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Project name Easy Hotel Reading
Project address United Kingdom
Reference .
Client name Cool Projects

Selection parameters of the indoor units can be found under the chapter Indoor unit details
Selection parameters of the outdoor units can be found under the chapter Outdoor unit details
Only the data published in the data book are correct. This program uses close approximations of these data.

1. Material List

Model	Qty	Description
RYYQ10T	1	VRV IV Continuous Heating (RYYQ-T)
RYYQ12T	1	VRV IV Continuous Heating (RYYQ-T)
RYYQ14T	1	VRV IV Continuous Heating (RYYQ-T)
FXAQ20P	2	VRV FXAQ - Wall mounted
FXDQ20A	46	VRV FXDQ - Ducted unit low ESP
FXDQ25A	5	VRV FXDQ - Ducted unit low ESP
KHRQ22M20T	42	Refnet branch piping kit
KHRQ22M29T9	6	Refnet branch piping kit
KHRQ22M64T	2	Refnet branch piping kit
BRC1E53A	53	Remote Controller

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2. Indoor Unit Details

2.1. Table of Abbreviations

Name	Logical name of the device, possibly preceded by room name
FCU	Device model name
Tmp C	Indoor conditions in cooling (dry bulb temp. / RH)
Rq TC	Required total cooling capacity
	Number of indoors in room
Max TC	Available total cooling capacity
Rq SC	Required sensible cooling capacity
	Number of indoors in room
Max SC	Available sensible cooling capacity
Tevap	Evaporating temperature of indoor unit coil
Tdis C	Indoor unit discharge air temperature in cooling
Tmp H	Indoor temperature in heating
Rq HC	Required heating capacity
	Number of indoors in room
Max HC	Available heating capacity
Tdis H	Indoor unit discharge air temperature in heating
Airflow	Supplied airflow
Sound	Sound pressure low and high
PS	Power supply (voltage and phases)
MCA	Minimum Circuit Amps
WxHxD	WidthxHeightxDepth
Wght	Weight of the device
PI-C 50Hz	Power input in cooling at 50Hz
PI-H 50Hz	Power input in heating at 50Hz

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2.2.2nd Floor - RYYQ10T

Capacity data at conditions and connection ratio (110%) as entered

Name	FCU	Tmp C °C	Rq TC kW	Max TC kW	Rq SC kW	Max SC kW	Tevap °C	Tdis C °C	Tmp H °C	Rq HC kW	Max HC kW
213:3/213	FXDQ25A	24.0 / 50%	n/a	2.4	n/a	1.9	6.0	12.2	20.0	n/a	3.2
212:3/212	FXDQ25A	24.0 / 50%	n/a	2.4	n/a	1.9	6.0	12.2	20.0	n/a	3.2
211:3/211	FXDQ25A	24.0 / 50%	n/a	2.4	n/a	1.9	6.0	12.2	20.0	n/a	3.2
210:3/210	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.5
209:3/209	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.5
208:3/208	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.5
207:3/207	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.5
206:3/206	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.5
205:3/205	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.5
204:3/204	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.5
203:3/203	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.5
202:3/202	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.5
201:3/201	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.5

Required cooling capacity towards the outdoor unit: 26.8kW.

Required heating capacity towards the outdoor unit: 34.6kW.

The sum of the required indoor unit capacities is 26.8kW for cooling and 34.6kW for heating.

However, the outdoor unit selection uses reduced load values for cooling of 13.4kW (= -50%) and for heating of 17.3kW (= -50%).

Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).

The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound dBA	PS	MCA A	WxHxD mm	Wght kg	PI-C 50Hz kW	PI-H 50Hz kW
213:3/213	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
212:3/212	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
211:3/211	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
210:3/210	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
209:3/209	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
208:3/208	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
207:3/207	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
206:3/206	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
205:3/205	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068

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Name	Sound	PS	MCA	WxHxD	Wght	PI-C 50Hz	PI-H 50Hz
	dBA		A	mm	kg	kW	kW
204:3/204	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
203:3/203	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
202:3/202	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
201:3/201	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068



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

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2.3.1st Floor - RYYQ14T

Capacity data at conditions and connection ratio (126%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW
122:1/122	FXAQ20P	24.0 / 50%	n/a	1.9	n/a	1.8	6.0	12.4	20.0	n/a	2.9
120:1/120	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
119:1/119	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
118:1/118	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
117:1/117	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
116:1/116	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
115:1/115	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
114:1/114	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
113:1/113	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
112:1/112	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
111:1/111	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
110:1/110	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
109:1/109	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
108:1/108	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
107:1/107	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
106:1/106	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
105:1/105	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
104:1/104	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
103:1/103	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
102:1/102	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
101:1/101	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9
121:1/121	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.9

Required cooling capacity towards the outdoor unit: 42.9kW.

Required heating capacity towards the outdoor unit: 55.0kW.

The sum of the required indoor unit capacities is 42.9kW for cooling and 55.0kW for heating.

However, the outdoor unit selection uses reduced load values for cooling of 21.4kW (= -50%) and for heating of 27.5kW (= -50%).

Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).

The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght	PI-C 50Hz	PI-H 50Hz
	dBA		A	mm	kg	kW	kW

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Name	Sound	PS	MCA	WxHxD	Wght	PI-C 50Hz	PI-H 50Hz
	dBA		A	mm	kg	kW	kW
122:1/122	29-35	230V 1ph	0.3	795×290×238	11	0.019	0.029
120:1/120	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
119:1/119	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
118:1/118	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
117:1/117	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
116:1/116	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
115:1/115	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
114:1/114	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
113:1/113	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
112:1/112	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
111:1/111	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
110:1/110	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
109:1/109	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
108:1/108	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
107:1/107	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
106:1/106	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
105:1/105	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
104:1/104	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
103:1/103	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
102:1/102	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
101:1/101	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
121:1/121	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068



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

2.4. Ground Floor - RYYQ12T

Capacity data at conditions and connection ratio (123%) as entered

Name	FCU	Tmp C	Rq TC	Max TC	Rq SC	Max SC	Tevap	Tdis C	Tmp H	Rq HC	Max HC
		°C	kW	kW	kW	kW	°C	°C	°C	kW	kW
001:G/001	FXAQ20P	24.0 / 50%	n/a	1.9	n/a	1.8	6.0	12.4	20.0	n/a	2.0
002:G/002	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
003:G/003	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
004:G/004	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
005:G/005	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
006:G/006	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
007:G/007	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
008:G/008	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
009:G/009	FXDQ25A	24.0 / 50%	n/a	2.4	n/a	1.9	6.0	12.2	20.0	n/a	3.0
010:G/010	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
011:G/011	FXDQ25A	24.0 / 50%	n/a	2.4	n/a	1.9	6.0	12.2	20.0	n/a	3.0
012:G/012	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
014:G/014	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
015:G/015	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
016:G/016	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
017:G/017	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
018:G/018	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0
019:G/019	FXDQ20A	24.0 / 50%	n/a	1.9	n/a	1.6	6.0	14.0	20.0	n/a	2.0

Required cooling capacity towards the outdoor unit: 36.1kW.

Required heating capacity towards the outdoor unit: 46.4kW.

The sum of the required indoor unit capacities is 36.1kW for cooling and 46.4kW for heating.

However, the outdoor unit selection uses reduced load values for cooling of 18.0kW (= -50%) and for heating of 23.2kW (= -50%).

Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

The calculation shows the peak discharge temperatures (lowest temperature in case of cooling mode / highest temperature in case of heating mode), assuming the indoor unit is running at full load at the given indoor temperature design conditions. In practice the discharge temperature will modulate based on actual capacity requirements and during defrost mode (heating mode).

The analysis of the suction and discharge temperature values may help in preventing a cold draft and to ensure a thermal comfort level.

Name	Sound	PS	MCA	WxHxD	Wght	PI-C 50Hz	PI-H 50Hz
	dBA		A	mm	kg	kW	kW
001:G/001	29-35	230V 1ph	0.3	795×290×238	11	0.019	0.029
002:G/002	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
003:G/003	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
004:G/004	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068

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Name	Sound	PS	MCA	WxHxD	Wght	PI-C 50Hz	PI-H 50Hz
	dBA		A	mm	kg	kW	kW
005:G/005	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
006:G/006	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
007:G/007	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
008:G/008	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
009:G/009	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
010:G/010	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
011:G/011	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
012:G/012	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
014:G/014	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
015:G/015	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
016:G/016	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
017:G/017	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
018:G/018	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068
019:G/019	27-33	220V 1ph	0.4	750×200×620	22	0.071	0.068



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

3. Outdoor Unit Details

3.1. Table of Abbreviations

Name	Logical name of the device
Model	Device model name
Tmp C	Outdoor temperature in cooling
CC	Available cooling capacity
Rq CC	Required cooling capacity
EER	EER at nominal conditions for standard efficiency series (nominal temperatures, 100% connection ratio and without considering pipe length corrections)
ESEER	European Seasonal Energy Efficiency Ratio
Tmp H	Outdoor conditions in heating (dry bulb temp. / RH)
HC	Available heating capacity (integrated heating capacity)
Rq HC	Required heating capacity
COP	COP at nominal conditions for standard efficiency series (nominal temperatures, 100% connection ratio and without considering pipe length corrections)
Piping	Largest distance from indoor unit to outdoor unit
Bse Refr	Standard factory refrigerant charge (5m actual piping length) excluding extra refrigerant charge For calculation of extra refrigerant charge refer to the databook
GWP	Global Warming Potential
TCO ₂ eq.	Tonnes of CO ₂ equivalent
PS	Power supply (voltage and phases)
MCA	Minimum Circuit Amps
WxHxD	WidthxHeightxD
Wght	Weight of the device

3.2. Outdoor Details

Name	Model	Comb %	Tmp C °C	CC kW	Rq CC kW	EER	ESEER	Tmp H °C	HC kW	Rq HC kW	COP
2nd Floor	RYYQ10T	110	30.0	26.0	13.4	3.8	7.2	0.0 / 50%	23.4	17.3	4.3
1st Floor	RYYQ14T	126	30.0	40.7	21.4	3.6	6.8	0.0 / 50%	32.1	27.5	4
Ground Floor	RYYQ12T	123	30.0	33.7	18.0	3.7	7	0.0 / 50%	26.3	23.2	4.1

Name	Model	Piping m	Type	GWP	Refrigerant		
					Bse Refr kg	Ex Refr kg	TCO ₂ eq. Tonnes
2nd Floor	RYYQ10T	7.5	R410A	2087.5	6.0	(¹)	12.5
1st Floor	RYYQ14T	7.5	R410A	2087.5	10.3	(¹)	21.5
Ground Floor	RYYQ12T	7.5	R410A	2087.5	6.3	(¹)	13.2

The system contains fluorinated greenhouse gases.

(¹) The 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.

Name	Model	PS	MCA A	WxHxD mm	Wght kg
2nd Floor	RYYQ10T	400V 3Nph	22	930×1685×765	268
1st Floor	RYYQ14T	400V 3Nph	27	1240×1685×765	364
Ground Floor	RYYQ12T	400V 3Nph	24	930×1685×765	268

3.2.1. 2nd Floor - RYYQ10T

Model	Qty	Description	
RYYQ10T	1	VRV IV Continuous Heating (RYYQ-T)	619053
FXDQ20A	10	VRV FXDQ - Ducted unit low ESP	
FXDQ25A	3	VRV FXDQ - Ducted unit low ESP	
KHRQ22M20T	11	Refnet branch piping kit	664584
KHRQ22M29T9	1	Refnet branch piping kit	634174
BRC1E53A	13	Remote Controller	

Piping Limitations

Connected indoor type(s): VRV	
Maximum total length	1000.0m
Maximum longest actual length	165.0m
Maximum longest equivalent length	190.0m
Maximum equivalent length (size up of main pipe required if longer)	90.0m
Maximum length first branch to indoor unit (size up of intermediate pipes required if longer)	40.0m
Maximum length first branch to indoor units	90.0m
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 between indoor units	30.0m
Connection ratio range	50-130%

Pipe Capacities

Maximum Connection Index	Diameters
149.9	$\frac{3}{8}" \times \frac{5}{8}"$
199.9	$\frac{3}{8}" \times \frac{3}{4}"$
289.9	$\frac{3}{8}" \times \frac{7}{8}"$
419.9	$\frac{1}{2}" \times 1\frac{1}{8}"$
639.9	$\frac{5}{8}" \times 1\frac{1}{8}"$
919.9	$\frac{3}{4}" \times 1\frac{3}{8}"$
> 919.9	$\frac{3}{4}" \times 1\frac{5}{8}"$
Main pipe size up	$\frac{1}{2}" \times 1"$

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3.2.2. 1st Floor - RYYQ14T

Model	Qty	Description	
RYYQ14T	1	VRV IV Continuous Heating (RYYQ-T)	619055
FXAQ20P	1	VRV FXAQ - Wall mounted	
FXDQ20A	21	VRV FXDQ - Ducted unit low ESP	
KHRQ22M20T	16	Refnet branch piping kit	664584
KHRQ22M29T9	4	Refnet branch piping kit	634174
KHRQ22M64T	1	Refnet branch piping kit	634176
BRC1E53A	22	Remote Controller	

Piping Limitations

Connected indoor type(s): VRV	
Maximum total length	1000.0m
Maximum longest actual length	165.0m
Maximum longest equivalent length	190.0m
Maximum equivalent length (size up of main pipe required if longer)	90.0m
Maximum length first branch to indoor unit (size up of intermediate pipes required if longer)	40.0m
Maximum length first branch to indoor units	90.0m
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 between indoor units	30.0m
Connection ratio range	50-130%

Pipe Capacities

Maximum Connection Index	Diameters
149.9	$\frac{3}{8}" \times \frac{5}{8}"$
199.9	$\frac{3}{8}" \times \frac{3}{4}"$
289.9	$\frac{3}{8}" \times \frac{7}{8}"$
419.9	$\frac{1}{2}" \times 1\frac{1}{8}"$
639.9	$\frac{5}{8}" \times 1\frac{1}{8}"$
919.9	$\frac{3}{4}" \times 1\frac{3}{8}"$
> 919.9	$\frac{3}{4}" \times 1\frac{5}{8}"$
Main pipe size up	$\frac{5}{8}" \times 1\frac{1}{8}"$

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3.2.3. Ground Floor - RYYQ12T

Model	Qty	Description	
RYYQ12T	1	VRV IV Continuous Heating (RYYQ-T)	619054
FXAQ20P	1	VRV FXAQ - Wall mounted	
FXDQ20A	15	VRV FXDQ - Ducted unit low ESP	
FXDQ25A	2	VRV FXDQ - Ducted unit low ESP	
KHRQ22M20T	15	Refnet branch piping kit	664584
KHRQ22M29T9	1	Refnet branch piping kit	634174
KHRQ22M64T	1	Refnet branch piping kit	634176
BRC1E53A	18	Remote Controller	

Piping Limitations

Connected indoor type(s): VRV	
Maximum total length	1000.0m
Maximum longest actual length	165.0m
Maximum longest equivalent length	190.0m
Maximum equivalent length (size up of main pipe required if longer)	90.0m
Maximum length first branch to indoor unit (size up of intermediate pipes required if longer)	40.0m
Maximum length first branch to indoor units	90.0m
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 between indoor units	30.0m
Connection ratio range	50-130%

Pipe Capacities

Maximum Connection Index	Diameters
149.9	$\frac{3}{8}" \times \frac{5}{8}"$
199.9	$\frac{3}{8}" \times \frac{3}{4}"$
289.9	$\frac{3}{8}" \times \frac{7}{8}"$
419.9	$\frac{1}{2}" \times 1\frac{1}{8}"$
639.9	$\frac{5}{8}" \times 1\frac{1}{8}"$
919.9	$\frac{3}{4}" \times 1\frac{3}{8}"$
> 919.9	$\frac{3}{4}" \times 1\frac{5}{8}"$
Main pipe size up	$\frac{5}{8}" \times 1\frac{1}{8}"$

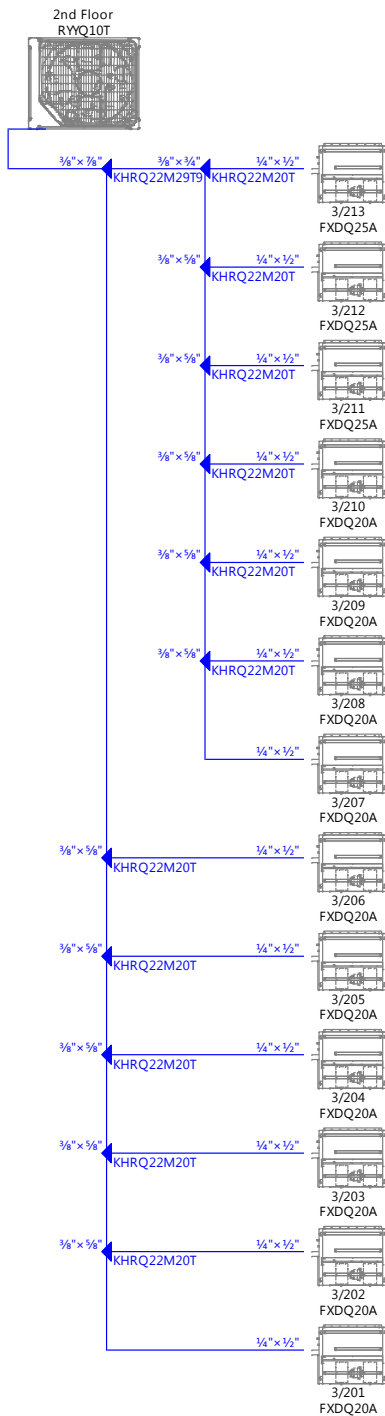
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4. Piping Diagrams

Pipes marked with * in the diagrams must be connected to the device with a reducing joint.

4.1. Piping 2nd Floor



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

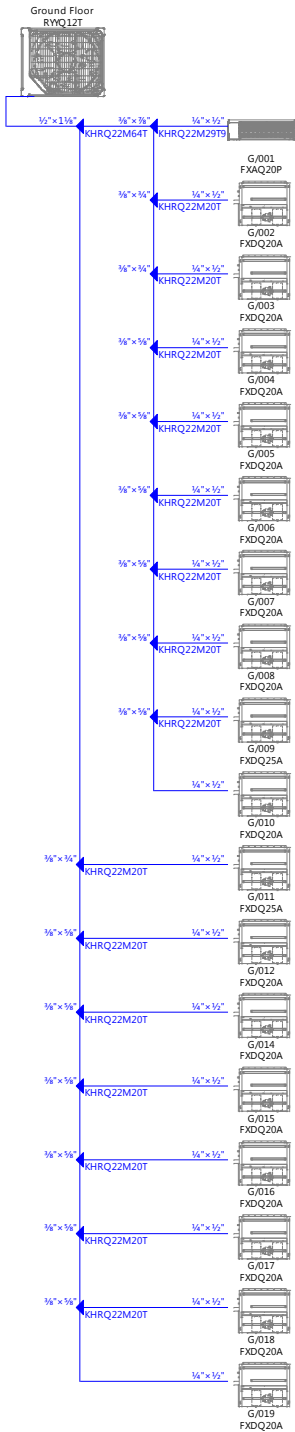
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4.3. Piping Ground Floor



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

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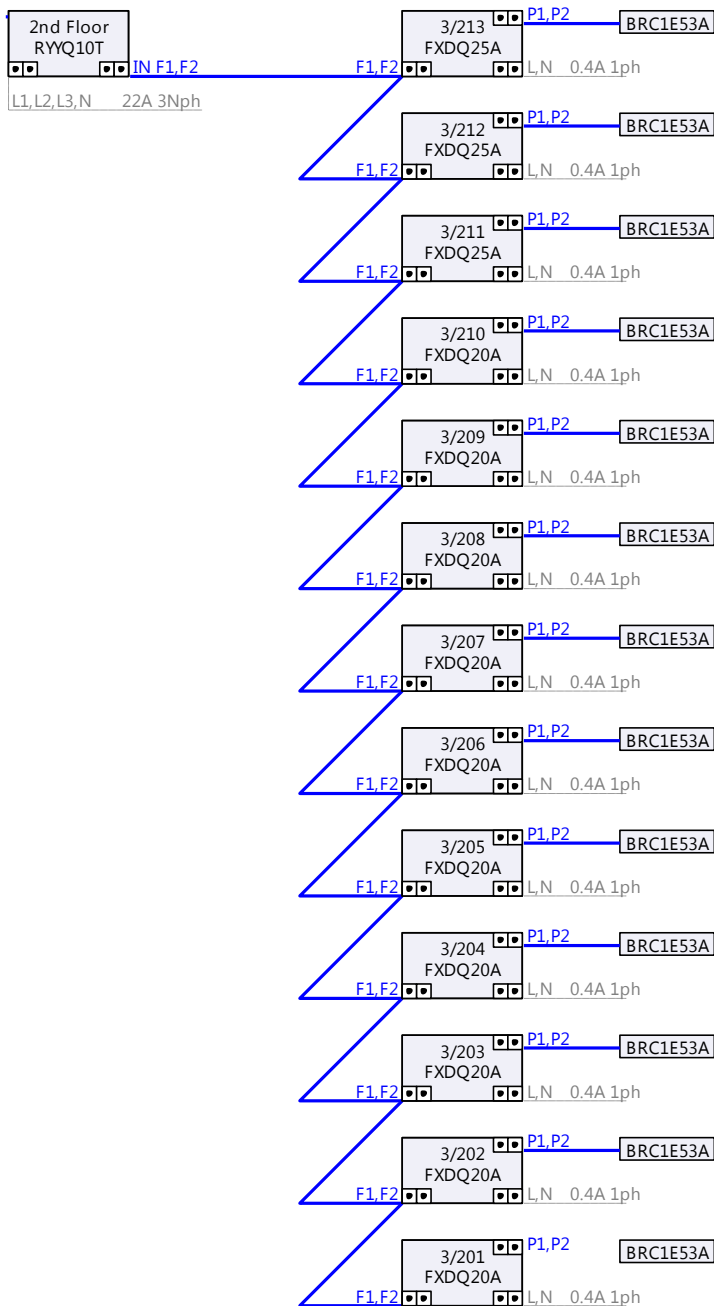
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5. Wiring Diagrams

P1P2 = Please select the cable type and size in accordance with the databook.

F1F2 = Please select the cable type and size in accordance with the databook.

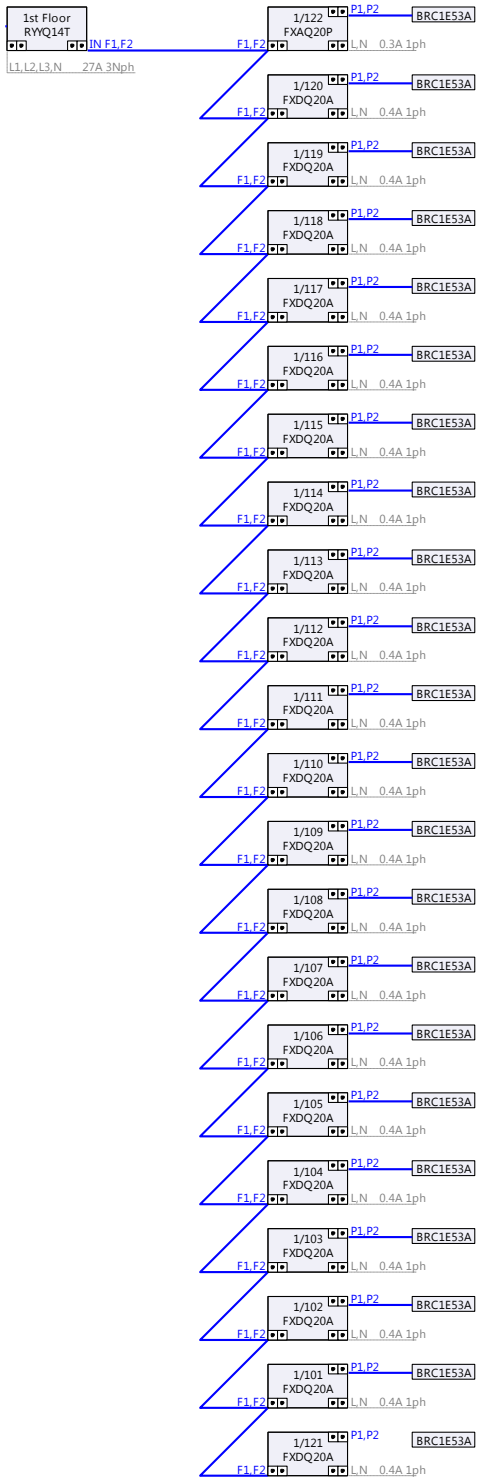
5.1. Wiring 2nd Floor



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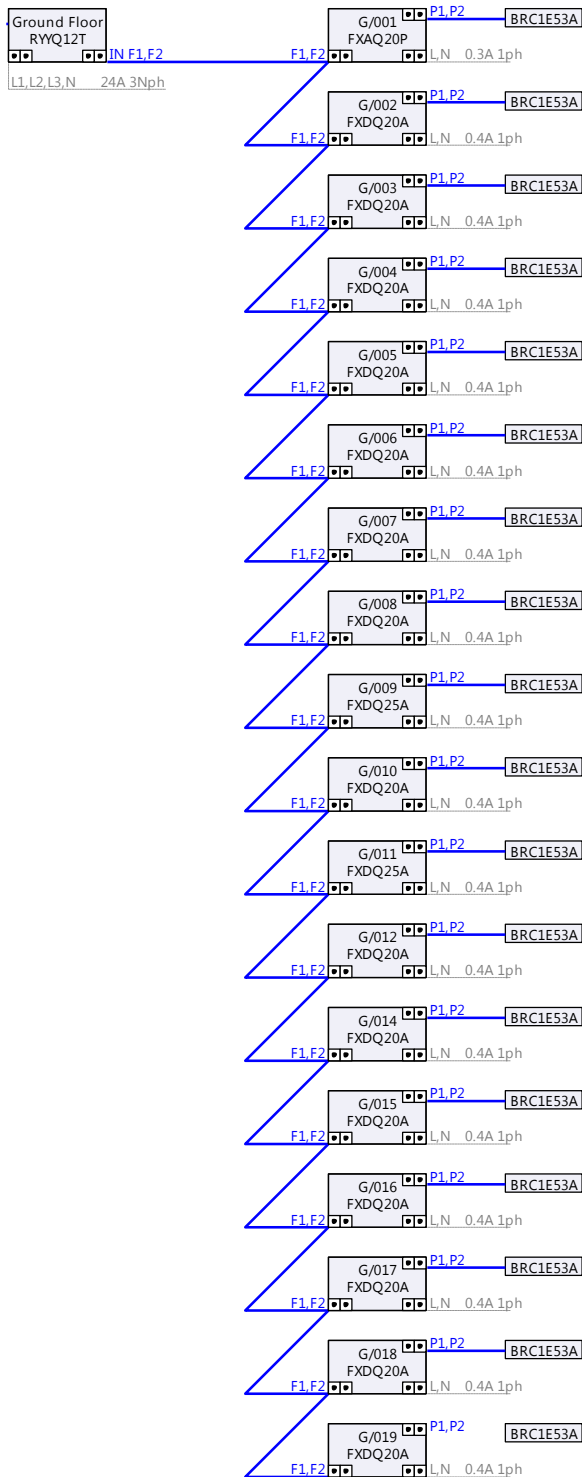
5.2. Wiring 1st Floor



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5.3. Wiring Ground Floor



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