





# Supporting a circular economy of refrigerants



# Towards a circular economy of refrigerants

With L∞P by Daikin we want to step away from producing more waste. Instead we will reuse what is already available, in a qualitative way.

- Saves over 400,000 kg of virgin refrigerant being produced every year
- Greatly reduces the CO<sub>2</sub> footprint of refrigerant production with 72%!

# For units produced and sold in Europe

- > Exclusive to Daikin reclaimed gas is now used in our units
- > Administratively allocated to VRV and chillers produced and sold in Europe

For more information visit www.daikin.eu/loop-by-daikin



# The most extensive VRV range on the market



VRV i-series



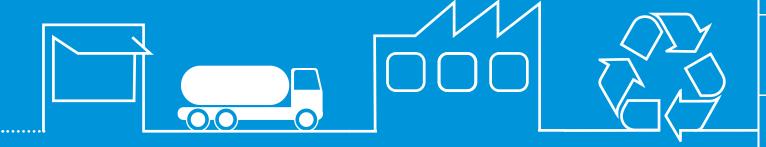
**VRV S-series** 



VRV W-series



Heat recovery, heat pump and replacement series



#### Recover

We recover your old refrigerant for you from any unit and any brand.

#### Reclaim

The refrigerant is reclaimed in Europe, meaning regenerated in a high-quality way, in line with F-gas regulation definition.

#### Reuse

The reclaimed refrigerant is mixed with virgin refrigerant. The refrigerant's quality is certified by an independent laboratory. It meets AHRI 700 certified standards.



72% lower CO<sub>2</sub> fooprint for production

#### For every application, a solution



Heat recovery with unique



Heat pump models with unique during defrost



Dedicated hot and cold climate



Space saving mini VRV solutions,



The invisible VRV, a unique solution when the outdoor unit must



existing systems in the most cost-effective way



Water-cooled heat recovery and



A complete total solution integrating a wide range of indoor units, air curtains, hot water hydroboxes and ventilation units including air handling units







### Perial Asset Management

L∞P by Daikin is assisting clients in creating their own circular economy of refrigerants



Perial Asset Management (Perial AM) manages a diverse real estate portfolio mainly located in France and increasingly in Europe. The company is committed to reducing energy and water consumption as part of a continuous improvement process.

The arrival of new tenants at an office building in Boulogne-Billancourt spurred Perial Asset Management's decision to carry out renovation work to meet Perial AM's CSR objectives.

Constructed in the 1990s, the refurbished building extends over a surface area of 4,200 m² comprising the ground floor and seven stories, including offices and creating a 1,800 m² ERP area. Working with Perial Asset Management (Perial AM), Daikin installed new VRV units with reclaimed refrigerant at their office building, while recycling the R-410A refrigerant from the old units to use it as a field charge for the new system.

Daikin is the only manufacturer in the market able to offer customers a holistic approach to reusing their refrigerant in new projects via its L∞P by Daikin program.

## Las Arenas historic hotel, opts for sustainable upgrade

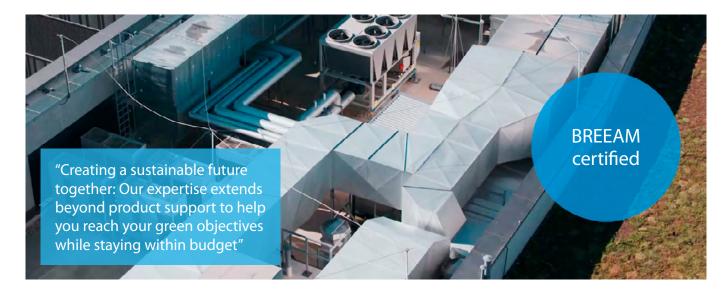
- > Choosing a sustainable replacement solution was on top of the agenda
- Separate temperature zones enable every room to be controlled individually, adjusting the comfort conditions to suit the individual or activity
- > 88 outdoor units were replaced in a record six months
- > A true circular economy example:
  - > Reuse of copper piping and indoor units
  - > Reuse of regenerated refrigerant



#### L1 complex Multifunctional building with BREEAM certification

 A total solution, including VRV heat pumps, multiple scroll chillers and Air Handling Units (AHUs), centrally managed through Daikin's Intelligent Touch Manager mini BMS

- Daikin's Accredited Professionals (AP's)
   collaborated with the project team to maximise the building's BREEAM rating
- Daikin heat pumps can contribute in 6 out of 10 BREEAM categories, adding up to 30 credits







#### Innovation in detail

#### L∞P by Daikin

Make a positive choice and reuse refrigerant to avoid more than 400,000 kg of virgin gas being produced each year.

Insprired to help?

Find out more about Daikin's initiatives to build a circular economy of refrigerants: <a href="www.daikin.eu/building-a-circular-economy">www.daikin.eu/building-a-circular-economy</a>



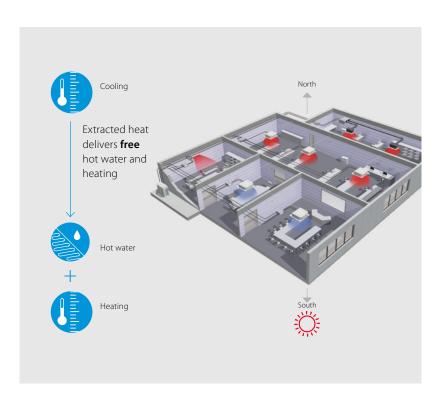
## "Free" heat and hot water production

An integrated heat recovery system reuses heat from offices, server rooms, to warm other areas or create hot water.

#### Maximum comfort

A VRV heat-recovery system allows simultaneous cooling and heating.

- For hotel owners, this means a perfect environment for guests as they can freely choose between cooling or heating.
- > For offices, it means a perfect working indoor climate for both north and south-facing offices.



CONTROL

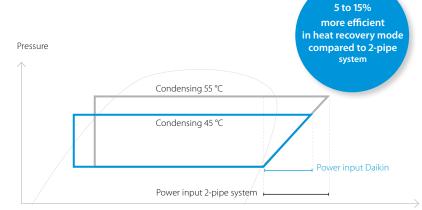
Advantages

of 3-pipe technology

#### More "free" heat

Daikin 3-pipe technology needs less energy to recover heat, meaning significantly higher efficiency during heat recovery mode. Our system can recover heat at a low condensing temperature because it has dedicated gas, liquid and discharge pipes.

In a 2-pipe system, gas and liquid travel as a mixture so the condensing temperature needs to be higher in order to separate the mixed gas and liquid refrigerant. The higher condensing temperature means more energy is used to recover heat resulting in lower efficiency.



Enthalpy

#### Lower pressure drop means more efficiency

- Smooth refrigerant flow in 3-pipe system thanks to 2 smaller gas pipes results in higher energy efficiency
- Disturbed refrigerant flow in large gas pipe on
   2-pipe system results in bigger pressure drop

# Pressure 3-pipe VRV H/R 2-pipe system

Pipe length

#### Maximum design flexibility and installation speed

- > Quickly and flexibly design your system with a unique range of single and multi BS boxes.
- A wide variety of compact and lightweight multi BS boxes greatly reduces installation time.
- > Free combination of single and multi BS boxes

#### Single port



BS1Q 10,16,25A

#### Multi port: 4 – 6 – 8 – 10 – 12 – 16



BS 4 Q14 A



BS 6, 8 Q14 A



BS 10, 12 O14 A



BS 16 O14 A

#### **VRV IV+ heat recovery**

#### Best efficiency & comfort solution

- > Fully integrated solution with heat recovery for maximum efficiency with COPs of up to 8!
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- > "Free" heating and hot water production provided by transferring heat from areas requiring cooling to areas requiring heating or hot water
- > The perfect personal comfort for guests/tenants via simultaneous cooling and heating
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor
- Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.

- > 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: 1,000m
- Possibility to extend the operation range in cooling down to -20°C for technical cooling operation such as server rooms
- > Contains all standard VRV features





Already fully compliant to LOT 21 - Tier 2

For units made and sold in Europe\*

#### Published data with real-life indoor units

Outdoor unit			REYQ	8U		10U	12	U	14U	1	6U	18U		20U	
Capacity range			HP	8		10	12	2	14		16	18		20	
Cooling capacity	Prated,c		kW	22.4		28.0	33	.5	40.0		15.0	50.4		52.0	
Heating capacity	Prated,h		kW	22.4		28.0	33	.5	40.0		15.0	50.4		56.0	
	Max.	6°CWB	kW	25.0		31.5	37	.5	45.0	5	0.0	56.5		63.0	
Recommended cor	mbination			4x FXFQ50	AVEB 4x	FXFQ63AVEE	6x FXFQ		FXFQ50AVE		Q63AVEB + Q80AVEB	3x FXFQ50A\ 5x FXFQ63A		FQ50AVEB (FQ63AVEB	
ηs,c			%	286.	l	264.8	257	7.0	255.8	2	43.1	250.6		246.7	
ηs,h			%	165.1		169.7	183	3.8	168.3	1	67.5	172.5		162.7	
SEER				7.2		6.7		6.5			6.2	6.3		6.2	
SCOP				4.2		4.3	4.	7		4.3		4.4		4.1	
Maximum number	of connec	table indoor units							64 (1)						
Indoor index	Min.			100.0	)	125.0	150	0.0	175.0	2	0.00	225.0		250.0	
connection	Nom.								-						
	Max.			260.0	)	325.0	390	0.0	455.0	5	20.0	585.0		650.0	
Dimensions	Unit	HeightxWidthxDepth	mm		1,6	585x930x765	5				1,685x1,240x765				
Weight	Unit		kg			230					,,				
Sound power level	Cooling	Nom.	dBA	78.0		79.1	83	.4	80.9	3	85.6 83.8			87.9	
•	Heating	Prated,h	dBA	79.6		80.9	83	.5	83.9	8	36.9	85.3		89.8	
Sound pressure	Cooling	Nom.	dBA		57.0		61	.0	60.0	6	53.0	62.0		65.0	
level															
Operation range	Cooling	Min.~Max.	°CDB						-5.0 ~43.0						
	Heating	Min.~Max.	°CWB						-20.0 ~15.5						
Refrigerant	Type/GW	P						F	R-410A/2,087	7.5					
•	Charge		kg/TCO2Eq	9.7/20.2		9.8/20.5	9.9/20.7				11.8/24.6				
Piping connections	Liquid	OD	mm		9.52				12.7		15.9				
	Gas	OD	mm	19.1		22.2					28.6				
	HP/LP	OD	mm	15.9			19.1			2	22.2				
	gas														
	Total piping length	System Actual	m					1,000							
Power supply	Phase/Fre	equency/Voltage	Hz/V		3N~/50/380-415										
Current - 50Hz	Maximun	n fuse amps (MFA)	Α	20		25		32			40			50	
Outdoor unit syst	om.		REYQ	10U	13U	16U	18U	20U	22U	24U	26U	28U	2011	32U	
System		unit module 1	REIQ		Q5U	100	REYQ8U	200	REYQ10U		200		300	REYQ16U	
Jysteiii	Outuoui								RETUIOU			REYQ12U			
•	Outdoor					VOOLI		DEV	(O12L)	DEVO1611	DEVO1/I	I DEVO1611	DEVO1011	32	
	Outdoor	unit module 2	ШΒ	REMQ5U	RE	YQ8U	REYQ10U		Q12U			-	-		
Capacity range			HP	REMQ5U 10	RE 13	16	REYQ10U 18	20	22	24	26	28	30		
Capacity range Cooling capacity	Prated,c		kW	10 28.0	RE 13 36.4	16 44.8	REYQ10U 18 50.4	20 55.9	22 61.5	24 67.4	26 73.5	28 78.5	30 83.9	90.0	
Capacity range	Prated,c Prated,h	unit module 2	kW kW	REMQ5U 10 28.0 28.0	RE 13 36.4 36.4	16 44.8 44.8	REYQ10U 18 50.4 50.4	20 55.9 55.9	22 61.5 61.5	24 67.4 67.4	26 73.5 73.5	28 78.5 78.5	5.0 6  317  3.8 5.3 8  5.3 8  5.0 0 0  15.9  15.9  15.9  20  20  20  30  30  30  30  30  30  30	90.0 90.0	
Capacity range Cooling capacity Heating capacity	Prated,c Prated,h Max.		kW	REMQ5U 10 28.0 28.0 32.0	RE 13 36.4 36.4 41.0	16 44.8 44.8 50.0	REYQ10U 18 50.4 50.4 56.5	20 55.9 55.9 62.5	22 61.5 61.5 69.0	24 67.4 67.4 75.0	26 73.5 73.5 82.5	28 78.5 78.5 87.5	30 83.9 83.9 94.0	90.0 90.0 100.0	
Capacity range Cooling capacity	Prated,c Prated,h Max.	unit module 2	kW kW	REMQ5U 10 28.0 28.0 32.0	RE 13 36.4 36.4 41.0	16 44.8 44.8 50.0 + 4xFXFQ63AVEB+	REYQ10U 18 50.4 50.4 56.5	20 55.9 55.9 62.5	22 61.5 61.5 69.0 6xFXFQ50AVEB+	24 67.4 67.4 75.0	26 73.5 73.5 82.5 7x FXFQSOAVEB	28 78.5 78.5 87.5 + 6x FXFQ50AVEB+	30 83.9 83.9 94.0 9x FXFQ50AVEB+	90.0 90.0 100.0	
Capacity range Cooling capacity Heating capacity Recommended cor	Prated,c Prated,h Max.	unit module 2	kW kW	REMQ5U 10 28.0 28.0 32.0 4x FXFQ63AVEB	RE 13 36.4 36.4 41.0 3x FXFQ50AVEB 3x FXFQ63AVEB	16 44.8 44.8 50.0 + 4xFXFQ63AVEB+ 3 2xFXFQ80AVEB	REYQ10U 18 50.4 50.4 56.5 4x FXFQ50AVEB+ 4x FXFQ63AVEB	20 55.9 55.9 62.5 10x FXFQ50AVEB	22 61.5 61.5 69.0 8 6x FXFQSOAVEB + 4x FXFQG3AVEB	24 67.4 67.4 75.0 4x FXFQ50AVEB + 4x FXFQ63AVEB + 2x FXFQ80AVEB	26 73.5 73.5 82.5 7x FXFQ50AVEB 5x FXFQ63AVEB	28 78.5 78.5 87.5 6x FXFQ50AVEB+ 4x FXFQ63AVEB+ 2x FXFQ80AVEB	30 83.9 83.9 94.0 9x FXFQ50AVEB + 5x FXFQ63AVEB	90.0 90.0 100.0 8x FXFQ63AVEB 4x FXFQ80AVE	
Capacity range Cooling capacity Heating capacity Recommended cor	Prated,c Prated,h Max.	unit module 2	kW kW kW	REMQ5U 10 28.0 28.0 32.0 4x FXFQ63AVEB	RE 13 36.4 36.4 41.0 3x FXFQ50AVEB 3x FXFQ63AVEB 301.3	16 44.8 44.8 50.0 + 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6	REYQ10U 18 50.4 50.4 56.5 4x FXFQ50AVEB+ 4x FXFQ63AVEB 272.9	20 55.9 55.9 62.5 10x FXFQ50AVEB	22 61.5 61.5 69.0 8 6x FXFQSOAVEB + 4x FXFQG3AVEB 260.4	24 67.4 67.4 75.0 4x FXFQ50AVEB + 2x FXFQ80AVEB 257.7	26 73.5 73.5 82.5 7x FXFQ50AVEB 5x FXFQ63AVEB	28 78.5 78.5 87.5 6x FXFQ50AVEB + 4x FXFQ63AVEB + 2x FXFQ80AVEB 251.9	30 83.9 83.9 94.0 9x FXFQ50AVEB + 5x FXFQ63AVEB 266.8	90.0 90.0 100.0 8x FXFQ63AVEE 4x FXFQ80AVE	
Capacity range Cooling capacity Heating capacity Recommended cor ns,c ns,h	Prated,c Prated,h Max.	unit module 2	kW kW kW	REMQ5U 10 28.0 28.0 32.0 4xFXFQ63AVEB 275.1 158.8	RE 13 36.4 36.4 41.0 3x FXFQ50AVEB 3x FXFQ63AVEI 301.3 160.6	16 44.8 44.8 50.0 + 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6 168.2	REYQ10U 18 50.4 50.4 56.5 4x FXFQ50AVEB+ 4x FXFQ63AVEB 272.9 167.9	20 55.9 55.9 62.5 10x FXFQ50AVEB 266.0 175.7	22 61.5 61.5 69.0 8 6x FXFQ50AVEB + 4x FXFQ63AVEB 260.4 178.5	24 67.4 67.4 75.0 4x FXFQ50AVEB + 4x FXFQ63AVEB + 2x FXFQ80AVEB 257.7 167.6	26 73.5 73.5 82.5 7x FXFQ50AVEB 5x FXFQ63AVEB 257.5 175.5	28 78.5 78.5 87.5 + 6x FXFQ50AVEB + 4x FXFQ63AVEB + 2x FXFQ80AVEB 251.9 174.8	30 83.9 83.9 94.0 9x FXFQ50AVEB + 5x FXFQ63AVEB 266.8 179.4	90.0 90.0 100.0 8xFXFQ63AVEB 4xFXFQ80AVE 243.1 169.1	
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Capacity range Cooling capacity Heating capacity Recommended cor  ns,c ns,h SEER SCOP Maximum number Indoor index	Prated,c Prated,h Max. nbination of connect Min. Nom.	unit module 2 6°CWB	kW kW kW	REMQ5U 10 28.0 28.0 32.0 32.0 4xFXFQ63AVEB 275.1 158.8 7.0 4.0	RE 13 36.4 36.4 41.0 3x FXFQSAVEB 3x FXFQSAVEB 301.3 160.6 7.6 4.1	16 44.8 44.8 50.0 + 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6 168.2 7.3 4	REYQ10U 18 50.4 50.4 56.5 56.5 4x FXFQSOAVEB+ 4x FXFQSIAVEB 272.9 167.9 6.9 3	20 55.9 55.9 62.5 10x FXFQSOAVEB 266.0 175.7 6.7	22 61.5 69.0 6 KENFOSOAVEB + 4xFKFGSAVEB 260.4 178.5 6.6 4.5 64 (1) 275.0	24 67.4 67.4 75.0 4x FXFQS0AVEB + 4x FXFQS0AVEB + 2x FXFQS0AVEB + 257.7 167.6 4.3	26 73.5 73.5 82.5 %FXFQSAVEB \$x FXFQGAVEB 257.5 175.5 4.5	28 78.5 78.5 87.5 87.5 46 XFXFQS0AVEB + 44 XFXFQS0AVEB 22 FXFQS0AVEB 22 FXFQS0AVEB 251.9 174.8 6.4 4.4	30 83.9 83.9 94.0 9x XFQS0AVEB + 5x FXFQG3AVEB 266.8 179.4 6.7 4.6	90.0 90.0 100.0 8x FXFQ63AVEB 4x FXFQ80AVE 243.1 169.1 6.2 4.3	
Capacity range Cooling capacity Heating capacity Recommended cor  ns,c ns,h SEER SCOP Maximum number Indoor index connection	Prated,c Prated,h Max. nbination of connect Min. Nom. Max.	enit module 2  6°CWB  table indoor units	kW kW kW	REMQSU 10 28.0 28.0 32.0 32.0 4xFXF063AVEB 275.1 158.8 7.0 4.0 125.0	RE 13 36.4 36.4 41.0 3x FXFQSDAVEB 3x FXFQGSAVEB 301.3 160.6 7.6 4.1 163.0	16 44.8 44.8 50.0 + 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6 168.2 7.3 4 200.0	REYQ10U 18 50.4 50.4 56.5 4x FXFQ50AVEB+ 4x FXFQ63AVEB 272.9 167.9 6.9	20 55.9 55.9 62.5 10x FXFQS0AVEB 266.0 175.7 6.7	22 61.5 61.5 69.0 6 KXFQSOAVEB + 4xFXFQG3AVEB 260.4 178.5 6.6 4.5 64 (1) 275.0	24 67.4 67.4 75.0 4xFXFQ50AVEB + 4xFXFQ63AVEB + 2x FXFQ80AVEB 257.7 167.6 4.3	26 73.5 73.5 82.5 7x FXFQS0AVEB 5x FXFQ63AVEB 257.5 175.5 5.5	28 78.5 78.5 87.5 87.5 46 XFXFQS0AVEB + 44 XFXFQS0AVEB 22 FXFQS0AVEB 22 FXFQS0AVEB 251.9 174.8 6.4 4.4 350.0	30 83.9 83.9 94.0 %FXFQSONVEB+ \$xFXFQSONVEB 266.8 179.4 6.7 4.6	90.0 90.0 100.0 8xFXFQ63AVEE 4xFXFQ80AVE 243.1 169.1 6.2 4.3	
Capacity range Cooling capacity Heating capacity Recommended cor  ŋs,c ŋs,h SEER SCOP Maximum number Indoor index connection	Prated,c Prated,h Max. nbination  of connect Min. Nom. Max. s Liquid	6°CWB	kW kW kW	REMQ5U 10 28.0 28.0 32.0 32.0 4xFXFQ63AVEB 275.1 158.8 7.0 4.0 125.0 9.52	RE 13 36.4 36.4 41.0 3x FXFQSDAVEB 3x FXFQGSAVEB 301.3 160.6 7.6 4.1 163.0	16 44.8 44.8 50.0 + 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6 168.2 7.3 4	REYQ10U 18 50.4 50.4 56.5 4x FXFQ50NVEB+ 4x FXFQ50NVEB 272.9 167.9 6.9 .3	20 55.9 55.9 62.5 10x FXFQS0AVEB 266.0 175.7 6.7	22 61.5 69.0 6 KENFOSOAVEB + 4xFKFGSAVEB 260.4 178.5 6.6 4.5 64 (1) 275.0	24 67.4 67.4 75.0 4x FXFQS0AVEB + 4x FXFQS0AVEB + 2x FXFQS0AVEB + 257.7 167.6 4.3	26 73.5 73.5 82.5 %FXFQSAVEB \$x FXFQGAVEB 257.5 175.5 4.5	28 78.5 78.5 87.5 87.5 6XFXFQ50AVEB + 4XFXFQ50AVEB 251.9 174.8 6.4 4.4 350.0	30 83.9 83.9 94.0 9x XFQS0AVEB + 5x FXFQG3AVEB 266.8 179.4 6.7 4.6	90.0 90.0 100.0 8xFXFQ63AVEB 4xFXFQ80AVE 243.1 169.1 6.2 4.3	
Capacity range Cooling capacity Heating capacity Recommended cor  ns,c ns,h SEER SCOP Maximum number Indoor index	Prated,c Prated,h Max. mbination of connect Min. Nom. Max. b Liquid Gas	6°CWB table indoor units OD OD	kW kW kW	REMQ5U 10 28.0 28.0 32.0 4x FXFQ63AVEB 7.0 4.0 125.0 9.52 22.2	RE 13 36.4 36.4 41.0 3xFXFQS0AVEB 3xFXFQGAVEB 301.3 160.6 7.6 4.1 163.0	16 44.8 44.8 50.0 4 **XFXFQ63AVEB+ 2 **XFXFQ80AVEB 288.6 168.2 7.3 4 200.0 520.0	REYQ10U 18 50.4 50.4 50.4 56.5 44 FXF050AVEB+44 FXF063AVEB 272.9 167.9 6.9 .3 225.0 585.0	20 55.9 55.9 62.5 10x FXFQS0AVEB 266.0 175.7 6.7	22 61.5 61.5 69.0 6 KXFQSOAVEB + 4xFXFQG3AVEB 260.4 178.5 6.6 4.5 64 (1) 275.0	24 67.4 67.4 75.0 4x FXFQS0AVEB + 4x FXFQS0AVEB + 2x FXFQS0AVEB + 257.7 167.6 4.3	26 73.5 73.5 82.5 7xFXFQSAVEB 5xFXFQSAVEB 257.5 175.5 .5 4.5	28 78.5 78.5 87.5 87.5 46 XFXFQS0AVEB + 44 XFXFQS0AVEB 22 FXFQS0AVEB 22 FXFQS0AVEB 251.9 174.8 6.4 4.4 350.0	30 83.9 83.9 94.0 %FXFQSONVEB+ \$xFXFQSONVEB 266.8 179.4 6.7 4.6	90.0 90.0 100.0 8xFXFQ63AVEE 4xFXFQ80AVE 243.1 169.1 6.2 4.3	
Capacity range Cooling capacity Heating capacity Recommended cor  ns,c ns,h SEER SCOP Maximum number Indoor index connection	Prated,c Prated,h Max. mbination of connec Min. Nom. Max. s Liquid Gas HP/LP	6°CWB	kW kW kW	REMQ5U 10 28.0 28.0 32.0 4x FXFQ63AVEB 7.0 4.0 125.0 9.52 22.2	RE 13 36.4 36.4 41.0 3x FXFQSDAVEB 3x FXFQGSAVEB 301.3 160.6 7.6 4.1 163.0	16 44.8 44.8 50.0 4 **XFXFQ63AVEB+ 2 **XFXFQ80AVEB 288.6 168.2 7.3 4 200.0 520.0	REYQ10U 18 50.4 50.4 56.5 4x FXFQ50NVEB+ 4x FXFQ50NVEB 272.9 167.9 6.9 .3	20 55.9 55.9 62.5 10x FXFQS0AVEB 266.0 175.7 6.7	22 61.5 61.5 69.0 6 KXFQSOAVEB + 4xFXFQG3AVEB 260.4 178.5 6.6 4.5 64 (1) 275.0	24 67.4 67.4 75.0 4x FXFQS0AVEB + 4x FXFQS0AVEB + 2x FXFQS0AVEB + 257.7 167.6 4.3	26 73.5 73.5 82.5 %FXFQSAVEB \$x FXFQGAVEB 257.5 175.5 4.5	28 78.5 78.5 87.5 87.5 6XFXFQ50AVEB + 4XFXFQ50AVEB 251.9 174.8 6.4 4.4 350.0	30 83.9 83.9 94.0 %FXFQSONVEB+ \$xFXFQSONVEB 266.8 179.4 6.7 4.6	90.0 90.0 100.0 8xFXFQ63AVE 4x FXFQ80AVE 243.1 169.1 6.2 4.3	
Capacity range Cooling capacity Heating capacity Recommended cor  ns,c ns,h SEER SCOP Maximum number Indoor index connection	Prated,c Prated,h Max. mbination of connect Min. Nom. Max. s Liquid Gas HP/LP	6°CWB  table indoor units  OD OD	kW kW kW	REMQSU 10 28.0 28.0 32.0 4xFXFQGAVEB 275.1 158.8 7.0 4.0 125.0 325.0 9.52 22.2	RE 13 36.4 36.4 41.0 3xFXFQS0AVEB 3xFXFQGAVEB 301.3 160.6 7.6 4.1 163.0	16 44.8 44.8 50.0 + 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6 168.2 7.3 4 200.0 520.0	REYQ10U 18 50.4 50.4 50.4 56.5 44 FXF050AVEB+44 FXF063AVEB 272.9 167.9 6.9 .3 225.0 585.0	20 55.9 55.9 62.5 10x FXFQS0AVEB 266.0 175.7 6.7	22 61.5 61.5 69.0 6 KXFQSOAVEB + 4xFXFQG3AVEB 260.4 178.5 6.6 4.5 64 (1) 275.0	24 67.4 67.4 75.0 4x FXFQS0AVEB + 4x FXFQS0AVEB + 2x FXFQS0AVEB + 257.7 167.6 4.3	26 73.5 73.5 82.5 7xFXFQS0AVEB 5xFXFQS0AVEB 257.5 175.5 4.5 325.0 845.0	28 78.5 78.5 87.5 87.5 46 XFXFQS0AVEB + 34 XFXFQS0AVEB 251.9 174.8 6.4 4.4 350.0 910.0	30 83.9 83.9 94.0 %FXFQSONVEB+ \$xFXFQSONVEB 266.8 179.4 6.7 4.6	90.0 90.0 100.0 8xFXF063AVEE 4x FXFQ80AVE 243.1 169.1 6.2 4.3	
Capacity range Cooling capacity Heating capacity Recommended cor  ns,c ns,h SEER SCOP Maximum number Indoor index connection	Prated,c Prated,h Max. nbination  of connect Min. Nom. Max. Liquid Gas HP/LP gas Total piping	6°CWB table indoor units OD OD	kW kW kW	REMQSU 10 28.0 28.0 32.0 4xFXFQGAVEB 275.1 158.8 7.0 4.0 125.0 325.0 9.52 22.2	RE 13 36.4 36.4 41.0 3xFXFQS0AVEB 3xFXFQGAVEB 301.3 160.6 7.6 4.1 163.0	16 44.8 44.8 50.0 4 **XFXFQ63AVEB+ 2 **XFXFQ80AVEB 288.6 168.2 7.3 4 200.0 520.0	REYQ10U 18 50.4 50.4 50.4 56.5 44 FXF050AVEB+44 FXF063AVEB 272.9 167.9 6.9 .3 225.0 585.0	20 55.9 55.9 62.5 10x FXFQS0AVEB 266.0 175.7 6.7	22 61.5 61.5 69.0 6 KXFQSOAVEB + 4xFXFQG3AVEB 260.4 178.5 6.6 4.5 64 (1) 275.0	24 67.4 67.4 75.0 4x FXFQS0AVEB + 4x FXFQS0AVEB + 2x FXFQS0AVEB + 257.7 167.6 4.3	26 73.5 73.5 82.5 7xFXFQS0AVEB 5xFXFQS0AVEB 257.5 175.5 4.5 325.0 845.0	28 78.5 78.5 87.5 87.5 6XFXFQ50AVEB + 4XFXFQ50AVEB 251.9 174.8 6.4 4.4 350.0	30 83.9 83.9 94.0 %FXFQSONVEB+ \$xFXFQSONVEB 266.8 179.4 6.7 4.6	90.0 90.0 100.0 8x FXFQ63AVEB 4x FXFQ80AVE 243.1 169.1 6.2 4.3	
Capacity range Cooling capacity Heating capacity Recommended cor ns,c ns,h SEER SCOP Maximum number Indoor index connection Piping connections	Prated,c Prated,h Max. nbination  of connect Min. Nom. Max. s Liquid Gas HP/LP gas Total piping length	6°CWB  table indoor units  OD OD OD OD System Actual	kW kW kW % %	REMQSU 10 28.0 28.0 32.0 4xFXFQGAVEB 275.1 158.8 7.0 4.0 125.0 325.0 9.52 22.2	RE 13 36.4 36.4 41.0 3xFXFQS0AVEB 3xFXFQGAVEB 301.3 160.6 7.6 4.1 163.0	16 44.8 44.8 50.0 + 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6 168.2 7.3 4 200.0 520.0	REYQ10U 18 50.4 50.4 50.4 56.5 44 FXF050AVEB+44 FXF063AVEB 272.9 167.9 6.9 .3 225.0 585.0	20 55.9 55.9 62.5 10x FXFQS0AVEB 266.0 175.7 6.7 250.0	22 61.5 69.0 60 KFXFQSOAVEB + 4xFXFQSIAVEB 260.4 178.5 6.6 4.5 64 (1) 275.0 - 715.0 5.9	24 67.4 67.4 75.0 4x FXFQSONVEB + 4x FXFQSGAVEB + 2x FXFQSONVEB - 44.3 300.0 780.0	26 73.5 73.5 82.5 7xFXFQS0AVEB 5xFXFQS0AVEB 257.5 175.5 4.5 325.0 845.0	28 78.5 78.5 87.5 87.5 46 XFXFQS0AVEB + 34 XFXFQS0AVEB 251.9 174.8 6.4 4.4 350.0 910.0	30 83.9 83.9 94.0 %FXFQSONVEB+ \$xFXFQSONVEB 266.8 179.4 6.7 4.6	90.0 90.0 100.0 8x FXFQ63AVEB 4x FXFQ80AVE 243.1 169.1 6.2 4.3	
Capacity range Cooling capacity Heating capacity Recommended cor  ns,c ns,h SEER SCOP Maximum number Indoor index connection	Prated,c Prated,h Max. mbination  of connect Min. Nom. Max. Liquid Gas HP/LP gas Total piping length Phase/Free	6°CWB  table indoor units  OD OD	kW kW kW	REMQSU 10 28.0 28.0 32.0 4x FXFQ63AVEB 7.0 4.0 125.0 325.0 9.52 22.2	RE 13 36.4 36.4 41.0 3xFXFQS0AVEB 3xFXFQGAVEB 301.3 160.6 7.6 4.1 163.0	16 44.8 44.8 50.0 + 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6 168.2 7.3 4 200.0 520.0	REYQ10U 18 50.4 50.4 50.4 50.6 45.6.5 44.FXF050AVEB + 44.FXF063AVEB 272.9 167.9 6.9 .3 225.0 585.0 28.6	20 55.9 55.9 62.5 10x FXFQS0AVEB 266.0 175.7 6.7 250.0	22 61.5 61.5 69.0 6 KXFQSOAVEB + 4xFXFQG3AVEB 260.4 178.5 6.6 4.5 64 (1) 275.0	24 67.4 67.4 75.0 4x FXFQS0AVEB + 3x FXFQS0AVEB + 2x FXFQS0AVEB + 257.7 167.6 4.3 300.0 780.0	26 73.5 73.5 82.5 7xFXFQS0AVEB 5xFXFQS0AVEB 257.5 175.5 4.5 325.0 845.0	28 78.5 78.5 87.5 87.5 46 XFXFQS0AVEB + 34 XFXFQS0AVEB 251.9 174.8 6.4 4.4 350.0 910.0	30 83.9 83.9 94.0 9xFKPQSAVEB+5xFXPQSAVEB 266.8 179.4 6.7 4.6 375.0	90.0 90.0 100.0 8x FXFQ63AVEB 4x FXFQ80AVE 243.1 169.1 6.2 4.3	

YRY IV<sup>†</sup>







More details and final information can be found by scanning or clicking the QR codes.





<b>Outdoor unit syst</b>	em		REYQ	34U	36U	38U	40U	42U	44U	46U	48U	50U	52U	54U
System	Outdoor unit module 1			REYQ16U		REYQ8U REY		Q10U REYQ12U REYQ14U		REYQ16L			REYQ18U	
	Outdoor unit module 2			REYQ18U REYQ20U		REYQ12U		REYQ16U					REYQ18U	
	Outdoor	unit module 3			-	REY	Q18U		REY	Q16U			REYQ18U	
Capacity range			HP	34	36	38	40	42	44	46	48	50	52	54
Cooling capacity	Prated,c		kW	95.4	97.0	106.3	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
Heating capacity	Prated,h		kW	95.4	101.0	106.4	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
	Max.	6°CWB	kW	106.5	113.0	119.0	125.5	131.5	137.5	145.0	150.0	156.5	163.0	169.5
Recommended cor	mbination			9x FXFQ63AVEB + 2x FXFQ80AVEB	+ 2x FXFQ80AVEB	10x FXFQ63AVEB	9x FXFQ63AVEB	+ 4x FXFQ80AVEB	6x FXFQ50AVEB + 8x FXFQ63AVEB + 4x FXFQ80AVEB	13x FXFQ63AVEB + 4x FXFQ80AVEB	+ 6x FXFQ80AVEB	-	14x FXFQ63AVEB +2x FXFQ80AVEB	9x FXFQ50AVEB + 15x FXFQ63AVE
ηs,c			%	259.2	255.3	269.2	259.6	250.2	249.3	246.8	243.1	254.4	265.7	275.2
ηs,h			%	172.0	166.3	176.0	176.1	167.8	171.9	168.8	168.5	170.3	171.7	173.3
SEER				6.6	6.5	6.8	6.6		i.3	6	5.2	6.4	6.7	7.0
SCOP				4.4	4.2	4	.5	4.3	4.4		4.3		4	.4
Maximum number		table indoor units						1	64 (1)					
Indoor index	Min.			425.0	450.0	475.0	500.0	525.0	550.0	575.0	600.0	625.0	650.0	675.0
connection	Nom.								-					
	Max.			1,105.0	1,170.0	1,235.0	1,300.0	1,365.0	1,430.0	1,495.0	1,560.0	1,625.0	1,690.0	1,755.0
Piping connections Liquid		OD	mm						19.1					
	Gas	OD	mm	34.9		41.3								
	HP/LP gas OD mm			28.6 34.9										
	length	System Actual	m		1,000									
Power supply		equency/Voltage	Hz/V		3N~/50/380-415									
Current - 50Hz	Maximur	n fuse amps (MFA)	Α	8	30			100				1.	25	
Outdoor unit mod	lule		REMQ						5U					
Dimensions	Unit	HeightxWidthxDepth	mm					1,	685x930x7	65				
Weight	Unit		kg	230										
Fan	External static Max. Pa				78									
Sound power level	Cooling	Nom.	dBA	78.0										
Sound pressure level	Cooling	Nom.	dBA	· · ·										
Operation range	Cooling	Min.~Max.	°CDB	-5.0 ~43.0										
,	Heating	Min.~Max.	°CWB			-20.0 ~15.5								
Refrigerant	Type/GW							R	-410A/2,08					
	Charge	•	kg/TCO2Eg						9.7/20.2					
Power supply		equency/Voltage	Hz/V	3N~/50/380-415										
Current - 50Hz		n fuse amps (MFA)	A					۱۱۰	20					
Current Jone	muximu	mase umps (WIIA)							20					

(1)Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system (50% ≤ CR ≤ 120%)

Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system (50% ≤ CR ≤ 120%) | Contains fluorinated greenhouse gases

\*EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

#### VRV IV+ heat pump

#### Daikin's optimum solution with top comfort

- > By choosing a LOOP by Daikin product you support the reuse of refrigerant, for more information visit www.daikin.eu/loop-by-daikin
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Perfera)
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor
- > Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.

- > Free combination of outdoor units to meet installation space or efficiency requirements
- > Available as heating only by irreversible field setting
- > Contains all standard VRV features





Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

Outdoor unit		RYYC	/RXYQ	8U	10	U	12U	14U	16U		18U	20U		
Capacity range			HP	8	10	0	12	14	16		18	20		
Cooling capacity	Prated,c		kW	22.4	28	3.0	33.5	40.0	45.0		50.4	52.0		
Heating capacity	Prated,h		kW	22.4	28	.0	33.5	3.5 40.0			50.4	56.0		
	Max.	6°CWB	kW	25.0	31	.5	37.5	45.0	50.0		56.5	63.0		
Recommended cor	mbination			4x FXFQ50AV	EB 4x FXFQ	63AVEB 6	x FXFQ50AVEB	1x FXFQ50AVEB 5x FXFQ63AVEB				x FXFQ50AVEB + 5x FXFQ63AVEB		
ης,ς			%	302.4	26	7.6	247.8	250.7	236.5	; ;	238.3	233.7		
ηs,h			%	167.9	168	3.2	161.4	155.4	157.8		163.1	156.6		
SEER				7.6	6.	.8	6.	3		6.0		5.9		
SCOP					4.3		4.1		4.0		4.2	4.0		
Maximum number	of connec	table indoor units						64 (1)						
Indoor index	Min.			100.0	125	5.0	150.0	175.0	200.0	) :	225.0	250.0		
connection	Max.			260.0 325		5.0	390.0	455.0	520.0		585.0	650.0		
Dimensions	Unit	HeightxWidthxDepth	mm		1,685x9	30x765			1,6	585x1,240x76	55			
Weight	Unit		kg		19	18			75 30					
Sound power level	Cooling	Nom.	dBA	78.0	79	9.1	83.4	80.9	85.6	85.6 83.8		87.9		
•	Heating	Prated,h	dBA	79.6	80	).9	83.5	83.1	86.5		85.3	89.8		
Sound pressure leve	l Cooling	Nom.	dBA		57.0		61.0	60.0	63.0			65.0		
Operation range	Cooling	Min.~Max.	°CDB					-5.0 ~43.0						
.,	Heating	Min.~Max.	°CWB				-20.0 ~15.5							
Refrigerant	Type/GW	P						R-410A/2,087.5	5					
	Charge		kg/TCO2Eq	5.9/12.3	6.0/	12.5	6.3/13.2	10.3/21.5	11.3/23	.6 11	7/24.4	11.8/24.6		
Piping connections		OD	mm	0.17,1210	9.52			12.7	11107.20		15.9			
	Gas	OD	mm	19.1		.2			28.6					
		System Actual	m		19.1 22.2 28.6 1,000									
Power supply		equency/Voltage	Hz/V					3N~/50 /380-4	15					
Current - 50Hz	Maximun	n fuse amps (MFA)	Α	20	2	5	32	2		40		50		
Outdoor unit syst	em	RYYC	/RXYQ	22U	24U	26U	28U	30U	32U	34U	36U	38U		
System	Outdoor	unit module 1		RXYQ10U	RXYQ8U		RXYQ12U			RXYQ16U		RXYQ8U		
	Outdoor	unit module 2		RXYQ12U	RXYQ16U	RXYQ14I	J RXYQ16U	RXYQ18U	RXYQ16U	RXYQ18U	RXYQ20U	RXYQ10U		
	Outdoor	unit module 3						-				RXYQ20U		
Capacity range			HP	22	24	26	28	30	32	34	36	38		
Cooling capacity	Prated,c		kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4		
Heating capacity	Prated,h		kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	101.0	106.4		
	Max.	6°CWB	kW	69.0	75.0	82.5	87.5	94.0	100.0	106.5	113.0	119.5		
Recommended cor	mbination			6x FXFQ50AVEB + 4x FXFQ63AVEB	4x FXFQ50AVEB + 4x FXFQ63AVEB + 2x FXFQ80AVEB			+ 5x FXFQ63AVEB	8x FXFQ63AVEB + 4x FXFQ80AVEB	3x FXFQ50AVEB + 9x FXFQ63AVEB - 2x FXFQ80AVEB		+ 10x FXFQ63AVEB		
ηs,c			%	274.5	269.9	264.2	257.8	256.8	251.7	253.3	250.8	272.4		
ηs,h			%	171.2	167.0	164.6	166.0	169.8	163.1	166.2	162.4	167.5		
SEER				6.9	6.8	6.7		6.5	6	.4	6.3	6.9		
SCOP				4.4	4.3		4.2	4.3	4	.2	4.1	4.3		
Maximum number	of connect	table indoor units						64 (1)						
maximum mamma ci							350.0	375.0	400.0	425.0	450.0	475.0		
Indoor index	Min.			275.0	300.0	325.0	350.0	3/3.0						
				275.0	300.0	325.0	350.0	-						
Indoor index	Min.			275.0 715.0	780.0	325.0 845.0	910.0		1,040.0	1,105.0	1,170.0	1,235.0		
Indoor index	Min. Nom. Max.	OD	mm		780.0			-		1,105.0	1,170.0	1,235.0		
Indoor index connection	Min. Nom. Max.	OD OD	mm mm	715.0	780.0		910.0	-	1,040.0	1,105.0		1,235.0 41.3		
Indoor index connection	Min. Nom. Max. s Liquid Gas			715.0 15	780.0		910.0	975.0	1,040.0	1,105.0				
Indoor index connection	Min. Nom. Max. s Liquid Gas Total piping	OD	mm	715.0 15	780.0		910.0	975.0 94.9	1,040.0 19.1	1,105.0				