)	Number of bent
6,35	3	0
9,52	124	0
12,7	70	2
15,88	70	0
19,05	7	0
22,2	20	2

2. Refrigerant charge

Additional refrigerant required	R410A	X	12	kg
Total refrigerant amount	R410A	X	18,5	kg

3. Electrical cables

Power supply cable size	Cable type	Usage
1.5mm2 or thicker *4	Metal conduit wire *1 *2 *3	Indoor unit power supply cable (main and ground wire)
4.0mm2 or thicker	Metal conduit wiring	Outdoor unit power supply cable (main and ground)
Transmission cable size	**Cable type**	**Usage**
1.25-2mm2 or thicker	Shielding wire (2-core) CVVS or CPEVS	Centralized control transmission cable
1.25mm2 or thicker	Shielding wire (2-core) CVVS, CPEVS or MVVS	Indoor/outdoor transmission cable

*1 The wire size is the minimum value for metal conduit wiring. If the voltage drops, use a wire that is one rank thicker in diameter.
Make sure the power-supply voltage does not drop more than 10%.

*2 Specific wiring requirements should adhere to the wiring regulations of the region.

*3 Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (design 245 IEC57). For example, use wiring such as YZW.

*4 The wiring size differs depending on the total operating current of the indoor unit.
1.5mm2 or thicker(16A or less), 2.5mm2 or thicker(25A or less), 4.0mm2 or thicker(32A or less)

CVVS,MVVS : PVC insulated PVC jacketed shielded control cable
CPEVS : PE insulated PVC jacketed shielded communication cable
CVV : PVC insulated PVC sheathed control cable