VRV Selection

Project Report

Report details

Produced on: 21. 05. 2026

Application version: 2.0.26120.1

Project details

Project name: INKUBATOR Zalec

Solution name: Mini VRV5

Client Name: Jurij Salamon, Savaprojekt

Customer reference:

Quotation reference:

Project number: 1916091/2400025

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
RXYSA4AY1	1	RXYSA-AY1 (VRV 5 S-series 3 phase (Small))
RXYSA6AY1	1	RXYSA-AY1 (VRV 5 S-series 3 phase (Small))
FXDA15A	12	FXDA-A - Slim concealed ceiling unit
FXZA25A	4	FXZA-A - Fully flat cassette
KHRQ22M20TA	14	Refnet branch piping kit
DCM601B51	1	Intelligent Touch Manager
BRC1H52W7	16	Remote controller (white)
BYFQ60C4W	4	Decoration Panel - White

Pipes for R410A/R32 outdoor systems	Liquid	Suction	Total
	m	m	m
6,4mm	37,0	0,0	37,0
9,5mm	74,0	37,0	111,0
15,9mm	0,0	74,0	74,0

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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
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
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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Out 1 - RXYSA4AY1

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/RH)	kW	kW	kW	kW	°C	°C	kW	kW
N1-A.01-1	FXZA25A	26,0/50%	2,5	2,5	2,7	n/a	6,0	16,1	1,8	0,020
N1-A.01-2	FXZA25A	26,0/50%	2,5	2,5	2,7	n/a	6,0	16,1	1,8	0,020
N1-A.02-1	FXZA25A	26,0/50%	2,5	2,5	2,7	n/a	6,0	16,1	1,8	0,020
N1-A.02-2	FXZA25A	26,0/50%	2,5	2,5	2,7	n/a	6,0	16,1	1,8	0,020

Name	FCU	Heating							
		Tmp H	Rq HC	Max HC	Tdis H	PIH	Min coil	Max coil	Air Flow Rate
		°C	kW	kW	°C	kW	m³	m³	m³/h
N1-A.01-1	FXZA25A	20,0	n/a	3,2	37,3	0,020	n/a	n/a	540,00
N1-A.01-2	FXZA25A	20,0	n/a	3,2	37,3	0,020	n/a	n/a	540,00
N1-A.02-1	FXZA25A	20,0	n/a	3,2	37,3	0,020	n/a	n/a	540,00
N1-A.02-2	FXZA25A	20,0	n/a	3,2	37,3	0,020	n/a	n/a	540,00

Name	FCU	Floor	Room	Sound	PS	MCA	MFA	WxHxD	Weight
				dBA		A		mm	kg
N1-A.01-1	FXZA25A	Floor 1	Room 1	26 - 33	220V 1ph	0,3	Factory Std	575 x 260 x 575	15,5
N1-A.01-2	FXZA25A	Floor 1	Room 1	26 - 33	220V 1ph	0,3	Factory Std	575 x 260 x 575	15,5
N1-A.02-1	FXZA25A	Floor 1	Room 1	26 - 33	220V 1ph	0,3	Factory Std	575 x 260 x 575	15,5
N1-A.02-2	FXZA25A	Floor 1	Room 1	26 - 33	220V 1ph	0,3	Factory Std	575 x 260 x 575	15,5

Remarks

Reduced operational load

The sum of the required indoor unit capacities is 12,8kW for heating. However, the outdoor unit selection uses reduced load values for heating of 6,4kW (=50%). Be aware that unrealistic reductions 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

Indoor unit	Model	Minimum allowed room area
sejna 1	FXZA25A	7.33 m² (Room 1)
sejna 2	FXZA25A	7.33 m² (Room 1)
pisarna	FXZA25A	7.33 m² (Room 1)
vecnamen.pr.	FXZA25A	7.33 m² (Room 1)

Check compliant to IEC 60335-2-40:2018 (Ed. 6) & EN 378-1:2016.

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Out 2 - RXYSA6AY1

Capacity data at conditions and connection ratio (129) as entered

Name	FCU	Cooling								
		Tmp C	Rq TC	Rv TC	Max TC	Rq SC	Tevap	Tdis C	Max SC	PIC
		°C (DBT/RH)	kW	kW	kW	kW	°C	°C	kW	kW
N2-A.05	FXDA15A	26,0/50%	1,5	1,5	1,7	n/a	6,0	16,9	1,2	0,035
N2-A.04	FXDA15A	26,0/50%	1,5	1,5	1,7	n/a	6,0	16,9	1,2	0,035
N2-A.03	FXDA15A	26,0/50%	1,5	1,5	1,7	n/a	6,0	16,9	1,2	0,035
N2-A.02	FXDA15A	26,0/50%	1,5	1,5	1,7	n/a	6,0	16,9	1,2	0,035
N2-A.01	FXDA15A	26,0/50%	1,5	1,5	1,7	n/a	6,0	16,9	1,2	0,035
N2-A.06.1	FXDA15A	26,0/50%	1,5	1,5	1,7	n/a	6,0	16,9	1,2	0,035
N2-A.06	FXDA15A	26,0/50%	1,5	1,5	1,7	n/a	6,0	16,9	1,2	0,035
N2-A.07	FXDA15A	26,0/50%	1,5	1,5	1,7	n/a	6,0	16,9	1,2	0,035
N2-A.08	FXDA15A	26,0/50%	1,5	1,5	1,7	n/a	6,0	16,9	1,2	0,035
N2-A.09	FXDA15A	26,0/50%	1,5	1,5	1,7	n/a	6,0	16,9	1,2	0,035
N2-A.10	FXDA15A	26,0/50%	1,5	1,5	1,7	n/a	6,0	16,9	1,2	0,035
N3-B.01	FXDA15A	26,0/50%	1,5	1,5	1,7	n/a	6,0	16,9	1,2	0,035

Name	FCU	Heating							
		Tmp H	Rq HC	Max HC	Tdis H	PIH	Min coil	Max coil	Air Flow Rate
		°C	kW	kW	°C	kW	m³	m³	m³/h
N2-A.05	FXDA15A	20,0	n/a	1,9	34,3	0,035	n/a	n/a	390,00
N2-A.04	FXDA15A	20,0	n/a	1,9	34,3	0,035	n/a	n/a	390,00
N2-A.03	FXDA15A	20,0	n/a	1,9	34,3	0,035	n/a	n/a	390,00
N2-A.02	FXDA15A	20,0	n/a	1,9	34,3	0,035	n/a	n/a	390,00
N2-A.01	FXDA15A	20,0	n/a	1,9	34,3	0,035	n/a	n/a	390,00
N2-A.06.1	FXDA15A	20,0	n/a	1,9	34,3	0,035	n/a	n/a	390,00
N2-A.06	FXDA15A	20,0	n/a	1,9	34,3	0,035	n/a	n/a	390,00
N2-A.07	FXDA15A	20,0	n/a	1,9	34,3	0,035	n/a	n/a	390,00
N2-A.08	FXDA15A	20,0	n/a	1,9	34,3	0,035	n/a	n/a	390,00
N2-A.09	FXDA15A	20,0	n/a	1,9	34,3	0,035	n/a	n/a	390,00
N2-A.10	FXDA15A	20,0	n/a	1,9	34,3	0,035	n/a	n/a	390,00
N3-B.01	FXDA15A	20,0	n/a	1,9	34,3	0,035	n/a	n/a	390,00

Name	FCU	Floor	Room	Sound	PS	MCA	MFA	WxHxD	Weight
				dBA		A		mm	kg
N2-A.05	FXDA15A	Floor 2	Room 1	27 - 32	220V 1ph	0,4	Factory Std	750 x 200 x 620	22,0
N2-A.04	FXDA15A	Floor 2	Room 1	27 - 32	220V 1ph	0,4	Factory Std	750 x 200 x 620	22,0
N2-A.03	FXDA15A	Floor 2	Room 1	27 - 32	220V 1ph	0,4	Factory Std	750 x 200 x 620	22,0
N2-A.02	FXDA15A	Floor 2	Room 1	27 - 32	220V 1ph	0,4	Factory Std	750 x 200 x 620	22,0
N2-A.01	FXDA15A	Floor 2	Room 1	27 - 32	220V 1ph	0,4	Factory Std	750 x 200 x 620	22,0
N2-A.06.1	FXDA15A	Floor 2	Room 1	27 - 32	220V 1ph	0,4	Factory Std	750 x 200 x 620	22,0
N2-A.06	FXDA15A	Floor 2	Room 1	27 - 32	220V 1ph	0,4	Factory Std	750 x 200 x 620	22,0

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N2-A.07	FXDA15A	Floor 2	Room 1	27 - 32	220V 1ph	0,4	Factory Std	750 x 200 x 620	22,0
N2-A.08	FXDA15A	Floor 2	Room 1	27 - 32	220V 1ph	0,4	Factory Std	750 x 200 x 620	22,0
N2-A.09	FXDA15A	Floor 2	Room 1	27 - 32	220V 1ph	0,4	Factory Std	750 x 200 x 620	22,0
N2-A.10	FXDA15A	Floor 2	Room 1	27 - 32	220V 1ph	0,4	Factory Std	750 x 200 x 620	22,0
N3-B.01	FXDA15A	Floor 3	Room 1	27 - 32	220V 1ph	0,4	Factory Std	750 x 200 x 620	22,0

Remarks

Under capacity

The sum of the required indoor unit capacities is 11,4kW for heating. However, the selected outdoor unit has a heating capacity of 8,9kW (= -22,0%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 20,1kW for cooling and 22,8kW for heating. However, the outdoor unit selection uses reduced load values for cooling of 10,0kW (=50%) and for heating of 11,4kW (=50%). Be aware that unrealistic reductions 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

Indoor unit	Model	Minimum allowed room area
N3-B.01	FXDA15A (*)	9.32 m² (Room 1)
N2-A.05	FXDA15A (*)	9.32 m² (Room 1)
N2-A.06.1	FXDA15A (*)	9.32 m² (Room 1)
N2-A.04	FXDA15A (*)	9.32 m² (Room 1)
N2-A.06	FXDA15A (*)	9.32 m² (Room 1)
N2-A.03	FXDA15A (*)	9.32 m² (Room 1)
N2-A.07	FXDA15A (*)	9.32 m² (Room 1)
N2-A.02	FXDA15A (*)	9.32 m² (Room 1)
N2-A.01	FXDA15A (*)	9.32 m² (Room 1)
N2-A.08	FXDA15A (*)	9.32 m² (Room 1)
N2-A.09	FXDA15A (*)	9.32 m² (Room 1)
N2-A.10	FXDA15A (*)	9.32 m² (Room 1)

(*) If this ducted unit is serving another room than the one where it is installed, then the minimum allowed room area and alarm precaution only apply to the room that it serves.

Exception: If multiple ducted units are installed in the same room, then the minimum allowed room area and alarm precaution apply both to the room where they are installed and to the rooms that they serve.

Check compliant to IEC 60335-2-40:2018 (Ed. 6) & EN 378-1:2016.

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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/RH)	kW	kW	m
Out 1	RXYSA4AY1	100,0	35,0	11,1	10,9	-13,0/86%	6,9	6,4	33,5
Out 2	RXYSA6AY1	128,6	35,0	15,2	10,0	-13,0/86%	8,9	11,4	38,5

Name	Model	PS	MCA	MFA	RLA	FLA	WxHxD	Weight
			A	A	A	A	mm	kg
Out 1	RXYSA4AY1	400V 3Nph	13,6	16,0	7,7	1,3	1.100 x 869 x 460	102,0
Out 2	RXYSA6AY1	400V 3Nph	13,6	16,0	9,2	1,3	1.100 x 869 x 460	102,0

Sound Data

Name	Model	Sound Power		Sound Pressure	
		Cooling	Heating	Cooling	Heating
		dBA	dBA	dBA	dBA
Out 1	RXYSA4AY1	67	68	49	-
Out 2	RXYSA6AY1	69	70	51	-

Seasonal Efficiency

Name	Model	$\eta_{s,h}$ heating	$\eta_{s,c}$ cooling	SCOP	SEER	CSPF
		%	%			
Out 1	RXYSA4AY1	193,1	312,5	4,90	7,90	-
Out 2	RXYSA6AY1	176,8	289,9	4,50	7,30	-

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

Refrigerant information

Name	Model	Refrigerant type	GWP	Base charge kg	Extra charge kg	Total refrigerant charge kg	Total CO2 equivalent tonnes
Out 1	RXYSA4AY1	R32	675	3,40	1,69	5,09	3.44
Out 2	RXYSA6AY1	R32	675	3,40	2,97	6,37	4.30

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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.

Out 1 - RXYSA4AY1

Model	Quantity	Description
RXYSA4AY1	1	RXYSA-AY1 (VRV 5 S-series 3 phase (Small))
FXZA25A	4	FXZA-A - Fully flat cassette
KHRQ22M20TA	3	Refnet branch piping kit
BRC1H52W7	4	Remote controller (white)
BYFQ60C4W	4	Decoration Panel - White

Pipes for R410A/R32 outdoor systems	Liquid	Suction	Total
	m	m	m
6,4mm	5,0	0,0	5,0
9,5mm	30,0	5,0	35,0
15,9mm	0,0	30,0	30,0

Refrigerant information

Refrigerant type	GWP	Base charge kg	Extra charge kg	Total refrigerant charge kg	Total CO2 equivalent tonnes
R32	675	3,40	1,69*)	5,09	3.44

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 30,0 m (ø9,5 mm) × 0,053 + 5,0 m (ø6,4 mm) × 0,02 = 1,7kg

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.

Pipe capacities

Maximum Connection Index	Diameters
195.1	9,5mmx15,9mm
> 195.1	9,5mmx19,1mm
Main pipe size up	9,5mmx19,1mm

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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	9,5mm (liquid) x 19,1mm (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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Out 2 - RXYSA6AY1

Model	Quantity	Description
RXYSA6AY1	1	RXYSA-AY1 (VRV 5 S-series 3 phase (Small))
FXDA15A	12	FXDA-A - Slim concealed ceiling unit
KHRQ22M20TA	11	Refnet branch piping kit
BRC1H52W7	12	Remote controller (white)

Pipes for R410A/R32 outdoor systems	Liquid m	Suction m	Total m
6,4mm	32,0	0,0	32,0
9,5mm	44,0	32,0	76,0
15,9mm	0,0	44,0	44,0

Refrigerant information

Refrigerant type	GWP	Base charge kg	Extra charge kg	Total refrigerant charge kg	Total CO2 equivalent tonnes
R32	675	3,40	2,97*)	6,37	4.30

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 44,0 m (ø9,5 mm) × 0,053 + 32,0 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 TCO2 equivalent.

Pipe capacities

Maximum Connection Index	Diameters
195.1	9,5mmx15,9mm
> 195.1	9,5mmx19,1mm
Main pipe size up	9,5mmx19,1mm

Piping limitations

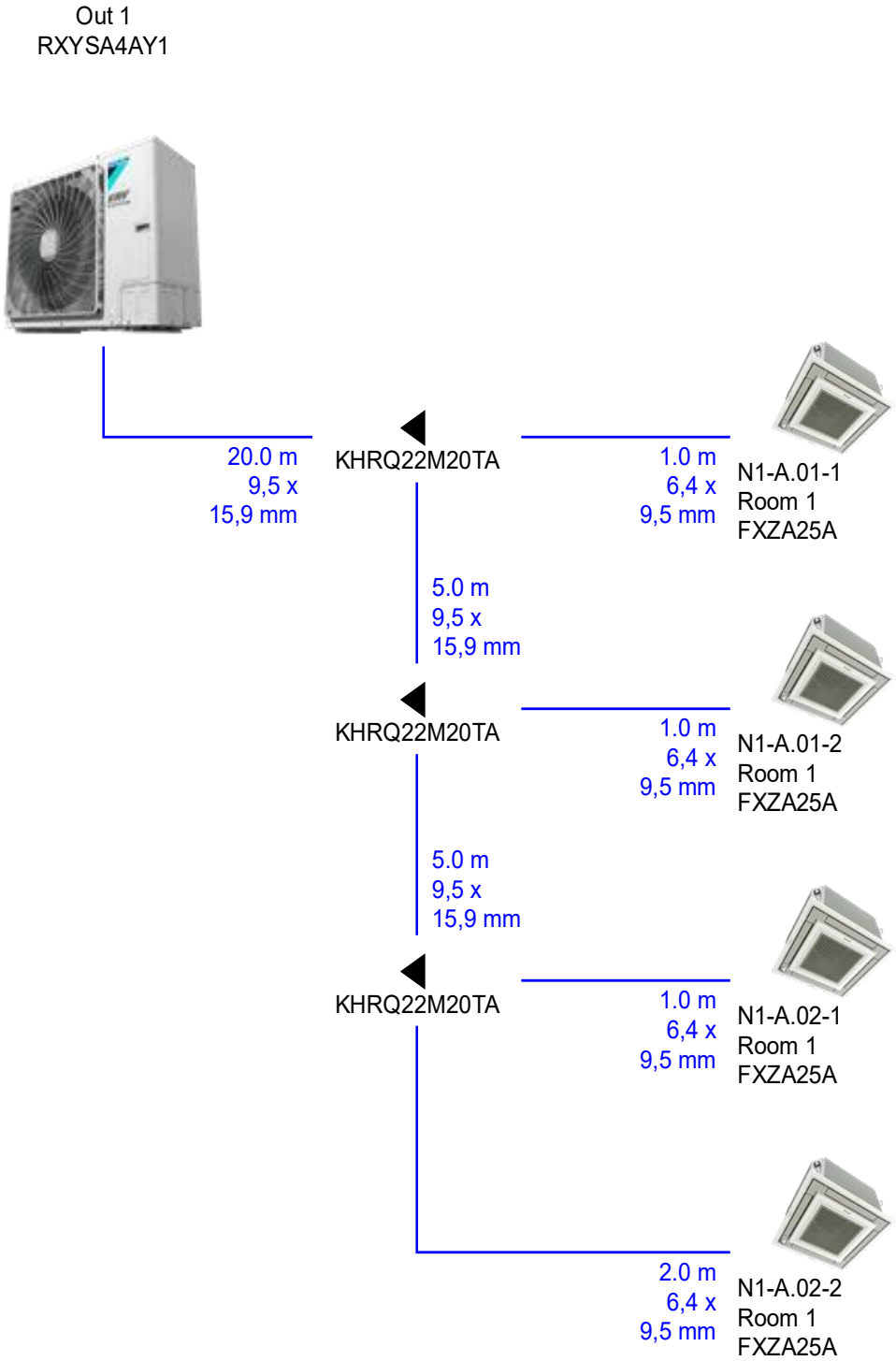
Description	Value
Maximum total length	300,0m
Maximum longest actual length	120,0m
Maximum longest equivalent length	150,0m
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	40,0m
Maximum length 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	-

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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	9,5mm (liquid) x 19,1mm (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	-

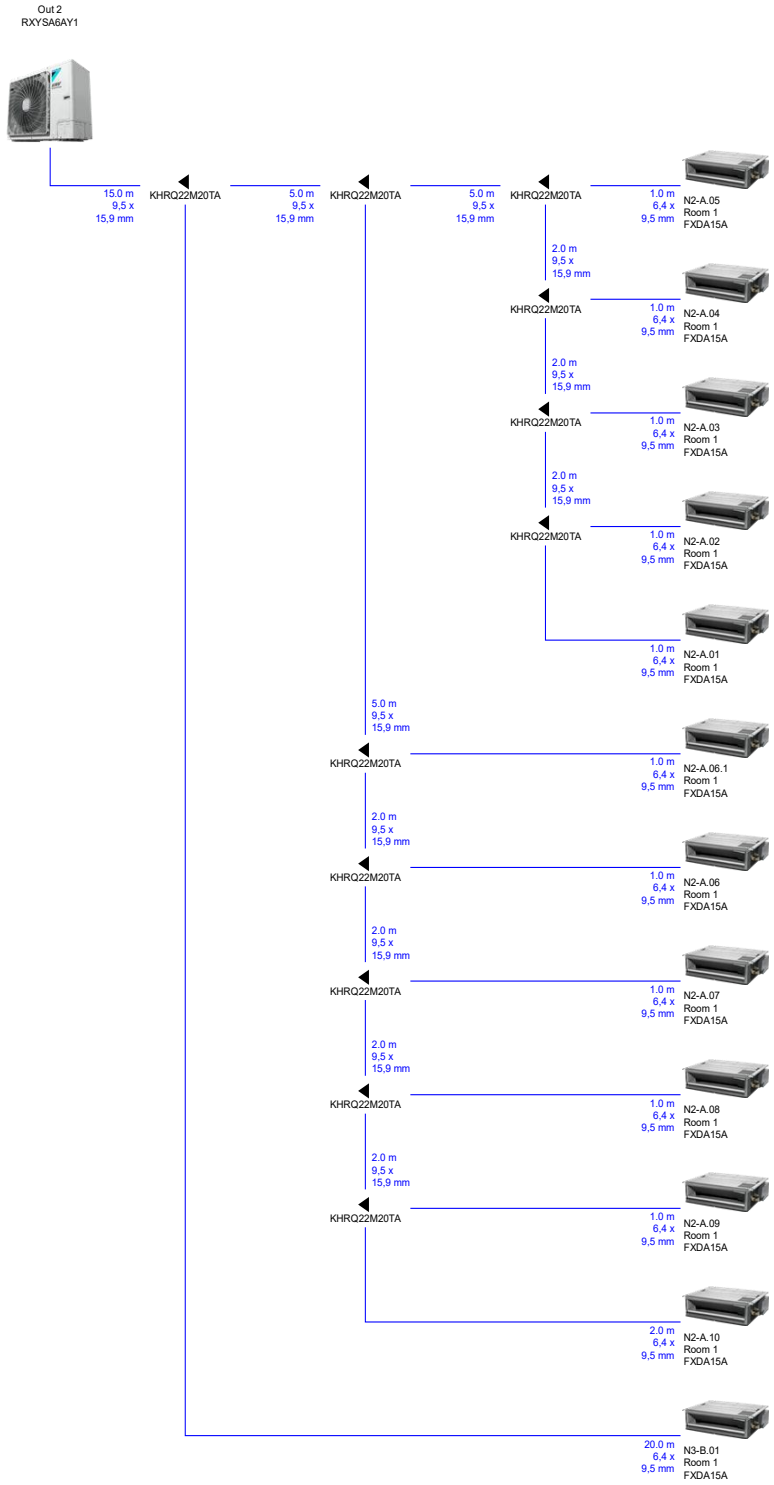
Piping diagrams

Piping Out 1



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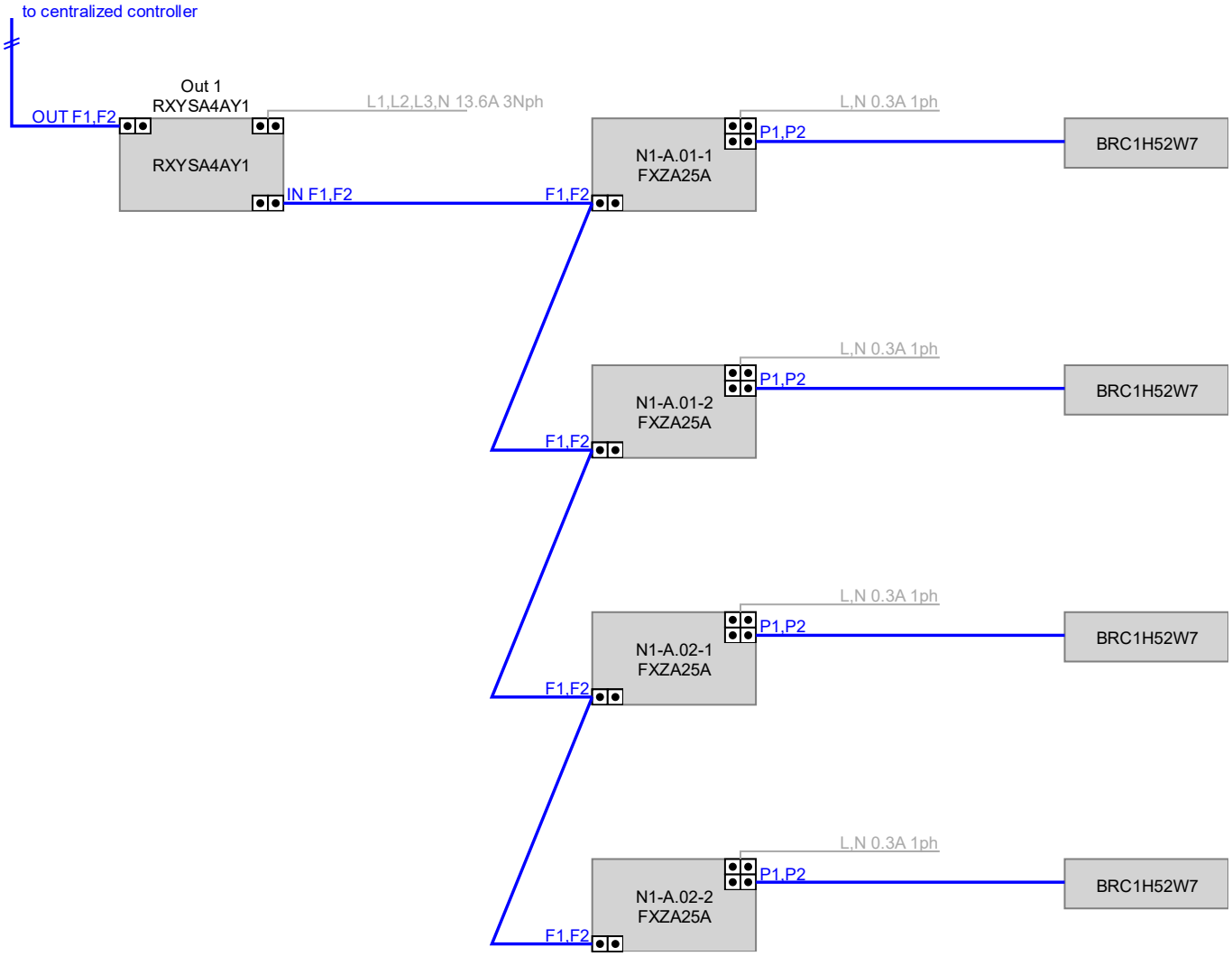
Piping Out 2



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Wiring diagrams

Wiring Out 1



Remarks

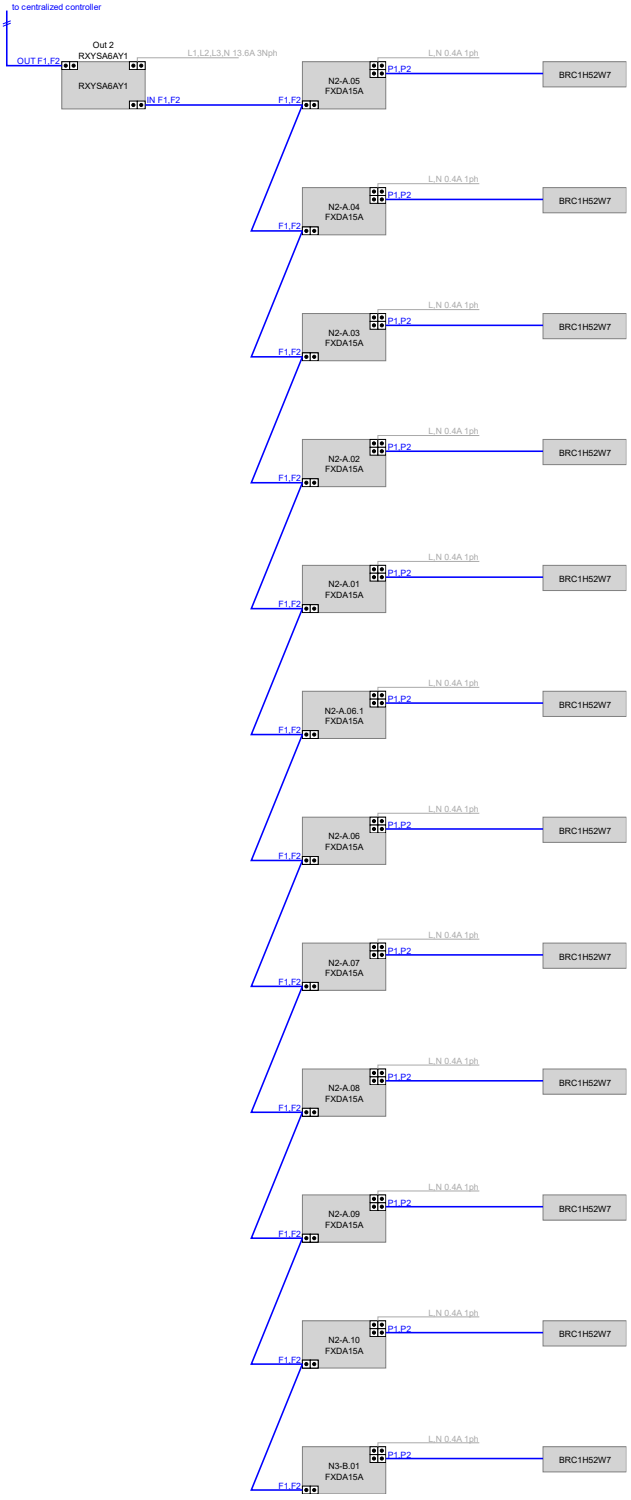
P1P2 = 0,75 - 1,25 mm2, max 500m length - always refer to local code for further information.

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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Wiring Out 2



Remarks

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

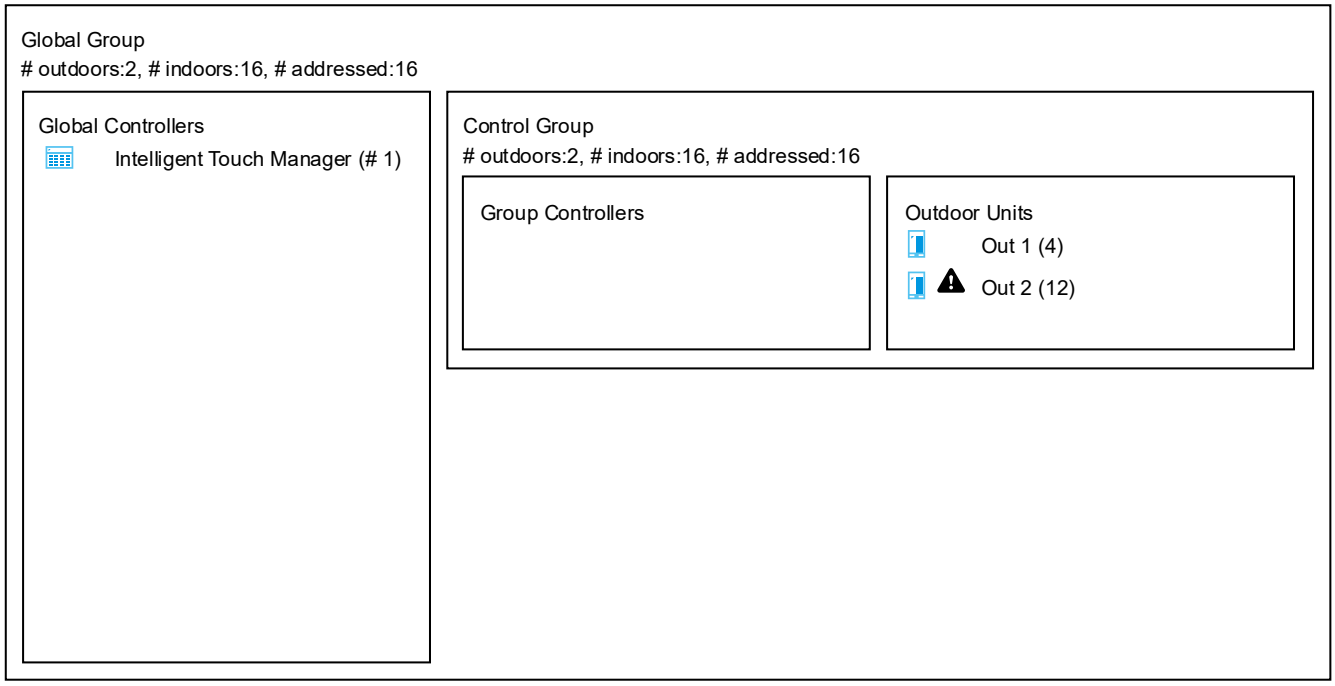
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Centralised controllers

Concept



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Controller wiring diagrams

Control Group



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.