



VRV IV+ heat pump, optimised for cold climates

RXYLQ-T

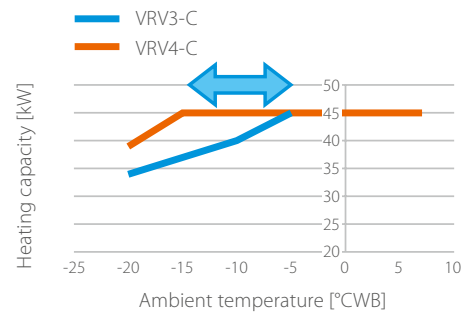


Where heating is priority without compromising on efficiency



High heating capacity at low ambient temperatures

› Stable heating capacity available down to -15°C WB!



High partial load efficiency

- › New vapour injection scroll compressor optimised for low load
- UNIQUE back-pressure control: Pressure port increases pressure below the scroll in low load operation, preventing refrigerant leak and increasing efficiency
- UNIQUE Injection structure with check valve: Prevents volume backflow during low load operation typically occurring with standard vapour injection compressors
- › Variable Refrigerant Temperature adjusts refrigerant temperature to match the load



High reliability down to -25°C WB

› Hot gas bypass prevents ice buildup at the bottom of the heat exchanger





Already fully compliant to LOT 21 - Tier 2

High seasonal efficiency

- > **Measured with indoor units for real applications!**
- > ALL information for indoor units used available on our eco-design website: Already fully compliant https://energylabel.daikin.eu/eu/en_US/lot21.html



The known VRV IV standards

- Variable Refrigerant Temperature
- VRV configurator

Total solution



Daikin Emura
Wall mounted unit



Nexura
Floor standing unit



Fully flat cassette



Biddle air curtain



Intelligent Manager



Air handling unit for ventilation



Low temperature hydrobox

VRV heat pump optimised for heating

Where heating is priority without compromising on efficiency

- › Specifically developed for heating operation in low ambient conditions, making it suitable for single source heating
- › Stable heating capacity down to -15°C, thanks to vapour injection compressor
- › Extended operation range down to -25°C in heating
- › High reliability in severe conditions, thanks to hot gas bypass circuit in the heat exchanger
- › 15% increased heating capacity at high relative humidity (2°CDB/1°CWB and RH=83%) vs previous model
- › Shorter defrost and heat up time, compared to standard VRV heat pump
- › Very economical solution as a smaller outdoor unit model can be used compared to the standard series

- › 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: possibility to combine VRV with stylish indoor units (Daikin Emura, Nexura, ...)
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor, ...
- › Free combination of outdoor units to meet installation space or efficiency requirements
- › Wide piping flexibility: 30m indoor height difference, maximum piping length: 190m, total piping length: 500m
- › Less installation time and smaller footprint compared to previous model thanks to removal of function unit



Already fully compliant to LOT 21 - Tier 2

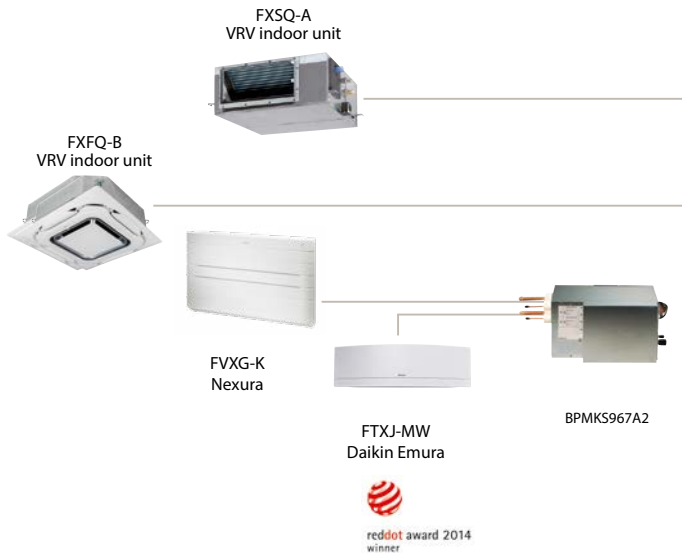
Published data with real-life indoor units



Access all technical information on RXYLQ-T at my.daikin.eu or click here

Outdoor unit		RXYLQ	10T	12T	14T
Capacity range		HP	10	12	14
Cooling capacity	Prated,c	kW	28	33.5	40
Heating capacity	Prated,h	kW	31.5	37.5	45
	Max. 6°CWB	kW	31.50	37.50	45.00
Recommended combination			4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	1 x FXMQ50P7VEB + 5 x FXMQ63P7VEB
ηs,c		%	251.4	274.4	270.1
ηs,h		%	144.3	137.6	137.1
SEER			6.36	6.93	6.83
SCOP			3.68	3.51	3.5
Maximum number of connectable indoor units				64 (1)	
Indoor index connection	Min.		175	210	245
	Nom.		250	300	350
	Max.		325	390	455
Dimensions	Unit HeightxWidthxDepth	mm	1,685x1,240x765		
Weight	Unit	kg	302		
Sound power level	Cooling Nom.	dBa	77	81	81
Sound pressure level	Cooling Nom.	dBa	56	59	59
Operation range	Cooling Min.~Max.	°CDB	-5.0~43.0		
	Heating Min.~Max.	°CWB	-25.0~16.0		
Refrigerant	Type/GWP		R-410A/2,087.5		
	Charge	kg/TCO2Eq	11.8/24.6		
Piping connections	Liquid OD	mm	9.5		12.7
	Gas OD	mm	22.2		28.6
	Total piping System Actual length	m	500		
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)	A	25		32

Outdoor unit		RXYLQ	16T	18T	20T	22T	24T	26T	28T
System	Outdoor unit module 1		RXMLQ8T	RXYLQ10T	RXYLQ10T	RXYLQ10T	RXYLQ12T	RXYLQ12T	RXYLQ14T
	Outdoor unit module 2		RXMLQ8T	RXMLQ8T	RXYLQ10T	RXYLQ12T	RXYLQ12T	RXYLQ14T	RXYLQ14T
Capacity range		HP	16	18	20	22	24	26	28
Cooling capacity	Prated,c	kW	44.8	50.4	56	61.5	67	73.5	80
Heating capacity	Prated,h	kW	-						
	Max. 6°CWB	kW	50	56.5	63	69	75	82.5	90
Recommended combination			4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	2 x FXMQ50P7VEB + 6 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	4 x FXMQ50P7VEB + 4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	7 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB
ηs,c		%	261.8	255.7	251.4	263.0	274.4	270.8	270.1
ηs,h		%	138.0	140.5	144.3	140.3	137.6	137.1	137.1
SEER			3.52	3.59	3.68	3.58	3.51	3.50	3.50
SCOP			6.62	6.47	6.36	6.65	6.93	6.84	6.83
Maximum number of connectable indoor units			64 (1)						
Indoor index connection	Min.		280	315	350	385	420	455	490
	Nom.		400	450	500	550	600	650	700
	Max.		520	585	650	715	780	845	910
Piping connections	Liquid OD	mm	12.7	15.9	15.9	15.9	15.9	19.1	
	Gas OD	mm	28.6	28.6	28.6	28.6		34.9	
	Total piping System Actual length	m	500						
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)	A	40	45	50		60		



RXYLQ-T

Connectable stylish indoor units

		20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS
Daikin Emura - Wall mounted unit	FTXJ-MW/MS	•	•	•		•
Stylish - Wall mounted unit	FTXA-A	•	•	•	•	•
Nexura - Floor standing unit	FVXG-K		•	•		•
Floor standing unit	FVXM-F		•	•		•

BPMKS box needed to connect RA indoors to VRV IV

Outdoor unit		RXYLQ	30T	32T	34T	36T	38T	40T	42T	
System	Outdoor unit module 1	RXYLQ10T	RXYLQ10T	RXYLQ10T	RXYLQ10T	RXYLQ12T	RXYLQ12T	RXYLQ12T	RXYLQ14T	
	Outdoor unit module 2	RXYLQ10T	RXYLQ10T	RXYLQ12T	RXYLQ12T	RXYLQ12T	RXYLQ12T	RXYLQ14T	RXYLQ14T	
	Outdoor unit module 3		RXYLQ12T				RXYLQ14T			
Capacity range	HP	30	32	34	36	38	40	42		
Cooling capacity	Prated,c kW	84	89,5	95	101	107	114	120		
Heating capacity	Prated,h kW				-					
	Max. 6°CWB kW	94,5	100,5	106,5	112,5	120	127,5	135		
Recommended combination		9 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	8 x FXMQ63P7VEB + 4 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 9 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	2 x FXMQ50P7VEB + 10 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	6 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	9 x FXMQ50P7VEB + 9 x FXMQ63P7VEB	12 x FXMQ63P7VEB + 4 x FXMQ80P7VEB		
ηs,c	%	251.4	259.1	266.8	274.4	271.6	270.3	270.1		
ηs,h	%	144.3	141.6	139.2	137.6	137.1	137.1	137.1		
SEER		3.86	3.61	3.56	3.51	3.50	3.50	3.50		
SCOP		6.36	6.55	6.74	6.93	6.86	6.83	6.83		
Maximum number of connectable indoor units			64 (1)							
Indoor index connection	Min.		525	560	595	630	665	700	735	
	Nom.		750	800	850	900	950	1000	1050	
	Max.		975	1040	1105	1170	1235	1300	1365	
Piping connections	Liquid OD	mm	19,1	19,1	19,1	19,1	19,1	19,1	19,1	
	Gas OD	mm	34,9	34,9	34,9	41,3		41,3		
	Total piping System Actual length	m	500							
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50/380-415							
Current - 50Hz	Maximum fuse amps (MFA)	A	80				90			

Outdoor unit		RXMLQ	8T
Dimensions	Unit HeightxWidthxDepth	mm	1,685x1,240x765
Weight	Unit	kg	302
Sound power level	Cooling Nom.	dBa	75,0
Sound pressure level	Cooling Nom.	dBa	55,0
Operation range	Cooling Min.~Max.	°CDB	-5.0~43.0
	Heating Min.~Max.	°CWB	-25.0~16.0
Refrigerant	Type/GWP		R-410A/2,087.5
	Charge	kg/TCO2Eq	11.8/24.6
Piping connections	Liquid OD	mm	9.5
	Gas OD	mm	19.1
	Total piping System Actual length	m	500
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50/380-415
Current - 50Hz	Maximum fuse amps (MFA)	A	20

(1) Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system