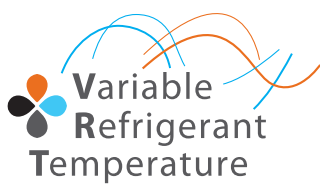
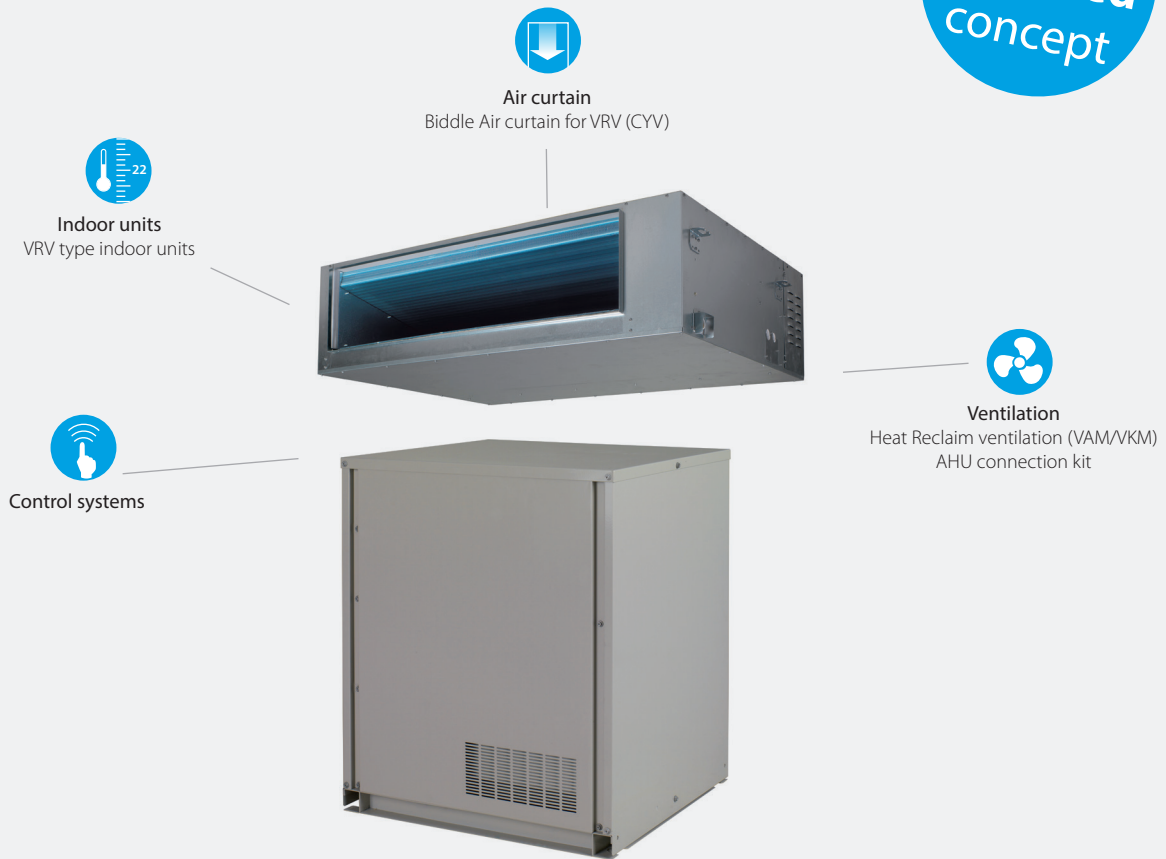


VRV IV i-series heat pump for indoor installation

unique
patented
concept



VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal
efficiency & comfort

VRV configurator

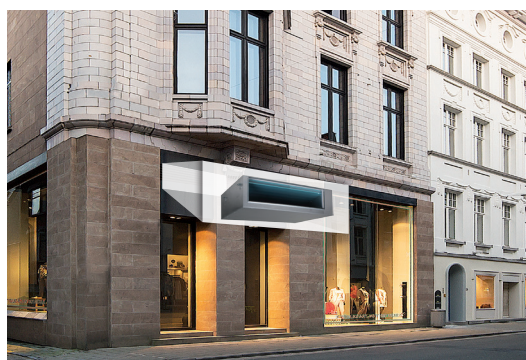
Software for simplified commissioning,
configuration and customisation

- › Night quiet mode
- › Full inverter compressors
- › Low noise function
- › Sine wave DC inverter
- › DC fan motor
- › E-pass heat exchanger
- › I demand function
- › Manual demand function

For detailed explanation of these functions refer to vriv iv technologies tab

Invisible

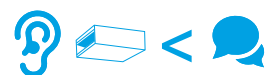
- › Consider a wider range of properties because outdoor installation is not a factor
- › Open for business sooner because getting building permits is simplified
- › Seamless integration into the surroundings as only the grille is visible
- › No need for a roof installation or back alley installation



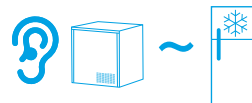
Outdoor Unit Product Range

Quiet

- › Highly suited to densely populated areas such as city centres thanks to their low operating sound
- › Dedicated modes reduce sound further to comply with inner-city noise regulations

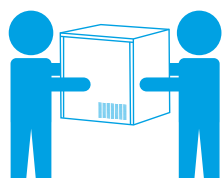


Heat exchanger sound not louder than a normal conversation



Compressor sound not louder than a refrigerator

Lightweight parts
can be installed
by two people

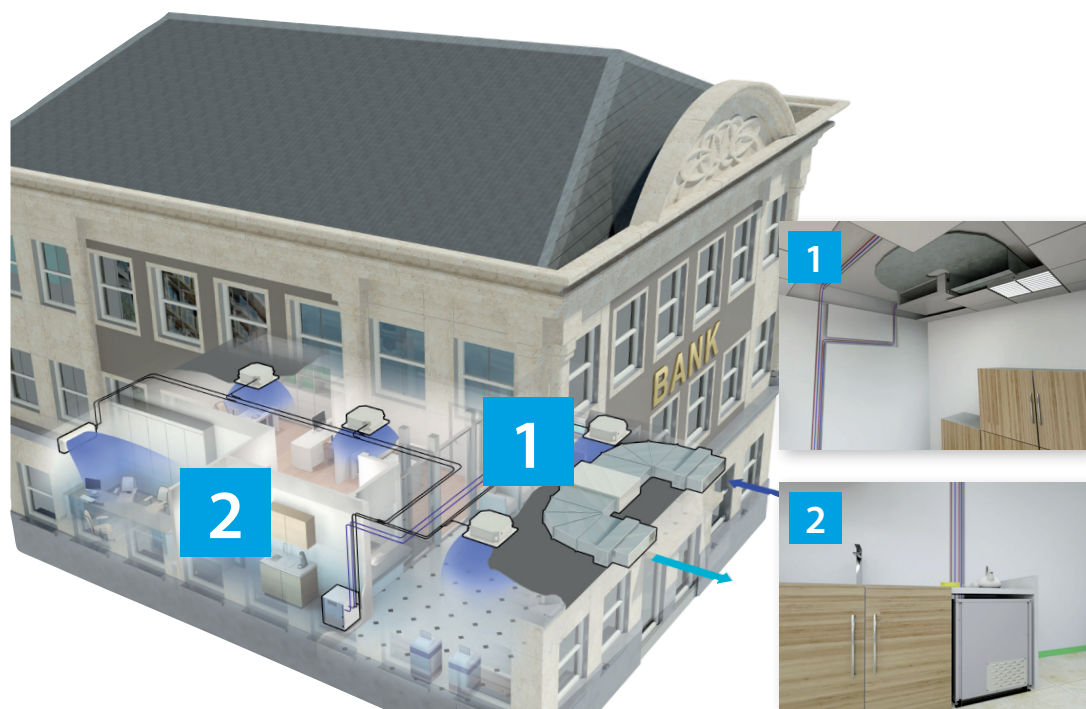


Unique split outdoor unit for indoor installation

Compact and easy to hide, the compressor can be installed at floor level, in a back office, storage room, technical area or in a kitchen, while the

heat exchanger can be installed in a false ceiling space. This means that the air conditioning system is completely invisible and does not take up expensive commercial floor space.

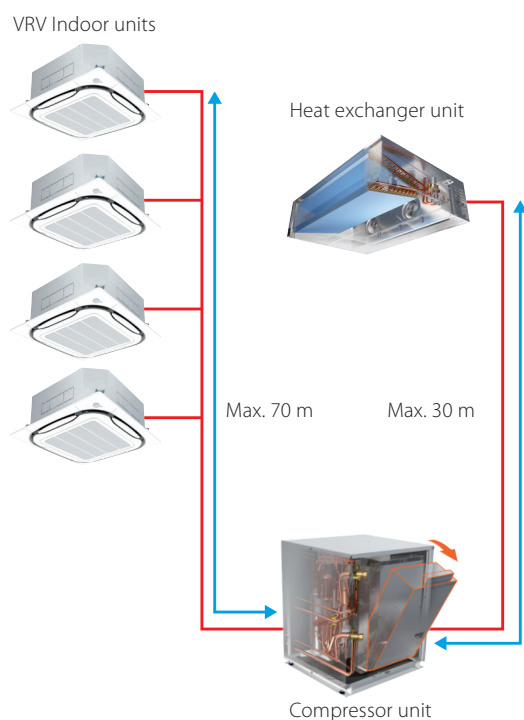
Unrivalled flexibility thanks to the fact that the outdoor unit is split into two parts



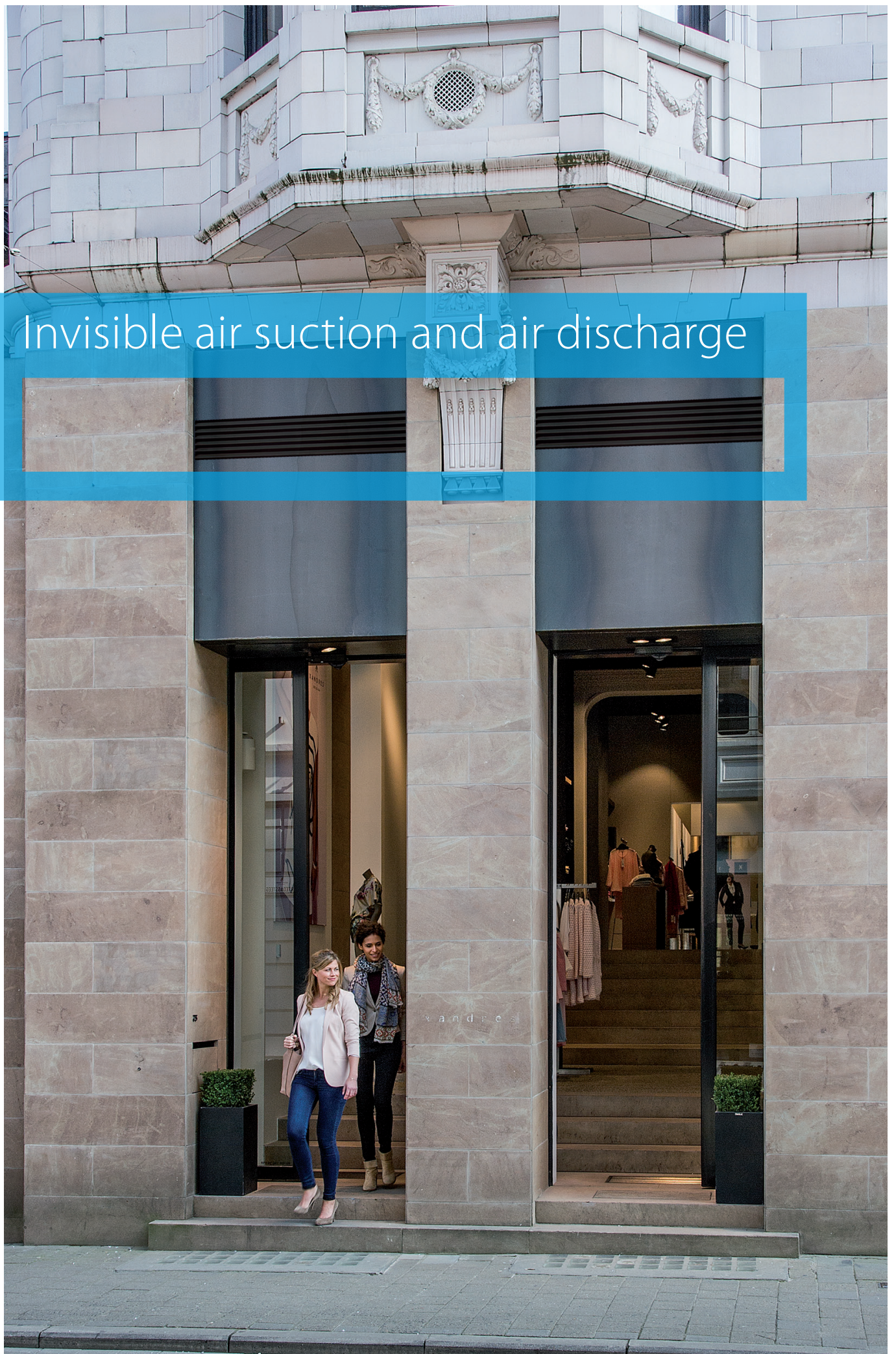
1. The heat exchanger can be installed in a false ceiling space.

2. The compressor is compact and easy to hide, this element can be installed at floor level, in a back office, storage room, technical area or in a kitchen.

This means that the air conditioning system is completely invisible and does not take up expensive commercial floor space.



Invisible air suction and air discharge



The problem solver

for many installation issues

Example 1

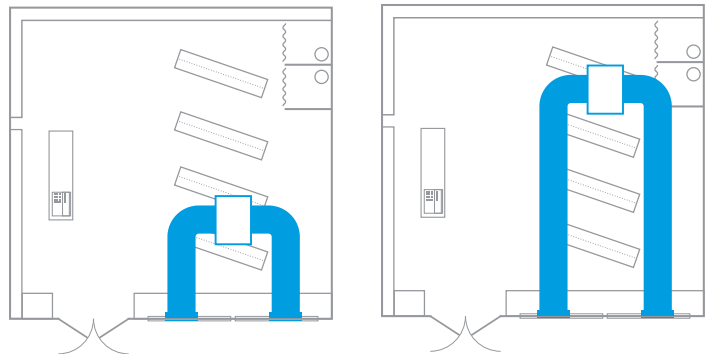
High flexibility

The other way around: install the modules where it fits your customer, not where it is the best fit for the outdoor unit

If there is no flat roof or backgarden available for installation of the outdoor unit, VRV IV i-series offers the solution.

The suction and exhaust can be installed at the façade or at the rear of the building as the inverter fans allows ESP to be adjusted to the length of the ductwork.

The compressor module can be installed up to 30 m from the heat exchanger unit in a storage room,



Flexible installation thanks to inverter fans

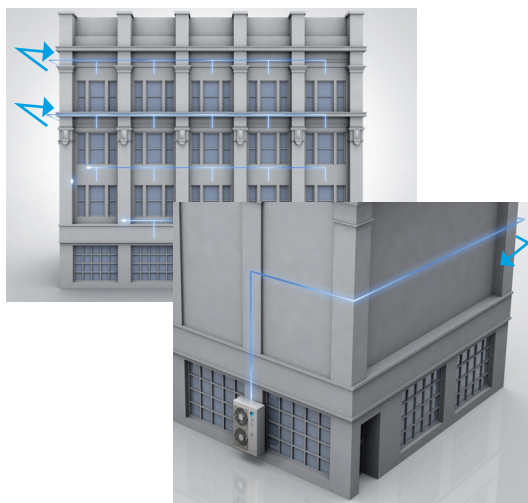


Example 2

Shorter pipe runs to the indoor units reduces installation costs compared to rooftop or back alley installation

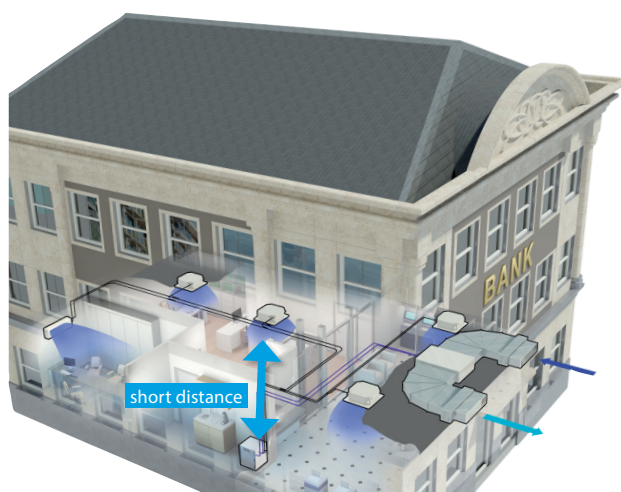
Back alley or rooftop needs very long piping lengths

- › Long installation time
- › Additional cost
- › Capacity loss



VRV IV i-series can be installed close to the indoor units

- › Quicker installation
- › Lower cost
- › No capacity loss



Example 3

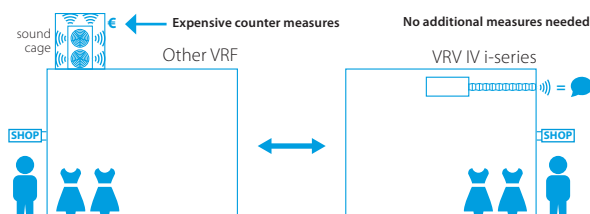
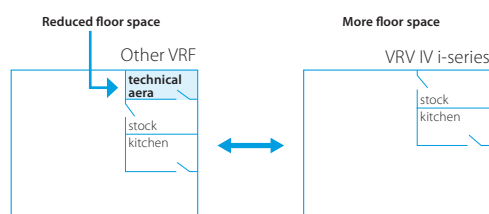
No need for bulky and expensive sound countermeasures

To comply with city regulation countermeasures are needed for standard units

- › Expensive sound cages might be needed to reduce sound (standard outdoor unit sound = 50~60 dBA)
- › Inside installation using expensive floor space

With VRV IV i-series you easily comply with city regulation without additional measures

- › Operation sound 47 dBA (flexible to install in corridor, shop area, ...) or lower with attenuator
- › No floor space is used as units can be installed in false ceiling, against the wall, ...



Patented V-shape heat exchanger for best surface to volume ratio

8
patents

Optimised air flow and temperature distribution

- › Best performance for defrost (tested in high humidity down to -20°C).

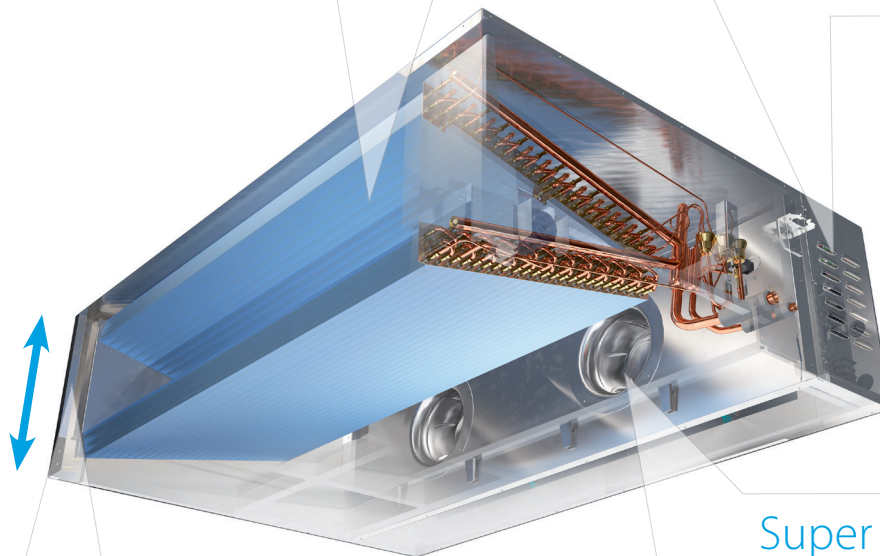
Patented perforated and insulated partition plate

- Reduces conductivity and prevents cold bridges



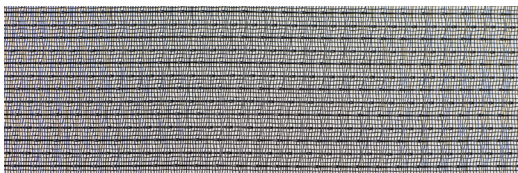
Only
400mm
high

Fits easily in
any false ceiling



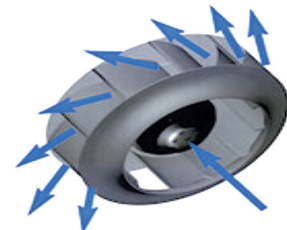
Standard delivered filter

- › with the unit to prevent dirt from entering the heat exchanger



Super efficient centrifugal fans

- › Over 50% efficiency increase compared to sirocco fan
- › Patented backward- curved blade technology
- › More pressure increase



Compressor unit with rotating switchbox

Flexible and easy to install

Flexibility by back and top refrigerant connection possibility

Rotating switchbox

- › For easy access to all compressor parts

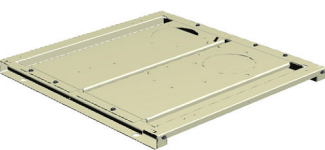
Only
77 kg

Tube-in-tube
subcool heat
exchanger

- › This patented heat exchanger increases the capacity of the system by ensuring optimal state of refrigerant in the heat exchanger module. This in turn increases overall efficiency.

No drain connection
needed

- › Thanks to natural evaporation
- › Minimized cold surface to reduce dew formation
- › Fast and easy installation



Non welded
bottom casing

- › Avoids any corrosion risk

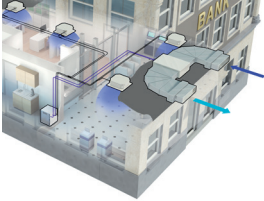
Small footprint

- › Maximizes useable floor space (600 x 550 mm)
- › Can easily be mounted in a storage room, back office, ...

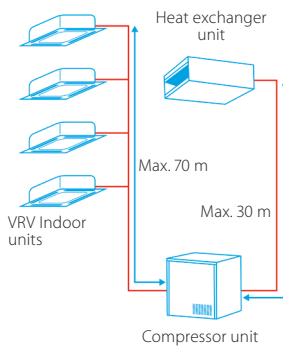
VRV IV heat pump for indoor installation

The invisible VRV

- › Unique VRV heat pump for indoor installation



- › Unrivalled flexibility because the unit is split up into two elements: the heat exchanger and the compressor



- › Highly suited to densely populated areas thanks to the low operation sound and seamless integration into surrounding architecture as only the grille is visible



- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator and full inverter compressors
- › Lightweight units (max. 97kg) can be installed by two people
- › Unique V-shape heat exchanger results in compact dimensions (h/e unit only 400mm high) allowing false ceiling installation, while ensuring top efficiency
- › Super efficient centrifugal fans (over 50% efficiency increase compared to sirocco fan)
- › Small footprint compressor unit (600 x 550 mm) maximizing useable floor space
- › Contains all standard VRV features

8HP
launch
2nd half
2016

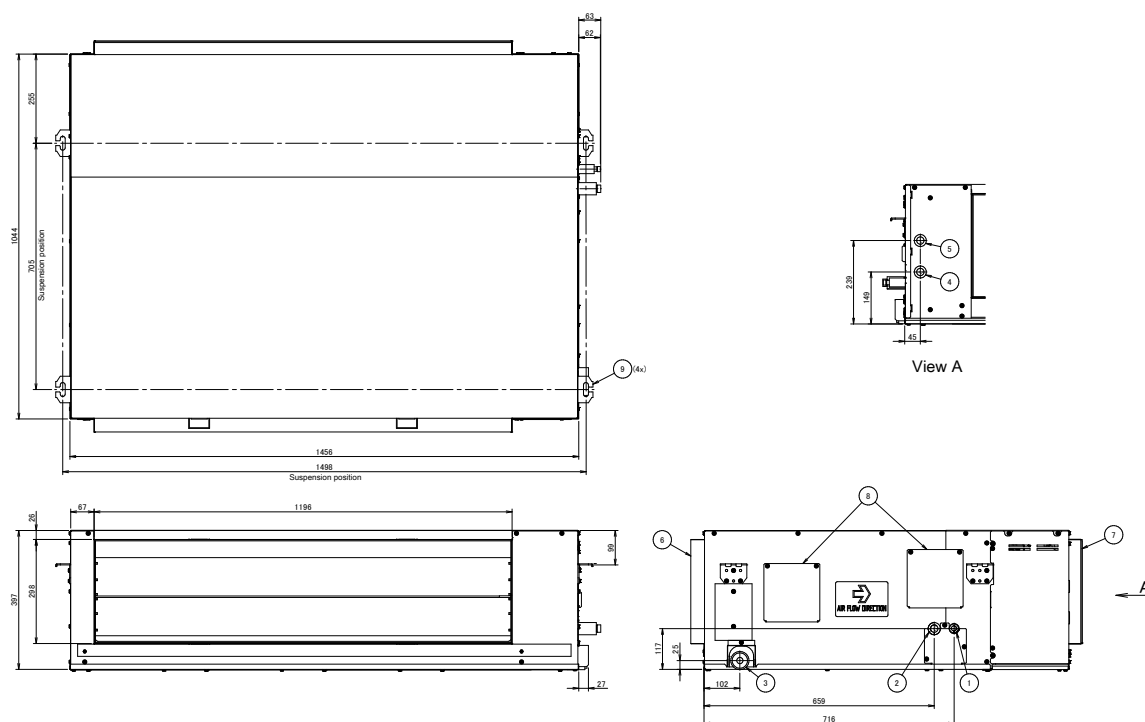
Outdoor system				SB.RKXYQ	5T	8T
System	Compressor unit				RKXYQ5T	RKXYQ8T
	Heat exchanger unit				RDXYQ5T	RDXYQ8T
Capacity range				HP	5	8
Cooling capacity	Nom.	35°CDB		kW	14.0	22.4
Heating capacity	Nom.	6°CWB		kW	14.0	22.4
	Max.	6°CWB		kW	16.0	-
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	4.38	-
	Heating	Nom.	6°CWB	kW	3.68	-
		Max.	6°CWB	kW	4.71	-
EER	at nom. capacity	35°CDB		kW/kW	3.20	-
COP	at nom. capacity	6°CWB		kW/kW	3.80	-
	at max. capacity	6°CWB		kW/kW	3.40	-
Maximum number of connectable indoor units					10 (1)	(1)
Indoor index connection	Min.				62.5	100
	Nom.				-	-
	Max.				162.5	260
Fan	External static pressure	Max.		Pa	150	150
		Nom.		Pa	60	-
Operation range	Cooling	Min.~Max.		°CDB	-5~46	-5~46
	Heating	Min.~Max.		°CWB	-20~-15.5	-20~-15.5
	Temperature around casing	Min.		°CDB	5	5
		Max.		°CDB	35	35
Piping connections	Between Compressor module (CM) and heat exchanger module (HM)	Liquid	OD	mm	12.7	12.7
		Gas	OD	mm	19.1	22.2
	Between Compressor module (CM) and indoor units (IU)	Liquid	OD	mm	9.5	9.52
		Gas	OD	mm	15.9	19.1
	Total piping length	System	Actual	m	140	300

(1) Actual number of units depends on the indoor unit type (VRV DX indoor, etc.) and the connection ratio restriction for the system (being: 50% ≤ CR ≤ 130%).

Outdoor unit module				compressor module		heat exchanger module	
				RKXYQ5T	RKXYQ8T	RDXYQ5T	RDXYQ8T
Dimensions	Unit	Height/Width/Depth	mm	701/600/554	701/760/554	397/1,456/1,044	397/1,456/1,044
Weight	Unit		kg	77	100	97	107
Fan	Type			-	-	Centrifugal	Centrifugal
	Air flow rate	Cooling	Nom.	m ³ /min	-	55	-
	Discharge direction			-	-	Discharge duct	Discharge duct
Sound power level	Cooling	Nom.		dBA	-	-	-
Sound pressure level	Cooling	Nom.		dBA	47	47	-
Refrigerant	Type			R-410A	R-410A	R-410A	R-410A
	Charge		kg	2	4	-	-
			TCO ₂ eq	4.2	8.4	-	-
	GWP			2,087.5	2,087.5	-	-
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/380-415	3N~/50/380-415	1N~/50/220-240	1N~/50/220-240
Current - 50Hz	Maximum fuse amps (MFA)		A	16	-	10	-

*Note: blue cells contain preliminary data

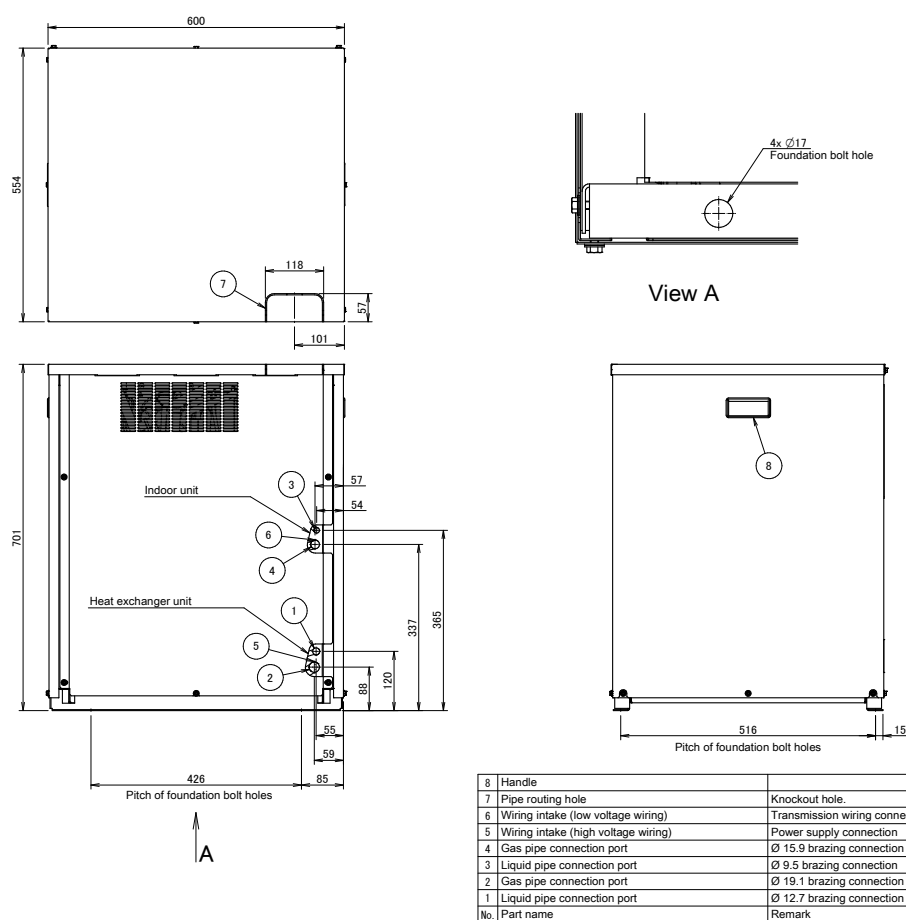
RDXYQ-T



9	Hook	
8	Service door	
7	Air discharge side	
6	Air suction side	
5	Wiring intake (low voltage wiring)	Transmission wiring connection
4	Wiring intake (high voltage wiring)	Power supply connection
3	Drain outlet	VP25
2	Gas pipe connection port	Ø 19.1 brazing connection
1	Liquid pipe connection port	Ø 12.7 brazing connection
No.	Part name	Remark

2D098826

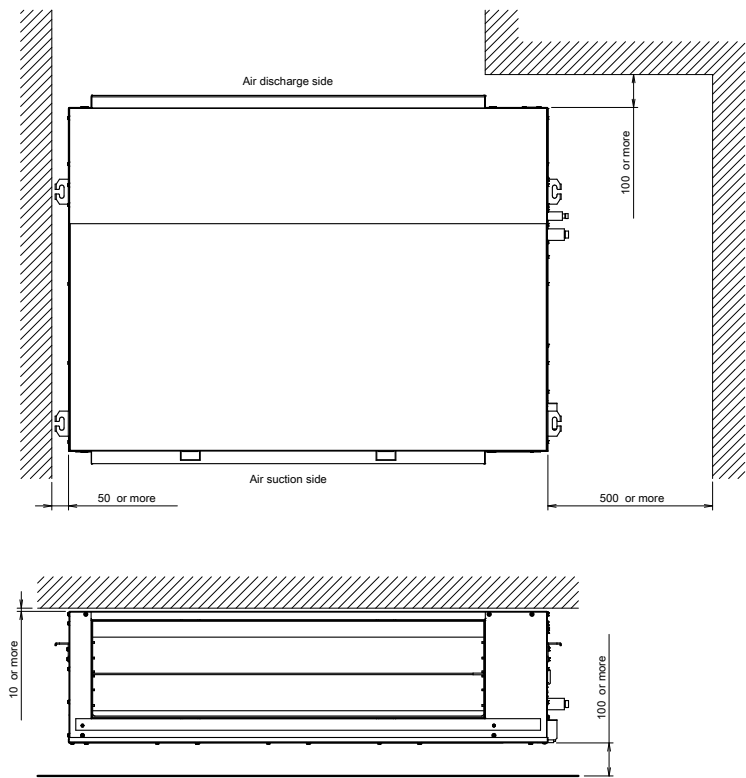
RKXYQ-T



8	Handle	
7	Pipe routing hole	Knockout hole.
6	Wiring intake (low voltage wiring)	Transmission wiring connection
5	Wiring intake (high voltage wiring)	Power supply connection
4	Gas pipe connection port	Ø 15.9 brazing connection
3	Liquid pipe connection port	Ø 9.5 brazing connection
2	Gas pipe connection port	Ø 19.1 brazing connection
1	Liquid pipe connection port	Ø 12.7 brazing connection
No.	Part name	Remark

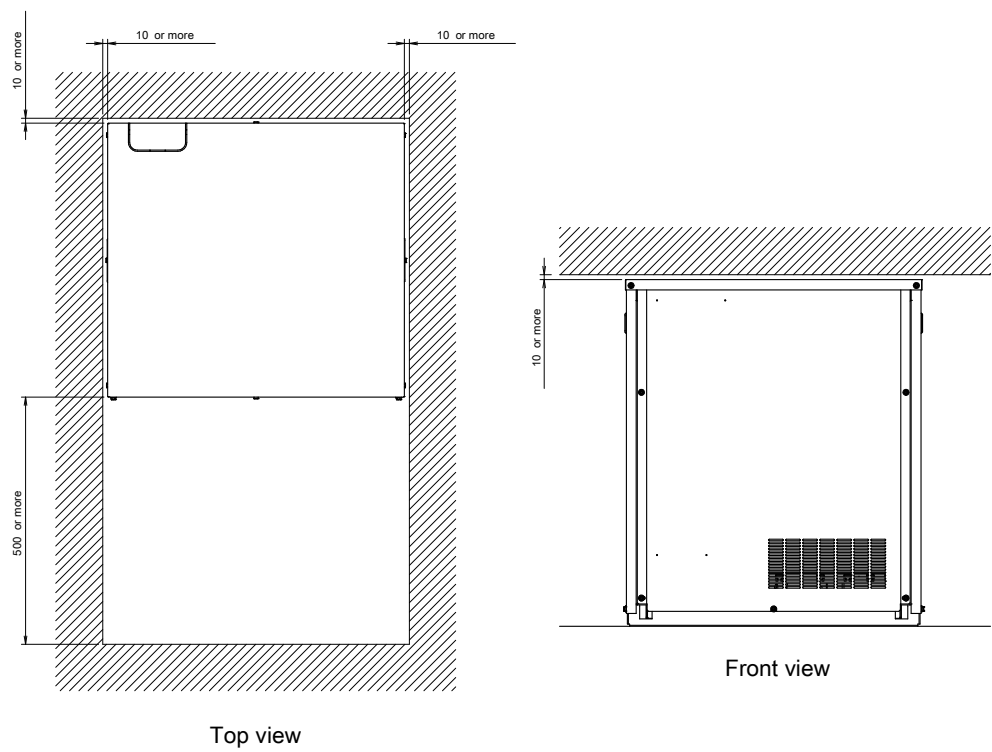
3D098827

RDXYQ-T



3D098834

RKXYQ-T



3D098835