VRV Selection

Project Report

Report details

Produced on: 4/1/2026

Application version: 2.0.26070.3

Project details

Project name: 13724 Block

Solution name: 1

Client Name: Envira-Mech Services Ltd

Customer reference:

Quotation reference: 33991915

Project number: 1886073/2360738

The output of the VRV Xpress software is based on Daikin-genuine capacity tables that relate to the Japanese Industry Standard. The VRV Xpress software provides a selection of outdoor and indoor units with optimal efficiency to fit cooling and heating load requirements.

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Material list

Model	Quantity	Description
RXYSA12A	2	RXYSA-A (VRV 5 S-series 3 phase (Large))
FXAA40A	1	FXAA-A - Wall mounted unit
FXAA50A	13	FXAA-A - Wall mounted unit
KHRA22M65T	2	Refnet branch piping kit
KHRQ22M20TA	5	Refnet branch piping kit
KHRQ22M29T9	5	Refnet branch piping kit
DCM601B51	1	Intelligent Touch Manager
BRC1H52W7	14	Remote controller (white)

Pipes for R410A/R32 outdoor systems	Liquid	Suction	Total
	m	m	m
6.4mm	70.0	0.0	70.0
9.5mm	16.0	0.0	16.0
12.7mm	44.0	70.0	114.0
15.9mm	0.0	6.0	6.0
19.1mm	0.0	10.0	10.0
22.2mm	0.0	44.0	44.0

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Indoor unit details

Table of abbreviations

Abbreviation	Description
Name	Logical name of the device
FCU	Device model name
Tmp C	Indoor conditions in cooling
Rq TC	Required total cooling capacity
Rv TC	Revised total cooling capacity (asked from outdoor)
Max TC	Available total cooling capacity
Rq SC	Required sensible cooling capacity
Tevap	Evaporating temperature of indoor unit coil
Tdis C	Indoor unit discharge air temperature in cooling based on maximum capacities and required capacities
Max SC	Available sensible cooling capacity
PIC	Power input in cooling mode @ 50Hz
Tmp H	Indoor temperature in heating
Rq HC	Required heating capacity
Max HC	Available heating capacity
Tdis H	Indoor unit discharge air temperature in heating based on maximum capacities and required capacities
PIH	Power input in heating mode @ 50Hz
Sound	Sound pressure level low and high
PS	Power supply (voltage and phases)
MCA	Minimum Circuit Amps
MFA	Maxium Fuse Amps
WxHxD	WidthxHeightxDepth
Weight	Weight of the device
Min coil	Minimum coil volume
Max coil	Maximum coil volume
Air Flow Rate	Air Flow Rate
Mrel	Maximum Refrigerant Amount that can be released. Equals the total refrigerant charge in the system when there are no shut-off valves.

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CU 1 - First Floor - RXYSA12A

Capacity data at conditions and connection ratio (100) as entered

Name	FCU	Cooling								
		Tmp C	Rq TC	Rv TC	Max TC	Rq SC	Tevap	Tdis C	Max SC	PIC
		°C (DBT/WBT)	kW	kW	kW	kW	°C	°C	kW	kW
FCU 1	FXAA50A	24.0/17.1	4.5	4.5	4.6	n/a	6.0	12.5 / 12.4	3.3	0.033
FCU 2	FXAA50A	24.0/17.1	4.5	4.5	4.6	n/a	6.0	12.5 / 12.4	3.3	0.033
FCU 3	FXAA50A	24.0/17.1	4.5	4.5	4.6	n/a	6.0	12.5 / 12.4	3.3	0.033
FCU 4	FXAA50A	24.0/17.1	4.5	4.5	4.6	n/a	6.0	12.5 / 12.4	3.3	0.033
FCU 5	FXAA50A	24.0/17.1	4.5	4.5	4.6	n/a	6.0	12.5 / 12.4	3.3	0.033
FCU 6	FXAA50A	24.0/17.1	4.5	4.5	4.6	n/a	6.0	12.5 / 12.4	3.3	0.033

Name	FCU	Heating							
		Tmp H	Rq HC	Max HC	Tdis H	PIH	Min coil	Max coil	Air Flow Rate
		°C	kW	kW	°C	kW	dm³	dm³	l/s
FCU 1	FXAA50A	22.0	n/a	5.8	42.0 / 22.0	0.039	n/a	n/a	236.67
FCU 2	FXAA50A	22.0	n/a	5.8	42.0 / 22.0	0.039	n/a	n/a	236.67
FCU 3	FXAA50A	22.0	n/a	5.8	42.0 / 22.0	0.039	n/a	n/a	236.67
FCU 4	FXAA50A	22.0	n/a	5.8	42.0 / 22.0	0.039	n/a	n/a	236.67
FCU 5	FXAA50A	22.0	n/a	5.8	42.0 / 22.0	0.039	n/a	n/a	236.67
FCU 6	FXAA50A	22.0	n/a	5.8	42.0 / 22.0	0.039	n/a	n/a	236.67

Name	FCU	Floor	Room	Sound	PS	MCA	MFA	WxHxD	Weight
				dBA		A		mm	kg
FCU 1	FXAA50A	First Floor	Room 1	36 - 41	230V 1ph	0.5	Factory Std	1,050 x 290 x 269	15.0
FCU 2	FXAA50A	First Floor	Room 1	36 - 41	230V 1ph	0.5	Factory Std	1,050 x 290 x 269	15.0
FCU 3	FXAA50A	First Floor	Room 1	36 - 41	230V 1ph	0.5	Factory Std	1,050 x 290 x 269	15.0
FCU 4	FXAA50A	First Floor	Room 1	36 - 41	230V 1ph	0.5	Factory Std	1,050 x 290 x 269	15.0
FCU 5	FXAA50A	First Floor	Room 1	36 - 41	230V 1ph	0.5	Factory Std	1,050 x 290 x 269	15.0
FCU 6	FXAA50A	First Floor	Room 1	36 - 41	230V 1ph	0.5	Factory Std	1,050 x 290 x 269	15.0

Remarks

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

Minimum room area

Room area checks are compliant to IEC 60335-2-40:2022 (Ed. 7).

Other floors and additional multi-BS box measures

Minimum area to meet lower flammability limit for rooms is determined per SV box port.

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Rooms

Floor	Room	Indoor units	Installation Height m	Release Height m	Measures
First Floor	Room 1	FCU 1	2.5	-	Room area ≥ 17.59m² : No further measures
		FCU 2	2.5	-	Room area < 17.59m² : Alarm (BRC1H) + connect to SV Box
		FCU 3	2.5	-	Room area ≥ 17.59m² : No further measures
		FCU 4	2.5	-	Room area < 17.59m² : Alarm (BRC1H) + connect to SV Box
		FCU 5	2.5	-	Room area ≥ 17.59m² : No further measures
		FCU 6	2.5	-	Room area < 17.59m² : Alarm (BRC1H) + connect to SV Box

Only units connected to outdoor unit CU 1 - First Floor are considered for the minimum room areas displayed here. If other outdoor units serve the same room(s), check the minimum room areas there as well and only consider the largest one.

CU 2 - Second Floor - RXYSA12A

Capacity data at conditions and connection ratio (130) as entered

Name	FCU	Cooling								
		Tmp C	Rq TC	Rv TC	Max TC	Rq SC	Tevap	Tdis C	Max SC	PIC
		°C (DBT/WBT)	kW	kW	kW	kW	°C	°C	kW	kW
FCU 7	FXAA50A	24.0/17.1	4.5	4.5	4.6	n/a	6.0	12.5 / 12.4	3.3	0.033
FCU 8	FXAA50A	24.0/17.1	4.5	4.5	4.6	n/a	6.0	12.5 / 12.4	3.3	0.033
FCU 9	FXAA50A	24.0/17.1	4.5	4.5	4.6	n/a	6.0	12.5 / 12.4	3.3	0.033
FCU 10	FXAA50A	24.0/17.1	4.5	4.5	4.6	n/a	6.0	12.5 / 12.4	3.3	0.033
FCU 11	FXAA50A	24.0/17.1	4.5	4.5	4.6	n/a	6.0	12.5 / 12.4	3.3	0.033
FCU 12	FXAA50A	24.0/17.1	4.5	4.5	4.6	n/a	6.0	12.5 / 12.4	3.3	0.033
FCU 13	FXAA50A	24.0/17.1	4.5	4.5	4.6	n/a	6.0	12.5 / 12.4	3.3	0.033
FCU 14	FXAA40A	24.0/17.1	3.6	3.6	3.6	n/a	6.0	13.3 / 13.2	2.7	0.025

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Name	FCU	Heating					Min coil	Max coil	Air Flow Rate
		Tmp H	Rq HC	Max HC	Tdis H	PIH			
		°C	kW	kW	°C	kW	dm³	dm³	l/s
FCU 7	FXAA50A	22.0	n/a	5.8	42.0 / 22.0	0.039	n/a	n/a	236.67
FCU 8	FXAA50A	22.0	n/a	5.8	42.0 / 22.0	0.039	n/a	n/a	236.67
FCU 9	FXAA50A	22.0	n/a	5.8	42.0 / 22.0	0.039	n/a	n/a	236.67
FCU 10	FXAA50A	22.0	n/a	5.8	42.0 / 22.0	0.039	n/a	n/a	236.67
FCU 11	FXAA50A	22.0	n/a	5.8	42.0 / 22.0	0.039	n/a	n/a	236.67
FCU 12	FXAA50A	22.0	n/a	5.8	42.0 / 22.0	0.039	n/a	n/a	236.67
FCU 13	FXAA50A	22.0	n/a	5.8	42.0 / 22.0	0.039	n/a	n/a	236.67
FCU 14	FXAA40A	22.0	n/a	4.6	40.4 / 22.0	0.030	n/a	n/a	203.33

Name	FCU	Floor	Room	Sound	PS	MCA	MFA	WxHxD	Weight
				dBA		A		mm	kg
FCU 7	FXAA50A	Second Floor	Room 1	36 - 41	230V 1ph	0.5	Factory Std	1,050 x 290 x 269	15.0
FCU 8	FXAA50A	Second Floor	Room 1	36 - 41	230V 1ph	0.5	Factory Std	1,050 x 290 x 269	15.0
FCU 9	FXAA50A	Second Floor	Room 1	36 - 41	230V 1ph	0.5	Factory Std	1,050 x 290 x 269	15.0
FCU 10	FXAA50A	Second Floor	Room 1	36 - 41	230V 1ph	0.5	Factory Std	1,050 x 290 x 269	15.0
FCU 11	FXAA50A	Second Floor	Room 1	36 - 41	230V 1ph	0.5	Factory Std	1,050 x 290 x 269	15.0
FCU 12	FXAA50A	Second Floor	Room 1	36 - 41	230V 1ph	0.5	Factory Std	1,050 x 290 x 269	15.0
FCU 13	FXAA50A	Second Floor	Room 1	36 - 41	230V 1ph	0.5	Factory Std	1,050 x 290 x 269	15.0
FCU 14	FXAA40A	Second Floor	Room 1	34 - 37	230V 1ph	0.4	Factory Std	1,050 x 290 x 269	15.0

Remarks

Under capacity

The sum of the required indoor unit capacities is 35.1kW for cooling. However, the selected outdoor unit has a cooling capacity of 33.4kW (= -4.7%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

Minimum room area

Room area checks are compliant to IEC 60335-2-40:2022 (Ed. 7).

Other floors and additional multi-BS box measures

Minimum area to meet lower flammability limit for rooms is determined per SV box port.

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Rooms

Floor	Room	Indoor units	Installation Height m	Release Height m	Measures
Second Floor	Room 1	FCU 7	2.5	-	Room area ≥ 18.63m² : No further measures
		FCU 8	2.5	-	Room area < 18.63m² : Alarm (BRC1H) + connect to SV Box
		FCU 9	2.5	-	Room area ≥ 18.63m² : No further measures
		FCU 10	2.5	-	Room area < 18.63m² : Alarm (BRC1H) + connect to SV Box
		FCU 11	2.5	-	Room area ≥ 18.63m² : No further measures
		FCU 12	2.5	-	Room area < 18.63m² : Alarm (BRC1H) + connect to SV Box
		FCU 13	2.5	-	Room area ≥ 18.63m² : No further measures
		FCU 14	2.5	-	Room area < 18.63m² : Alarm (BRC1H) + connect to SV Box

Only units connected to outdoor unit CU 2 - Second Floor are considered for the minimum room areas displayed here. If other outdoor units serve the same room(s), check the minimum room areas there as well and only consider the largest one.

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Outdoor unit details

Table of abbreviations

Abbreviation	Description
Name	Logical name of the device
Model	Device model name
CR	Connection ratio
Tmp C	Outdoor conditions in cooling
WFR	Water flow per outdoor unit module
CC	Available cooling capacity
Rq CC	Required cooling capacity
PIC	Power input in cooling mode
InC	Water inlet temperature in cooling mode
OutC	Water outlet temperature in cooling mode
Tmp H	Outdoor conditions in heating (dry bulb temp. / RH)
HC	Available heating capacity (integrated heating capacity)
Rq HC	Required heating capacity
PIH	Power input in heating mode
InH	Water inlet temperature in heating mode
OutH	Water outlet temperature in heating mode
Piping	Largest distance from indoor unit to outdoor unit
Bse Refr	Standard factory refrigerant charge (16.4ft actual piping length) excluding extra refrigerant charge. For calculation of extra refrigerant charge refer to the databook
Ex Refr	Extra refrigerant charge
PS	Power supply (voltage and phases)
MCA	Minimum Circuit Amps
MFA	Maxium Fuse Amps
FLA	Fan Motor Input
RLA	Nominal Running Amps
WxHxD	WidthxHeightxDepth
Weight	Weight of the device
EER	EER value at nominal condition
EER2	EER2 value at nominal condition
IEER	IEER value at nominal condition
COP47	COP value at nominal condition and at ambient temperature of 8°C
COP17	COP value at nominal condition and at ambient temperature of -8°C

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Outdoor details

Name	Model	CR	Cooling			Heating			Piping
			Tmp C	CC	Rq CC	Tmp H	HC	Rq HC	
		%	°C	kW	kW	°C (DBT/WBT)	kW	kW	m
CU 1 - First Floor	RXYSA12A	100.0	35.0	27.3	27.0	-4.0/-4.0	27.6	0.0	35.5
CU 2 - Second Floor	RXYSA12A	130.0	35.0	33.4	35.1	-4.0/-4.0	29.6	0.0	40.5

Name	Model	PS	MCA	MFA	RLA	FLA	WxHxD	Weight
			A	A	A	A	mm	kg
CU 1 - First Floor	RXYSA12A	400V 3Nph	24.0	32.0	20.5	1.3	940 x 1,615 x 460	163.0
CU 2 - Second Floor	RXYSA12A	400V 3Nph	24.0	32.0	20.5	1.3	940 x 1,615 x 460	163.0

Sound Data

Name	Model	Sound Power		Sound Pressure	
		Cooling	Heating	Cooling	Heating
		dBA	dBA	dBA	dBA
CU 1 - First Floor	RXYSA12A	76	76	60	-
CU 2 - Second Floor	RXYSA12A	76	76	60	-

Seasonal Efficiency

Name	Model	$\eta_{s,h}$ heating	$\eta_{s,c}$ cooling	SCOP	SEER	CSPF
		%	%			
CU 1 - First Floor	RXYSA12A	182.6	255.8	4.64	6.47	-
CU 2 - Second Floor	RXYSA12A	182.6	255.8	4.64	6.47	-

For more information go to: https://energylabel.daikin.eu/.

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Refrigerant information

Name	Model	Refrigerant type	GWP	Base charge kg	Extra charge kg	Total refrigerant charge kg	Total CO2 equivalent tonnes
CU 1 - First Floor	RXYSA12A	R32	675	7.10	3.02	10.12	6.83
CU 2 - Second Floor	RXYSA12A	R32	675	7.10	3.62	10.72	7.24

The system(s) contain fluorinated greenhouse gases.

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

CU 1 - First Floor - RXYSA12A

Model	Quantity	Description
RXYSA12A	1	RXYSA-A (VRV 5 S-series 3 phase (Large))
FXAA50A	6	FXAA-A - Wall mounted unit
KHRQ22M20TA	2	Refnet branch piping kit
KHRQ22M29T9	3	Refnet branch piping kit
BRC1H52W7	6	Remote controller (white)

Pipes for R410A/R32 outdoor systems	Liquid m	Suction m	Total m
6.4mm	30.0	0.0	30.0
9.5mm	8.0	0.0	8.0
12.7mm	20.0	30.0	50.0
15.9mm	0.0	2.0	2.0
19.1mm	0.0	6.0	6.0
22.2mm	0.0	20.0	20.0

Refrigerant information

Refrigerant type	GWP	Base charge kg	Extra charge kg	Total refrigerant charge kg	Total CO2 equivalent tonnes
R32	675	7.10	3.02*)	10.12	6.83

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 20.0 m (ø12.7 mm) × 0.1 + 8.0 m (ø9.5 mm) × 0.053 + 30.0 m (ø6.4 mm) × 0.02 = 3.0kg

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

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Pipe capacities

Maximum Connection Index	Diameters
149.9	9.5mmx15.9mm
289.9	9.5mmx19.1mm
391.9	12.7mmx22.2mm
619.9	12.7mmx28.6mm
> 619.9	15.9mmx28.6mm
Main pipe size up	15.9mmx25.4mm

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Piping limitations

Description	Value
Maximum total length	300.0m
Maximum longest actual length	120.0m
Maximum longest equivalent length	150.0m
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	40.0m
Maximum length first branch to indoor unit	40.0m
Maximum length of indoor units to nearest branch	40.0m
Maximum length difference between longest and shortest distance to indoor units	40.0m
Maximum height difference, outdoor unit below indoor units	40.0m
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	50.0m
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	40.0m
Maximum height difference in technical cooling, outdoor unit above indoor units	50.0m
Maximum height difference between indoor units	15.0m
Connection ratio range	50.0% - 130.0%
Refrigerant pipe diameters	15.9mm (liquid) x 25.4mm (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	40.0m
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

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CU 2 - Second Floor - RXYSA12A

Model	Quantity	Description
RXYSA12A	1	RXYSA-A (VRV 5 S-series 3 phase (Large))
FXAA40A	1	FXAA-A - Wall mounted unit
FXAA50A	7	FXAA-A - Wall mounted unit
KHRA22M65T	2	Refnet branch piping kit
KHRQ22M20TA	3	Refnet branch piping kit
KHRQ22M29T9	2	Refnet branch piping kit
BRC1H52W7	8	Remote controller (white)

Pipes for R410A/R32 outdoor systems	Liquid m	Suction m	Total m
6.4mm	40.0	0.0	40.0
9.5mm	8.0	0.0	8.0
12.7mm	24.0	40.0	64.0
15.9mm	0.0	4.0	4.0
19.1mm	0.0	4.0	4.0
22.2mm	0.0	24.0	24.0

Refrigerant information

Refrigerant type	GWP	Base charge kg	Extra charge kg	Total refrigerant charge kg	Total CO2 equivalent tonnes
R32	675	7.10	3.62*)	10.72	7.24

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 24.0 m (ø12.7 mm) × 0.1 + 8.0 m (ø9.5 mm) × 0.053 + 40.0 m (ø6.4 mm) × 0.02 = 3.6kg

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real TCO2 equivalent.

Pipe capacities

Maximum Connection Index	Diameters
149.9	9.5mmx15.9mm
289.9	9.5mmx19.1mm
391.9	12.7mmx22.2mm
619.9	12.7mmx28.6mm
> 619.9	15.9mmx28.6mm
Main pipe size up	15.9mmx25.4mm

Piping limitations

Description	Value
Maximum total length	300.0m

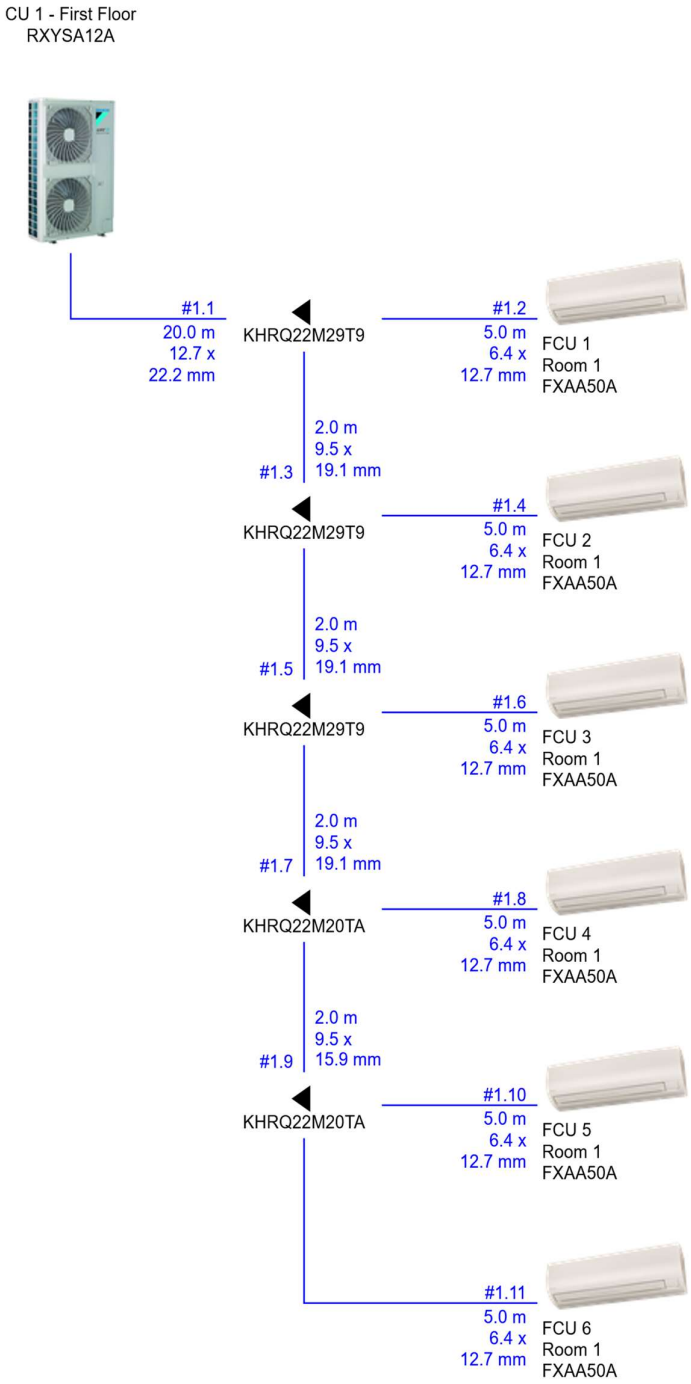
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Maximum longest actual length	120.0m
Maximum longest equivalent length	150.0m
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	40.0m
Maximum length first branch to indoor unit	40.0m
Maximum length of indoor units to nearest branch	40.0m
Maximum length difference between longest and shortest distance to indoor units	40.0m
Maximum height difference, outdoor unit below indoor units	40.0m
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	50.0m
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	40.0m
Maximum height difference in technical cooling, outdoor unit above indoor units	50.0m
Maximum height difference between indoor units	15.0m
Connection ratio range	50.0% - 130.0%
Refrigerant pipe diameters	15.9mm (liquid) x 25.4mm (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	40.0m
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

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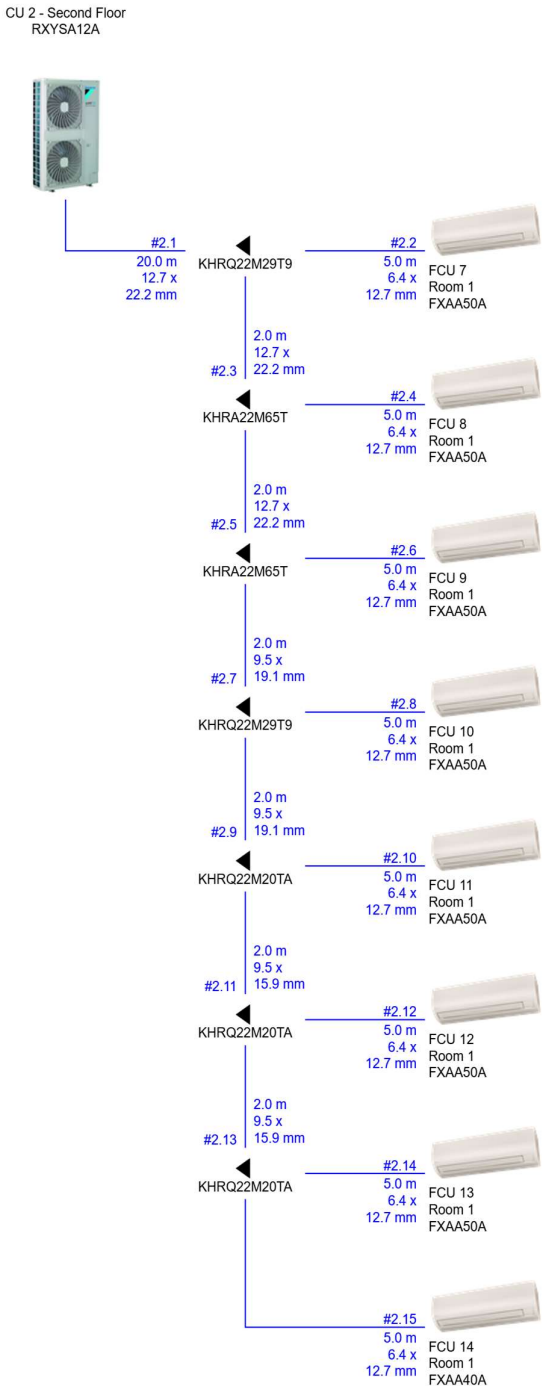
Piping diagrams

Piping CU 1 - First Floor



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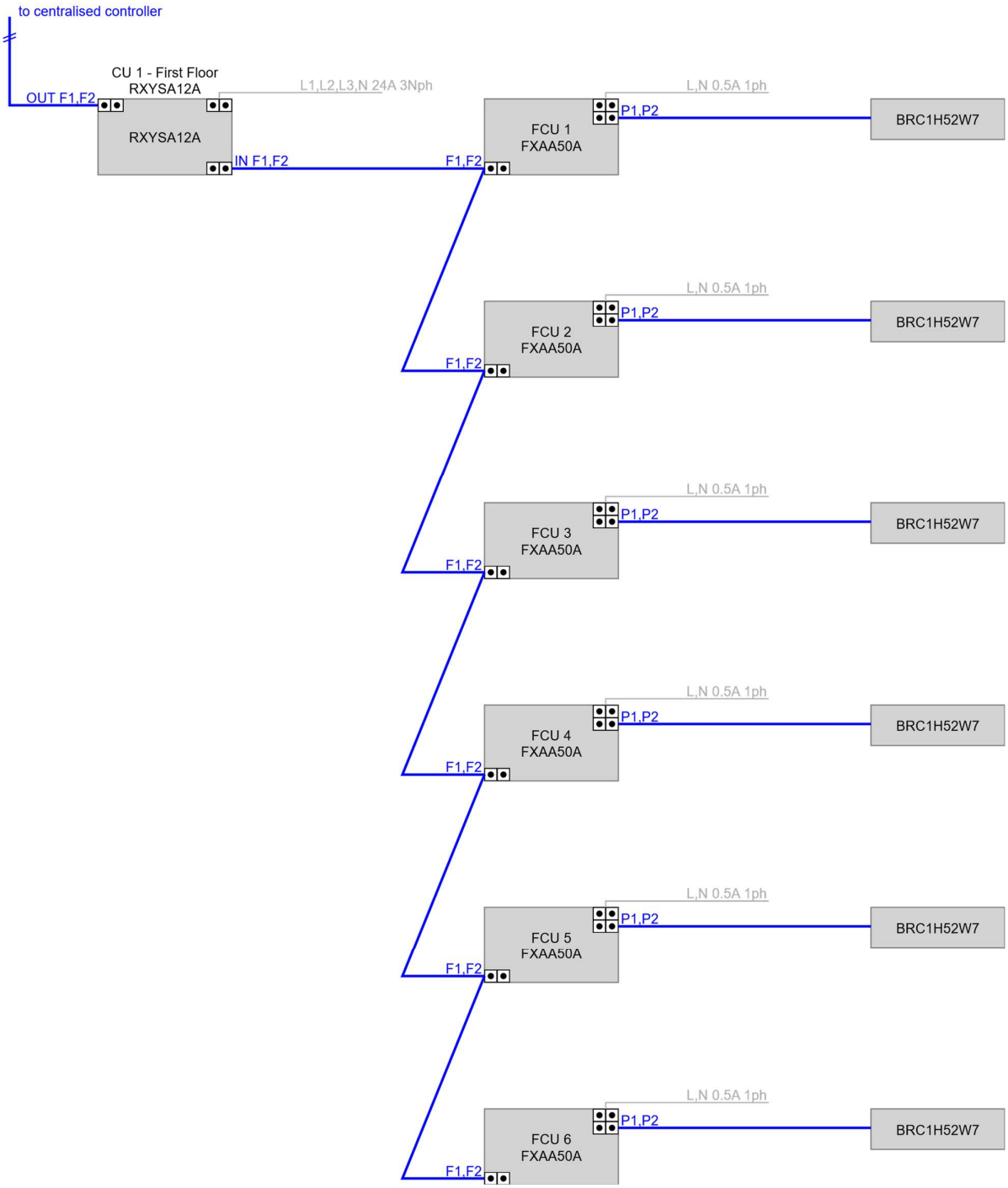
Piping CU 2 - Second Floor



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Wiring diagrams

Wiring CU 1 - First Floor



Remarks

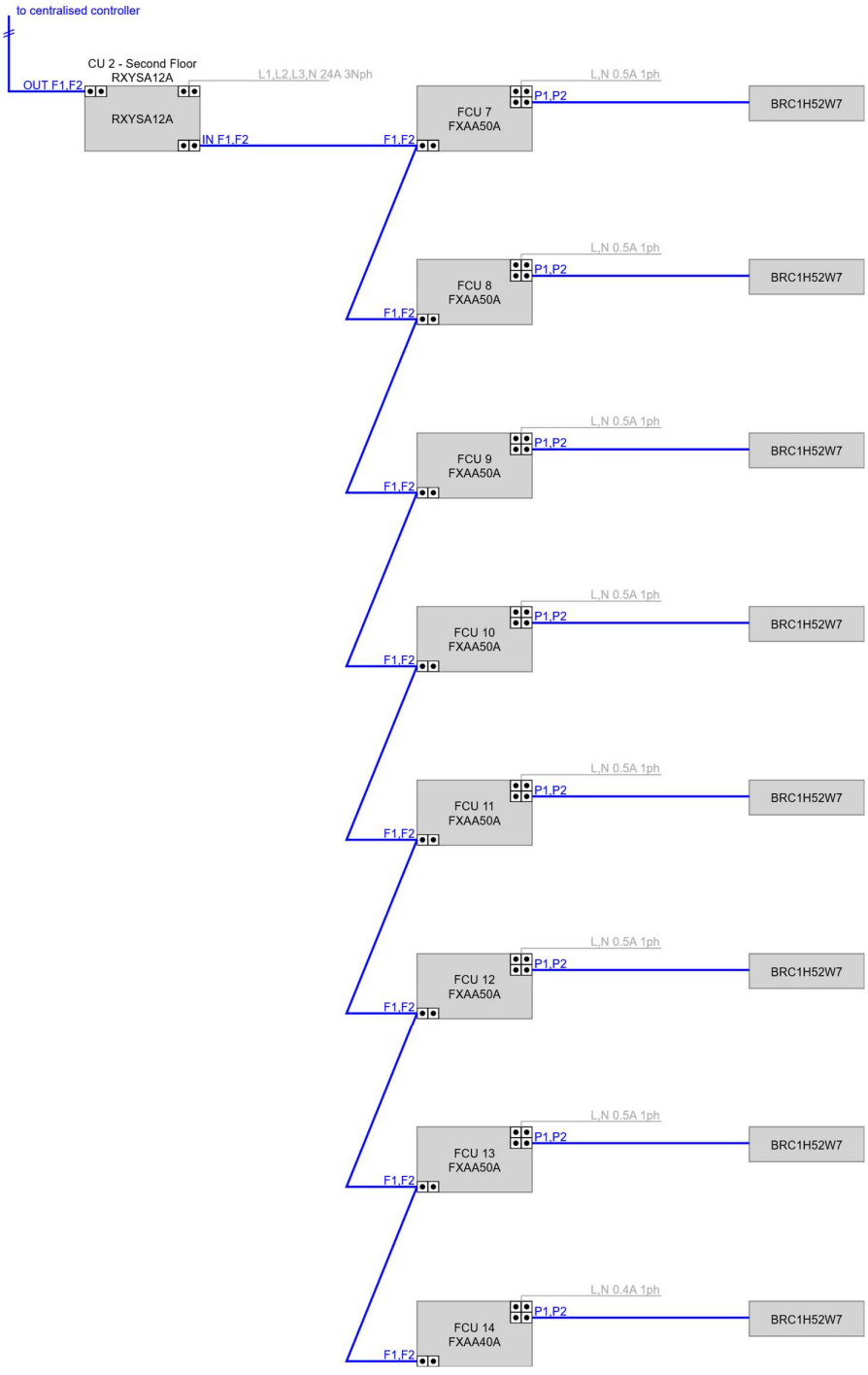
P1P2 = 0,75 - 1,25 mm2, max 500m length - always refer to local code for further information.

F1F2 OUT->IN: transmission wiring use 2-core wires of 0,75 to 1,25 mm2 size cables, with shield.

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F1F2 OUT-OUT OUT-CENTRALIZED: transmission wiring, use 2-core wires of 0,75 to 1,25 mm2 size cables, with shield.
Note: The shield should only be earthed at outdoor unit side, not at the indoor units!

Wiring CU 2 - Second Floor



Remarks

P1P2 = 0,75 - 1,25 mm2, max 500m length - always refer to local code for further information.

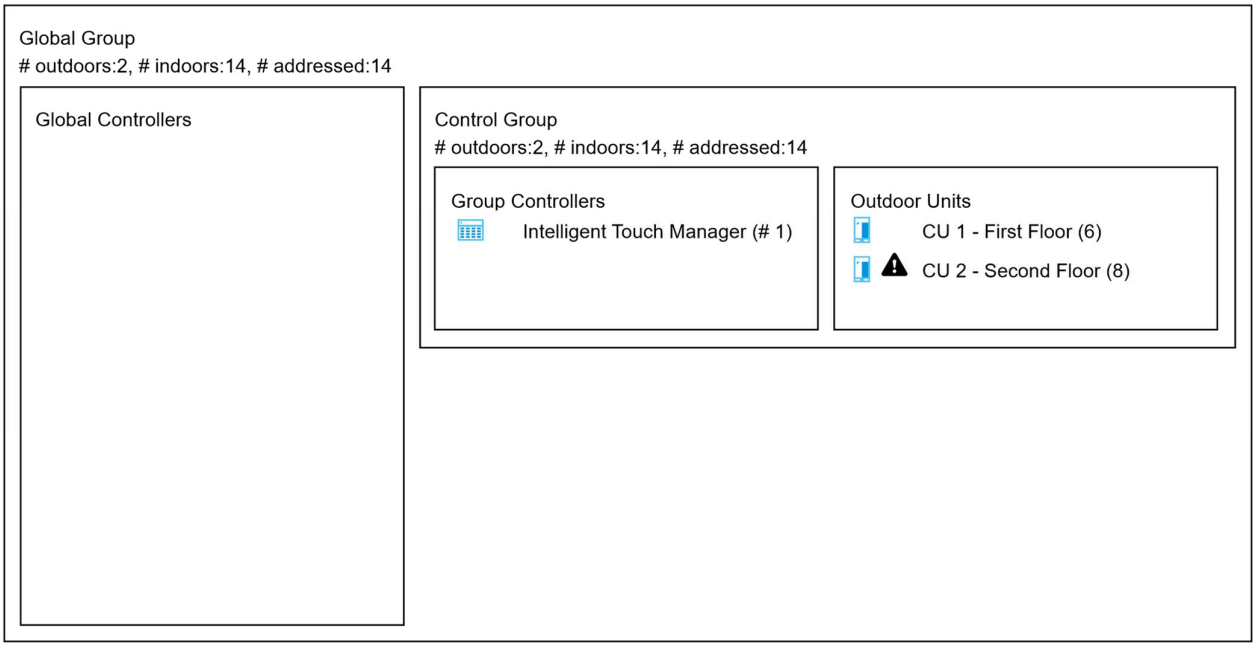
F1F2 OUT->IN: transmission wiring use 2-core wires of 0,75 to 1,25 mm2 size cables, with shield.

F1F2 OUT-OUT OUT-CENTRALIZED: transmission wiring, use 2-core wires of 0,75 to 1,25 mm2 size cables, with shield.
Note: The shield should only be earthed at outdoor unit side, not at the indoor units!

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Centralised controllers

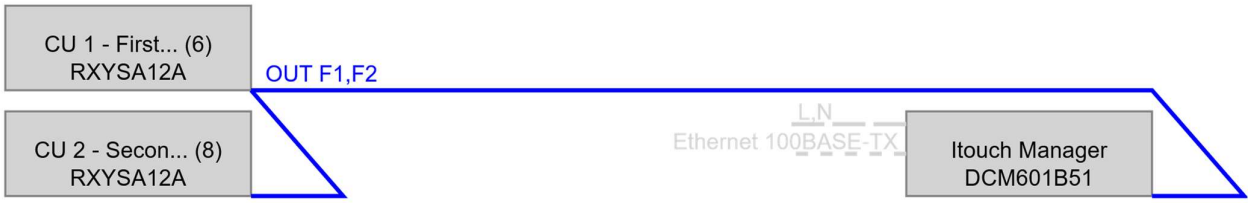
Concept



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Controller wiring diagrams

Control Group



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Best Practices

For better protection of installations against the risk of fire, power supply of indoor and outdoor units must be protected with a Residual Current Circuit Breaker. For protection against fire, we recommend a sensitivity of 300mA. The selected RCCB should be of the type B, suitable for inverter devices and indicated by the symbols here below. Further electrical characteristics of the RCCB must be selected in accordance with local regulation.



For a complete list of all required safety precautions, warnings and attention points, please consult the “general safety precautions manual” delivered with the unit.