

SAMSUNG

Project Report

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Kútvolgyi Kórház

2016-07-22

1.1 Rendelő

[illegible]

2 Piping & Wiring

2.1 1.rendszer

2.1.1 Detail Load Profile

1) Design condition: Hungary, BUDAPEST, Cooling 35.0/23.9, Heating -15.0/0

2) Load profile

Building			Unit		Liquid	Gas	H.P.Gas	Airflow	Nominal Capacity			Simulated Capacity			Combi. Ratio	
Dept	Fl	Room	Name	Model name					Cooling		Heating	Cooling		Heating	Cooling	Heating
-	-	-	-	-	mm	mm	mm	CMM	TC	SHC	TC	TC	SHC	TC	%	%
Rendelő	5.emelet		1.rendszer	AM120FXVAGH/EU	12.70	28.58		220.00	33.60	kW	37.80	0.00	kW	0.00	120.54	121.16
	4.emelet		R1B41	AM036FNQDEH/EU	6.35	12.70		9.30	3.60	2.40	4.00	0.00	0.00	0.00		
	3.emelet		R1B40	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R1B31	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R1B35	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R1B36	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R1B37	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R1B39	AM028FNQDEH/EU	6.35	12.70		7.80	2.80	1.90	3.20	0.00	0.00	0.00		
			R1B32	AM028FNQDEH/EU	6.35	12.70		7.80	2.80	1.90	3.20	0.00	0.00	0.00		
			R1B34	AM028FNQDEH/EU	6.35	12.70		7.80	2.80	1.90	3.20	0.00	0.00	0.00		
			R1B38	AM028FNQDEH/EU	6.35	12.70		7.80	2.80	1.90	3.20	0.00	0.00	0.00		
			R1B33	AM045FNQDEH/EU	6.35	12.70		11.70	4.50	3.05	5.00	0.00	0.00	0.00		
	2.emelet		R1B24	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R1B22	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R1B23	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R1B21	AM036FNQDEH/EU	6.35	12.70		9.30	3.60	2.40	4.00	0.00	0.00	0.00		

2.1.2 Control

1) This data is for reference only. Verify local, state, and national electric codes. Samsung does not guarantee this data.

2) Configuration

Building			Unit		Communication wires	Power wires	Breaker Fuse	Main Address		RMC Address		Accessories	
Dept	Fl	Room	Name	Model name								Optional accessories	Basic accessories
-	-	-	-	-	mm2	mm2	A						
Rendelő	5.emele t		1.rendszer	AM120FXVAGH/EU	0.75~1.5	~	32						
	4.emele t		R1B41	AM036FNQDEH/EU	0.75~1.50	1.5~2.5		1	1	0	0	MWR-WE10N	MWR-WE10N
	3.emele t		R1B39	AM028FNQDEH/EU	0.75~1.50	1.5~2.5		1	2	0	0	MWR-WE10N	MWR-WE10N
			R1B40	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		1	3	0	0	MWR-WE10N	MWR-WE10N
			R1B31	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	4	0	0	MWR-WE10N	MWR-WE10N
			R1B32	AM028FNQDEH/EU	0.75~1.50	1.5~2.5		0	5	0	0	MWR-WE10N	MWR-WE10N
			R1B33	AM045FNQDEH/EU	0.75~1.50	1.5~2.5		0	5	0	0	MWR-WE10N	MWR-WE10N
			R1B34	AM028FNQDEH/EU	0.75~1.50	1.5~2.5		0	6	0	0	MWR-WE10N	MWR-WE10N
			R1B35	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	7	0	0	MWR-WE10N	MWR-WE10N
			R1B36	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	8	0	0	MWR-WE10N	MWR-WE10N
			R1B37	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	9	0	0	MWR-WE10N	MWR-WE10N
			R1B38	AM028FNQDEH/EU	0.75~1.50	1.5~2.5		1	0	0	0	MWR-WE10N	MWR-WE10N
			R1B24	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	3	0	0	MWR-WE10N	MWR-WE10N
	2.emele t		R1B21	AM036FNQDEH/EU	0.75~1.50	1.5~2.5		0	2	0	0	MWR-WE10N	MWR-WE10N
			R1B22	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	1	0	0	MWR-WE10N	MWR-WE10N
			R1B23	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	0	0	0	MWR-WE10N	MWR-WE10N

2.1.3 Equipment list

1) Equipment list

Categories	Model name		Qty	Categories	Model name		Qty
DVM S(NEW)		AM120FXVAGH/EU	1	NEO FORTE		AM045FNQDEH/EU	1
NEO FORTE		AM028FNQDEH/EU	4	Y-Joint		MXJ-YA2512M	4
		AM022FNQDEH/EU	8			MXJ-YA1509M	10
		AM036FNQDEH/EU	2				

2) Piping length

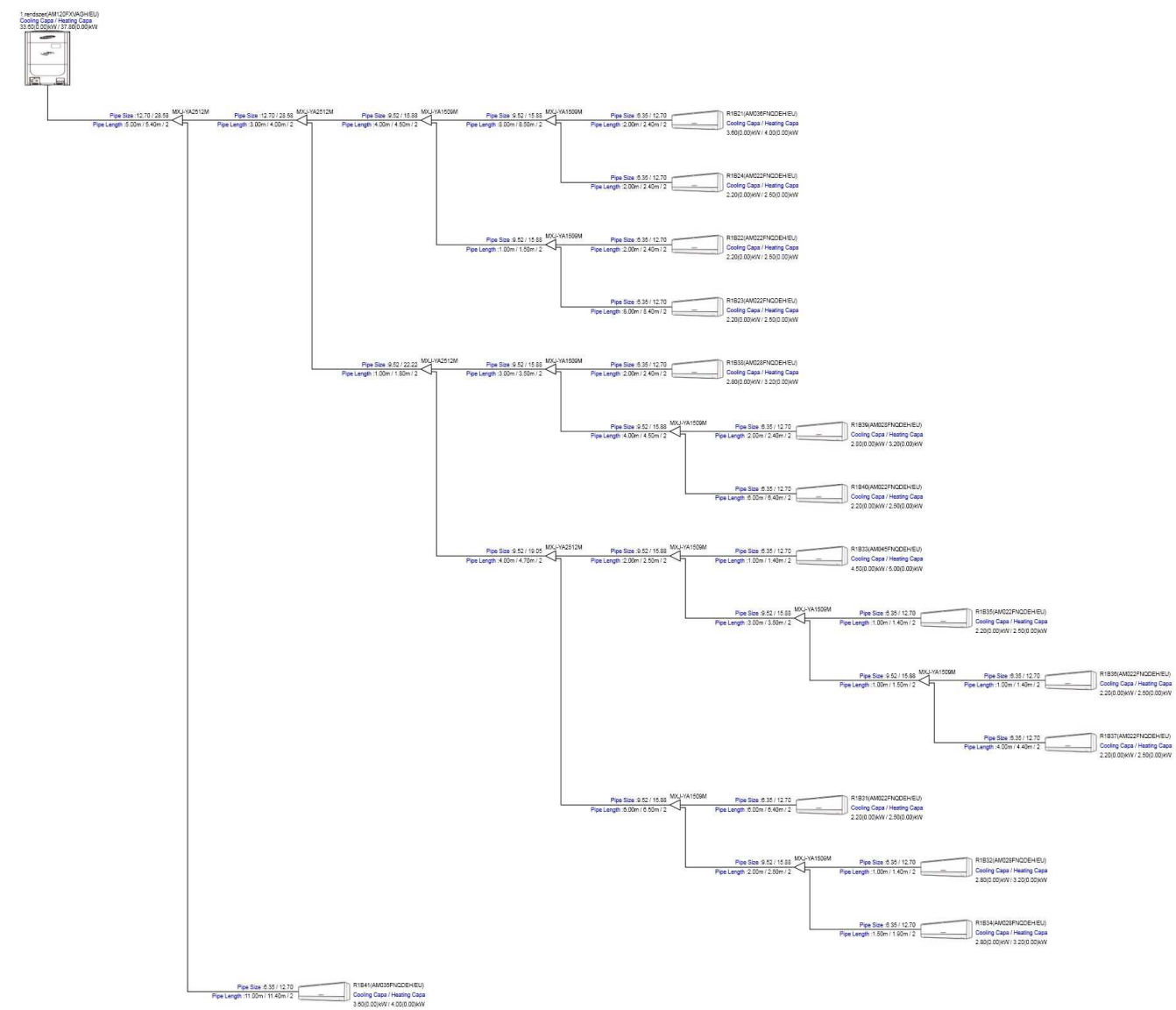
Length as pipe diameter		6.35	9.52	12.70	15.88	19.05	22.22	25.40	28.58	31.75	34.92	38.10	41.28	44.45	47.63	50.80	53.98
1. Liquid piping	m	50.50	39.00	8.00													
2. Gas piping	m			50.50	34.00	4.00	1.00		8.00								
3. High pressure gas piping	m																
Restriction of pipe length		Restriction (Based on installation manual)						Actual piping length				Equivalent piping length					
1. Total piping length	m	1000.00						101.70				31.30					
2. Maximum piping length	m	200.00						26.50									
3. Main pipe length	m							5.00									
4. Piping length between the first branch and the farthest indoor unit	m	45.00/90.00						21.50									
5. Level difference between outdoor and indoor unit(Max) (OD above ID unit / OD below ID unit)	m	110.00/40.00						7.00									
6. Level difference between indoor units	m	50.00						6.00									

3) Basic and additional charging ref. amount

Basic refrigerant charge amount : 5.500 kg

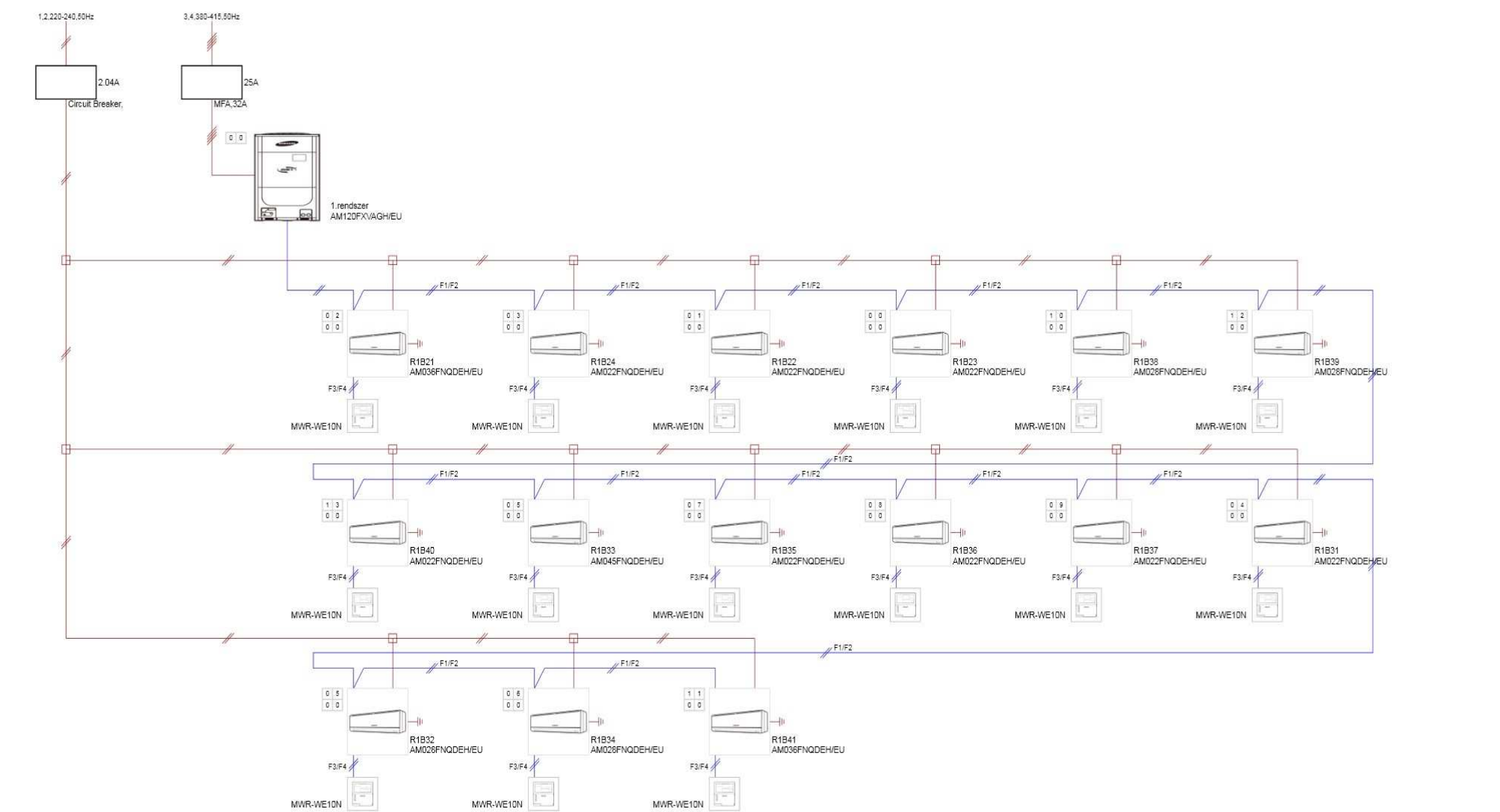
Additional refrigerant amount : 9.910 kg

2.1.4 Piping



- The system configuration may be different from the actual installation conditions, refer to the installation manual.

2.1.5 Wiring



- The system configuration may be different from the actual installation conditions, refer to the installation manual.

2.2 2.rendszer

2.2.1 Detail Load Profile

1) Design condition: Hungary, BUDAPEST, Cooling 35.0/23.9, Heating -15.0/0

2) Load profile

Building			Unit		Liquid	Gas	H.P.Gas	Airflow	Nominal Capacity			Simulated Capacity			Combi. Ratio	
Dept	Fl	Room	Name	Model name					Cooling		Heating	Cooling		Heating	Cooling	Heating
									TC	SHC	TC	TC	SHC	TC		
-	-	-	-	-	mm	mm	mm	CMM	kW	kW	kW	kW	kW	kW	%	%
Rendelő	5.emelet		2.rendszer	AM100FXVAGH/EU	9.52	22.22		170.00	28.00		31.50	0.00		0.00	126.43	126.03
	4.emelet		R2B42	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R2B41	AM036FNQDEH/EU	6.35	12.70		9.30	3.60	2.40	4.00	0.00	0.00	0.00		
	3.emelet		R2B31	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R2B32	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R2B33	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R2B22	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
	2.emelet		R2B25	AM036FNQDEH/EU	6.35	12.70		9.30	3.60	2.40	4.00	0.00	0.00	0.00		
			R2B26	AM036FNQDEH/EU	6.35	12.70		9.30	3.60	2.40	4.00	0.00	0.00	0.00		
			R2B21	AM036FNQDEH/EU	6.35	12.70		9.30	3.60	2.40	4.00	0.00	0.00	0.00		
			R2B23	AM036FNQDEH/EU	6.35	12.70		9.30	3.60	2.40	4.00	0.00	0.00	0.00		
			R2B24	AM036FNQDEH/EU	6.35	12.70		9.30	3.60	2.40	4.00	0.00	0.00	0.00		
	5.emelet		R2B51	AM028FNQDEH/EU	6.35	12.70		7.80	2.80	1.90	3.20	0.00	0.00	0.00		

2.2.2 Control

1) This data is for reference only. Verify local, state, and national electric codes. Samsung does not guarantee this data.

2) Configuration

Building			Unit		Communication wires	Power wires	Breaker Fuse	Main Address		RMC Address		Accessories	
Dept	Fl	Room	Name	Model name								Optional accessories	Basic accessories
-	-	-	-	-	mm2	mm2	A						
Rendelő	5.emele t		2.rendszer	AM100FXVAGH/EU	0.75~1.5	~	32						
	4.emele t		R2B41	AM036FNQDEH/EU	0.75~1.50	1.5~2.5		1	0	0	0	MWR-WE10N	MWR-WE10N
			R2B42	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		1	1	0	0	MWR-WE10N	MWR-WE10N
	3.emele t		R2B31	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	7	0	0	MWR-WE10N	MWR-WE10N
			R2B32	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	9	0	0	MWR-WE10N	MWR-WE10N
	2.emele t		R2B33	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	8	0	0	MWR-WE10N	MWR-WE10N
			R2B25	AM036FNQDEH/EU	0.75~1.50	1.5~2.5		0	5	0	0	MWR-WE10N	MWR-WE10N
			R2B26	AM036FNQDEH/EU	0.75~1.50	1.5~2.5		0	6	0	0	MWR-WE10N	MWR-WE10N
			R2B21	AM036FNQDEH/EU	0.75~1.50	1.5~2.5		0	1	0	0	MWR-WE10N	MWR-WE10N
			R2B22	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	2	0	0	MWR-WE10N	MWR-WE10N
			R2B23	AM036FNQDEH/EU	0.75~1.50	1.5~2.5		0	3	0	0	MWR-WE10N	MWR-WE10N
			R2B24	AM036FNQDEH/EU	0.75~1.50	1.5~2.5		0	4	0	0	MWR-WE10N	MWR-WE10N
	5.emele t		R2B51	AM028FNQDEH/EU	0.75~1.50	1.5~2.5		0	0	0	0	MWR-WE10N	MWR-WE10N

2.2.3 Equipment list

1) Equipment list

Categories	Model name		Qty	Categories	Model name		Qty
DVM S(NEW)		AM100FXVAGH/EU	1	NEO FORTE		AM022FNQDEH/EU	5
NEO FORTE		AM036FNQDEH/EU	6	Y-Joint		MXJ-YA2512M	4
		AM028FNQDEH/EU	1			MXJ-YA1509M	7

2) Piping length

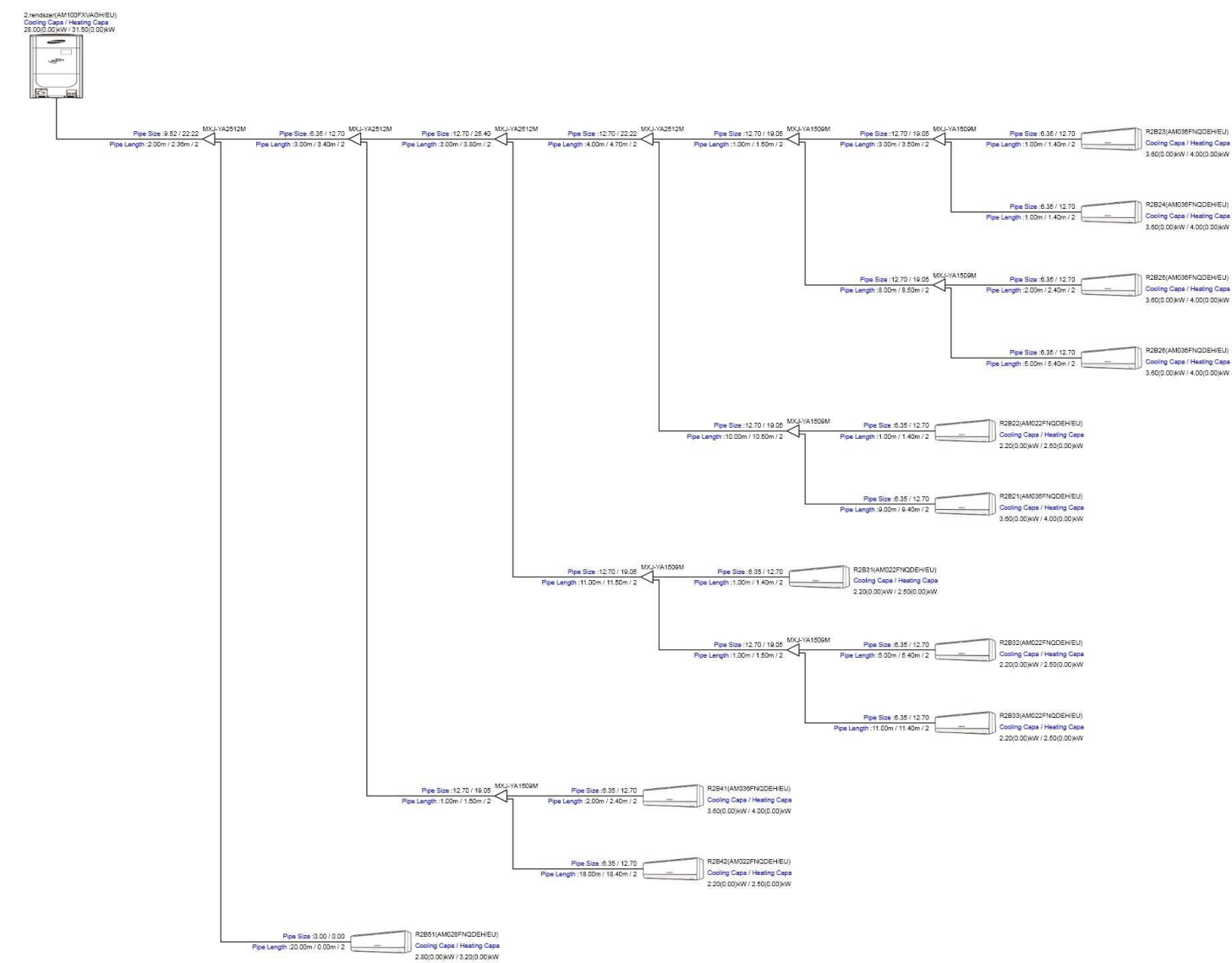
Length as pipe diameter		6.35	9.52	12.70	15.88	19.05	22.22	25.40	28.58	31.75	34.92	38.10	41.28	44.45	47.63	50.80	53.98
1. Liquid piping	m	59.00	2.00	42.00													
2. Gas piping	m			59.00		35.00	6.00	3.00									
3. High pressure gas piping	m																
Restriction of pipe length		Restriction (Based on installation manual)						Actual piping length				Equivalent piping length					
1. Total piping length	m	1000.00						126.30									
2. Maximum piping length	m	200.00						49.50				33.26					
3. Main pipe length	m							2.00									
4. Piping length between the first branch and the farthest indoor unit	m	45.00/90.00						47.50									
5. Level difference between outdoor and indoor unit(Max) (OD above ID unit / OD below ID unit)	m	110.00/40.00						7.00									
6. Level difference between indoor units	m	50.00						7.00									

3) Basic and additional charging ref. amount

Basic refrigerant charge amount : 5.200 kg

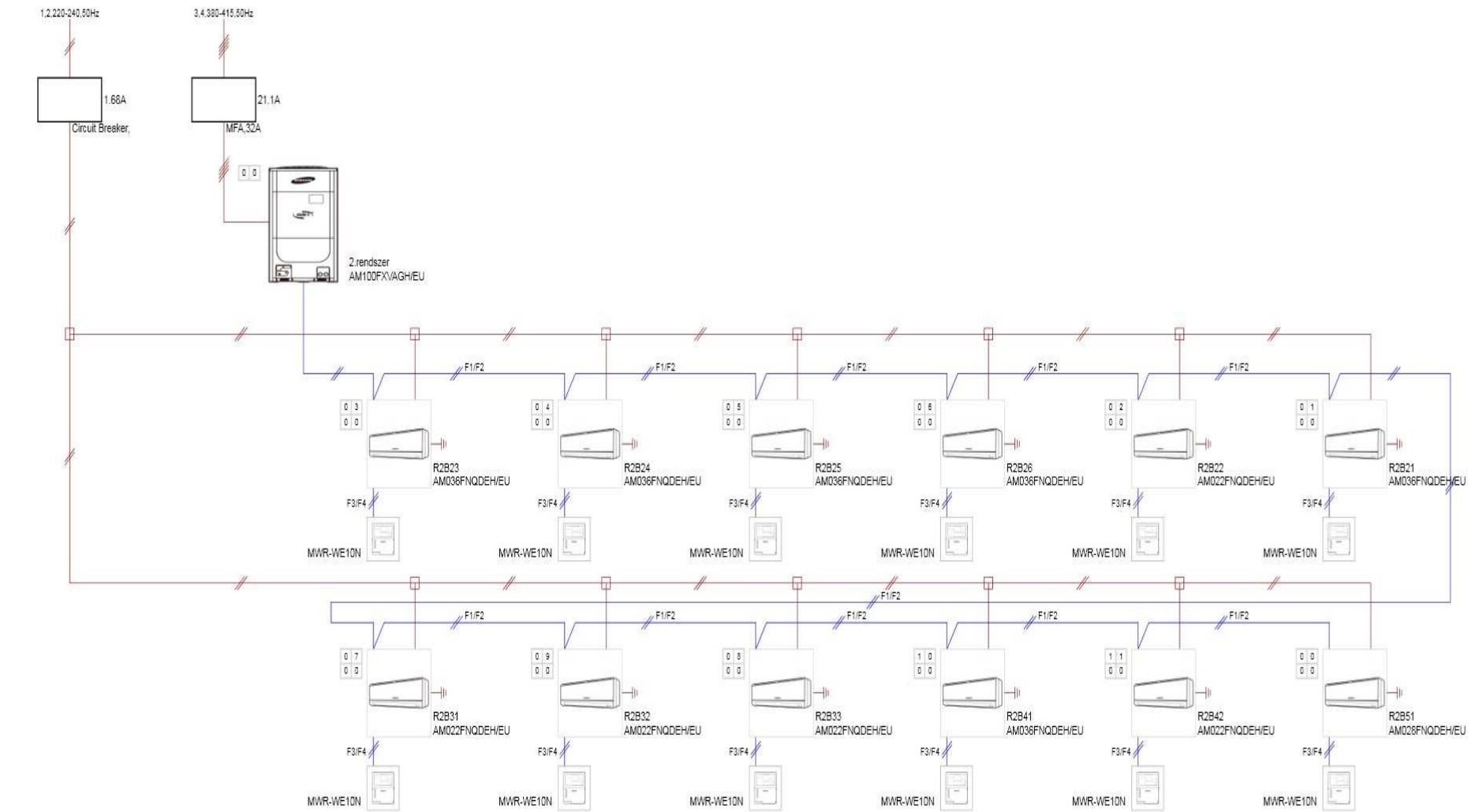
Additional refrigerant amount : 10.990 kg

2.2.4 Piping



- The system configuration may be different from the actual installation conditions, refer to the installation manual.

2.2.5 Wiring



- The system configuration may be different from the actual installation conditions, refer to the installation manual.

2.3 3.rendszer

2.3.1 Detail Load Profile

- 1) Design condition: Hungary, BUDAPEST, Cooling 35.0/23.9, Heating -15.0/0
- 2) Load profile

Building			Unit		Liquid	Gas	H.P.Gas	Airflow	Nominal Capacity			Simulated Capacity			Combi. Ratio	
Dept	Fl	Room	Name	Model name					Cooling		Heating	Cooling		Heating	Cooling	Heating
									TC	SHC	TC	TC	SHC	TC		
-	-	-	-	-	mm	mm	mm	CMM	kW	kW	kW	kW	kW	kW	%	%
Rendelő	5.emelet		3.rendszer	AM120FXVAGH/EU	12.70	28.58		220.00	33.60		37.80	0.00		0.00	128.57	129.63
	4.emelet		R3B41	AM028FNQDEH/EU	6.35	12.70		7.80	2.80	1.90	3.20	0.00	0.00	0.00		
			R3B42	AM028FNQDEH/EU	6.35	12.70		7.80	2.80	1.90	3.20	0.00	0.00	0.00		
	3.emelet		R3B31	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R3B32	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R3B36	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R3B37	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R3B33	AM028FNQDEH/EU	6.35	12.70		7.80	2.80	1.90	3.20	0.00	0.00	0.00		
			R3B34	AM028FNQDEH/EU	6.35	12.70		7.80	2.80	1.90	3.20	0.00	0.00	0.00		
			R3B35	AM028FNQDEH/EU	6.35	12.70		7.80	2.80	1.90	3.20	0.00	0.00	0.00		
			R3B24	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
	2.emelet		R3B26	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R3B22	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R3B23	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R3B25	AM036FNQDEH/EU	6.35	12.70		9.30	3.60	2.40	4.00	0.00	0.00	0.00		
			R3B21	AM036FNQDEH/EU	6.35	12.70		9.30	3.60	2.40	4.00	0.00	0.00	0.00		
	Földszint		R3BF1	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R3BF2	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		

2.3.2 Control

1) This data is for reference only. Verify local, state, and national electric codes. Samsung does not guarantee this data.

2) Configuration

Building			Unit		Communication wires	Power wires	Breaker Fuse	Main Address		RMC Address		Accessories	
Dept	Fl	Room	Name	Model name								Optional accessories	Basic accessories
-	-	-	-	-	mm2	mm2	A						
Rendelő	5.emelet		3.rendszer	AM120FXVAGH/EU	0.75~1.5	~	32						
	4.emelet		R3B41	AM028FNQDEH/EU	0.75~1.50	1.5~2.5		1	2	0	0	MWR-WE10N	MWR-WE10N
			R3B42	AM028FNQDEH/EU	0.75~1.50	1.5~2.5		1	6	0	0	MWR-WE10N	MWR-WE10N
	3.emelet		R3B31	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	8	0	0	MWR-WE10N	MWR-WE10N
			R3B32	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		1	0	0	0	MWR-WE10N	MWR-WE10N
			R3B33	AM028FNQDEH/EU	0.75~1.50	1.5~2.5		0	8	0	0	MWR-WE10N	MWR-WE10N
			R3B34	AM028FNQDEH/EU	0.75~1.50	1.5~2.5		0	9	0	0	MWR-WE10N	MWR-WE10N
			R3B35	AM028FNQDEH/EU	0.75~1.50	1.5~2.5		1	3	0	0	MWR-WE10N	MWR-WE10N
			R3B36	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		1	1	0	0	MWR-WE10N	MWR-WE10N
			R3B37	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	9	0	0	MWR-WE10N	MWR-WE10N
	2.emelet		R3B24	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	5	0	0	MWR-WE10N	MWR-WE10N
			R3B25	AM036FNQDEH/EU	0.75~1.50	1.5~2.5		0	6	0	0	MWR-WE10N	MWR-WE10N
			R3B26	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	7	0	0	MWR-WE10N	MWR-WE10N
			R3B21	AM036FNQDEH/EU	0.75~1.50	1.5~2.5		0	2	0	0	MWR-WE10N	MWR-WE10N
			R3B22	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	3	0	0	MWR-WE10N	MWR-WE10N
			R3B23	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	4	0	0	MWR-WE10N	MWR-WE10N
	Földszint		R3BF1	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	0	0	0	MWR-WE10N	MWR-WE10N
			R3BF2	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	1	0	0	MWR-WE10N	MWR-WE10N

2.3.3 Equipment list

1) Equipment list

Categories	Model name		Qty	Categories	Model name		Qty
DVM S(NEW)		AM120FXVAGH/EU	1	NEO FORTE		AM028FNQDEH/EU	5
NEO FORTE		AM022FNQDEH/EU	10	Y-Joint		MXJ-YA2512M	5
		AM036FNQDEH/EU	2			MXJ-YA1509M	11

2) Piping length

Length as pipe diameter		6.35	9.52	12.70	15.88	19.05	22.22	25.40	28.58	31.75	34.92	38.10	41.28	44.45	47.63	50.80	53.98
1. Liquid piping	m	63.00	69.00	7.00													
2. Gas piping	m			63.00	64.00	5.00			7.00								
3. High pressure gas piping	m																
Restriction of pipe length		Restriction (Based on installation manual)						Actual piping length				Equivalent piping length					
1. Total piping length	m	1000.00						143.80									
2. Maximum piping length	m	200.00						38.40				45.20					
3. Main pipe length	m							4.00									
4. Piping length between the first branch and the farthest indoor unit	m	45.00/90.00						34.40									
5. Level difference between outdoor and indoor unit(Max) (OD above ID unit / OD below ID unit)	m	110.00/40.00						10.00									
6. Level difference between indoor units	m	50.00						9.00									

3) Basic and additional charging ref. amount

Basic refrigerant charge amount : 5.500 kg

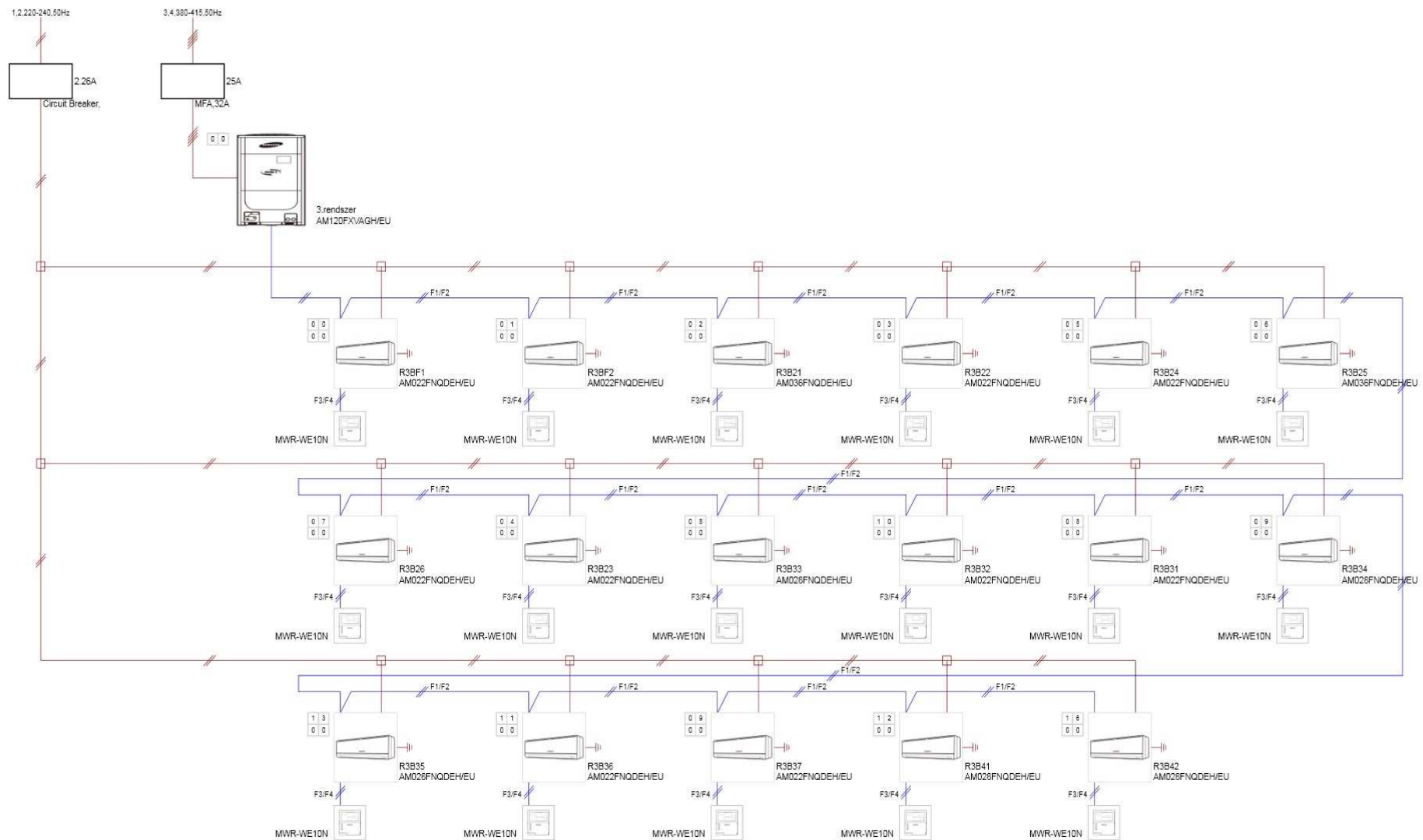
Additional refrigerant amount : 12.380 kg

2.3.4 Piping



- The system configuration may be different from the actual installation conditions, refer to the installation manual.

2.3.5 Wiring



- The system configuration may be different from the actual installation conditions, refer to the installation manual.

2.4 4.rendszer

2.4.1 Detail Load Profile

- 1) Design condition: Hungary, BUDAPEST, Cooling 35.0/23.9, Heating -15.0/.0
- 2) Load profile

Building			Unit		Liquid	Gas	H.P.Gas	Airflow	Nominal Capacity			Simulated Capacity			Combi. Ratio	
Dept	Fl	Room	Name	Model name					Cooling		Heating	Cooling		Heating	Cooling	Heating
									TC	SHC	TC	TC	SHC	TC		
-	-	-	-	-	mm	mm	mm	CMM	kW	kW	kW	kW	kW	kW	%	%
Rendelő	Földszint		4.rendszer	AM100FXVAGH/EU	9.52	22.22		170.00	28.00		31.50	0.00		0.00	106.43	106.98
			R4BF11	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R4BF3	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R4BF4	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R4BF5	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R4BF6	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R4BF7	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R4BF8	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R4BF9	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R4BF10	AM022FNQDEH/EU	6.35	12.70		7.80	2.20	1.50	2.50	0.00	0.00	0.00		
			R4BF12	AM028FNQDEH/EU	6.35	12.70		7.80	2.80	1.90	3.20	0.00	0.00	0.00		
			R4BF1	AM036FNQDEH/EU	6.35	12.70		9.30	3.60	2.40	4.00	0.00	0.00	0.00		
			R4BF2	AM036FNQDEH/EU	6.35	12.70		9.30	3.60	2.40	4.00	0.00	0.00	0.00		

2.4.2 Control

1) This data is for reference only. Verify local, state, and national electric codes. Samsung does not guarantee this data.

2) Configuration

Building			Unit		Communication wires	Power wires	Breaker Fuse	Main Address		RMC Address		Accessories	
Dept	Fl	Room	Name	Model name								Optional accessories	Basic accessories
-	-	-	-	-	mm2	mm2	A						
			4.rendszer	AM100FXVAGH/EU	0.75~1.5	~	32						
			R4BF11	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		1	0	0	0	MWR-WE10N	MWR-WE10N
			R4BF12	AM028FNQDEH/EU	0.75~1.50	1.5~2.5		1	1	0	0	MWR-WE10N	MWR-WE10N
			R4BF1	AM036FNQDEH/EU	0.75~1.50	1.5~2.5		0	0	0	0	MWR-WE10N	MWR-WE10N
			R4BF2	AM036FNQDEH/EU	0.75~1.50	1.5~2.5		0	1	0	0	MWR-WE10N	MWR-WE10N
			R4BF3	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	2	0	0	MWR-WE10N	MWR-WE10N
			R4BF4	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	3	0	0	MWR-WE10N	MWR-WE10N
			R4BF5	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	4	0	0	MWR-WE10N	MWR-WE10N
			R4BF6	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	5	0	0	MWR-WE10N	MWR-WE10N
			R4BF7	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	6	0	0	MWR-WE10N	MWR-WE10N
			R4BF8	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	7	0	0	MWR-WE10N	MWR-WE10N
			R4BF9	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	8	0	0	MWR-WE10N	MWR-WE10N
			R4BF10	AM022FNQDEH/EU	0.75~1.50	1.5~2.5		0	9	0	0	MWR-WE10N	MWR-WE10N

2.4.3 Equipment list

1) Equipment list

Categories	Model name		Qty	Categories	Model name		Qty
DVM S(NEW)		AM100FXVAGH/EU	1	NEO FORTE		AM036FNQDEH/EU	2
NEO FORTE		AM022FNQDEH/EU	9	Y-Joint		MXJ-YA2512M	3
		AM028FNQDEH/EU	1			MXJ-YA1509M	8

2) Piping length

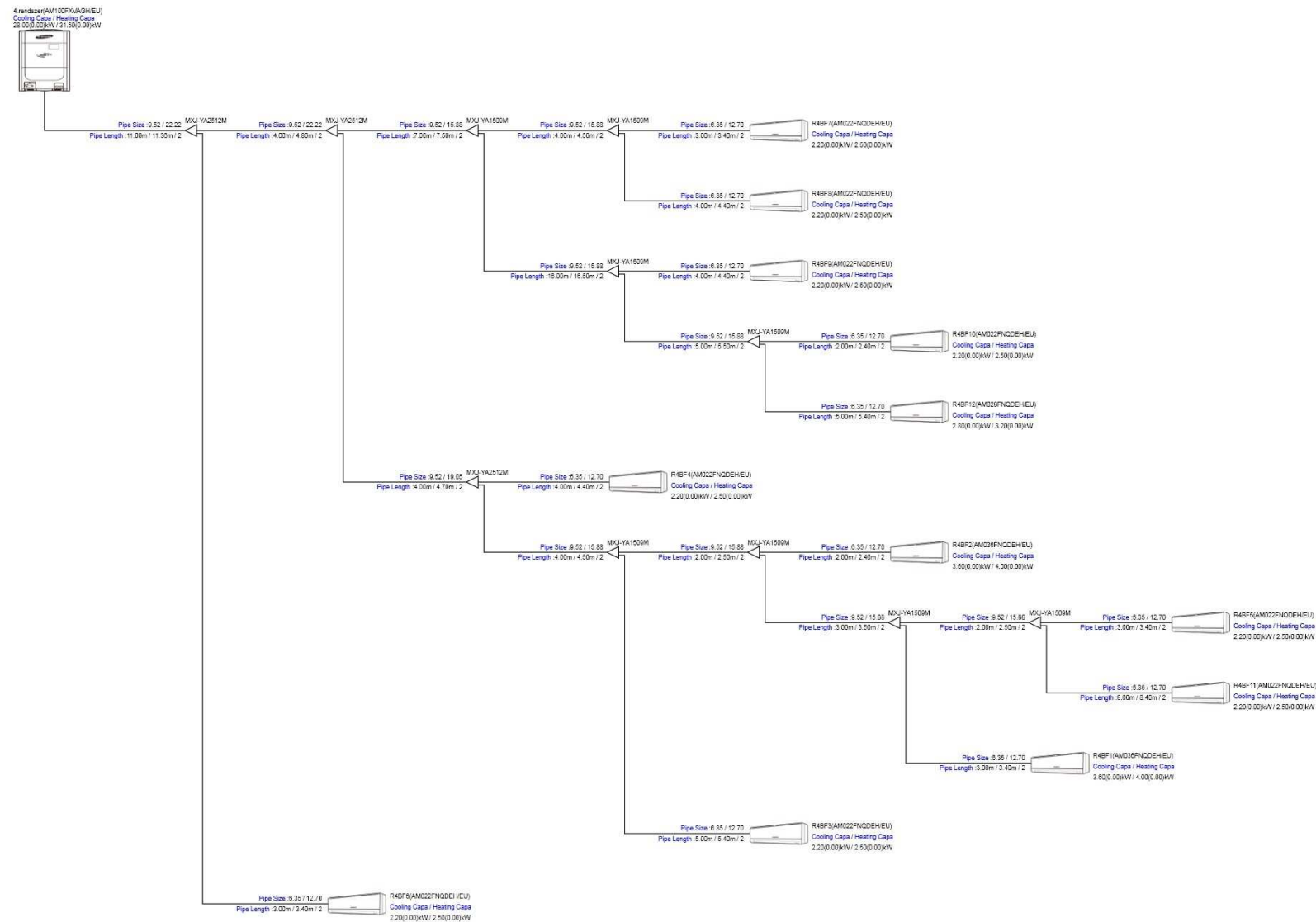
Length as pipe diameter		6.35	9.52	12.70	15.88	19.05	22.22	25.40	28.58	31.75	34.92	38.10	41.28	44.45	47.63	50.80	53.98
1. Liquid piping	m	46.00	62.00														
2. Gas piping	m			46.00	43.00	4.00	15.00										
3. High pressure gas piping	m																
Restriction of pipe length		Restriction (Based on installation manual)						Actual piping length				Equivalent piping length					
1. Total piping length	m	1000.00						111.30									
2. Maximum piping length	m	200.00						49.50				53.56					
3. Main pipe length	m							11.00									
4. Piping length between the first branch and the farthest indoor unit	m	45.00/90.00						38.50									
5. Level difference between outdoor and indoor unit(Max) (OD above ID unit / OD below ID unit)	m	110.00/40.00						-2.00									
6. Level difference between indoor units	m	50.00															

3) Basic and additional charging ref. amount

Basic refrigerant charge amount : 5.200 kg

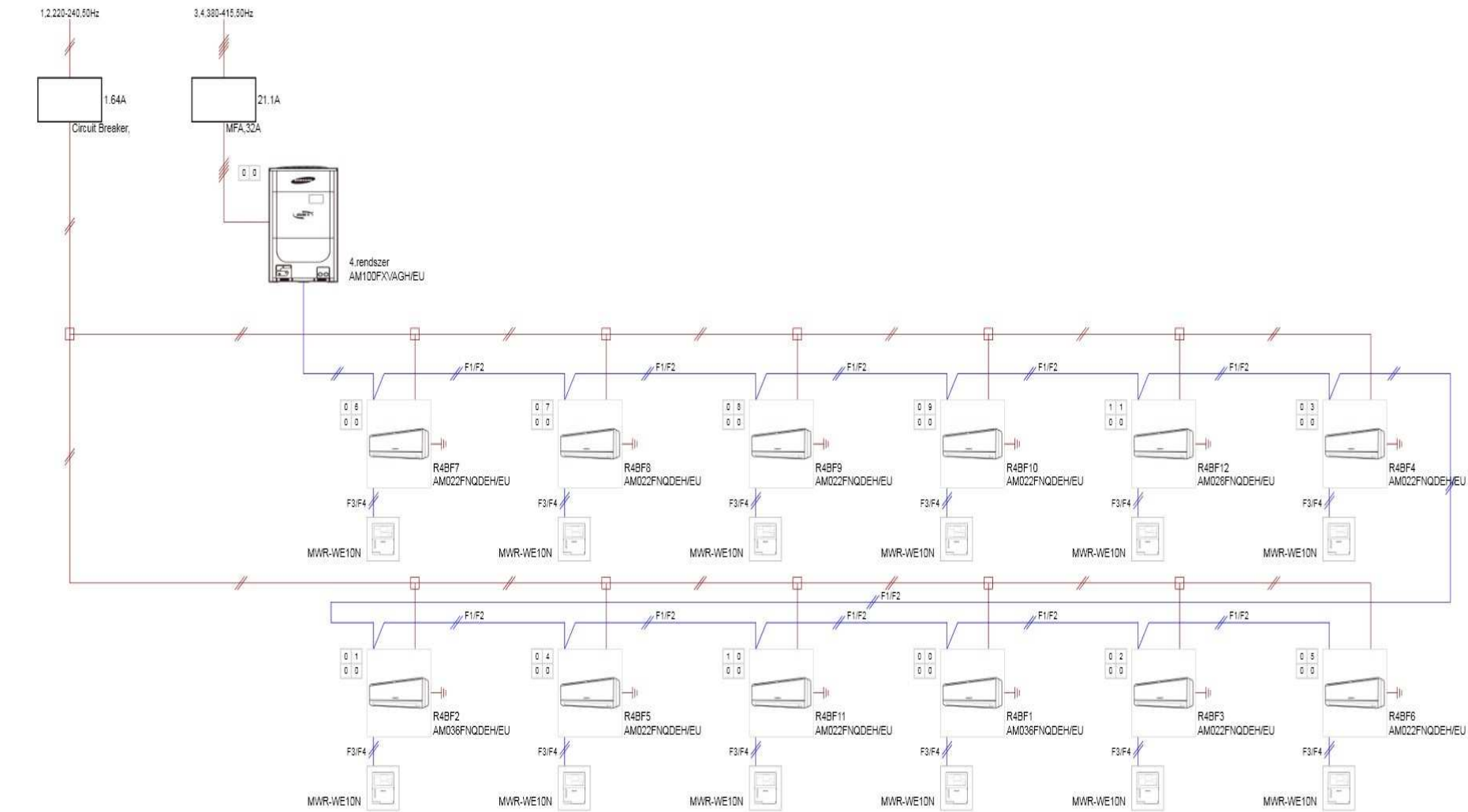
Additional refrigerant amount : 8.920 kg

2.4.4 Piping



- The system configuration may be different from the actual installation conditions, refer to the installation manual.

2.4.5 Wiring



- The system configuration may be different from the actual installation conditions, refer to the installation manual.

3 Specification

3.1 DVM

3.1.1 Outdoor units

Model name				AM100FXVAGH/EU	AM120FXVAGH/EU	
Power supply		Ø, #, V, Hz		3,4,380-415,50Hz	3,4,380-415,50Hz	
Mode		-		HEAT PUMP	HEAT PUMP	
Performance	HP/TON		HP/TON	10	12	
	Capacity(Nominal)	Cooling	kW	28	33.6	
			Kcal/h	24080	28900	
		Cooling 46°C	kW	-	-	
			Kcal/h	N/A	N/A	
		Heating	kW	31.5	37.8	
			Kcal/h	27090	32510	
	-20 °C	Heating(Low ambient temp.)	kW	-	-	
			Kcal/h	N/A	N/A	
Power	Power Input(Nominal)	Cooling	kW	6.8	8.4	
		Heating	kW	6.7	8.7	
	Power Input (at specific)		kW	N/A	N/A	
	Power Input(Nominal)	Cooling	A	10.9	13.5	
		Heating	A	10.7	14	
	Max. Current Input		A	21.1	25	
COP	Circuit Breaker		A	32	32	
	Cooling		-	4.12	4.00	
	Heating		-	4.70	4.34	
Compressor	Type		-	SSC Scrollx1	SSC Scrollx1	
	Output		kW × n	6.39x1	6.39x1	
Fan	Type		-	Propeller	Propeller	
	Output		W	400	400	
	Number of Units		EA	1	1	
	Air Flow Rate		CMM	170.00	220.00	
	External Static Pressure	Max.	mmAq	8	8	
Piping Connections	Liquid Pipe		Ø,mm(in)	9.52(3/8")	12.7(1/2")	
	Gas Pipe		Ø,mm(in)	22.22(7/8")	28.58(1 1/8")	
	Discharge Gas Pipe		Ø,mm(in)	-(-)	-(-)	
	Oil Equalizing Pipe		Ø,mm(in)	N/A(N/A)	N/A(N/A)	
Field Wiring	Power Source Wire		mm2	-	-	
	Transmission Cable		mm2	0.75/1.5	0.75/1.5	
Refrigerant	Type		-	R410A	R410A	
	Factory Charging		kg	5.200	5.500	
Sound	Sound pressure		dB(A)	58	62	
External Dimension	Net Weight		kg	184.500	184.500	
	Shipping Weight		kg	200.500	200.500	
	Net Dimensions (WxHxD)		mm	880.00x1695.00x765.00	880.00x1695.00x765.00	
	Shipping Dimensions (WxHxD)		mm	948.00x1887.00x832.00	948.00x1887.00x832.00	
Operating Temp. Range	Cooling		C	-5.00~48.00	-5.00~48.00	
	Heating		C	-25.00~24.00	-25.00~24.00	

3.1.2 Indoor units

Model				AM022FNQDEH/EU	AM028FNQDEH/EU	AM036FNQDEH/EU	AM045FNQDEH/EU	
Power supply			Ø, #, V, Hz	1,2,220-240,50Hz	1,2,220-240,50Hz	1,2,220-240,50Hz	1,2,220-240,50Hz	
Performance	Capacity(Nominal)	Cooling	kW	2.2	2.8	3.6	4.5	
			Kcal/h	1890	2410	3100	3870	
		Cooling (SHC)	kW	1.5	1.9	2.4	3.05	
			Kcal/h	1290	1630	2060	2620	
		Heating	kW	2.5	3.2	4	5	
			Kcal/h	2150	2750	3440	4300	
Power	Power Input(Nominal)	Cooling	W	25	25	30	40	
		Heating		25	25	30	40	
	Current Input	Cooling	A	0.16	0.16	0.18	0.24	
		Heating		0.16	0.16	0.18	0.24	
Fan	Motor	Type	-	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan	
		Output	W	23	23	23	40	
		Number of unit	EA	1	1	1	1	
	Air Flow Rate	H/M/L (UL)	CMM	7.80/6.80/5.80	7.80/6.80/5.80	9.30/8.30/7.30	11.70/10.20/8.70	
	External Pressure	Min / Std / Max	mmAq	-	-	-	-	
Piping Connections	Liquid Pipe		Ø,mm(in)	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")	
	Gas Pipe		Ø,mm(in)	12.7(1/2")	12.7(1/2")	12.7(1/2")	12.7(1/2")	
	Drain Pipe		Ø,mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	
Field Wiring	Power Source Wire		mm2	1.5~2.5	1.5~2.5	1.5~2.5	1.5~2.5	
	Transmission Cable		mm2	0.75/1.50	0.75/1.50	0.75/1.50	0.75/1.50	
Refrigerant	Type		-	R410A	R410A	R410A	R410A	
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	
Sound	Sound pressure	High / Low	dBA	31/26	31/26	37/29	39/34	
Dimensions	Net Weight		kg	8.300	8.300	8.300	13.500	
	Shipping Weight		kg	11.300	11.300	11.300	16.500	
	Net Dimensions (WxHxD)		mm	825.00x285.00x189.00	825.00x285.00x189.00	825.00x285.00x189.00	1065.00x298.00x218.00	
	Shipping Dimensions (WxHxD)		mm	904.00x353.00x263.00	904.00x353.00x263.00	904.00x353.00x263.00	1137.00x377.00x299.00	
Panel Size	Panel model		-					
	Panel Net Weight		kg					
	Shipping Weight		kg					
	Net Dimensions (WxHxD)		mm					
	Shipping Dimensions (WxHxD)		mm					

4 Controller

5 Total Equipment List

Index	Model	Qty	Remark(Categories)	Unit Price	Amount
Outdoor unit	AM100FXVAGH/EU	2	DVM S(NEW)	0	0
	AM120FXVAGH/EU	2	DVM S(NEW)	0	0
Indoor unit	AM022FNQDEH/EU	32	NEO FORTE	0	0
	AM028FNQDEH/EU	11	NEO FORTE	0	0
	AM036FNQDEH/EU	12	NEO FORTE	0	0
	AM045FNQDEH/EU	1	NEO FORTE	0	0
	MXJ-YA2512M	16	Y-Joint	0	0
Piping	MXJ-YA1509M	36	Y-Joint	0	0
Optional accessories	MWR-WE10N	56	WIRED REMOTE CONTROLLER	0	0
Ref. Pipe	6.35(1/4")	218.5	m	0	0
	9.52(3/8")	172	m	0	0
	12.70(1/2")	275.5	m	0	0
	15.88(5/8")	141	m	0	0
	19.05(3/4")	48	m	0	0
	22.22(7/8")	22	m	0	0
	28.58(1 1/8")	15	m	0	0
	25.40(1")	3	m	0	0
	R410A	42.2	kg	0	0
Additional Ref. Amount					
Total					0