



VRV Selection

Project Report

Report details

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Project details

Project name: Paxton house Project

Solution name: VRV 2 PIPE SYSTEM 04/11/2024

Client Name: Star uk engineering ltd

Customer reference:

Quotation reference:

Project number: 1492788/1875779

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.



Material list

Model	Quantity	Description
RXYSCQ4TV1	3	RXYSCQ-TV1 (VRV IV Mini Compact)
RXYSCQ6TV1	2	RXYSCQ-TV1 (VRV IV Mini Compact)
BPMKS967A2	4	BP unit
BPMKS967A3	2	BP unit
FTXJ25AW	1	FTXJ-AW - Daikin Emura Wall mounted unit white
FTXJ35AW	6	FTXJ-AW - Daikin Emura Wall mounted unit white
FTXJ42AW	6	FTXJ-AW - Daikin Emura Wall mounted unit white
FTXJ50AW	1	FTXJ-AW - Daikin Emura Wall mounted unit white
FXNQ32A	2	FXNQ-A - Concealed floor standing unit
KHRQ22M20T	3	Refnet branch piping kit
DCM601B51	1	Intelligent Touch Manager
BRC1H52W	2	Remote controller (white)



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
Max TC	Available total cooling capacity
Rq SC	Required sensible cooling capacity
Tevap	Evaporating temperature of indoor unit coil
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
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	Maximum Fuse Amps
WxHxD	WidthxHeightxD
Weight	Weight of the device

SYSTEM 1 - RXYSCQ4TV1

Capacity data at conditions and connection ratio (84) as entered

Name	FCU	Cooling						
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC	PIC
		°C (DBT/RH)	kW	kW	kW	°C	kW	kW
Ind 13	FTXJ42AW	23.0/50%	n/a	3.1	n/a	9.0	2.8	0.026
Ind 14	FTXJ42AW	23.0/50%	n/a	3.1	n/a	9.0	2.8	0.026
			0.0					

Name	FCU	Heating			
		Tmp H	Rq HC	Max HC	PIH
		°C	kW	kW	kW
Ind 13	FTXJ42AW	20.0	n/a	5.1	0.032
Ind 14	FTXJ42AW	20.0	n/a	5.1	0.032
			n/a		

Name	FCU	Room	Sound	PS	MCA	MFA	WxHxD	Weight
			dBA		A		inch	kg
Ind 13	FTXJ42AW	GF RECEPTION	29 - 45	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0
Ind 14	FTXJ42AW	GF RECEPTION	29 - 45	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0

Remarks

Evaporating temperature

All outdoor and indoor unit capacity values are for a VRV system operating with an evaporating temperature of 9.0°C.

Outdoor vs. indoor position

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

SYSTEM 2 - RXYSCQ4TV1

Capacity data at conditions and connection ratio (105) as entered

Name	FCU	Cooling						
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC	PIC
		°C (DBT/RH)	kW	kW	kW	°C	kW	kW
Ind 10	FTXJ35AW	23.0/50%	n/a	2.6	n/a	9.0	2.3	0.026
Ind 11	FTXJ35AW	23.0/50%	n/a	2.6	n/a	9.0	2.3	0.026
Ind 12	FTXJ35AW	23.0/50%	n/a	2.6	n/a	9.0	2.3	0.026
			0.0					

Name	FCU	Heating			
		Tmp H	Rq HC	Max HC	PIH
		°C	kW	kW	kW
Ind 10	FTXJ35AW	20.0	n/a	4.3	0.032
Ind 11	FTXJ35AW	20.0	n/a	4.3	0.032
Ind 12	FTXJ35AW	20.0	n/a	4.3	0.032
			n/a		

Name	FCU	Room	Sound dBA	PS	MCA A	MFA	WxHxD inch	Weight kg
Ind 10	FTXJ35AW	HOT DESK ZONE 1	25 - 41	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0
Ind 11	FTXJ35AW	HOT DESK ZONE 2	25 - 41	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0
Ind 12	FTXJ35AW	GF MEETING ROOM	25 - 41	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0

Remarks

Under capacity

The sum of the required indoor unit capacities is 7.7kW for cooling. However, the selected outdoor unit has a cooling capacity of 7.0kW (= -8.9%). 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 12.8kW for heating. However, the outdoor unit selection uses reduced load values for heating of 10.2kW (=80%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Evaporating temperature

All outdoor and indoor unit capacity values are for a VRV system operating with an evaporating temperature of 9.0°C.

Outdoor vs. indoor position

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

SYSTEM 3 - RXYSCQ6TV1

Capacity data at conditions and connection ratio (121) as entered

Name	FCU	Cooling						
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC	PIC
		°C (DBT/RH)	kW	kW	kW	°C	kW	kW
Ind 6	FTXJ42AW	23.0/50%	n/a	3.1	n/a	9.0	2.8	0.026
Ind 7	FTXJ50AW	23.0/50%	n/a	3.7	n/a	9.0	3.3	0.032
Ind 8	FTXJ42AW	23.0/50%	n/a	3.1	n/a	9.0	2.8	0.026
Ind 9	FTXJ35AW	23.0/50%	n/a	2.6	n/a	9.0	2.3	0.026
			0.0					

Name	FCU	Heating			
		Tmp H	Rq HC	Max HC	PIH
		°C	kW	kW	kW
Ind 6	FTXJ42AW	20.0	n/a	5.1	0.032
Ind 7	FTXJ50AW	20.0	n/a	6.1	0.038
Ind 8	FTXJ42AW	20.0	n/a	5.1	0.032
Ind 9	FTXJ35AW	20.0	n/a	4.3	0.032
			n/a		



Name	FCU	Room	Sound	PS	MCA	MFA	WxHxD	Weight
			dBA		A		inch	
Ind 6	FTXJ42AW	FF OFFICE 790-F-07	29 - 45	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0
Ind 7	FTXJ50AW	FF OFFICE 790-F-03	31 - 46	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0
Ind 8	FTXJ42AW	FF MEETING 790-F-08	29 - 45	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0
Ind 9	FTXJ35AW	FF MEETING ROOM 790-F-02	25 - 41	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0

Remarks

Under capacity

The sum of the required indoor unit capacities is 12.4kW for cooling and 20.6kW for heating. However, the selected outdoor unit has a cooling capacity of 10.3kW (= -17.3%) and a heating capacity of 13.1kW (= -36.6%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Evaporating temperature

All outdoor and indoor unit capacity values are for a VRV system operating with an evaporating temperature of 9.0°C.

Outdoor vs. indoor position

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

SYSTEM 4 - RXYSCQ6TV1

Capacity data at conditions and connection ratio (128) as entered

Name	FCU	Cooling						
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC	PIC
		°C (DBT/RH)	kW	kW	kW	°C	kW	kW
Ind 1	FTXJ35AW	23.0/50%	n/a	2.6	n/a	9.0	2.3	0.026
Ind 2	FTXJ42AW	23.0/50%	n/a	3.1	n/a	9.0	2.8	0.026
Ind 3	FTXJ35AW	23.0/50%	n/a	2.6	n/a	9.0	2.3	0.026
Ind 4	FTXJ42AW	23.0/50%	n/a	3.1	n/a	9.0	2.8	0.026
Ind 5	FTXJ25AW	23.0/50%	n/a	1.8	n/a	9.0	1.7	0.018
			0.0					

Name	FCU	Heating			
		Tmp H	Rq HC	Max HC	PIH
		°C	kW	kW	kW
Ind 1	FTXJ35AW	20.0	n/a	4.3	0.032
Ind 2	FTXJ42AW	20.0	n/a	5.1	0.032
Ind 3	FTXJ35AW	20.0	n/a	4.3	0.032
Ind 4	FTXJ42AW	20.0	n/a	5.1	0.032
Ind 5	FTXJ25AW	20.0	n/a	3.1	0.024
			n/a		

Name	FCU	Room	Sound	PS	MCA	MFA	WxHxD	Weight
			dBA		A		inch	
Ind 1	FTXJ35AW	SF OFFICE 790-S-07	25 - 41	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0
Ind 2	FTXJ42AW	SF OFFICE 790-S-03	29 - 45	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0
Ind 3	FTXJ35AW	SF OFFICE 790-S-02	25 - 41	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0
Ind 4	FTXJ42AW	BREAKOUT SPACE 790-S-08	29 - 45	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0
Ind 5	FTXJ25AW	SF MEETING ROOM 790-S-04	25 - 40	230V 1ph		Factory Std	35.4 x 12.0 x 8.3	12.0

Remarks

Under capacity

The sum of the required indoor unit capacities is 13.1kW for cooling and 21.8kW for heating. However, the selected outdoor unit has a cooling capacity of 10.8kW (= -17.5%) and a heating capacity of 13.1kW (= -39.8%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Evaporating temperature

All outdoor and indoor unit capacity values are for a VRV system operating with an evaporating temperature of 9.0°C.

Outdoor vs. indoor position

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

SYSTEM 5 - RXYSCQ4TV1

Capacity data at conditions and connection ratio (63) as entered

Name	FCU	Cooling						
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC	PIC
		°C (DBT/RH)	kW	kW	kW	°C	kW	kW
Ind 1	FXNQ32A	23.0/50%	n/a	2.1	n/a	9.0	1.8	0.071
Ind 2	FXNQ32A	23.0/50%	n/a	2.1	n/a	9.0	1.8	0.071
			0.0					

Name	FCU	Heating			
		Tmp H	Rq HC	Max HC	PIH
		°C	kW	kW	kW
Ind 1	FXNQ32A	20.0	n/a	4.0	0.068
Ind 2	FXNQ32A	20.0	n/a	4.0	0.068
			n/a		

Name	FCU	Room	Sound	PS	MCA	MFA	WxHxD	Weight
			dBA		A		inch	kg
Ind 1	FXNQ32A	TF MEETING ROOM 790-T-02	27 - 30	220V 1ph	0.4	Factory Std	31.1 x 28.3 x 7.9	23.5
Ind 2	FXNQ32A	TF MEETING ROOM 790-T-04	27 - 30	220V 1ph	0.4	Factory Std	31.1 x 28.3 x 7.9	23.5

Remarks

Evaporating temperature

All outdoor and indoor unit capacity values are for a VRV system operating with an evaporating temperature of 9.0°C.

Outdoor vs. indoor position

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

Outdoor unit details

Table of abbreviations

Abbreviation	Description
Name	Logical name of the device
Model	Device model name
▼	Optimized selection: Smaller outdoor model selected than standard proposed model
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	WidthxHeightxD
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

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	
SYSTEM 1	RXYSCQ4TV1 ▼	84.0	32.0	6.7	6.2	-4.0/80%	10.3	10.2	7.5
SYSTEM 2	RXYSCQ4TV1 ▼	105.0	32.0	7.0	7.7	-4.0/80%	10.3	10.2	7.5
SYSTEM 3	RXYSCQ6TV1	120.7	32.0	10.3	12.4	-4.0/80%	13.1	20.6	7.5
SYSTEM 4	RXYSCQ6TV1	127.9	32.0	10.8	13.1	-4.0/80%	13.1	21.8	7.5
SYSTEM 5	RXYSCQ4TV1 ▼	62.5	32.0	6.7	4.2	-4.0/80%	10.3	8.0	7.5

Name	Model	PS	MCA	MFA	RLA	FLA	WxHxD	Weight
			A	A	A	A	inch	kg
SYSTEM 1	RXYSCQ4TV1	230V 1ph	29.1	32.0	19.0	0.6	37.0 x 32.4 x 18.1	89.0
BP 6	BPMKS967A2	230V 1ph	1.2	15.0	0.1		25.6 x 7.1 x 13.8	7.5
SYSTEM 2	RXYSCQ4TV1	230V 1ph	29.1	32.0	19.0	0.6	37.0 x 32.4 x 18.1	89.0
BP 5	BPMKS967A3	230V 1ph	1.8	15.0	0.1		25.6 x 7.1 x 13.8	8.0
SYSTEM 3	RXYSCQ6TV1	230V 1ph	29.1	32.0	23.2	0.6	37.0 x 32.4 x 18.1	89.0
BP 3	BPMKS967A2	230V 1ph	1.2	15.0	0.1		25.6 x 7.1 x 13.8	7.5
BP 4	BPMKS967A2	230V 1ph	1.2	15.0	0.1		25.6 x 7.1 x 13.8	7.5
SYSTEM 4	RXYSCQ6TV1	230V 1ph	29.1	32.0	23.2	0.6	37.0 x 32.4 x 18.1	89.0
BP 1	BPMKS967A3	230V 1ph	1.8	15.0	0.1		25.6 x 7.1 x 13.8	8.0
BP 2	BPMKS967A2	230V 1ph	1.2	15.0	0.1		25.6 x 7.1 x 13.8	7.5
SYSTEM 5	RXYSCQ4TV1	230V 1ph	29.1	32.0	19.0	0.6	37.0 x 32.4 x 18.1	89.0

Sound Data

Name	Model	Sound Power		Sound Pressure	
		Cooling	Heating	Cooling	Heating
		dBA	dBA	dBA	dBA
SYSTEM 1	RXYSCQ4TV1	68	-	51	-
SYSTEM 2	RXYSCQ4TV1	68	-	51	-
SYSTEM 3	RXYSCQ6TV1	70	-	53	-

Name	Model	Sound Power		Sound Pressure	
		Cooling	Heating	Cooling	Heating
		dBA	dBA	dBA	dBA
SYSTEM 4	RXYSCQ6TV1	70	-	53	-
SYSTEM 5	RXYSCQ4TV1	68	-	51	-

Seasonal Efficiency

Name	Model	$\eta_{s,h}$ heating	$\eta_{s,c}$ cooling	SCOP	SEER	CSPF
		%	%			
SYSTEM 1	RXYSCQ4TV1	182.3	322.8	4.60	8.10	-
SYSTEM 2	RXYSCQ4TV1	182.3	322.8	4.60	8.10	-
SYSTEM 3	RXYSCQ6TV1	186.0	281.3	4.70	7.10	-
SYSTEM 4	RXYSCQ6TV1	186.0	281.3	4.70	7.10	-
SYSTEM 5	RXYSCQ4TV1	182.3	322.8	4.60	8.10	-

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
SYSTEM 1	RXYSCQ4TV1	R410A	2087.5	3.70	unknown	unknown	7.72
SYSTEM 2	RXYSCQ4TV1	R410A	2087.5	3.70	unknown	unknown	7.72
SYSTEM 3	RXYSCQ6TV1	R410A	2087.5	3.70	unknown	unknown	7.72
SYSTEM 4	RXYSCQ6TV1	R410A	2087.5	3.70	unknown	unknown	7.72
SYSTEM 5	RXYSCQ4TV1	R410A	2087.5	3.70	unknown	unknown	7.72

The system(s) contain fluorinated greenhouse gases.

TCO2 equivalent is calculated only considering the base refrigerant charge. Depending on the field pipe length extra refrigerant needs to be added which will increase the TCO2 equivalent.

SYSTEM 1 - RXYSCQ4TV1

Model	Quantity	Description
RXYSCQ4TV1	1	RXYSCQ-TV1 (VRV IV Mini Compact)
BPMKS967A2	1	BP unit
FTXJ42AW	2	FTXJ-AW - Daikin Emura Wall mounted unit white



Refrigerant information

Refrigerant type	GWP	Base charge kg	Extra charge kg	Total refrigerant charge kg	Total CO2 equivalent tonnes
R410A	2087.5	3.70	unknown	unknown	7.72

The system(s) contain fluorinated greenhouse gases.

TCO2 equivalent is calculated only considering the base refrigerant charge. Depending on the field pipe length extra refrigerant needs to be added which will increase the TCO2 equivalent.

Pipe capacities

Maximum Connection Index	Diameters
149.9	3/8"x5/8"
199.9	3/8"x3/4"
289.9	3/8"x7/8"
419.9	1/2"x1 1/8"
639.9	5/8"x1 1/8"
919.9	3/4"x1 3/8"
> 919.9	3/4"x1 5/8"
Main pipe size up	3/8"x3/4"

Piping limitations

Description	Value
Maximum total length	140.0m
Maximum longest actual length	35.0m
Maximum longest equivalent length	45.0m
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	30.0m
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	30.0m
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	30.0m
Maximum height difference in technical cooling, outdoor unit above indoor units	30.0m
Maximum height difference between indoor units	15.0m
Connection ratio range	50.0% - 130.0%
Refrigerant pipe diameters	3/8" (liquid) x 3/4" (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	-

SYSTEM 2 - RXYSCQ4TV1

Model	Quantity	Description
RXYSCQ4TV1	1	RXYSCQ-TV1 (VRV IV Mini Compact)
BPMKS967A3	1	BP unit
FTXJ35AW	3	FTXJ-AW - Daikin Emura Wall mounted unit white

Refrigerant information

Refrigerant type	GWP	Base charge kg	Extra charge kg	Total refrigerant charge kg	Total CO2 equivalent tonnes
R410A	2087.5	3.70	unknown	unknown	7.72

The system(s) contain fluorinated greenhouse gases.

TCO2 equivalent is calculated only considering the base refrigerant charge. Depending on the field pipe length extra refrigerant needs to be added which will increase the TCO2 equivalent.



Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
149.9	3/8"x5/8"
199.9	3/8"x3/4"
289.9	3/8"x7/8"
419.9	1/2"x1 1/8"
639.9	5/8"x1 1/8"
919.9	3/4"x1 3/8"
> 919.9	3/4"x1 5/8"
Main pipe size up	3/8"x3/4"

Piping limitations

Description	Value
Maximum total length	140.0m
Maximum longest actual length	35.0m
Maximum longest equivalent length	45.0m
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	30.0m
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	30.0m
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	30.0m
Maximum height difference in technical cooling, outdoor unit above indoor units	30.0m
Maximum height difference between indoor units	15.0m
Connection ratio range	50.0% - 130.0%
Refrigerant pipe diameters	3/8" (liquid) x 3/4" (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	-

SYSTEM 3 - RXYSCQ6TV1

Model	Quantity	Description
RXYSCQ6TV1	1	RXYSCQ-TV1 (VRV IV Mini Compact)
BPMKS967A2	2	BP unit
FTXJ35AW	1	FTXJ-AW - Daikin Emura Wall mounted unit white
FTXJ42AW	2	FTXJ-AW - Daikin Emura Wall mounted unit white
FTXJ50AW	1	FTXJ-AW - Daikin Emura Wall mounted unit white
KHRQ22M20T	1	Refnet branch piping kit

Refrigerant information

Refrigerant type	GWP	Base charge kg	Extra charge kg	Total refrigerant charge kg	Total CO2 equivalent tonnes
R410A	2087.5	3.70	unknown	unknown	7.72

The system(s) contain fluorinated greenhouse gases.

TCO2 equivalent is calculated only considering the base refrigerant charge. Depending on the field pipe length extra refrigerant needs to be added which will increase the TCO2 equivalent.



Pipe capacities

Maximum Connection Index	Diameters
149.9	3/8"x5/8"
199.9	3/8"x3/4"
289.9	3/8"x7/8"
419.9	1/2"x1 1/8"
639.9	5/8"x1 1/8"
919.9	3/4"x1 3/8"
> 919.9	3/4"x1 5/8"
Main pipe size up	3/8"x3/4"

Piping limitations

Description	Value
Maximum total length	140.0m
Maximum longest actual length	35.0m
Maximum longest equivalent length	45.0m
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	30.0m
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	30.0m
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	30.0m
Maximum height difference in technical cooling, outdoor unit above indoor units	30.0m
Maximum height difference between indoor units	15.0m
Connection ratio range	50.0% - 130.0%
Refrigerant pipe diameters	3/8" (liquid) x 3/4" (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	-

SYSTEM 4 - RXYSCQ6TV1

Model	Quantity	Description
RXYSCQ6TV1	1	RXYSCQ-TV1 (VRV IV Mini Compact)
BPMKS967A2	1	BP unit
BPMKS967A3	1	BP unit
FTXJ25AW	1	FTXJ-AW - Daikin Emura Wall mounted unit white
FTXJ35AW	2	FTXJ-AW - Daikin Emura Wall mounted unit white
FTXJ42AW	2	FTXJ-AW - Daikin Emura Wall mounted unit white
KHRQ22M20T	1	Refnet branch piping kit

Refrigerant information

Refrigerant type	GWP	Base charge kg	Extra charge kg	Total refrigerant charge kg	Total CO2 equivalent tonnes
R410A	2087.5	3.70	unknown	unknown	7.72

The system(s) contain fluorinated greenhouse gases.

TCO2 equivalent is calculated only considering the base refrigerant charge. Depending on the field pipe length extra refrigerant



needs to be added which will increase the TCO2 equivalent.

Pipe capacities

Maximum Connection Index	Diameters
149.9	3/8"x5/8"
199.9	3/8"x3/4"
289.9	3/8"x7/8"
419.9	1/2"x1 1/8"
639.9	5/8"x1 1/8"
919.9	3/4"x1 3/8"
> 919.9	3/4"x1 5/8"
Main pipe size up	3/8"x3/4"

Piping limitations

Description	Value
Maximum total length	140.0m
Maximum longest actual length	35.0m
Maximum longest equivalent length	45.0m
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	30.0m
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	30.0m
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	30.0m
Maximum height difference in technical cooling, outdoor unit above indoor units	30.0m
Maximum height difference between indoor units	15.0m
Connection ratio range	50.0% - 130.0%
Refrigerant pipe diameters	3/8" (liquid) x 3/4" (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	-

SYSTEM 5 - RXYSCQ4TV1

Model	Quantity	Description
RXYSCQ4TV1	1	RXYSCQ-TV1 (VRV IV Mini Compact)
FXNQ32A	2	FXNQ-A - Concealed floor standing unit
KHRQ22M20T	1	Refnet branch piping kit
BRC1H52W	2	Remote controller (white)

Refrigerant information

Refrigerant type	GWP	Base charge kg	Extra charge kg	Total refrigerant charge kg	Total CO2 equivalent tonnes
R410A	2087.5	3.70	unknown	unknown	7.72

The system(s) contain fluorinated greenhouse gases.

TCO2 equivalent is calculated only considering the base refrigerant charge. Depending on the field pipe length extra refrigerant needs to be added which will increase the TCO2 equivalent.



Pipe capacities

Maximum Connection Index	Diameters
149.9	3/8"x5/8"
199.9	3/8"x3/4"
289.9	3/8"x7/8"
419.9	1/2"x1 1/8"
639.9	5/8"x1 1/8"
919.9	3/4"x1 3/8"
> 919.9	3/4"x1 5/8"
Main pipe size up	3/8"x3/4"

Piping limitations

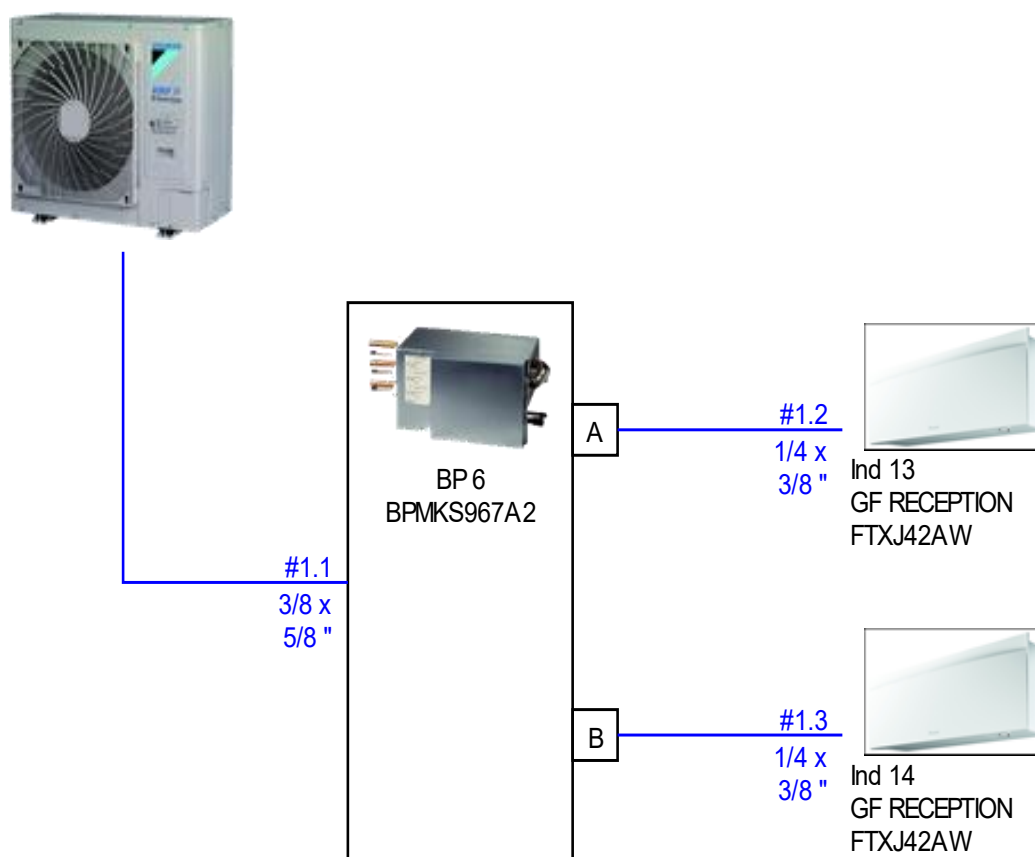
Description	Value
Maximum total length	300.0m
Maximum longest actual length	70.0m
Maximum longest equivalent length	90.0m
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	40.0m
Maximum length 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	30.0m
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	30.0m
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	30.0m
Maximum height difference in technical cooling, outdoor unit above indoor units	30.0m
Maximum height difference between indoor units	15.0m
Connection ratio range	50.0% - 130.0%
Refrigerant pipe diameters	3/8" (liquid) x 3/4" (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 SYSTEM 1

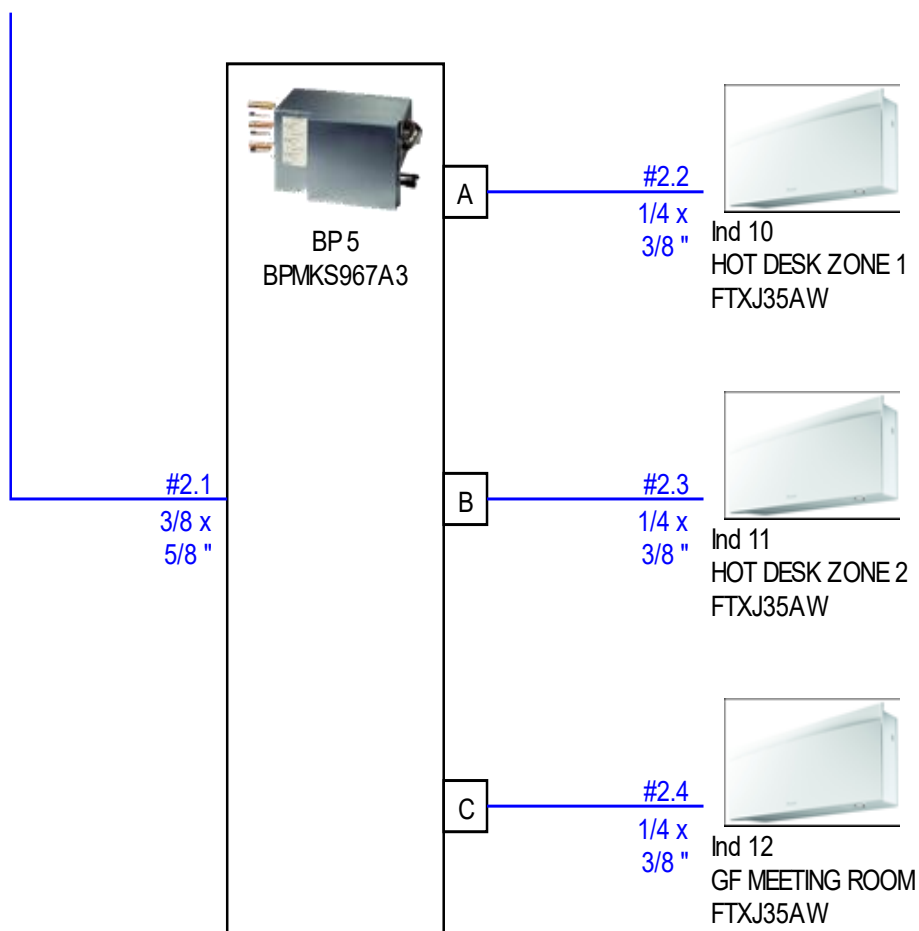
SYSTEM 1
RXYSQC4TV1



Piping

Warning: The pipe diameter values are purely indicative. Depending on the required pipe lengths, a different pipe diameter might be required.

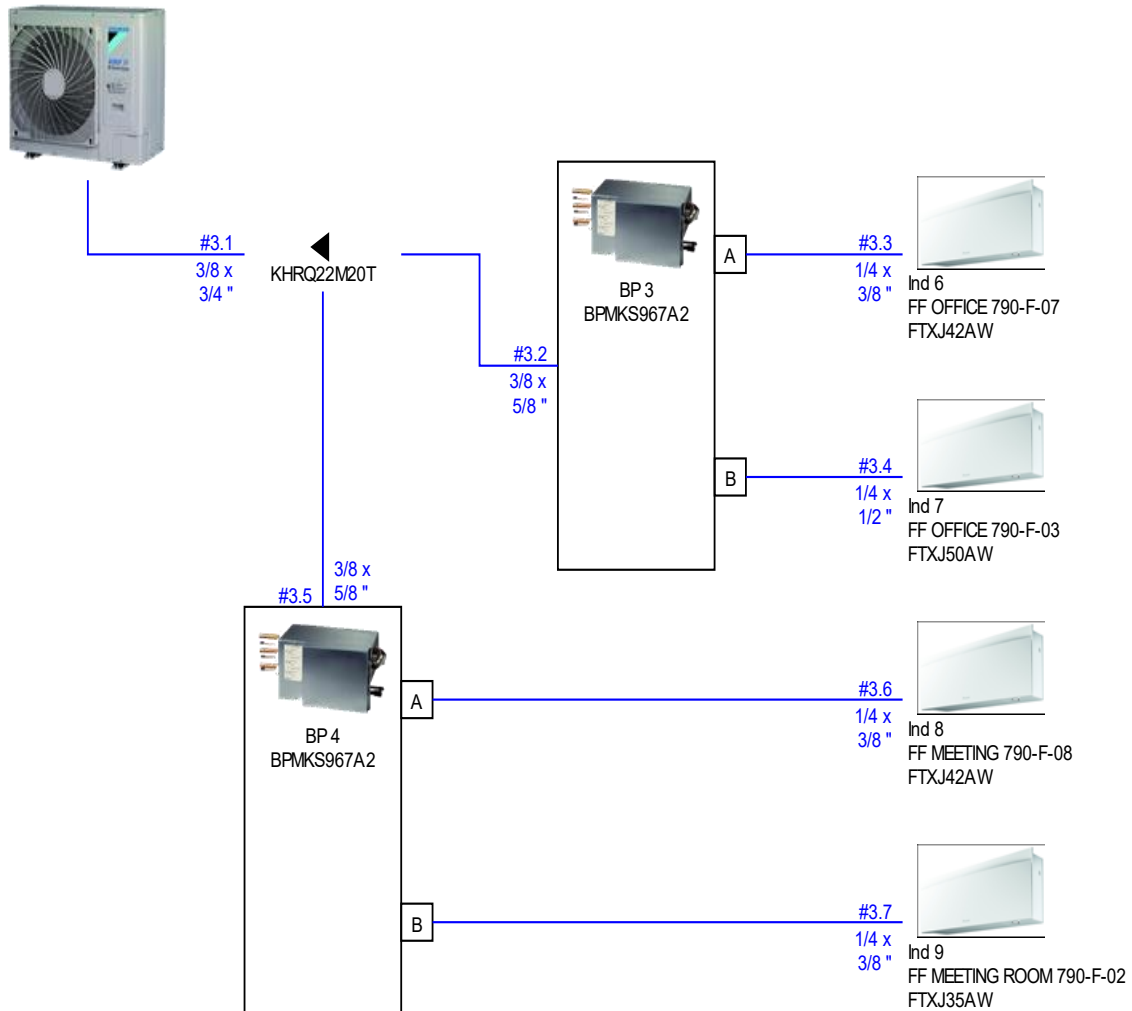
SYSTEM2 RXYSQ4TV1



Piping

Warning: The pipe diameter values are purely indicative. Depending on the required pipe lengths, a different pipe diameter might be required.

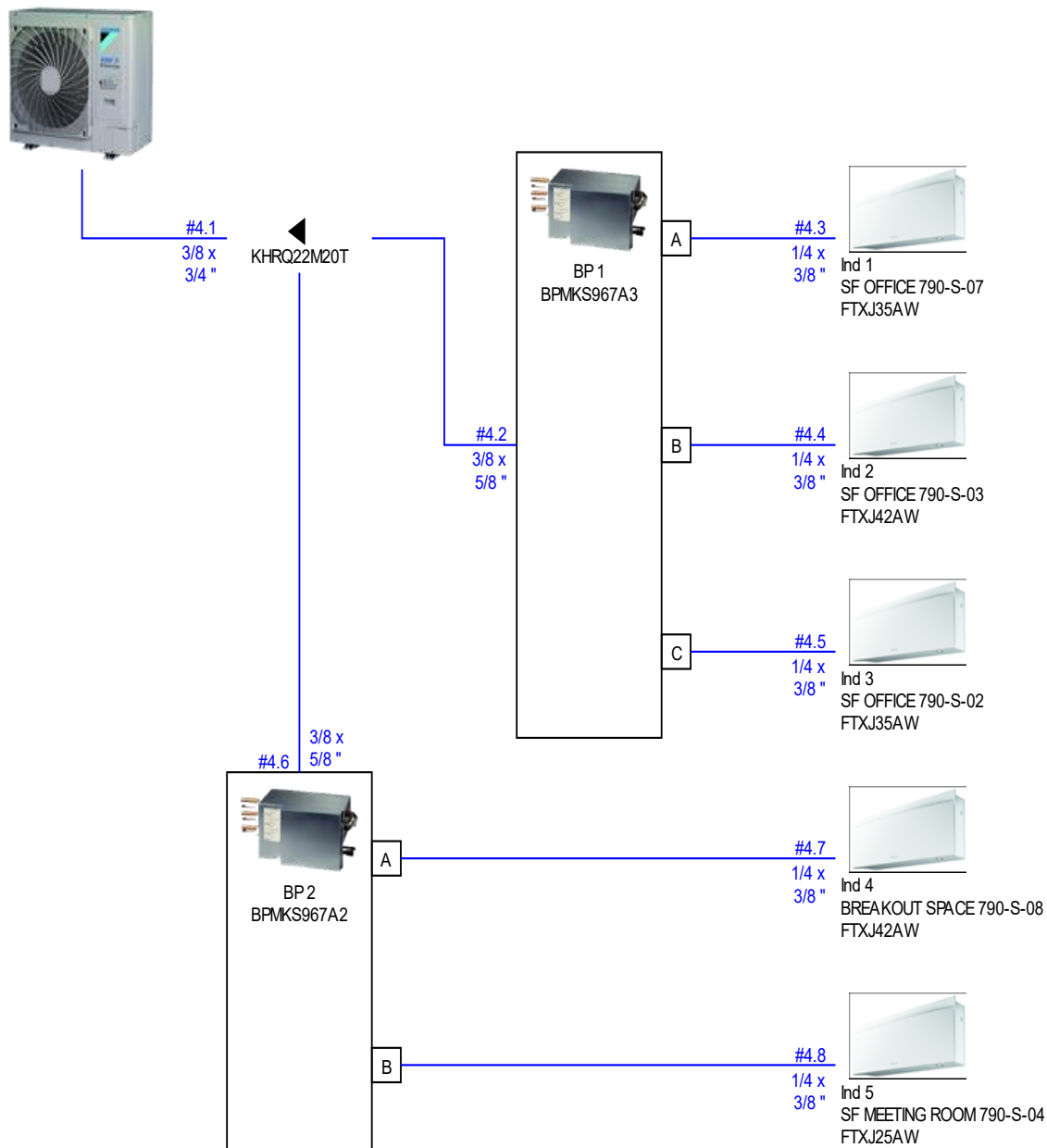
SYSTEM3
RXYSQ6TV1



Piping

Warning: The pipe diameter values are purely indicative. Depending on the required pipe lengths, a different pipe diameter might be required.

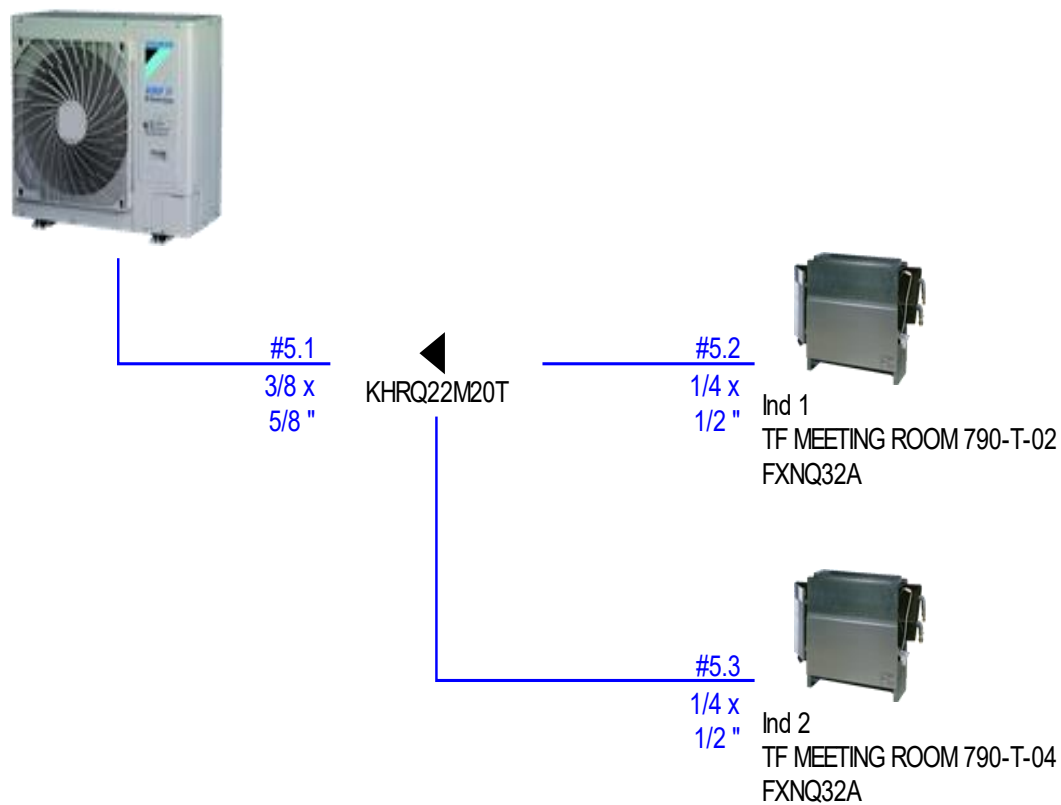
SYSTEM 4
RXYSCQ6TV1



Piping

Warning: The pipe diameter values are purely indicative. Depending on the required pipe lengths, a different pipe diameter might be required.

SYSTEM 5
RXYSCQ4TV1

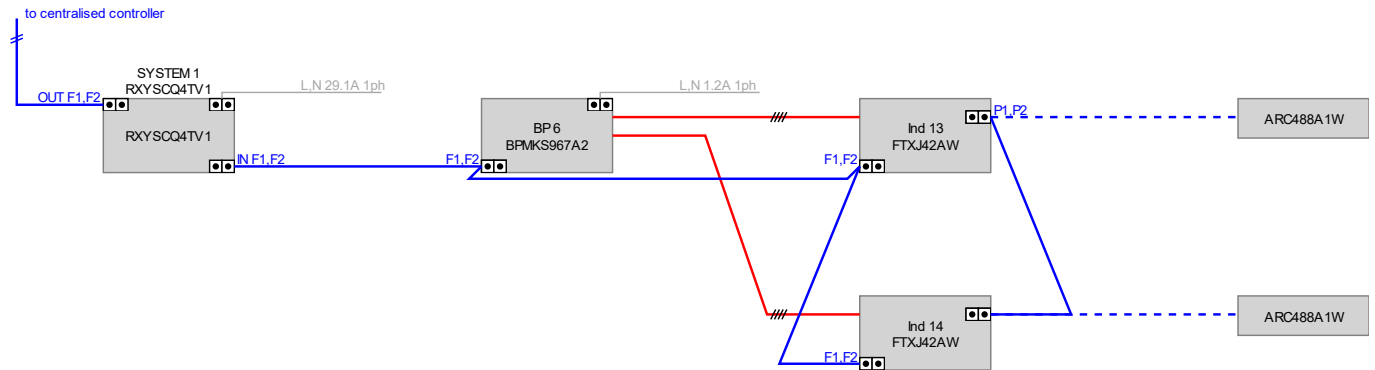


Piping

Warning: The pipe diameter values are purely indicative. Depending on the required pipe lengths, a different pipe diameter might be required.

Wiring diagrams

Wiring SYSTEM 1



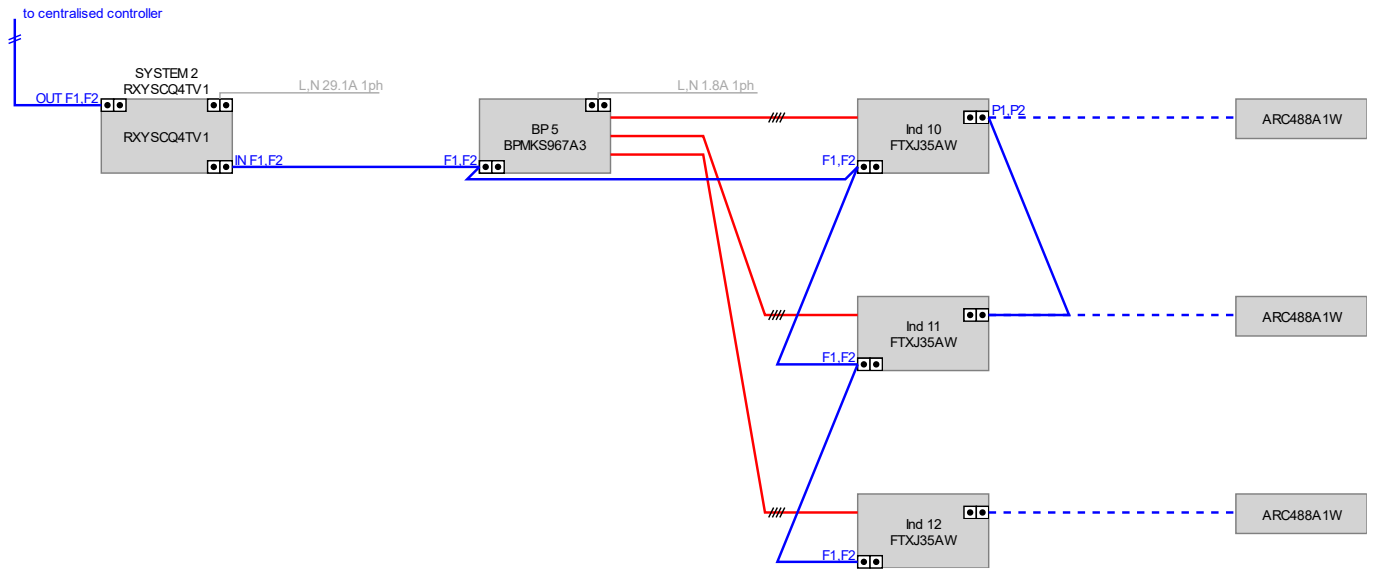
Remarks

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!



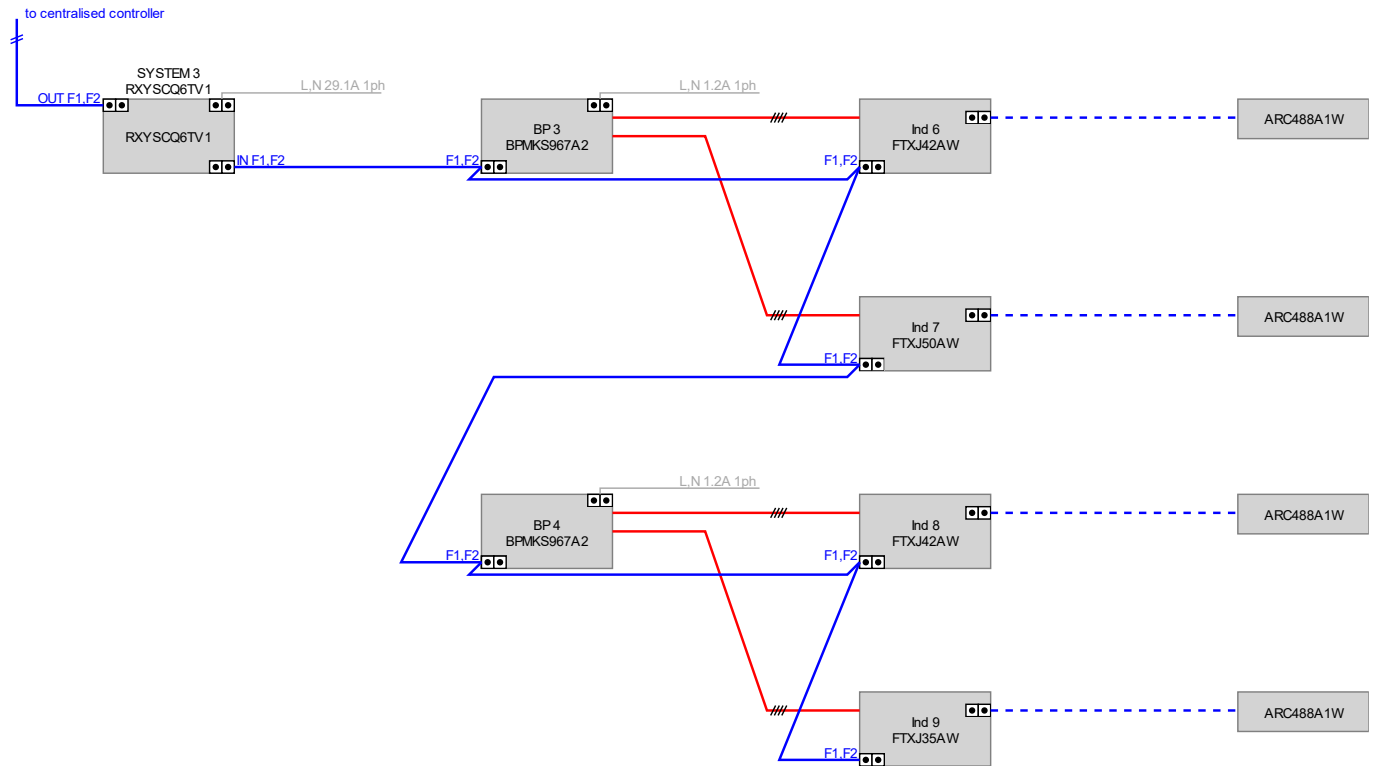
Remarks

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!



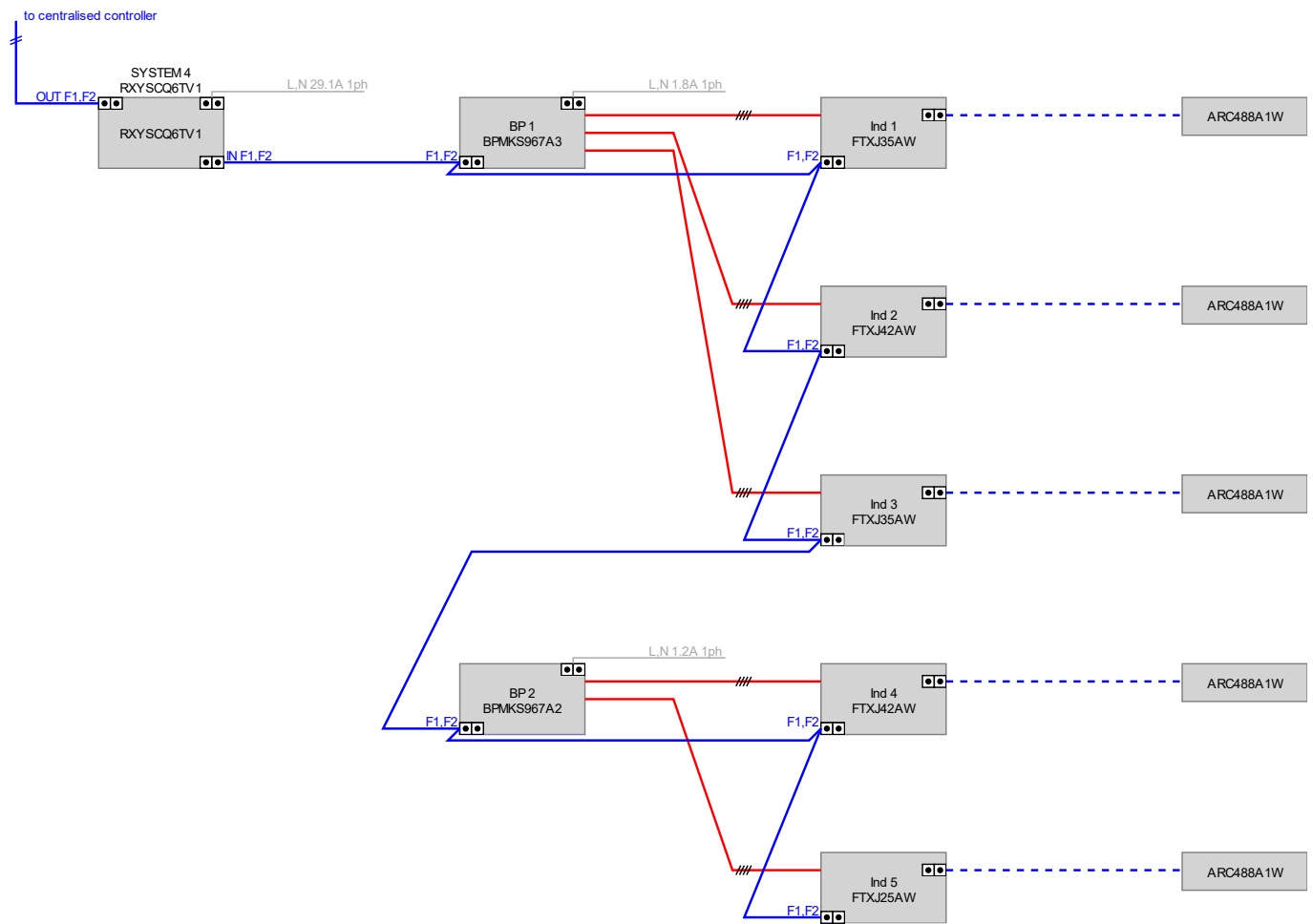
Remarks

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!



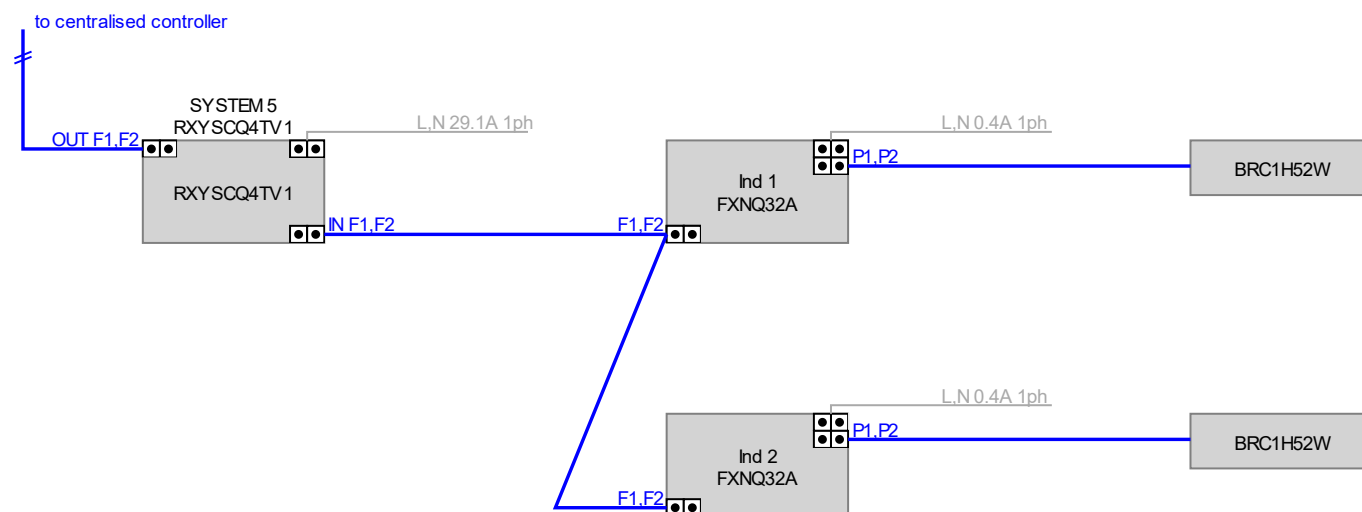
Remarks

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!



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.

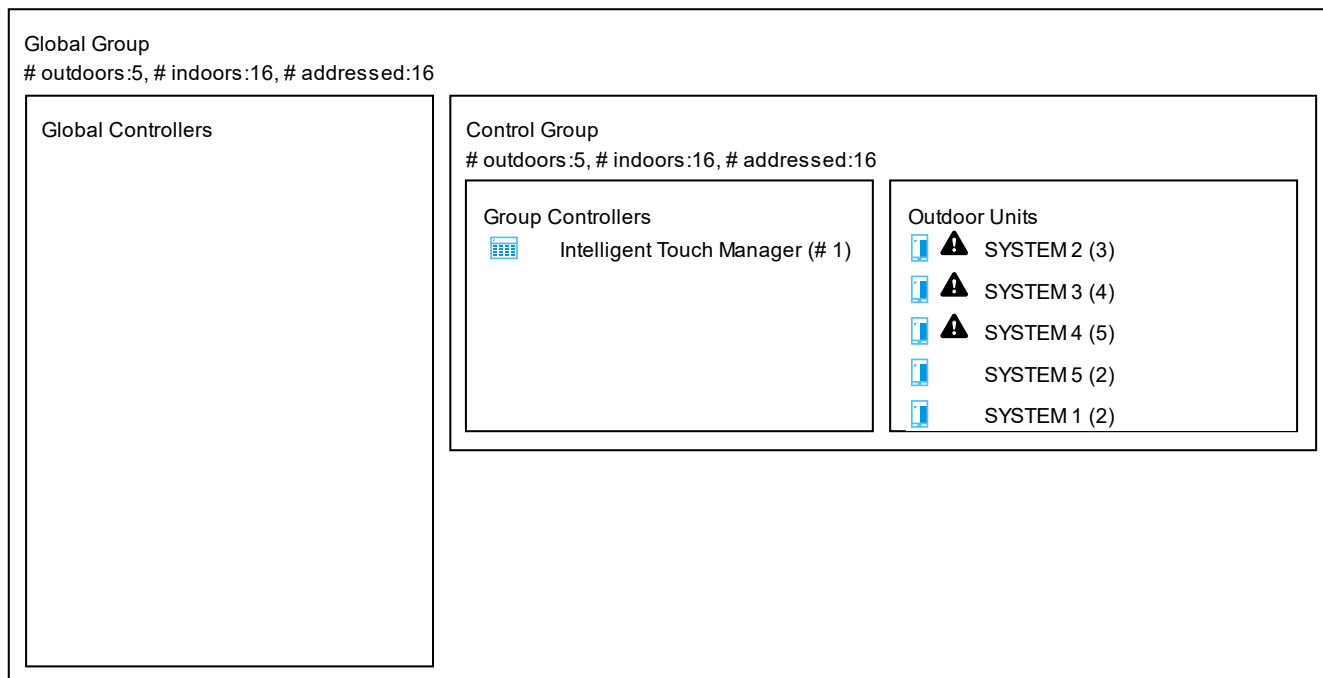
F1F2 OUT-OUT OUT-CENTRALIZED: transmission wiring, use 2-core wires of 0,75 to 1,25 mm² size cables, with shield.

Note: The shield should only be earthed at outdoor unit side, not at the indoor units!



Centralised controllers

Concept



Controller wiring diagrams

Control Group







Best Practices

Residual Current Circuit Breaker

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.

Specifications Table for RZAG-NV1

					RZAG71N7V1B	RZAG71N2V1B	RZAG100N7V1B	RZAG100N2V1B	RZAG125N
Dimensions	Unit		Height	mm	870	870	870	870	870
			Width	mm	1100	1100	1100	1100	1100
			Depth	mm	460	460	460	460	460
Weight	Unit			kg	81	81	85	85	95
Compressor	Type				Hermetically sealed swing compressor	Hermetically sealed swing compressor	Hermetically sealed swing compressor	Hermetically sealed swing compressor	Hermetically sealed swing compressor
Operation range	Cooling	Ambient	Min.	°CDB	-20	-20	-20	-20	-20
			Max.	°CDB	52	52	52	52	52
	Heating	Ambient	Min.	°CWB	-20	-20	-20	-20	-20
			Max.	°CWB	18	18	18	18	18
Sound power level	Cooling			dBA	64	64	66	66	69
	Heating			dBA					68 (1)
Sound pressure level	Cooling		Nom.	dBA	46	46	47	47	49
	Heating		Nom.	dBA	48	48	50	50	52
Refrigerant	Type				R-32	R-32	R-32	R-32	R-32
	Charge			kg	3.2	3.20	3.2	3.20	3.7
	GWP				675	675	675	675	675
	Charge			tCO2Eq	2.16	2.16	2.16	2.16	2.5
Piping connections	Liquid		OD	mm	10	10	10	10	10
	Gas		OD	mm	15.9	15.9	15.9	15.9	15.9
Give Feedback	Piping length	OU - IU	Max.	m	55	55	85	85	85
		System	Equivalent	m	75	75	100	100	100
			Chargeless	m	40	40	40	40	40
	Additional refrigerant charge			kg/m	See installation manual	See installation manual	See installation manual	See installation manual	See installation manual
	Level difference	IU - OU	Max.	m	30	30	30	30	30
		IU - IU	Max.	m	0.5	0.5	0.5	0.5	0.5
Standard Accessories	Installation manual				1	1	1	1	1
	Refrigerant label for F-gas regulation				1	1	1	1	1

	General safety precautions		1	1	1	1	1
	Peel off F-gas label		1	1	1	1	1
	Tie-wraps		2	2	2	2	2
Power supply	Phase		1~	1~	1~	1~	1~
	Frequency	Hz	50	50	50	50	50
	Voltage	V	220-240	220-240	220-240	220-240	220-240
Current - 50Hz	Maximum fuse amps (MFA)	A	20	20	32	32	32
Notes							(1) - Accord to ENER Lo

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Specifications Table for RXYSCQ-TV1

				RXYSCQ4TMV1B	RXYSCQ5TMV1B	RXYSCQ6TMV1B
Sound pressure level	Cooling	Nom.	dBA	51.0 (8)	52.0 (8)	53.0 (8)
Standard Accessories	Installation manual			1	1	1
	Operation manual			1	1	1
	Connection pipes			1	1	1
Capacity range	HP			4	5	6
Operation range	Cooling	Max.	°CDB	46.0	46.0	46.0
		Min.	°CDB	-5.0	-5.0	-5.0
	Heating	Min.	°CWB	-20.0	-20.0	-20.0
		Max.	°CWB	15.5	15.5	15.5
ηs,c	%			322.8	303.4	281.3
Maximum number of connectable indoor units				64 (6)	64 (6)	64 (6)
Space cooling	B Condition (30°C - 27/19)	Pdc	kW	8.9	10.3	11.4
		EERd		5.5	5.0	4.5
Give Feedback	D Condition (20°C - 27/19)	Pdc	kW	4.8	4.9	5.0
		EERd		18.6	19.9	21.2
	A Condition (35°C - 27/19)	EERd		3.2	2.7	2.7
		Pdc	kW	12.1	14.0	15.5
	C Condition (25°C - 27/19)	EERd		11.4	10.5	8.9
		Pdc	kW	5.7	6.6	7.3
SCOP				4.6	4.7	4.7
Compressor	Type			Hermetically sealed swing compressor	Hermetically sealed swing compressor	Hermetically sealed swing compressor
Weight	Unit		kg	89	89	89
Refrigerant	GWP			2,087.5	2,087.5	2,087.5
	Charge		kg	3.7	3.7	3.7
	Type			R-410A	R-410A	R-410A

Power input - 50Hz	Heating	Nom.	6°CWB	kW	2.82 (5)	3.44 (5)	4.18 (5)
Indoor index connection	Min.				50.0	62.5	70.0
	Max.				130.0	162.5	182.0
Cooling capacity	Prated,c			kW	12.1 (1)	14.0 (1)	15.5 (1)
COP at nom. capacity	6°CWB			kW/kW	4.29	4.07	3.71
Recommended combination					3 x FXSQ25A2VEB + 1 x FXSQ32A2VEB	4 x FXSQ32A2VEB	2 x FXSQ32A2VEB + 2 x FXSQ40A2VEB
Space heating (Average climate)	TOL		COPd (declared COP)		2.8	2.7	2.7
			Pdh (declared heating cap)	kW	8.4	9.7	10.7
			Tol (temperature operating limit)	°C	-10	-10	-10
	D Condition (12°C)		Pdh (declared heating cap)	kW	4.0	4.0	4.0
			COPd (declared COP)		7.9	8.1	8.2
	B Condition (2°C)		COPd (declared COP)		4.5	4.5	4.4
			Pdh (declared heating cap)	kW	4.5	5.2	5.8
	C Condition (7°C)		COPd (declared COP)		6.3	6.4	6.6
			Pdh (declared heating cap)	kW	3.4	3.4	3.7
	A Condition (-7°C)		COPd (declared COP)		3.2	3.1	3.1
			Pdh (declared heating cap)	kW	7.4	8.5	9.5
	TBivalent		Pdh (declared heating cap)	kW	8.4	9.7	10.7

Give Feedback

			Tbiv (bivalent temperature)	°C	-10	-10	-10
			COPd (declared COP)		2.8	2.7	2.7
Piping connections	Liquid		OD	mm	10	10	10
			Type		Flare connection	Flare connection	Flare connection
	Total piping length	System	Actual	m	300 (9)	300 (9)	300 (9)
	Gas		OD	mm	15.9	15.9	19.1
			Type		Flare connection	Flare connection	Flare connection
SEER					8.1	7.7	7.1
Sound power level	Cooling		Nom.	dBA	68.0 (7)	69.0 (7)	70.0 (7)
Dimensions	Unit		Width	mm	940	940	940
			Depth	mm	460	460	460
			Height	mm	823	823	823
ηs,h	%				182.3	185.1	186.0
Heating capacity	Prated,h			kW	12.1 (5)	14.0 (5)	15.5 (5)
	Nom.		6°CWB	kW	12.1 (5)	14.0 (5)	15.5 (5)
Power supply	Phase				1~	1~	1~
	Name				V1	V1	V1
	Frequency			Hz	50	50	50
	Voltage			V	220-240	220-240	220-240
Give Feedback	Notes				(1) - Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m	(1) - Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m	(1) - Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m
					(2) - Cooling: T1: indoor temp. 26,7°CDB, 19,4°CWB, outdoor temp. 35°CB, AHRI 1230:2010, power input indoor units (duct type) included	(2) - Cooling: T1: indoor temp. 26,7°CDB, 19,4°CWB, outdoor temp. 35°CB, AHRI 1230:2010, power input indoor units (duct type) included	(2) - Cooling: T1: indoor temp. 26,7°CDB, 19,4°CWB, outdoor temp. 35°CB, AHRI 1230:2010, power input indoor units (duct type) included
					(3) - Cooling: T3: indoor temp. 29,0°CDB, 19,0°CWB, outdoor temp. 46°CB, ISO15042:2011, power input indoor units (duct type) included	(3) - Cooling: T3: indoor temp. 29,0°CDB, 19,0°CWB, outdoor temp. 46°CB, ISO15042:2011, power input indoor units (duct type) included	(3) - Cooling: T3: indoor temp. 29,0°CDB, 19,0°CWB, outdoor temp. 46°CB, ISO15042:2011, power input indoor units (duct type) included

Give Feedback		(4) - Cooling: T2: indoor temp. 26,6°CDB, 19,4°CWB, outdoor temp. 48°CB, AHRI 1230:2010, power input indoor units (duct type) included	(4) - Cooling: T2: indoor temp. 26,6°CDB, 19,4°CWB, outdoor temp. 48°CB, AHRI 1230:2010, power input indoor units (duct type) included	(4) - Cooling: T2: indoor temp. 26,6°CDB, 19,4°CWB, outdoor temp. 48°CB, AHRI 1230:2010, power input indoor units (duct type) included
		(5) - Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m	(5) - Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m	(5) - Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m
		(6) - Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; $50\% \leq CR \leq 130\%$).	(6) - Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; $50\% \leq CR \leq 130\%$).	(6) - Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; $50\% \leq CR \leq 130\%$).
		(7) - Sound power level is an absolute value that a sound source generates.	(7) - Sound power level is an absolute value that a sound source generates.	(7) - Sound power level is an absolute value that a sound source generates.
		(8) - Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.	(8) - Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.	(8) - Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.
		(9) - Refer to refrigerant pipe selection or installation manual	(9) - Refer to refrigerant pipe selection or installation manual	(9) - Refer to refrigerant pipe selection or installation manual
		(10) - RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB	(10) - RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB	(10) - RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB
		(11) - MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always $\leq$ max. running current.	(11) - MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always $\leq$ max. running current.	(11) - MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always $\leq$ max. running current.
		(12) - In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure	(12) - In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure	(12) - In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure

	that the equipment is connected only to a supply with $S_{sc} \geq$ minimum S_{sc} value	that the equipment is connected only to a supply with $S_{sc} \geq$ minimum S_{sc} value	that the equipment is connected only to a supply with $S_{sc} \geq$ minimum S_{sc} value
	(13) - MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current.	(13) - MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current.	(13) - MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current.
	(14) - MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).	(14) - MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).	(14) - MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).
	(15) - TOCA means the total value of each OC set.	(15) - TOCA means the total value of each OC set.	(15) - TOCA means the total value of each OC set.
	(16) - FLA means the nominal running current of the fan	(16) - FLA means the nominal running current of the fan	(16) - FLA means the nominal running current of the fan
	(17) - Maximum allowable voltage range variation between phases is 2%.	(17) - Maximum allowable voltage range variation between phases is 2%.	(17) - Maximum allowable voltage range variation between phases is 2%.
	(18) - Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.	(18) - Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.	(18) - Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
	(19) - The automatic ESEER value corresponds with normal VRV IV-S heat pump operation, including the advanced energy saving functionality (variable refrigerant temperature control).	(19) - The automatic ESEER value corresponds with normal VRV IV-S heat pump operation, including the advanced energy saving functionality (variable refrigerant temperature control).	(19) - The automatic ESEER value corresponds with normal VRV IV-S heat pump operation, including the advanced energy saving functionality (variable refrigerant temperature control).
	(20) - The standard ESEER value corresponds with normal VRV IV-S heat pump operation, not taking into account the advanced energy saving functionality.	(20) - The standard ESEER value corresponds with normal VRV IV-S heat pump operation, not taking into account the advanced energy saving functionality.	(20) - The standard ESEER value corresponds with normal VRV IV-S heat pump operation, not taking into account the advanced energy saving functionality.
	(21) - Sound values are measured in a semi-anechoic room.	(21) - Sound values are measured in a semi-anechoic room.	(21) - Sound values are measured in a semi-anechoic room.

	(22) - EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≤ 75A per phase	(22) - EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≤ 75A per phase	(22) - EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≤ 75A per phase
	(23) - Ssc: Short-circuit power	(23) - Ssc: Short-circuit power	(23) - Ssc: Short-circuit power
	(24) - For detailed contents of standard accessories, see installation/operation manual	(24) - For detailed contents of standard accessories, see installation/operation manual	(24) - For detailed contents of standard accessories, see installation/operation manual

