

AP House Manchester

Technical Submittal Form

Designated Consultant for co-ordination of response. To:	TC Submittal no : M001	
Project Name: AP Townhouse, Manchester	Date: 12/09/24	
Job No: S1786		Revision: A

Location installed:	Roof	Specified item or alternative:	Specified
Colour / Finish:		Quantity:	4
Product description and manufacture:	Daikin VRV Condenser		
Accessory kit required:			

Date Approval is Required: 19/9/24	Date Approval was Received:
Description of Technical Submittal: Attached datasheets of proposed Daikin VRV condensers	
CONSULTANTS COMMENTS: 	
Designated Consultant to coordinate response from all parties	

Consultant	Submittal Approval Status	Signed	Date
	A B C		

VRV IV S-series heat pump

Space saving solution without compromising on efficiency

- › By choosing this product with LOOP by Daikin you support the reuse of refrigerant
- › Space saving trunk design for flexible installation
- › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains
- › Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Perfera...
- › Wide range of units (4 to 12HP) suitable for projects up to 200m² with space limitations
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- › Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- › Contains all standard VRV features



RXYSQ4-6TV9_TY9

LOOP
BY DAIKIN

For units made and sold in Europe*



Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

RXYSQ-TV9 / TY9

Outdoor Units			RXYSQ4TV9	RXYSQ5TV9	RXYSQ6TV9	RXYSQ4TY9	RXYSQ5TY9	RXYSQ6TY9
Capacity	Nominal Cooling	kW	12.1	14.0	15.5	12.1	14.0	15.5
	Nominal Heating	kW	12.1	14.0	15.5	12.1	14.0	15.5
η _{s,c}	Seasonal Efficiency Cooling	%	278.90	270.10	278.00	269.20	260.50	268.30
η _{s,h}	Seasonal Efficiency Heating	%	171.60	182.90	192.80	154.40	164.50	174.10
Dimensions	Height x Width x Depth	mm	1345 x 900 x 320	1345 x 900 x 320	1345 x 900 x 320	1345 x 900 x 320	1345 x 900 x 320	1345 x 900 x 320
Weight		kg	104	104	104	104	104	104
Air Flow Rate		m ³ /sec	1.767	1.767	1.767	1.767	1.767	1.767
Electrical Details	Power Supply	Phase / Hz / V		1 / 50 / 230		3 / 50 / 380~415		
	Running Current	amps	14.6	17.9	21.8	5.04	6.15	7.44
	Starting Current	amps	4	4	4	4	4	4
	Fuse Rating	amps	32	32	32	16	16	16
Refrigerant Circuit	Refrigerant Type				R410A			
Sound Pressure (Nom)		dBA	50.0	51.0	51.0	50.0	51.0	51.0
Sound Power (Nom)		dBA	68.0	69.0	70.0	68.0	69.0	70.0
Piping Limits	Maximum Length	m	300	300	300	300	300	300
Piping Connections	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Gas	inch (mm)	5/8 (15.9)	5/8 (15.9)	3/4 (19)	5/8 (15.9)	5/8 (15.9)	3/4 (19)
Capacity Index Limit			50 - 130	62.5 - 162.5	70 - 182	50 - 130	62.5 - 162.5	70 - 182
Maximum Number of Connected Indoor Units			8	10	12	8	10	12

RXYSQ-TY1

Outdoor Units			RXYSQ8TY1	RXYSQ10TY1	RXYSQ12TY1
Capacity	Nominal Cooling	kW	22.4	28.0	33.5
	Nominal Heating	kW	22.4	28.0	33.5
η _{s,c}	Seasonal Efficiency Cooling	%	247.30	247.40	256.50
η _{s,h}	Seasonal Efficiency Heating	%	165.80	162.40	169.60
Dimensions	Height x Width x Depth	mm	1430 x 940x320	1615 x 940 x 460	
Weight		kg	144	175	180
Air Flow Rate		m ³ /sec	2.333	3.033	3.033
Electrical Details	Power Supply	Phase / Hz / V		3 / 50 / 380~415	
	Running Current	amps	11.0	12.1	15.0
	Starting Current	amps	4	4	4
	Fuse Rating	amps	25	25	32
Refrigerant Circuit	Refrigerant Type			R410A	
Sound Pressure (Nom)		dBA	55.0	55.0	57.0
Sound Power (Nom)		dBA	73.0	74.0	76.0
Piping Limits	Maximum Length	m	300	300	300
Piping Connections	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)
	Gas	inch (mm)	3/4 (19)	7/8 (22.2)	1 1/8 (28.6)
Capacity Index Limit			100 - 260	125 - 325	150 - 390
Maximum Number of Connected Indoor Units			17	21	26