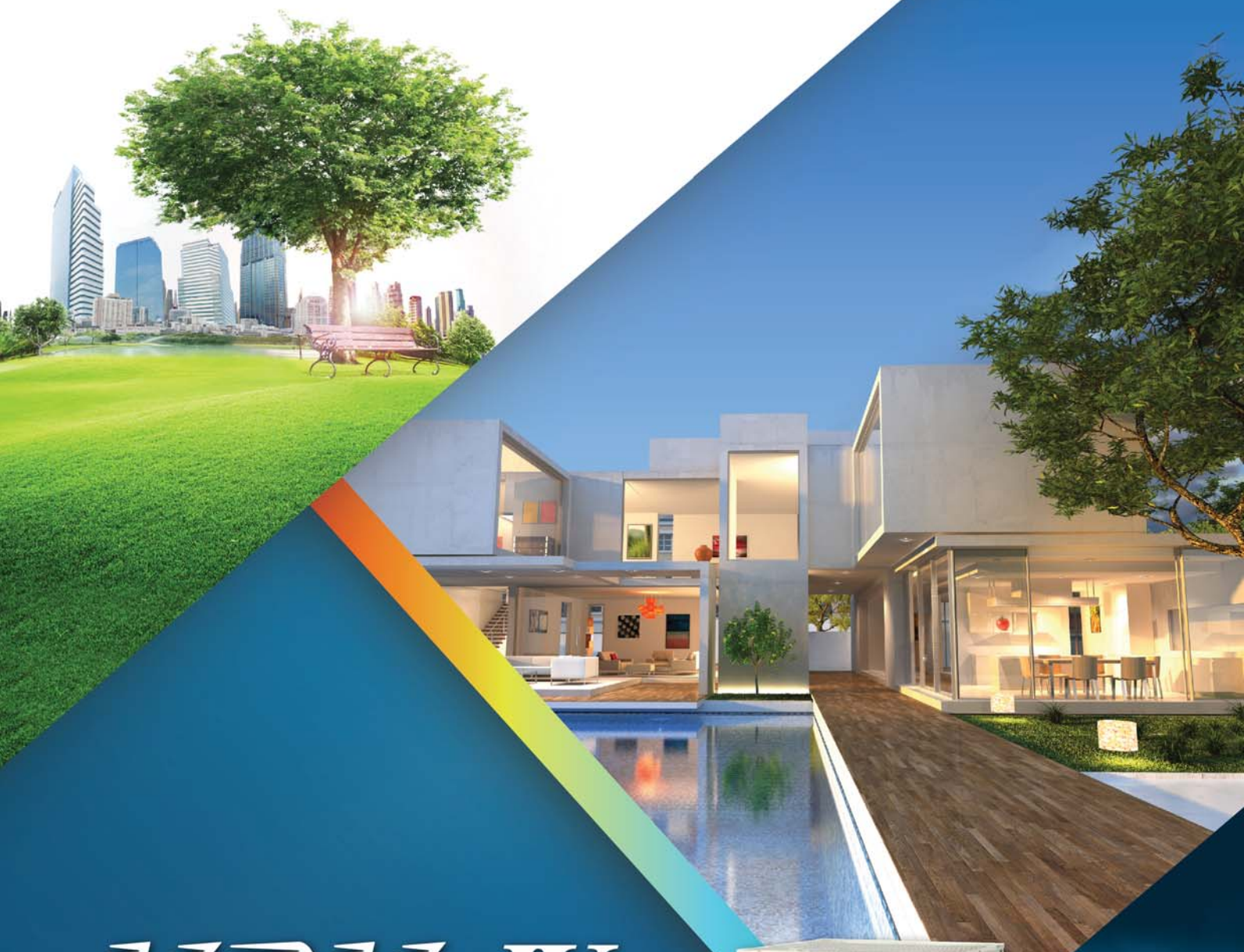


**DAIKIN**

**R-410A**

50 Hz



**VRV IV**

**HEAT RECOVERY  
HOT WATER SYSTEM**



# Exceeding Boundari Innovative Energy Sa



New

First launched in Japan in 1982, the Daikin VRV by world markets for over 35 years. Now, Daikin the new VRV X and A series. By combining the tech VRV, VRT and VAV, we have attained both energy comfortable air conditioning.

## VRV+VRT

### Energy savings

Uniting **VRV**, VRT and VAV technologies

### Automatic refrigerant charge function

- Optimised operation efficiency
- Higher installation quality
- Easier installation

# es with vings

system has been embraced  
proudly introduces  
ologies of  
savings and

# +VAV

## Contents

<b>Background of VRV development</b>	<b>3</b>
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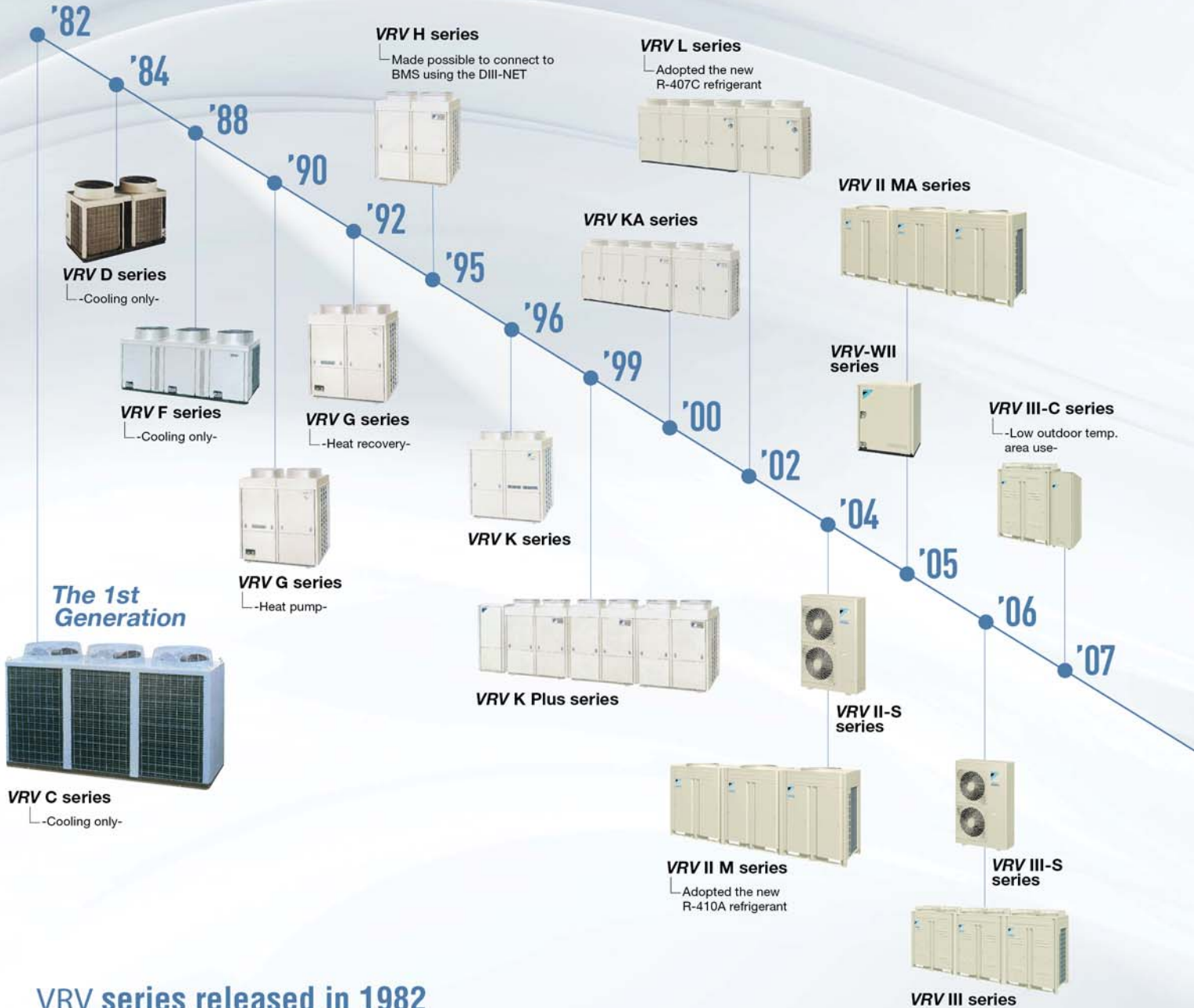
### High reliability

- New inverter PC board
- Double backup operation
- Refrigerant cooling for PC board

• VRV is a trademark of Daikin Industries, Ltd.

# Development history

To meet the needs of the times, we've been continuously developing technologies as the leading air conditioning manufacturer in the world.



## VRV series released in 1982

<The birth of innovative products that changed the history of air conditioning technology>

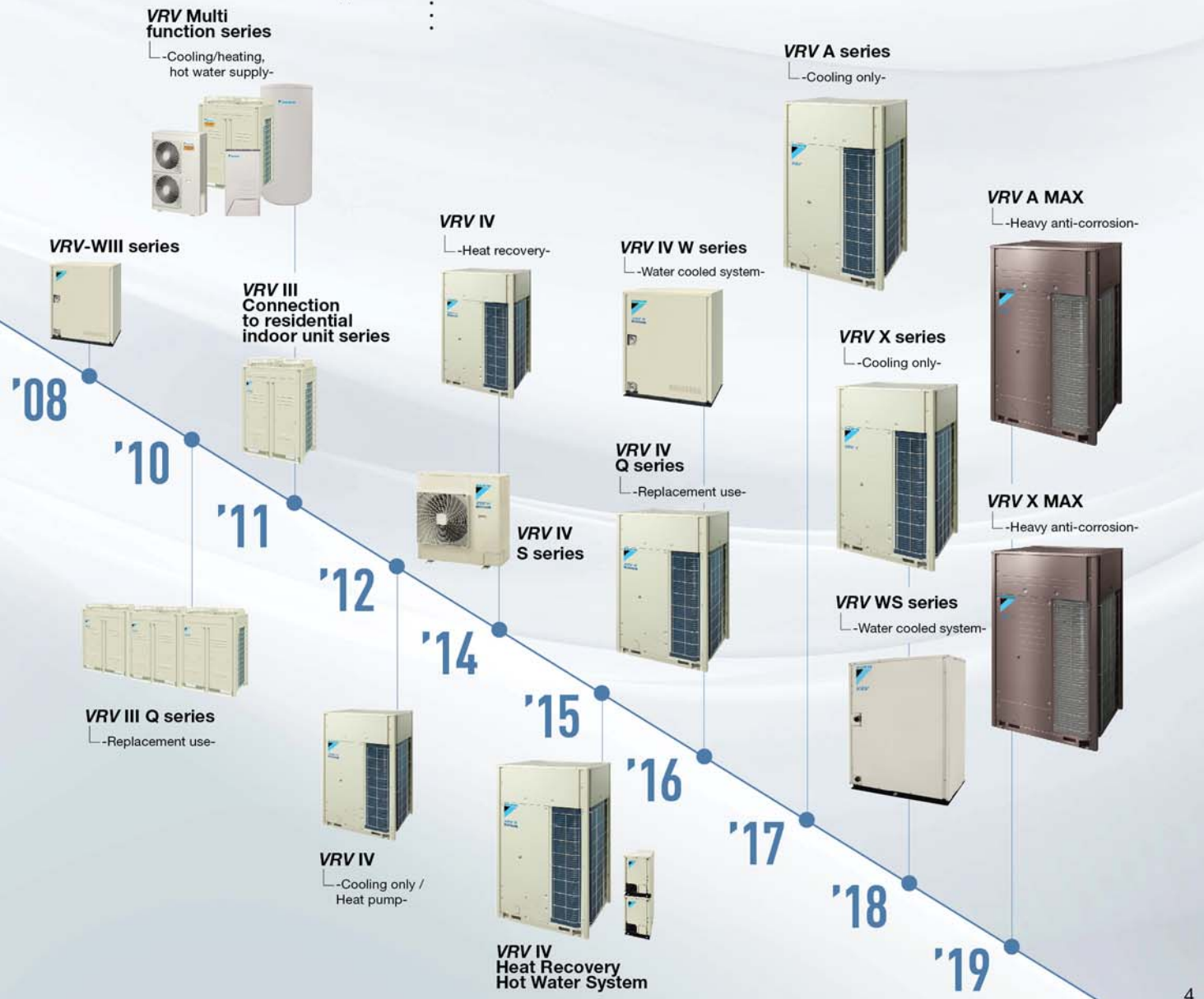
- 2.5-year development term
- Completion of development in May, 1982
- Technical award of Japan Society of Refrigerating & Air-conditioning Engineers in 1983



\* VRV is a trademark of Daikin Industries, Ltd.

# Expansion of the country of sale

Sales is undergoing in more than 70 countries



# VRV User Benefits

For property  
**OWNERS**

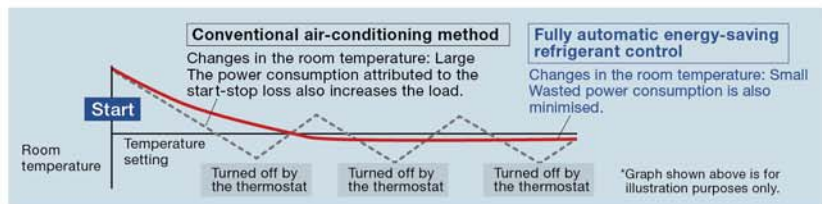
First launched in 1982, the Daikin **VRV** system has been providing comfort and reliability to building owners and their tenants for over 35 years. Leveraging the latest in energy-saving technology, Daikin has further improved energy savings while reducing space requirements. This added value is one reason why Daikin is the right choice for building owners.

## Energy saving & comfortable environment

Based on the idea of using only as much space as absolutely required, Daikin first launched its commercial multi-split air conditioning systems in 1982. Since then, customers have benefitted from much increased energy efficiency. Now, our revolutionary new systems dramatically reduce energy with VRT Smart Control. During operating periods, control programs ensure thermal loading is generally low, thus boosting energy efficiency. This greatly reduces the amount of energy required for building air conditioning.

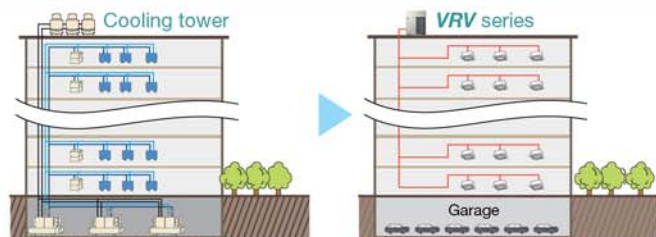


While optimally operating at low load, it maintains a comfortable indoor environment.



## Efficient space utilisation

Daikin **VRV** system can be used to develop a large-scale air conditioning system on a single refrigerant system, thus reducing the space required for air conditioning equipment. Because the difference in height between the indoor and the outdoor unit can be as large as 90 m, even with a 20-storey building all of the outdoor units can be placed on the rooftop for more efficient utilisation of space.



## High reliability

### Double backup operation

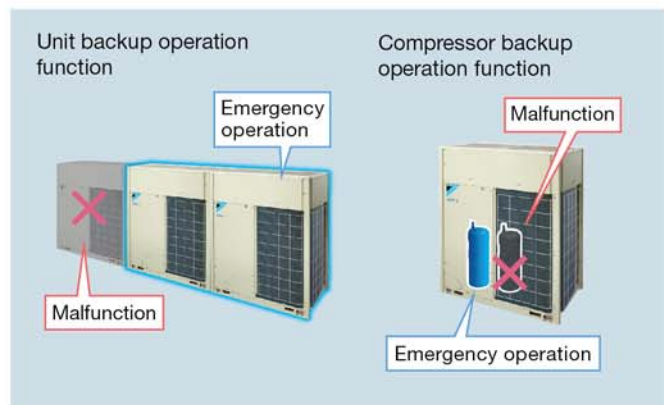
Daikin **VRV** outdoor unit goes beyond just highly reliable compressors with a backup system that ensures continued operation.

#### Unit backup

Should one outdoor unit in a multiple unit system fail, the other outdoor units switch to emergency operation. If for some reason a failure occurs, the system for that unit does not completely stop, and air conditioning is maintained.

#### Compressor backup

Since units are equipped with two compressors, even if one compressor fails, the other compressor carries on in emergency mode.



For  
**USERS**

## Comfortable environment

While operating optimally at low load, VRT smart operation maintains the indoor temperature and ensures a comfortable environment.



## Residential Indoor Units

Because indoor units developed for residential use can be connected, it is possible to realise quiet operation. You can include indoor units that operate at min.19 dB(A), and to reduce the noise of refrigerant passing through the piping by remotely installing an BP unit.



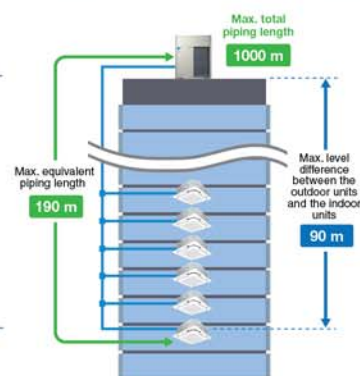
For  
**CONSULTANT  
and DESIGN  
OFFICES**

## Varied lineup of models

System applications range from family residences to large commercial buildings. With 26 types of indoor unit available, comfortable airflow is ensured in every space.

## Long piping provides more flexible system design

Greater design freedom is provided because equivalent piping between indoor and outdoor unit can run as large as 190 m and reach a maximum height difference of 90 m.



## Compatible with engineering software

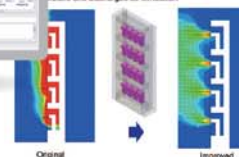
We at Daikin provide the software, the simulation results, and drawing materials to support the business-information modeling (BIM) currently entering the mainstream in construction industries.

## Energy efficient

Daikin's innovative energy-saving technology helps you to achieve your green building solution.



Floor-by-Floor Installation  
structure and discharged air simulation



For  
**INSTALLERS**

## Automatic Refrigerant Charge Function

The automatic refrigerant charge function automates the charging of the proper refrigerant amount and the closing of shut-off valves by simply pressing a switch after pre-charging. Simplified installation eliminates excessive and insufficient refrigerant charge amounts due to calculation mistakes, and this has led to higher installation quality.

## Lightweight and compact large-capacity single units

Systems can be configured with single modules providing up to 20 HP. The lightweight and compact bodies are both easy to install and can be transported in elevators.

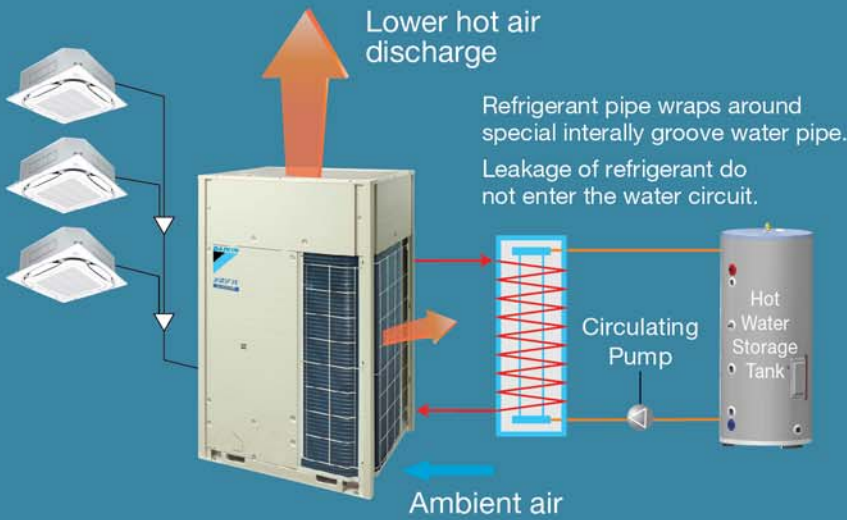
## Simple piping, easy wiring

The REFNET piping system and DIII-NET system simplify refrigerant piping and control wiring installation.



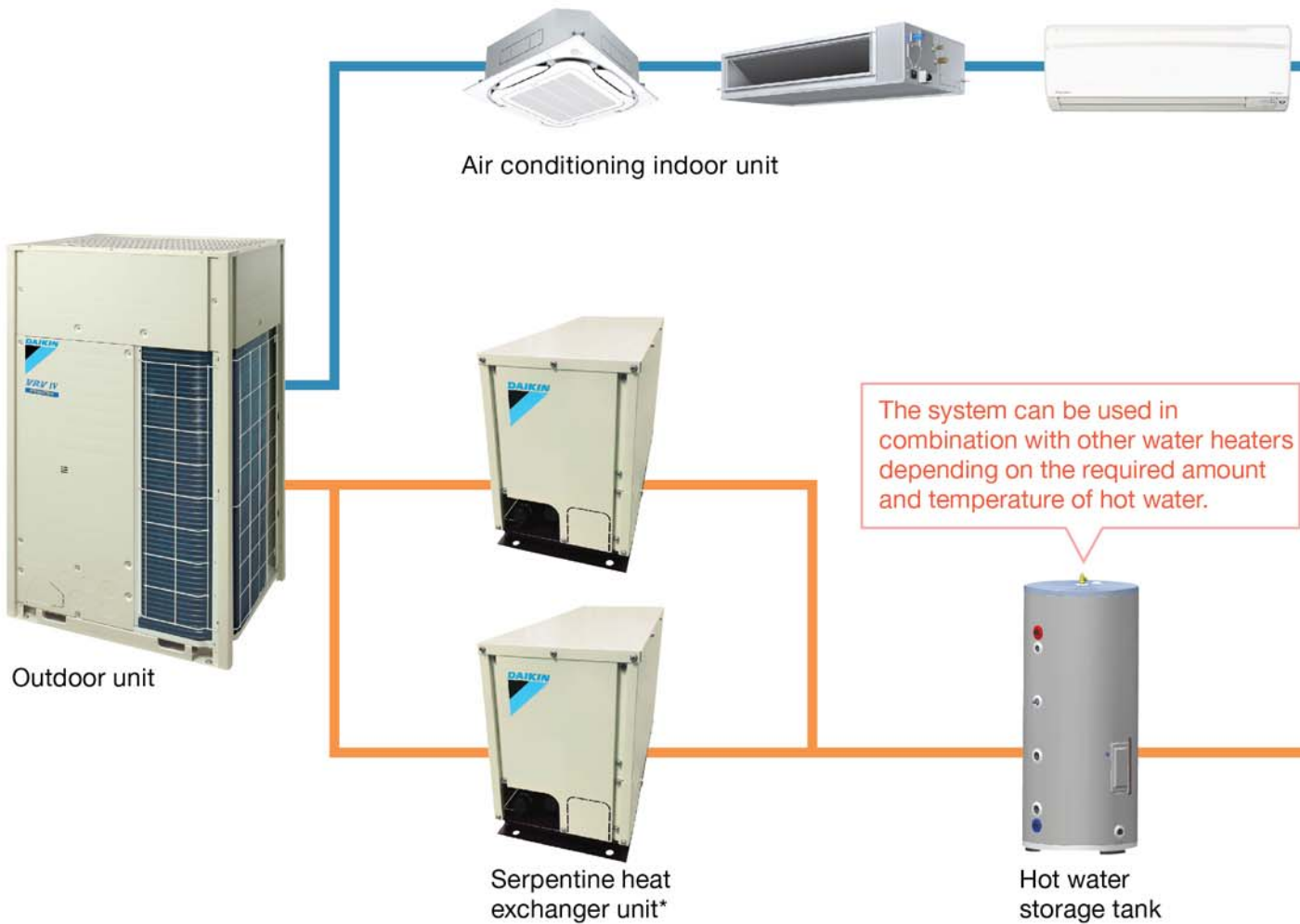
# VRV IV HEAT RECOVERY HOT WATER SYSTEM

Suitable for



RWHQ-T

Cooling Only  
**6 HP - 60 HP**  
 (16 kW) (168 kW)



Air conditioning indoor unit

Outdoor unit

Serpentine heat exchanger unit\*

Hot water storage tank

The system can be used in combination with other water heaters depending on the required amount and temperature of hot water.



Flexible combination of VRV IV indoor units achieves comfort and aesthetic

## AIR CONDITIONING



Home



Fitness gym



Hotel



Restaurant



Retirement home

Extremely energy-efficient energy source

## HOT WATER SUPPLY



Bath



Shower



Pool



Lavatory

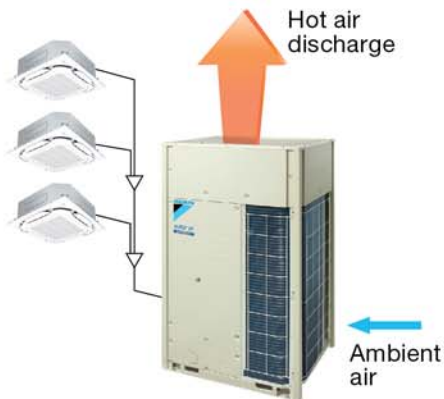


Kitchen

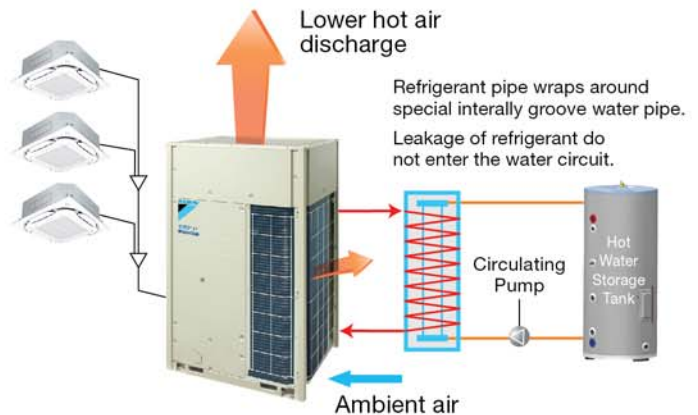
# The energy-efficient system recovers waste heat

## Waste heat from air conditioning (which usually released into the ambience) is recovered to heat water.

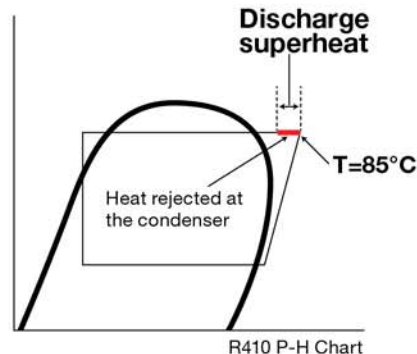
In a conventional system, waste heat from air conditioning is released into the ambience.



This system recovers waste heat from air conditioning to heat water.



During the air conditioning operation, the refrigerant is compressed by a compressor into a high-temperature, high-pressure gas. The refrigerant is then fed into the heat exchanger for heat transfer to the circulating water.



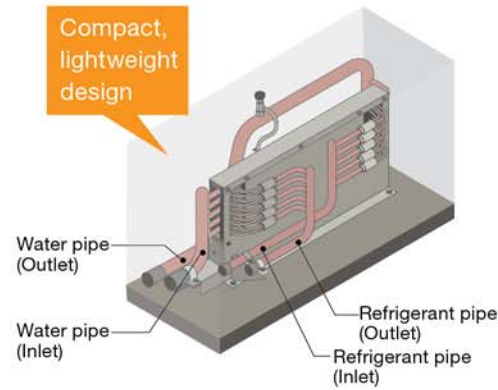
Air conditioning combined with hot water supply **Compact system**

Energy to supply hot water **Cost-effective**

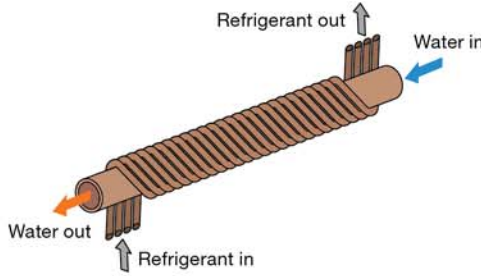
Hot water temperature **Up to 65 °C**

Can be used in combination with other water heaters depending on the required amount and temperature of hot water.

## The Serpentine Heat Exchanger Unit recovers heat.



The proprietary Serpentine Heat Exchanger achieves excellent heat exchange efficiency.



The high-temperature, high-pressure refrigerant pipe is coiled around the water pipe.



Refrigerant leakage does not contaminate water.

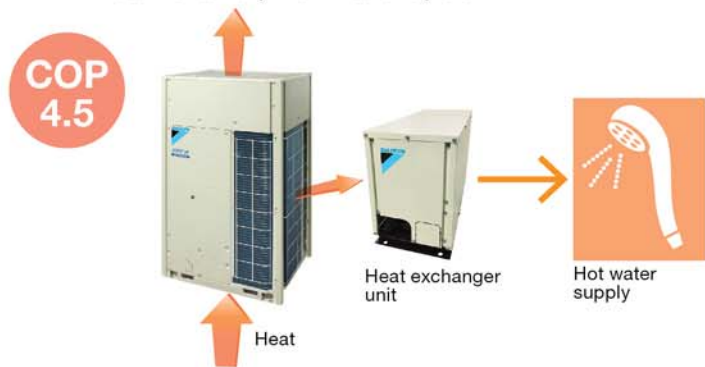
## Increased energy efficiency of the outdoor unit

The waste heat from air conditioning is transferred to heat water. This mechanism reduces the amount of heat processed by the outdoor unit, resulting in better operation efficiency.

**VRV IV**



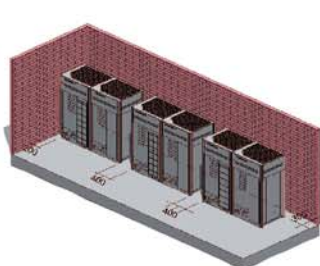
**VRV IV Heat Recovery Hot Water System**



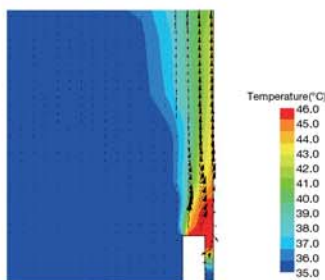
\* Comparison of air conditioning using a 6 HP outdoor unit

## Reducing short circuits

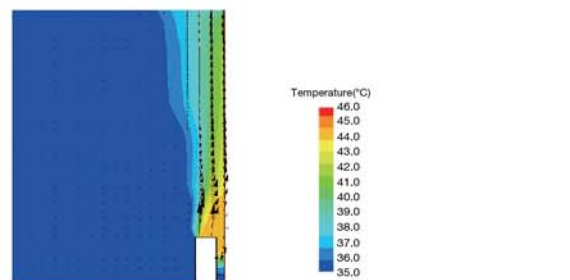
The temperature of exhaust heat from the outdoor unit is lower, minimising in ambient temperature increase. In the event of a short circuit, capacity reduction is minimised.



**VRV IV**



**VRV IV Heat Recovery Hot Water System**

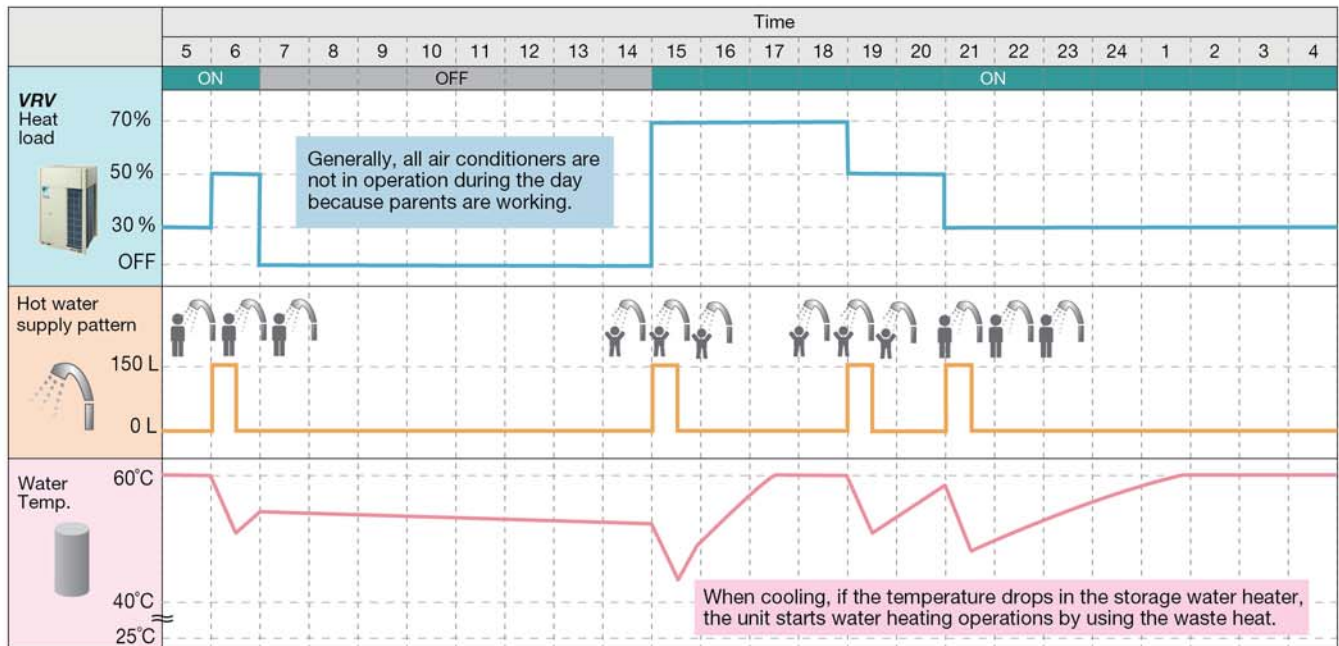
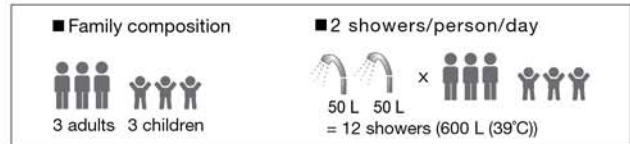


\* Comparison of air conditioning using a 6 HP outdoor unit

# Innovative and reliable system

## Example on usage of VRV IV Heat Recovery Hot Water System for residence

In a sample family model of 3 adults and 3 children, the waste heat generated by air conditioning is sufficient to supply hot water for everybody's showers.



**Air conditioner load conditions** Operation time: 16 hours/day

### Water-heating load

Tank capacity: 200 L

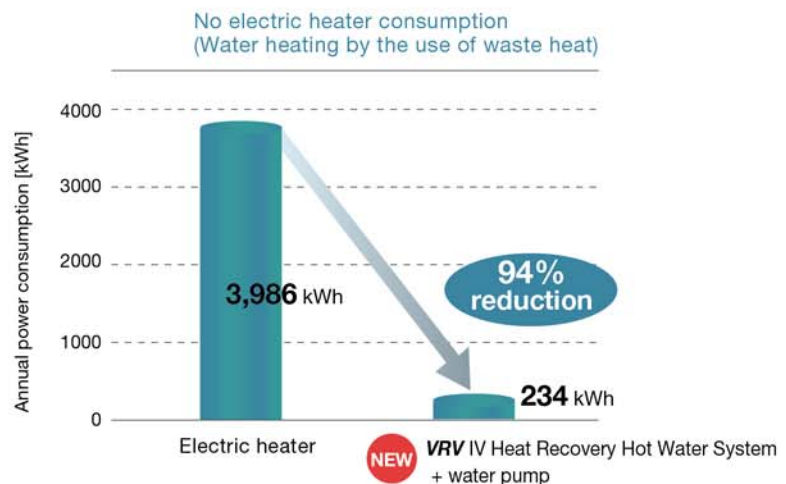
Boiling temperature: 25°C to 60°C (tap water)

Amount of hot water per person per time (standard): 50 L/shower (39°C) (water dispensed: 10 L/min.; shower time: 5 min./shower)

Amount of water required in tank to dispense 39°C hot water

## Comparison between VRV IV Heat Recovery Hot Water System and electric heater

Because waste heat is used to heat water, annual electricity consumption can be reduced approximately 94% compared with consumption for separate operation of air conditioning and an electric water heater.



# VRV IV Heat Recovery Hot Water Controller

## Features

### Convertible Remote Controller

Main Remote Control & Sub Remote Controller are both convertible and interchangeable.

### Anti-Bacteria

By default, this would be activated every Monday morning at 2am, heating storage water up to 60°C for 10 minutes.

### Vacation Mode

This disable all other functions, except for anti-bacterial mode.



**BRC82**

### Auto Restart

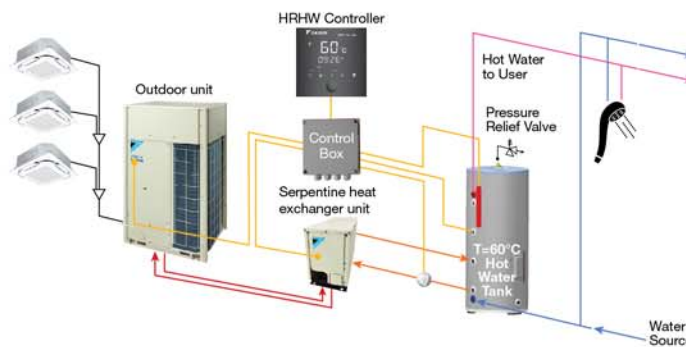
When power supply is restored after a failure, the system would revert to the last operational function.

### Safety-Error Code

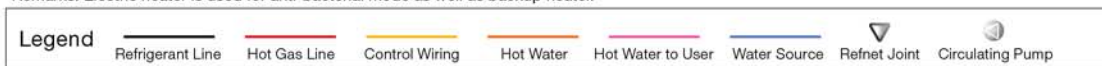
If thermistors or communication line are faulty, as a safety precaution, operation of the electric heater is disabled.

# VRV IV Heat Recovery Hot Water System overview

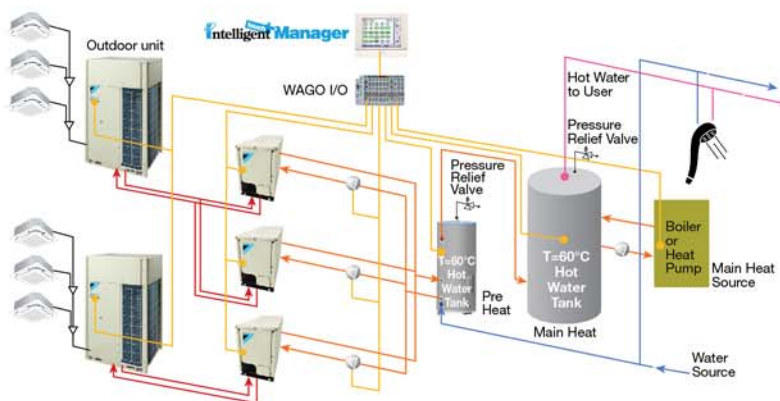
## Schematic Diagram For Residential Application



\*Remarks: Electric heater is used for anti-bacterial mode as well as backup heater.



## Schematic Diagram For Commercial Application



\*Remark: Works as a supplementary heating system to a dedicated boiler or heat pump boiler.



One of the Proposed Commercial Schematic Diagrams


























# Indoor Unit Lineup

## Enhanced range of choices

A mixed of stylish and quiet **VRV** type indoor units and residential type indoor units can be combined into one system.

### VRV indoor units

 New lineup

Type	Model Name	Capacity Range	20	25	32	40	50	63	71	80	100	125	140	200	250	400	500
			0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVS			●	●	●	●	●		●	●	●	●				
Ceiling Mounted Cassette (Round Flow)	FXFQ-AVS			●	●	●	●	●		●	●	●	●				
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVES		●	●	●	●	●										
4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●						
Ceiling Mounted Cassette (Double Flow)	<b>New</b> FXCQ-AVMS		●	●	●	●	●	●		●		●					
Ceiling Mounted Cassette (Single Flow)	FXEQ-AV36		●	●	●	●	●	●									
Slim Ceiling Mounted Duct (3D Airflow with Sensing)	<b>New</b> FXDSQ-AVM		●	●	●	●	●	●									
Slim Ceiling Mounted Duct (Standard Series)	FXDQ-PDV2S (with drain pump)	 (700mm width type)	●	●	●												
	FXDQ-PDVTS (without drain pump)		●	●	●												
	FXDQ-NDV2S (with drain pump)	 (900 / 1100mm width type)				●	●	●									
	FXDQ-NDVTS (without drain pump)					●	●	●									
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1		●	●	●	●	●	●									
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVS		●	●	●	●	●	●		●	●	●	●				
Ceiling Mounted Duct	FXMQ-PAVS		●	●	●	●	●	●		●	●	●	●				
	FXMQ-MVES													●	●		
	<b>New</b> FXMQ-PVM													●	●		
Outdoor-Air Processing Unit	FXMQ-MFV1										●		●	●			
Ceiling Suspended	FXHQ-MAVS				●			●			●						
	<b>New</b> FXHQ-AVMS											●	●				
Wall Mounted	<b>New</b> FXAQ-AVMS		●	●	●	●	●	●									
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●									
Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●									
Floor Standing Duct	FXVQ-NY1											●		●	●	●	●
	FXVQ-NY16 (high static pressure type)																
Clean Room Air Conditioner	FXBQ-PVE					●	●	●									
	FXBPQ-PVE							●									
Heat Reclaim Ventilator with DX-Coil	VKM-GAV1		Airflow rate 500-1000 m³/h														
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h														
Air Handling Unit	AHUR		<b>6-120 HP</b>														

**Residential indoor units with connection to BP units**

Type	Model Name	Rated Capacity (kW)	09	12	18	24	28
			Capacity Index	25	35	50	60
Slim Ceiling Mounted Duct	FDKS-EAVMS  (700 mm width type)		●	●			
	FDKS-C(A)VMS  (900/1,100 mm width type)		●	●	●	●	
Wall Mounted	FTKS-DVMS 		●	●			
	FTKS-FVMS 				●	●	●





Note: BP units (BPMKS967B2/3S) are necessary for residential indoor units.

\*Some model names might differ and some products might not be available depending on the country of sale. For further information, please contact one of our sales companies.

# Specifications

## VRV IV HEAT RECOVERY HOT WATER SYSTEM Series Outdoor Units

High-COP Type										
<b>MODEL</b>			RWHQ12THY1	RWHQ14THY1	RWHQ16THY1	RWHQ18THY1	RWHQ20THY1	RWHQ22THY1	RWHQ24THY1	
<b>Combination units</b>			RWHQ6TY1S	RWHQ6TY1S	RWHQ8TY1S	RWHQ6TY1S	RWHQ6TY1S	RWHQ6TY1S	RWHQ8TY1S	
			RWHQ6TY1S	RWHQ8TY1S	RWHQ8TY1S	RWHQ6TY1S	RWHQ6TY1S	RWHQ8TY1S	RWHQ8TY1S	RWHQ8TY1S
<b>Power supply</b>			3-phase 4-wire system, 380-415 V, 50 Hz							
<b>Cooling capacity</b>		Btu/h	109,000	131,000	153,000	164,000	186,000	207,000	229,000	
		Btu/h*	109,900	131,900	153,700	164,800	186,800	208,600	230,700	
		kW	32.0/32.2*	38.4/38.7*	44.8/45.1*	48.0/48.3*	54.4/54.8*	60.8/61.2*	67.2/67.6*	
<b>COP</b>			4.51	4.42	4.35	4.49	4.46	4.41	4.36	
<b>Power consumption</b>		kW	7.10	8.68	10.3	10.7	12.2	13.8	15.4	
<b>Capacity control</b>		%	10-100				7-100			
<b>Casing colour</b>			Ivory white (5Y7.5/1)							
<b>Compressor</b>			Hermetically Sealed Scroll Type							
		Type								
<b>Motor output</b>		kW	(2.4x1)+(2.4x1)	(2.4x1)+(3.4x1)	(3.4x1)+(3.4x1)	(2.4x1)+(2.4x1)+(2.4x1)	(2.4x1)+(2.4x1)+(3.4x1)	(2.4x1)+(3.4x1)+(3.4x1)	(3.4x1)+(3.4x1)+(3.4x1)	
<b>Airflow rate</b>		m <sup>3</sup> /min	119+119	119+157	157+157	119+119+119	119+119+157	119+157+157	157+157+157	
<b>Dimensions (HxWxD)</b>		mm	(1,657x930x765)+(1,657x930x765)				(1,657x930x765)+(1,657x930x765)+(1,657x930x765)			
<b>Machine weight</b>		kg	185+185				185+185+185			
<b>Sound level</b>		dB(A)	58	59		60			61	
<b>Operation range</b>		°CDB	15 to 49							
<b>Refrigerant</b>			R-410A							
		Type								
<b>Charge</b>		kg	6.4+6.4				6.4+6.4+6.4			
<b>Piping connections (Indoor unit)</b>		Liquid	φ 12.7(Brazing)				φ 15.9(Brazing)			
		Gas					φ 28.6(Brazing)			φ 34.9(Brazing)
<b>Piping connections (Heat exchanger unit)</b>		Inlet pipe	φ 19.1(Brazingx2)				φ 19.1(Brazingx3)			
		Outlet pipe	φ 19.1(Brazingx2)				φ 19.1(Brazingx3)			

High-COP Type								
<b>MODEL</b>			RWHQ42THY1	RWHQ44THY1	RWHQ46THY1	RWHQ48THY1	RWHQ50THY1	
<b>Combination units</b>			RWHQ14TY1S	RWHQ14TY1S	RWHQ14TY1S	RWHQ16TY1S	RWHQ16TY1S	
			RWHQ14TY1S	RWHQ14TY1S	RWHQ16TY1S	RWHQ16TY1S	RWHQ16TY1S	
			RWHQ14TY1S	RWHQ16TY1S	RWHQ16TY1S	RWHQ16TY1S	RWHQ18TY1S	
<b>Power supply</b>			3-phase 4-wire system, 380-415 V, 50 Hz					
<b>Cooling capacity</b>		Btu/h	409,000	427,000	444,000	461,000	478,000	
		BTU/h*	411,100	429,900	447,000	464,000	481,100	
		kW	120.0/120.5*	125.0/126.0*	130.0/131.0*	135.0/136.0*	140.0/141.0*	
<b>COP</b>			3.70	3.62	3.55	3.49	3.41	
<b>Power consumption</b>		kW	32.4	34.5	36.6	38.7	41.1	
<b>Capacity control</b>		%	4-100		3-100			
<b>Casing colour</b>			Ivory white (5Y7.5/1)					
<b>Compressor</b>			Hermetically Sealed Scroll Type					
		Type						
<b>Motor output</b>		kW	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)	(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)	
<b>Airflow rate</b>		m <sup>3</sup> /min	233+233+233					
<b>Dimensions (HxWxD)</b>		mm	(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)					
<b>Machine weight</b>		kg	285+285+285					
<b>Sound level</b>		dB(A)	65				66	
<b>Operation range</b>		°CDB	15 to 49					
<b>Refrigerant</b>			R-410A					
		Type						
<b>Charge</b>		kg	10.3+10.3+10.3	10.3+10.3+10.4	10.3+10.4+10.4	10.4+10.4+10.4	10.4+10.4+10.5	
<b>Piping connections (Indoor unit)</b>		Liquid	φ 19.1(Brazing)					
		Gas	φ 41.3(Brazing)					
<b>Piping connections (Heat exchanger unit)</b>		Inlet pipe	φ 19.1(Brazingx3)					
		Outlet pipe	φ 19.1(Brazingx3)					

Note: Specifications are based on the following conditions:

\*Cooling: Indoor temp.: 27°CDB, 19°CWB; 27°CDB, 19.5°CWB. Outdoor temp.: 35°CDB. Equivalent piping length: 7.5 m, Level difference: 0 m.

\*Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.



# RWHQ-T





RWHQ26THY1	RWHQ28THY1	RWHQ30THY1	RWHQ32THY1	RWHQ34THY1	RWHQ36THY1	RWHQ38THY1	RWHQ40THY1
RWHQ8TY1S	RWHQ8TY1S	RWHQ8TY1S	RWHQ8TY1S	RWHQ8TY1S	RWHQ8TY1S	RWHQ12TY1S	RWHQ12TY1S
RWHQ8TY1S	RWHQ8TY1S	RWHQ10TY1S	RWHQ12TY1S	RWHQ12TY1S	RWHQ14TY1S	RWHQ12TY1S	RWHQ14TY1S
RWHQ10TY1S	RWHQ12TY1S	RWHQ12TY1S	RWHQ12TY1S	RWHQ14TY1S	RWHQ14TY1S	RWHQ14TY1S	RWHQ14TY1S
3-phase 4-wire system, 380-415 V, 50 Hz							
248,000	267,000	286,000	305,000	327,000	348,000	365,000	389,000
249,900	268,900	288,000	306,900	329,300	349,700	366,800	390,700
72.8/73.3*	78.3/78.8*	83.9/84.4*	89.4/90.0*	95.9/96.5*	102.0/102.5*	107.0/107.5*	114.0/114.5*
4.16	4.08	3.94	3.89	3.85	3.82	3.73	3.74
17.5	19.2	21.3	23.0	24.9	26.7	28.7	30.5
6-100		5-100			4-100		
Ivory white (5Y7.5/1)							
Hermetically Sealed Scroll Type							
(3.4x1)+(3.4x1)+(4.1x1)	(3.4x1)+(3.4x1)+(5.2x1)	(3.4x1)+(4.1x1)+(5.2x1)	(3.4x1)+(5.2x1)+(5.2x1)	(3.4x1)+(5.2x1)+(2.9x1)+(3.3x1)	(3.4x1)+(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)	(5.2x1)+(5.2x1)+(2.9x1)+(3.3x1)	(5.2x1)+(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)
157+157+165	157+157+178	157+165+178	157+178+178	157+178+233	157+233+233	178+178+233	178+233+233
(1,657x930x765)+(1,657x930x765)+(1,657x930x765)				(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)
185+185+200		185+200+200		185+200+285	185+285+285	200+200+285	200+285+285
61	62	63	64				
15 to 49							
R-410A							
6.4+6.4+6.5	6.4+6.4+6.8	6.4+6.5+6.8	6.4+6.8+6.8	6.4+6.8+10.3	6.4+10.3+10.3	6.8+6.8+10.3	6.8+10.3+10.3
φ19.1(Brazing)							
φ34.9(Brazing)				φ41.3(Brazing)			
φ19.1(BrazingX3)							
φ19.1(BrazingX3)							

Standard Type								
MODEL			RWHQ6TY1S	RWHQ8TY1S	RWHQ10TY1S	RWHQ12TY1S	RWHQ14TY1S	RWHQ16TY1S
Combination units			-	-	-	-	-	-
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz					
Cooling capacity	Btu/h		54,600	76,400	95,500	114,000	136,000	154,000
	Btu/h*		54,900	76,900	96,000	115,000	137,300	154,400
	kW		16.0/16.1*	22.4/22.6*	28.0/28.2*	33.5/33.7*	40.0/40.3*	45.0/45.3*
COP			4.51	4.37	3.88	3.75	3.70	3.49
Power consumption	kW		3.55	5.13	7.22	8.93	10.8	12.9
Capacity control	%		20-100		16-100	15-100	11-100	10-100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically Sealed Scroll Type					
	Motor output	kW	2.4X1	3.4X1	4.1X1	5.2X1	(2.9X1)+(3.3X1)	(3.6X1)+(3.7X1)
Airflow rate	m <sup>3</sup> /min		119	157	165	178	233	
Dimensions (HxWxD)	mm		1,657X930X765				1,657X1,240X765	
Machine weight	kg		185		200		285	
Sound level	dB(A)		55	56	57	59	60	61
Operation range	°CDB		15 to 49					
Refrigerant	Type		R-410A					
	Charge	kg	6.4		6.5	6.8	10.3	10.4
Piping connections (Indoor unit)	Liquid	mm	φ9.5(Brazing)			φ12.7(Brazing)		
	Gas	mm	φ19.1(Brazing)		φ22.2(Brazing)		φ28.6(Brazing)	
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ19.1(Brazing)					
	Outlet pipe	mm	φ19.1(Brazing)					

# Specifications

## VRV IV HEAT RECOVERY HOT WATER SYSTEM Series Outdoor Units

Standard Type										
MODEL			RWHQ18TNY1	RWHQ20TNY1	RWHQ22TNY1	RWHQ24TNY1	RWHQ26TNY1	RWHQ28TNY1	RWHQ30TNY1	
Combination units			RWHQ8TY1S	RWHQ8TY1S	RWHQ8TY1S	RWHQ10TY1S	RWHQ12TY1S	RWHQ14TY1S	RWHQ14TY1S	
			RWHQ10TY1S	RWHQ12TY1S	RWHQ14TY1S	RWHQ14TY1S	RWHQ14TY1S	RWHQ14TY1S	RWHQ16TY1S	
			—	—	—	—	—	—	—	
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz							
Cooling capacity	Btu/h		172,000	191,000	213,000	232,000	251,000	273,000	290,000	
	Btu/h*		173,000	191,900	214,300	233,400	252,300	274,700	291,700	
	kW		50.4/50.7*	55.9/56.3*	62.4/62.8*	68.0/68.4*	73.5/74.0*	80.0/80.5*	85.0/85.5*	
COP			4.06	3.96	3.92	3.78	3.73	3.70	3.59	
Power consumption	kW		12.4	14.1	15.9	18.0	19.7	21.6	23.7	
Capacity control	%		8-100		7-100	6-100		5-100		
Casing colour			Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically Sealed Scroll Type							
	Motor output	kW	(3.4x1)+(4.1x1)	(3.4x1)+(5.2x1)	(3.4x1)+(2.9x1)+(3.3x1)	(4.1x1)+(2.9x1)+(3.3x1)	(5.2x1)+(2.9x1)+(3.3x1)	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)	(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)	
Airflow rate	m <sup>3</sup> /min		157+165	157+178	157+233	165+233	178+233	233+233		
Dimensions (HxWxD)	mm		(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x1,240x765)			(1,657x1,240x765)+(1,657x1,240x765)		
Machine weight	kg		185+200		185+285	200+285		285+285		
Sound level	dB(A)		60	61		62	63		64	
Operation range	°CDB		15 to 49							
Refrigerant	Type		R-410A							
	Charge	kg	6.4+6.5	6.4+6.8	6.4+10.3	6.5+10.3	6.8+10.3	10.3+10.3	10.3+10.4	
Piping connections (Indoor unit)	Liquid	mm	φ 15.9(Brazing)				φ 19.1(Brazing)			
	Gas	mm	φ 28.6(Brazing)				φ 34.9(Brazing)			
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ 19.1(BrazingX2)							
	Outlet pipe	mm	φ 19.1(BrazingX2)							

Standard Type									
MODEL			RWHQ48TNY1	RWHQ50TNY1	RWHQ52TNY1	RWHQ54TNY1	RWHQ56TNY1	RWHQ58TNY1	RWHQ60TNY1
Combination units			RWHQ14TY1S	RWHQ14TY1S	RWHQ16TY1S	RWHQ18TY1S	RWHQ18TY1S	RWHQ18TY1S	RWHQ20TY1S
			RWHQ16TY1S	RWHQ18TY1S	RWHQ18TY1S	RWHQ18TY1S	RWHQ18TY1S	RWHQ20TY1S	RWHQ20TY1S
			RWHQ18TY1S	RWHQ18TY1S	RWHQ18TY1S	RWHQ18TY1S	RWHQ20TY1S	RWHQ20TY1S	RWHQ20TY1S
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz						
Cooling capacity	Btu/h		461,000	478,000	495,000	512,000	532,000	553,000	573,000
	Btu/h*		464,000	481,100	498,200	515,200	535,700	556,200	576,600
	kW		135.0/136.0*	140.0/141.0*	145.0/146.0*	150.0/151.0*	156.0/157.0*	162.0/163.0*	168.0/169.0*
COP			3.46	3.38	3.33	3.27	3.22	3.17	3.13
Power consumption	kW		39.0	41.4	43.5	45.9	48.5	51.1	53.7
Capacity control	%		3-100						
Casing colour			Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically Sealed Scroll Type						
	Motor output	kW	(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)	(2.9x1)+(3.3x1)+(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)	(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)	(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)	(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)+(4.6x1)+(5.5x1)	(4.4x1)+(4.0x1)+(4.6x1)+(5.5x1)+(5.5x1)+(4.6x1)+(5.5x1)	(4.6x1)+(5.5x1)+(4.6x1)+(5.5x1)+(4.6x1)+(5.5x1)
Airflow rate	m <sup>3</sup> /min		233+233+233			233+233+268		233+268+268	268+268+268
Dimensions (HxWxD)	mm		(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)						
Machine weight	kg		285+285+285			285+285+320	285+320+320	320+320+320	
Sound level	dB(A)		66			67	68	69	70
Operation range	°CDB		15 to 49						
Refrigerant	Type		R-410A						
	Charge	kg	10.3+10.4+10.5	10.3+10.5+10.5	10.4+10.5+10.5	10.5+10.5+10.5	10.5+10.5+11.8	10.5+11.8+11.8	11.8+11.8+11.8
Piping connections (Indoor unit)	Liquid	mm	φ 19.1(Brazing)						
	Gas	mm	φ 41.3(Brazing)						
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ 19.1(BrazingX3)						
	Outlet pipe	mm	φ 19.1(BrazingX3)						






Note: Specifications are based on the following conditions:

\*Cooling: Indoor temp.: 27°CDB, 19°CWB.; 27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.


\*Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

# RWHQ-T

							
<b>RWHQ32TNY1</b>	<b>RWHQ34TNY1</b>	<b>RWHQ36TNY1</b>	<b>RWHQ38TNY1</b>	<b>RWHQ40TNY1</b>	<b>RWHQ42TNY1</b>	<b>RWHQ44TNY1</b>	<b>RWHQ46TNY1</b>
<b>RWHQ14TY1S</b>	<b>RWHQ10TY1S</b>	<b>RWHQ12TY1S</b>	<b>RWHQ8TY1S</b>	<b>RWHQ12TY1S</b>	<b>RWHQ12TY1S</b>	<b>RWHQ12TY1S</b>	<b>RWHQ14TY1S</b>
<b>RWHQ18TY1S</b>	<b>RWHQ12TY1S</b>	<b>RWHQ12TY1S</b>	<b>RWHQ12TY1S</b>	<b>RWHQ12TY1S</b>	<b>RWHQ14TY1S</b>	<b>RWHQ16TY1S</b>	<b>RWHQ14TY1S</b>
—	<b>RWHQ12TY1S</b>	<b>RWHQ12TY1S</b>	<b>RWHQ18TY1S</b>	<b>RWHQ16TY1S</b>	<b>RWHQ16TY1S</b>	<b>RWHQ16TY1S</b>	<b>RWHQ18TY1S</b>
3-phase 4-wire system, 380-415 V, 50 Hz							
307,000	324,000	345,000	362,000	382,000	406,000	423,000	444,000
309,000	326,200	346,300	363,400	383,900	407,700	426,500	447,000
90.0/90.6*	95.0/95.6*	101.0/101.5*	106.0/106.5*	112.0/112.5*	119.0/119.5*	124.0/125.0*	130.0/131.0*
3.45	3.78	3.77	3.61	3.64	3.65	3.57	3.52
26.1	25.1	26.8	29.4	30.8	32.6	34.7	36.9
5-100			4-100			3-100	
Ivory white (5Y7.5/1)							
Hermetically Sealed Scroll Type							
(2.9x1)+(3.3x1)+(4.4x1)+(4.0x1)	(4.1x1)+(5.2x1)+(5.2x1)	(5.2x1)+(5.2x1)+(5.2x1)	(3.4x1)+(5.2x1)+(4.4x1)+(4.0x1)	(5.2x1)+(5.2x1)+(3.6x1)+(3.7x1)	(5.2x1)+(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)	(5.2x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(4.4x1)+(4.0x1)
233+233	165+178+178	178+178+178	157+178+233	178+178+233	178+233+233		233+233+233
(1,657x1,240x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)		(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)		(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)
285+285	200+200+200		185+200+285	200+200+285	200+285+285		285+285+285
64	63	64		65		66	
15 to 49							
R-410A							
10.3+10.5	6.5+6.8+6.8	6.8+6.8+6.8	6.4+6.8+10.5	6.8+6.8+10.4	6.8+10.3+10.4	6.8+10.4+10.4	10.3+10.3+10.5
φ19.1(Brazing)							
φ34.9(Brazing)			φ41.3(Brazing)				
φ19.1(BrazingX2)		φ19.1(BrazingX3)					
φ19.1(BrazingX2)		φ19.1(BrazingX3)					

## Space Saving Type

					
<b>MODEL</b>		<b>RWHQ18TY1S</b>	<b>RWHQ20TY1S</b>	<b>RWHQ22TSY1</b>	<b>RWHQ24TSY1</b>
<b>Combination units</b>		—	—	<b>RWHQ10TY1S</b>	<b>RWHQ12TY1S</b>
				<b>RWHQ12TY1S</b>	<b>RWHQ12TY1S</b>
				—	—
<b>Power supply</b>		3-phase 4-wire system, 380-415 V, 50 Hz			
<b>Cooling capacity</b>	Btu/h	171,000	191,000	210,000	229,000
	Btu/h*	171,600	192,300	211,000	230,000
	kW	50.0/50.3*	56.0/56.4*	61.5/61.9*	67.0/67.4*
<b>COP</b>		3.27	3.13	3.80	3.74
<b>Power consumption</b>	kW	15.3	17.9	16.2	17.9
<b>Capacity control</b>	%	10-100		8-100	
<b>Casing colour</b>		Ivory white (5Y7.5/1)			
<b>Compressor</b>	Type	Hermetically Sealed Scroll Type			
	Motor output	kW	(4.4X1)+(4.0X1)	(4.6X1)+(5.5X1)	(4.1X1)+(5.2X1)
<b>Airflow rate</b>	m³/min	233	268	165+178	178+178
<b>Dimensions (HxWxD)</b>	mm	1,657X1,240X765		(1,657X930X765)+(1,657X930X765)	
<b>Machine weight</b>	kg	285	320	200+200	
<b>Sound level</b>	dB(A)	62	65	61	62
<b>Operation range</b>		15 to 49			
<b>Refrigerant</b>		R-410A			
<b>Piping connections (Indoor unit)</b>	Type				
	Charge	kg	10.5	11.8	6.5+6.8
<b>Piping connections (Heat exchanger unit)</b>	Liquid	φ15.9(Brazing)			
	Gas	φ28.6(Brazing)			φ34.9(Brazing)
<b>Piping connections (Heat exchanger unit)</b>	Inlet pipe	φ19.1(Brazing)		φ19.1(BrazingX2)	
	Outlet pipe	φ19.1(Brazing)		φ19.1(BrazingX2)	

# Specifications

## VRV IV HEAT RECOVERY HOT WATER SYSTEM Series Outdoor Units Space Saving Type




								
MODEL		RWHQ26TSY1	RWHQ28TSY1	RWHQ30TSY1	RWHQ32TSY1	RWHQ34TSY1	RWHQ36TSY1	
Combination units		RWHQ8TY1S	RWHQ12TY1S	RWHQ12TY1S	RWHQ12TY1S	RWHQ16TY1S	RWHQ18TY1S	
		RWHQ18TY1S	RWHQ16TY1S	RWHQ18TY1S	RWHQ20TY1S	RWHQ18TY1S	RWHQ18TY1S	
		—	—	—	—	—	—	
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz						
Cooling capacity	Btu/h	247,000	268,000	285,000	305,000	324,000	341,000	
	Btu/h*	248,600	269,500	286,600	307,300	326,200	342,900	
	kW	72.4/72.9*	78.5/79.0*	83.5/84.0*	89.5/90.1*	95.0/95.6*	100.0/100.5*	
COP		3.55	3.60	3.45	3.34	3.37	3.27	
Power consumption	kW	20.4	21.8	24.2	26.8	28.2	30.6	
Capacity control	%	7-100	6-100		5-100			
Casing colour		Ivory white (5Y7.5/1)						
Compressor	Type	Hermetically Sealed Scroll Type						
	Motor output	kW	(3.4x1)+(4.4x1)+(4.0x1)	(5.2x1)+(3.6x1)+(3.7x1)	(5.2x1)+(4.4x1)+(4.0x1)	(5.2x1)+(4.6x1)+(5.5x1)	(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)	(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)
Airflow rate	m <sup>3</sup> /min	157+233	178+233		178+268	233+233		
Dimensions (HxWxD)	mm	(1,657x930x765)+(1,657x1,240x765)				(1,657x1,240x765)+,657x1,240x765)		
Machine weight	kg	185+285	200+285		200+320	285+285		
Sound level	dB(A)	63		64	66	65		
Operation range	°CDB	15 to 49						
Refrigerant	Type	R-410A						
	Charge	kg	6.4+10.5	6.8+10.4	6.8+10.5	6.8+11.8	10.4+10.5	10.5+10.5
Piping connections (Indoor unit)	Liquid	mm	φ19.1(Brazing)					
	Gas	mm	φ34.9(Brazing)				φ41.3(Brazing)	
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ19.1(BrazingX2)					
	Outlet pipe	mm	φ19.1(BrazingX2)					

Note: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB.; 27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

# RWHQ-T

						
RWHQ38TSY1	RWHQ40TSY1	RWHQ42TSY1	RWHQ44TSY1	RWHQ46TSY1	RWHQ48TSY1	RWHQ50TSY1
RWHQ18TY1S	RWHQ20TY1S	RWHQ12TY1S	RWHQ12TY1S	RWHQ12TY1S	RWHQ12TY1S	RWHQ12TY1S
RWHQ20TY1S	RWHQ20TY1S	RWHQ12TY1S	RWHQ12TY1S	RWHQ16TY1S	RWHQ18TY1S	RWHQ18TY1S
—	—	RWHQ18TY1S	RWHQ20TY1S	RWHQ18TY1S	RWHQ18TY1S	RWHQ20TY1S
3-phase 4-wire system, 380-415 V, 50 Hz						
362,000	382,000	399,000	420,000	440,000	457,000	478,000
363,400	383,900	400,900	421,400	443,600	460,600	481,100
106.0/106.5*	112.0/112.5*	117.0/117.5*	123.0/123.5*	129.0/130.5*	134.0/135.0*	140.0/141.0*
3.19	3.13	3.52	3.44	3.48	3.39	3.33
33.2	35.8	33.2	35.8	37.1	39.5	42.1
4-100						3-100
Ivory white (5Y7.5/1)						
Hermetically Sealed Scroll Type						
(4.4x1)+(4.0x1)+ (4.6x1)+(5.5x1)	(4.6x1)+(5.5x1)+ (4.6x1)+(5.5x1)	(5.2x1)+(5.2x1)+ (4.4x1)+(4.0x1)	(5.2x1)+(5.2x1)+ (4.6x1)+(5.5x1)	(5.2x1)+(3.6x1)+(3.7x1)+ (4.4x1)+(4.0x1)	(5.2x1)+(4.4x1)+(4.0x1)+ (4.4x1)+(4.0x1)	(5.2x1)+(4.4x1)+(4.0x1)+ (4.6x1)+(5.5x1)
233+268	268+268	178+178+233	178+178+268	178+233+233		178+233+268
(1,657x1,240x765)+(1,657x1,240x765)		(1,657x930x765)+(1,657x930x765)+ (1,657x1,240x765)		(1,657x930x765)+(1,657x1,240x765)+ (1,657x1,240x765)		
285+320	320+320	200+200+285	200+200+320	200+285+285		200+285+320
67	68	65	67	66		67
15 to 49						
R-410A						
10.5+11.8	11.8+11.8	6.8+6.8+10.5	6.8+6.8+11.8	6.8+10.4+10.5	6.8+10.5+10.5	6.8+10.5+11.8
φ19.1(Brazing)						
φ41.3(Brazing)						
φ19.1(BrazingX2)					φ19.1(BrazingX3)	
φ19.1(BrazingX2)					φ19.1(BrazingX3)	

# Specifications



## ■ Serpentine Heat Exchanger Unit (HWHQ30A)

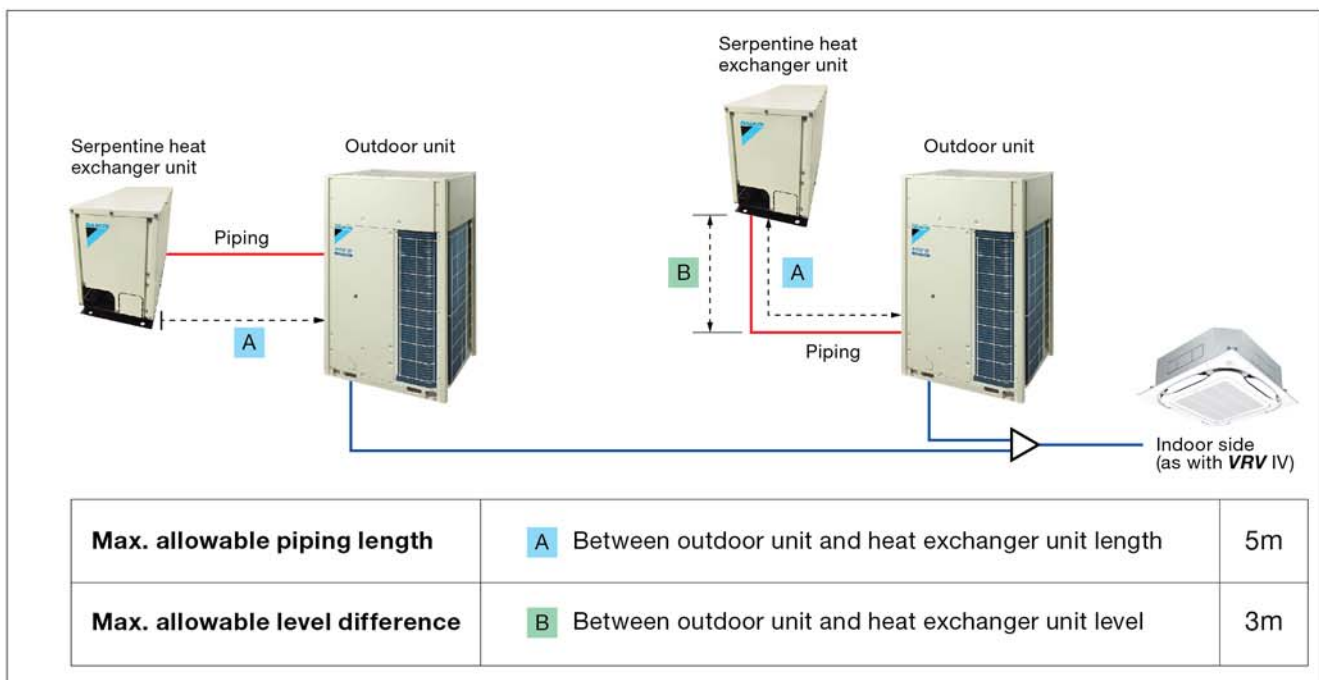
New Model Name ( RWHQ-TY1S, HWHQ30A )		Single Heat Exchanger Unit							
		RWHQ6TY1S +HWHQ30A	RWHQ8TY1S +HWHQ30A	RWHQ10TY1S +HWHQ30A	RWHQ12TY1S +HWHQ30A	RWHQ14TY1S +HWHQ30A	RWHQ16TY1S +HWHQ30A	RWHQ18TY1S +HWHQ30A	RWHQ20TY1S +HWHQ30A
Rated inlet temperature	°C	40							
Rated water flow	L/min	10							
Range of inlet temperature	°C	20-65							
Range of water flow	L/min	5-20							
Rated Hot-water capacity *1	kW	3.2	3.3	3.3	3.5	3.7	4.0	4.2	4.4
Machine weight	kg	27							
Diameter of Refrigerant pipe (Gas)	mm	φ19.1 (Braze)							
Diameter of Refrigerant pipe (Liquid)	mm	φ19.1 (Braze)							
Diameter of water pipe (Inlet)	mm	φ25.4 (Screw)							
Diameter of water pipe (Outlet)	mm	φ25.4 (Screw)							
Piping length (max)	m	2 (5)							
Design pressure (Water side)	MPa	0.5							
Loss of Head *2	m	0.2							
Casing colour		Ivory white (5Y7.5/1)							
Dimensions (HxWxD)	mm	446 × 306 × 765							

Note : It is necessary to satisfy the water standard of Daikin for the water that is used. In the case that the water standard is not satisfied, special measures are required. Please contact your local sales office for details.

\*1: [Cooling ] Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Inlet water temperature 40°C, Water flow 10L/min, Indoor load 100%, Outdoor-Heat Exchanger Unit 2m.

\*2: Water flow 10L/min.

## Pipe length restriction of VRV IV Heat Recovery Hot Water System





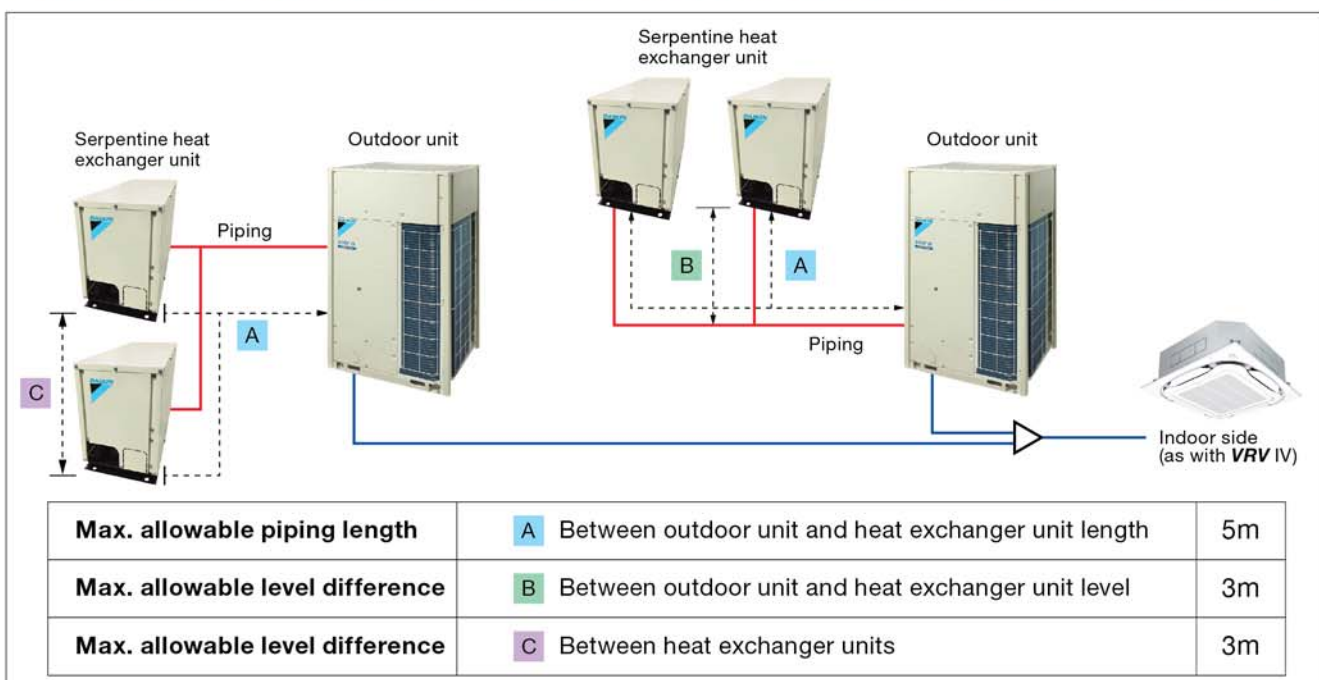
New Model Name ( RWHQ-TY1S, HWHQ30A )		Double Heat Exchanger Unit							
		RWHQ6TY1S +HWHQ30Ax2	RWHQ8TY1S +HWHQ30Ax2	RWHQ10TY1S +HWHQ30Ax2	RWHQ12TY1S +HWHQ30Ax2	RWHQ14TY1S +HWHQ30Ax2	RWHQ16TY1S +HWHQ30Ax2	RWHQ18TY1S +HWHQ30Ax2	RWHQ20TY1S +HWHQ30Ax2
Rated inlet temperature	°C	40							
Rated water flow	L/min	20 (10 × 2)							
Range of inlet temperature	°C	20-65							
Range of water flow	L/min	10-40 (5-20 × 2)							
Rated Hot-water capacity *1	kW	5.4	5.6	5.6	5.9	6.2	6.8	7.1	7.4
Machine weight	kg	54 (27 × 2)							
Diameter of Refrigerant pipe (Gas)	mm	φ19.1 (Braze) × 2							
Diameter of Refrigerant pipe (Liquid)	mm	φ19.1 (Braze) × 2							
Diameter of water pipe (Inlet)	mm	φ25.4 (Screw) × 2							
Diameter of water pipe (Outlet)	mm	φ25.4 (Screw) × 2							
Piping length (max)	m	2 (5)							
Design pressure (Water side)	MPa	0.5							
Loss of Head *2	m	0.2							
Casing colour		Ivory white (5Y7.5/1)							
Dimensions (H×W×D)	mm	(446 × 306 × 765) + (446 × 306 × 765)							

Note : It is necessary to satisfy the water standard of Daikin for the water that is used. In the case that the water standard is not satisfied, special measures are required. Please contact your local sales office for details.

\*1: [Cooling] Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Inlet water temperature 40°C, Water flow 10L/min, Indoor load 100%, Outdoor-Heat Exchanger Unit 2m.

\*2: Water flow 10L/min.

## Pipe length restriction of VRV IV Heat Recovery Hot Water System



# Daikin Engineering Supports

## ■ VRV Design and Sales Proposal Assistance

Daikin provides engineering supports for **VRV** systems. It consists of design supports that can assist consultants and architects, as well as sales proposal supports for air conditioning engineers and dealers. We at Daikin provide the software, the simulation results, and drawing materials to support the business-information modeling (BIM) currently entering the mainstream in construction industries.



### Design

For consultants and architects

Combines energy efficiency and comfort

Heat load calculation

CFD simulation to optimise outdoor unit layouts

Design flexibility

Heat load calculation

Model selection

Drawing materials support



### Sales proposals

For air conditioning engineers and dealers

Heat load calculation

Model selection





## Model Selection Software

VRV Xpress

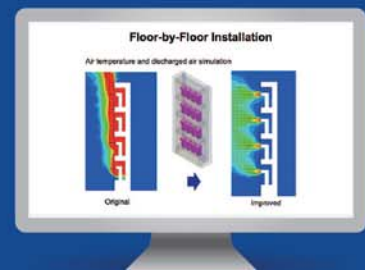
VRV Xpress is a flexible design software that optimises equipment selection. It can empower consultants and air conditioning engineers so they can fully enhance their equipment selections to design the most effective, optimum systems possible. The software also allows the choice of outdoor units based on peak loads rather than the sum of required capacities for each indoor unit. This fine-tuning feature reduces VRV system sizes and increases efficiency.



## CFD Simulation to Optimise Outdoor Unit Layouts

DT FLOW II

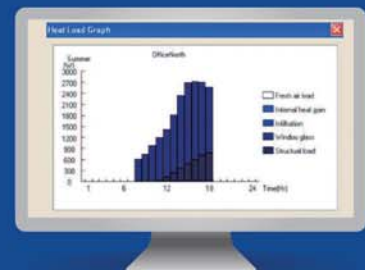
DT FLOW II is a simulation software that uses computational fluid dynamics (CFD), aiming to optimise outdoor unit layouts right at the design stage. When discharged air from the outdoor unit is drawn back into the suction vent, it can short circuit the system and lead to: decrease in efficiency of cooling operations, capacity shortages, operation cut-offs, and shorter lifetime for the outdoor unit. To avoid the need for expensive layout modifications once construction is complete, Daikin uses the CFD method at the early design stage. This can help consultants and architects optimise their outdoor unit arrangement.



## Heat Load Calculation

DACCS-HKGSG and HKGSA

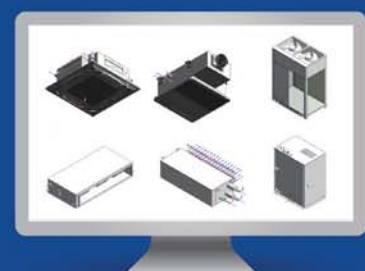
The DACCS program uses a steady-state load calculation method to compute heat load over a 24-hour period on summer and winter days. The heat load coming in through outer walls and rooftops from strong summer sunlight can be substantial, but the DACCS program applies effective temperature differences based on the effects of heat accumulated in the walls. The program also accesses 24-hour weather data for all major cities. The standard design data includes accurate weather information for 140 countries.



## Drawing Supports

CAD Symbols

Users download CAD symbol drawing materials, including 2D CAD symbols and 3D Revit data, for VRV systems designing. The 3D Revit data contains specifications for Daikin products, including things like capacities and electric characteristics to support Business Information Modeling (BIM).







**Warning**

- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

**Cautions on product corrosion**

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

**SIAM DAIKIN SALES CO.,LTD.**

22 Soi Onnuch 55/1  
Pravet Subdistrict, Pravet District,  
Bangkok 10250

Tel. 0-2838-3200  
Fax. 0-2721-7607



VRV is a trademark of Daikin Industries, Ltd.

VRV Air Conditioning System is the world's first individual air conditioning system with variable refrigerant flow control and was commercialised by Daikin in 1982.

VRV is the trademark of Daikin Industries, Ltd., which is derived from the technology we call "variable refrigerant volume."