



WebXpress Selection

Project Report

Report details

Produced on: 9/29/2025

Application version: 2025.9.24.3

Project details

Project name: Reddot

Solution name: Unnamed solution (1)

Client Name: Code Mechanical

Customer reference:

Quotation reference:

Project number: 726253/931970

Selection parameters of the indoor units can be found in the Engineering Data Books.

Selection parameters of the outdoor units can be found in the Engineering Data Books.

Only the data published in the data book are correct. This program uses close approximations of these data.



Material list

Model	Quantity	Description
RXTQ36TBVJUA	1	VRV-IV-S -TB -A R410A (208-230V)
FXZQ18TAVJU	2	FXZQ_TAVJU - 4-Way Discharge Ceiling Cassette (2' x 2')
KHRP26A22TA	1	Refnet branch piping kit
BRC1NRV71	2	Navigation Remote Controller
BYFQ60C3W1W	2	Decoration Panel White

Remarks

Note: Upon depletion of inventory of current REFNET models, order of current REFNET models will be substituted with the new upgraded -A models with no additional fee.

Piping	Liquid ft	Suction ft	Total ft
1/4"	100.0	0.0	100.0
3/8"	50.0	0.0	50.0
1/2"	0.0	100.0	100.0
5/8"	0.0	50.0	50.0



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
Tmp H	Indoor temperature in heating
Rq HC	Required heating capacity
Max HC	Available heating capacity
Sound	Sound pressure level low and high
PS	Power supply (voltage and phases)
MCA	Minimum Circuit Amps
MOP	Maximum Overcurrent Protection
WxHxD	WidthxHeightxDepth
Weight	Weight of the device
Mrel	Maximum Refrigerant Amount that can be released. Equals the total refrigerant charge in the system when there are no shut-off valves.



ODU_1 - RXTQ36TBVJUA

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

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
IDU_1	FXZQ18TAVJU	72.0/70.0	16,500	18,767	n/a	42.8	7,282
IDU_2	FXZQ18TAVJU	72.0/70.0	16,500	18,767	n/a	42.8	7,282

Name	FCU	Heating				
		Tmp H	Rq HC	Max HC	Min coil	Max coil
		°F	BTU/h	BTU/h	in ³	in ³
IDU_1	FXZQ18TAVJU	68.0	n/a	20,814	n/a	n/a
IDU_2	FXZQ18TAVJU	68.0	n/a	20,814	n/a	n/a

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
IDU_1	FXZQ18TAVJU		33 - 43	208-230V 1ph	0.6	15A	22.6 x 10.2 x 22.6	41.9
IDU_2	FXZQ18TAVJU		33 - 43	208-230V 1ph	0.6	15A	22.6 x 10.2 x 22.6	41.9

Remarks

Outdoor vs. indoor position

Outdoor unit placed 12.0ft below the indoor units.



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 per module	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
MOP	Maximum Overcurrent Protection
FLA	Fan Motor Input
FCIDI	Fan Compressor Inverter Drive 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 47°F
COP17	COP value at nominal condition and at ambient temperature of 17°F



Outdoor details

Name	Model	CR	Cooling			Heating			Piping
			Tmp C	CC	Rq CC	Tmp H	HC	Rq HC	
		%	°F	BTU/h	BTU/h	°F (DBT/WBT)	BTU/h	BTU/h	ft
ODU_1	RXTQ36TBVJUA	100.0	95.0	37,637	33,000	27.0/27.0	35,415		106.1

Name	Model	PS	MCA	MOP	RLA	WxHxD	Weight
			A	A	A	inch	lbs
ODU_1	RXTQ36TBVJUA	208-230V 1ph	16.5	20.0	15.3	37.0 x 39.0 x 12.6	172.0

Name	Efficiency Metrics - Non Ducted									
	EER	EER2	IEER	COP47	COP17	SCHE	SEER	SEER2	HSPF	HSPF2
ODU_1		12						18.2		9

Name	Model	Sound Power		Sound Pressure	
		Cooling	Heating	Cooling	Heating
		dBA	dBA	dBA	dBA
ODU_1	RXTQ36TBVJUA	75	79	58	61

Refrigerant information

Name	Model	Refrigerant type	GWP	Base charge lbs	Extra charge lbs	Total refrigerant charge lbs	Total CO2 equivalent tonnes
ODU_1	RXTQ36TBVJUA	R410A	2087.5	6.39	3.46	9.85	9.33

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.

ODU_1 - RXTQ36TBVJUA

Model	Quantity	Description
RXTQ36TBVJUA	1	VRV-IV-S -TB -A R410A (208-230V)
FXZQ18TAVJU	2	FXZQ_ TAVJU - 4-Way Discharge Ceiling Cassette (2' x 2')
KHRP26A22TA	1	Refnet branch piping kit
BRC1NRV71	2	Navigation Remote Controller
BYFQ60C3W1W	2	Decoration Panel White

Piping	Liquid ft	Suction ft	Total ft
1/4"	100.0	0.0	100.0
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Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	Total refrigerant charge lbs	Total CO2 equivalent tonnes
R410A	2087.5	6.39	3.46*)	9.85	9.33

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = [50.0 ft (ø3/8 ") × 0.1301 + 100.0 ft (ø1/4 ") × 0.0485] × 0.3048 = 3.5lbs



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
> 0	3/8"x5/8"
Main pipe size up	3/8"x3/4"

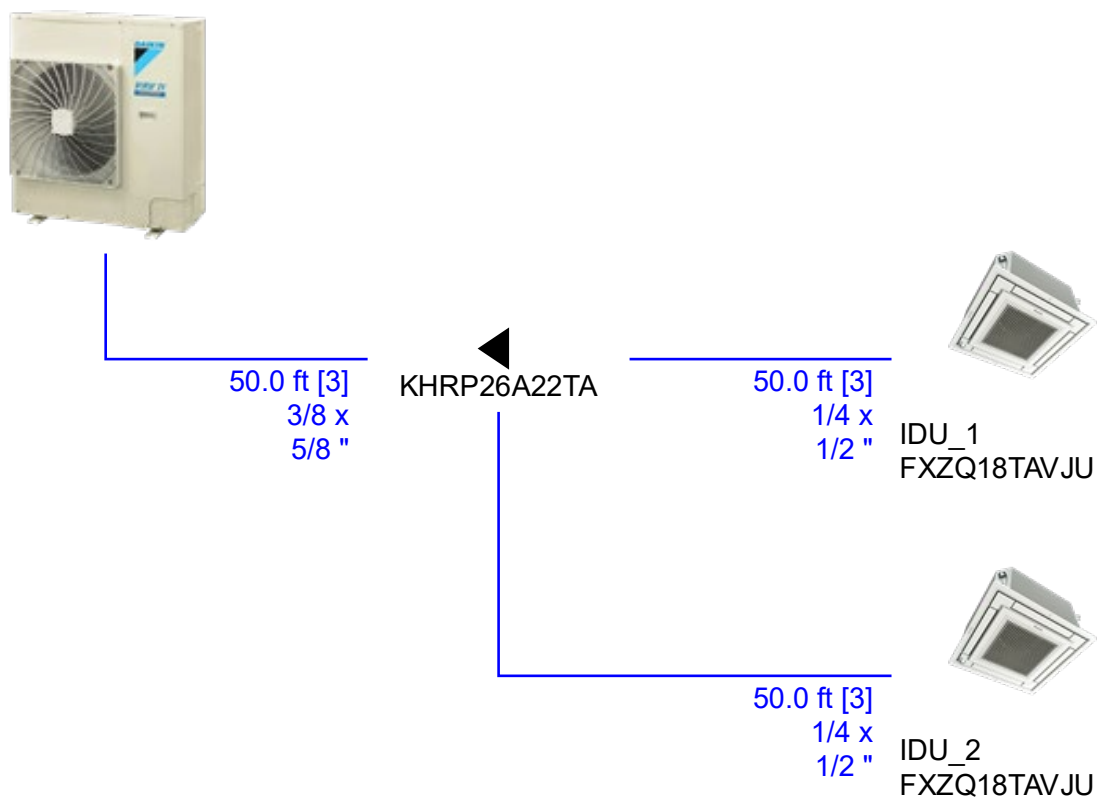
Piping limitations

Description	Value
Maximum total length	820.2ft
Maximum longest actual length	164.0ft
Maximum longest equivalent length	213.3ft
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)	131.2ft
Maximum length first branch to indoor unit	131.2ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	98.4ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	98.4ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in low ambient cooling, outdoor unit below indoor units	98.4ft
Maximum height difference in low ambient cooling, outdoor unit above indoor units	98.4ft
Maximum height difference between indoor units	33.0ft
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	131.2ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

Piping diagrams

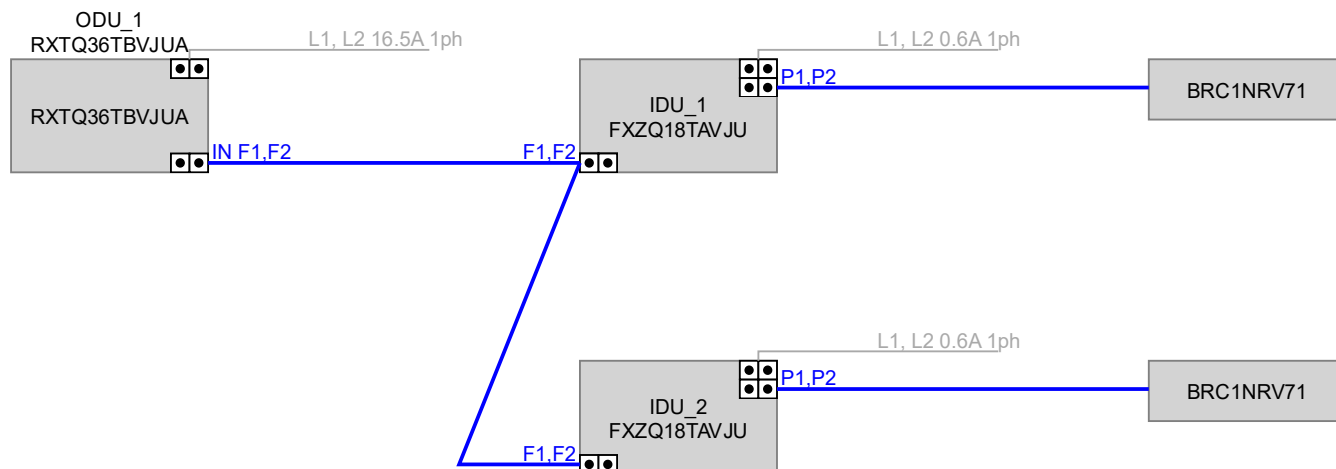
Piping ODU_1

ODU_1
RXTQ36TBVJUA



Wiring diagrams

Wiring ODU_1



Remarks

P1P2 = AWG 18-2 is required - however always refer to local code for further information.

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

Note:

