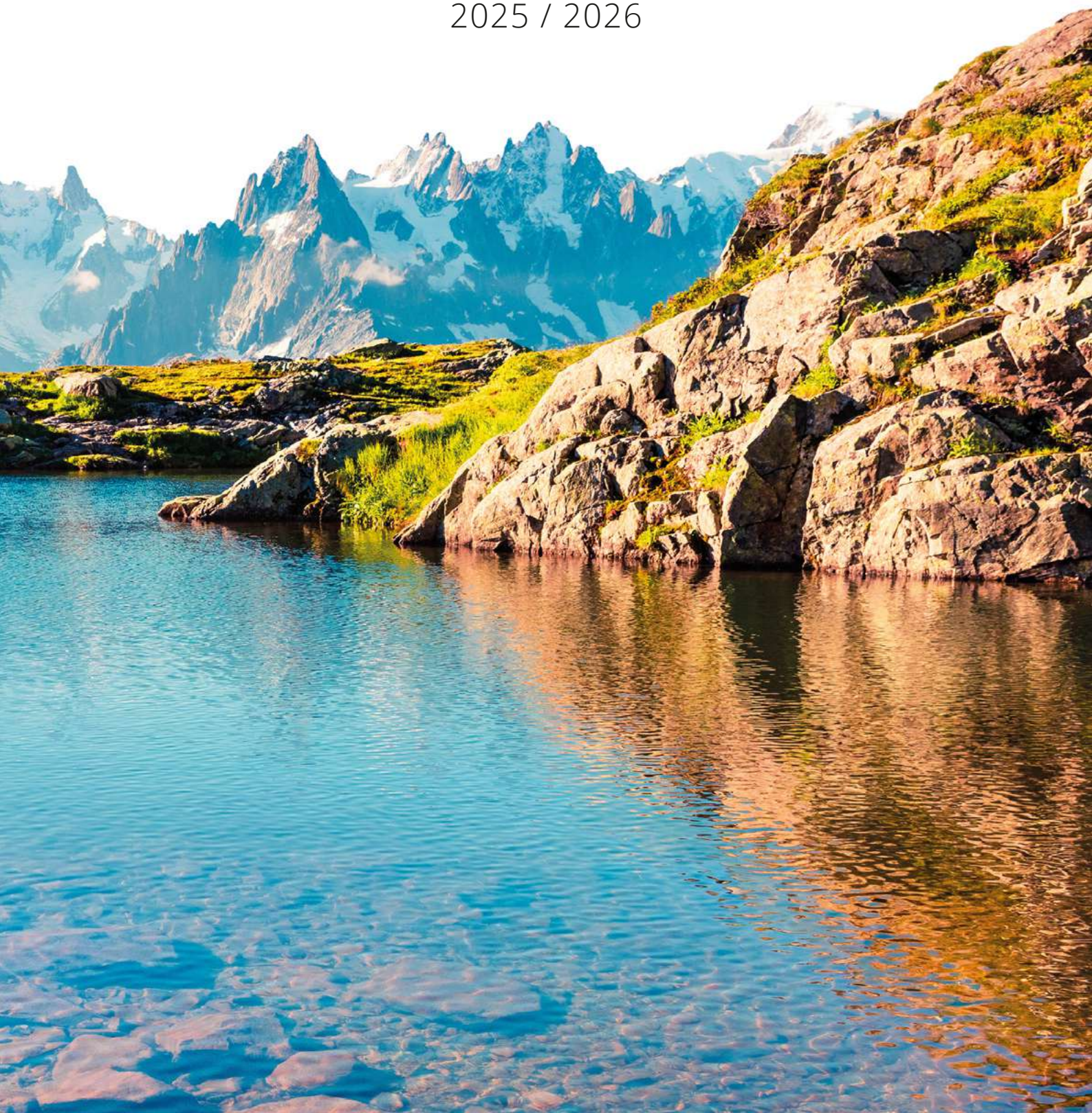

Catalogue

RVF Air Conditioning Systems
2025 / 2026



Versatile and flexible **Rotenso solutions**

AIR CONDITIONING SYSTEMS
RVF AIR CONDITIONING SYSTEMS
VENTILATION SYSTEMS
HEAT PUMP SYSTEMS

Always up-to-date catalogs
on rotenso.com



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www.eurovent-certification.com



WE ARE **SOLUTION**



Welcome to the **Premium Class**

Superior quality materials

Unmatched productivity

**Wide range of
options and
accessories**

Unique design



Ergonomic controllers

Durable and reliable

Excellent air filtration system

High energy efficiency class

WE ARE **COOL** WE ARE **HEAT** WE ARE **COMFORT** WE ARE **AIR** WE ARE **ROTENSO**

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WE ARE **SOLUTION**

About Rotenso

We provide our partners with not only high-quality devices. We also provide them with knowledge and support.

Thanks to this, they can more easily solve problems with the design of air conditioning, heat pumps or recuperation systems.

We believe that their achievements determine our own success. For many years, we have been investing in the latest technologies. The result is effective and energy-saving products, the operation of which helps maintain good health of users. We offer devices with high parameters and versatile applications.

All this so that a given system can be properly adapted to the needs and expectations of customers.

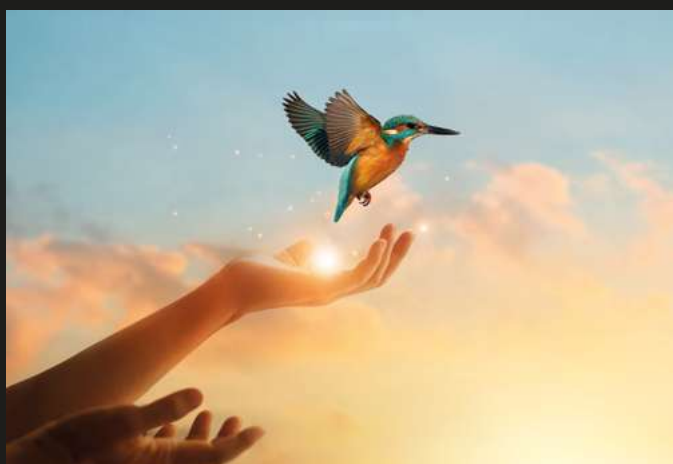


Exceptional
reliability



**Complete range
of products**
to suit your needs

6



**You are always at the heart
of what we do.**

We use technological innovations for the sake of health and comfort offered by the systems we provide.

The ever-increasing capacity and energy efficiency of our products is a response to the growing need to rationalize the costs of energy and take care of the environment.





Designer zone

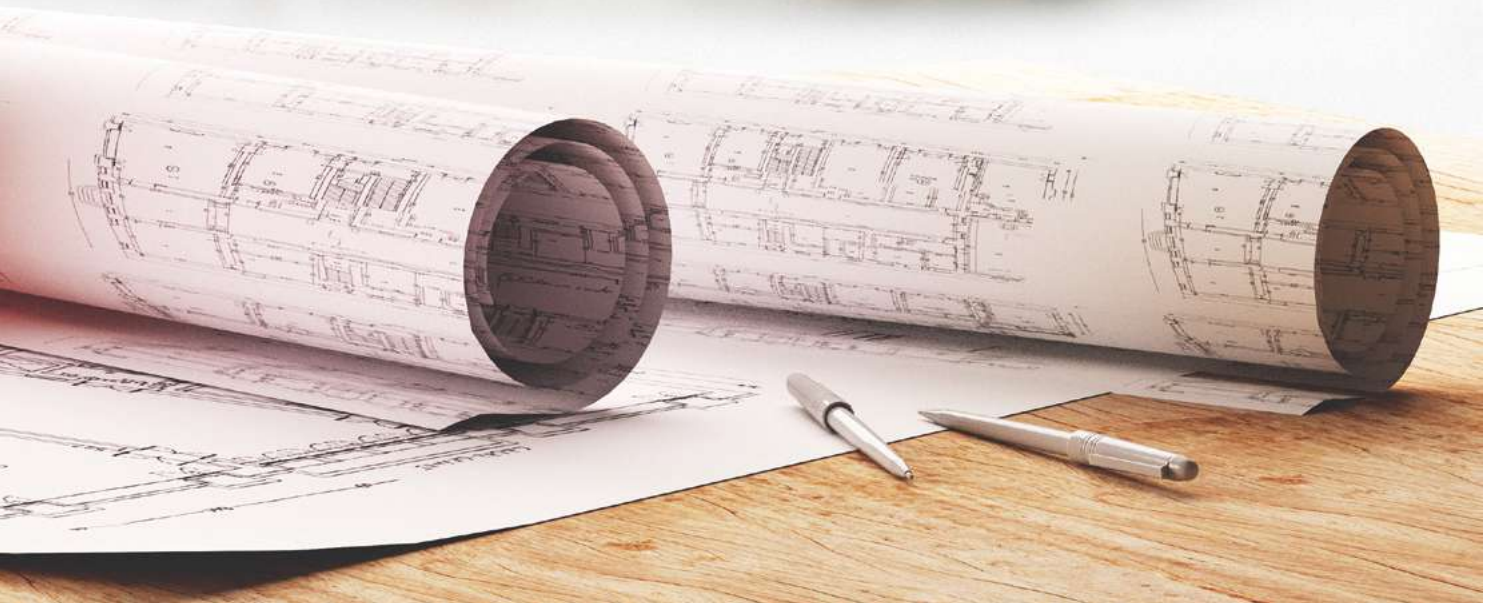
For investors, designers, and installers we offer complete design and selection assistance throughout every phase of the project.

We undertake a thorough installation and air-conditioning selection report, tailored to the specific prerequisites, requirements, and needs of the investment.

Rotenso RVF systems stand as technically advanced and energy-efficient heating and cooling solutions for all building types, operating on the principle of reversible air-to-air heat pumps.

ROTENSO®

Live better



9



Reliable equipment

Rotenso devices utilise top quality components and tried-and-tested solutions, all backed by a warranty.



Professional support

By opting for Rotenso solutions, you secure comprehensive technical and practical support throughout your investment journey.



Industry leader

ROTENSO is a trustworthy partner and a leader in the HVAC sector.

WE ARE SOLUTION

RWE

Solutions for
specific needs



WE ARE **FUTURE**



12





RVF SYSTEMS

A wide range of **investment solutions**

13

Ensuring thermal comfort, whether cooling or heating. Offering precise temperature control and management across multiple rooms.

Delivering bespoke, economically viable solutions for both installation and operational phases.

Rotenso RVF air-conditioning systems are versatile, energy-efficient, and cost-effective, designed to cater to both standard system requirements and unique, often unconventional project specifications.

Rotenso RVF systems ensure precise temperature control and management across several rooms.

Opt for thermal comfort, be it cooling or heating.

Solutions by **RVF ROTENSO**

Rotenso RVF systems are cutting-edge heating and cooling solutions suitable wherever the capacity of standard SPLIT/MULTI/DUAL/GROUP systems proves inadequate or when the project's intricacies demand tailored solutions.

Rotenso RVF systems boast a diverse range of units and an extensive series of outdoor units with capacities ranging from 10 kW up to a substantial 270 kW. This allows for the efficient provision of cooling, heating, and ventilation solutions.

They're apt for various building types and uses, including residential, commercial, multi-storey, compact, and historic structures. The technology and configuration choices of Rotenso RVF systems are regularly updated in line with property development market trends.

A notable feature of RVF systems is their freon which utilises only two refrigerant pipes* combined by RVF system tees. Consequently, even the most expansive installations demand fewer resources, space, and time, resulting in cost savings at the stage of project execution.

* This does not apply to RVF HR systems.

RVF

Systems offering capacities between 25.2 kW and 270 kW. These are two-pipe systems with either heating or cooling functionality.

MINI RVF

Systems offering capacities between 10 kW and 33.5 kW. These are two-pipe systems with either heating or cooling functionality.

HR RVF

Systems offering capacities between 25.2 kW and 180 kW. These are three-pipe systems capable of simultaneous heating and cooling.

V-STAGE RVF

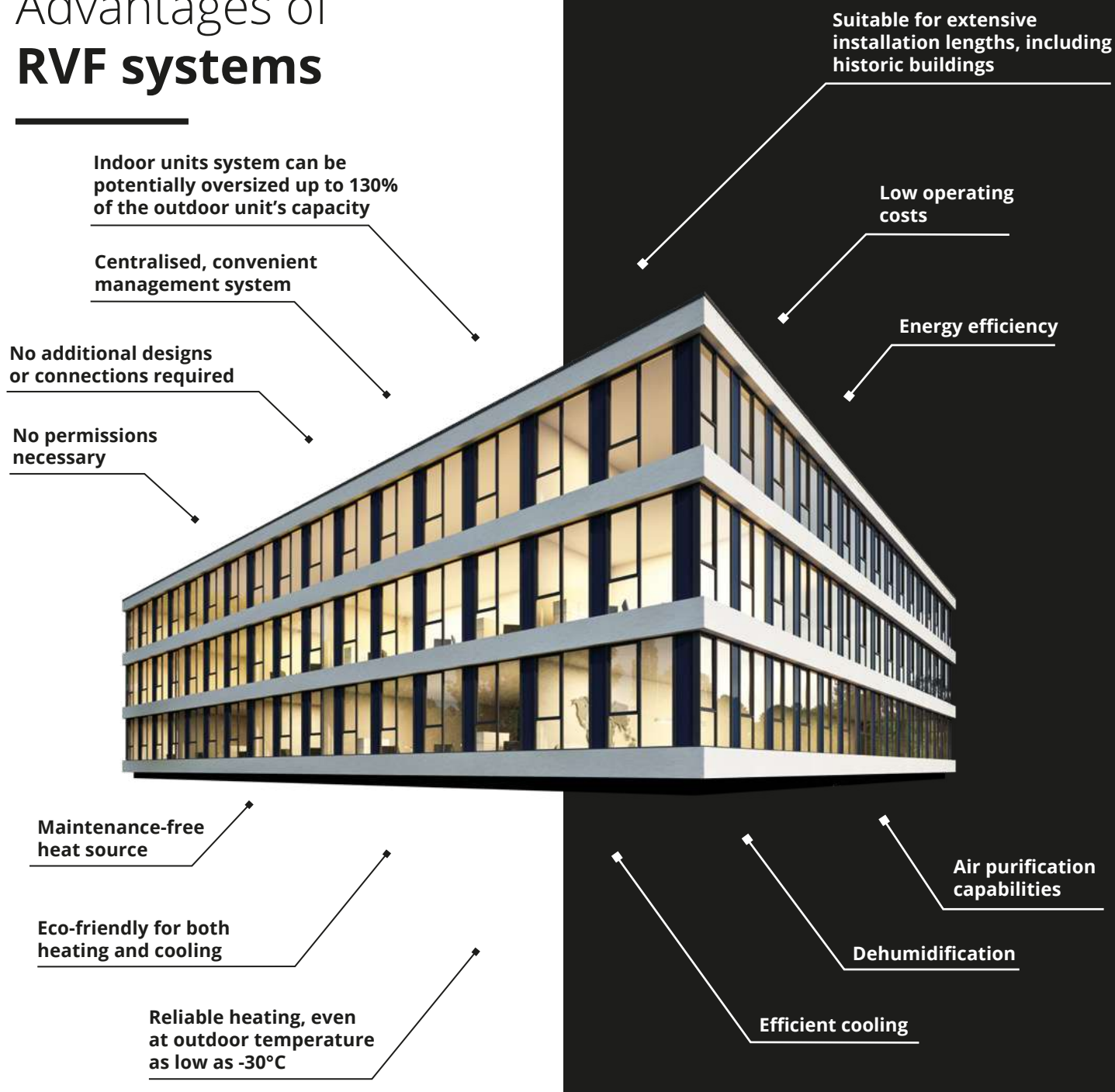
Systems offering capacities between 10 kW and 22.4 kW. These two-pipe systems feature a condensing unit specifically designed for indoor installation.

AHU RVF

AHU RVF For air handling units

This sophisticated solution enables the connection of Rotenso RVF outdoor units to cater to any freon heaters or coolers installed within the air handling units.

Advantages of RVF systems



15

Air-conditioning systems based on reversible air-to-air heat pumps

Thanks to their advanced technology, Rotenso RVF systems function as reversible air-to-air heat pumps, effectively providing both heating and cooling to buildings.

When in heating mode, the RVF system, based on the heat pump theory of operation, allows the outdoor unit to extract ambient heat and subsequently release it to the indoor air through the indoor units. Conversely, in air-conditioning mode, the system reverses the refrigerant circuit to facilitate cooling in a similar manner.

* To ensure flawless operation in heating mode, the unit should be equipped with a drip tray heater.



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Certificate Eurovent

Eurovent Certita Certification is recognized as a world leader in the certification of ventilation, air conditioning and refrigeration products.

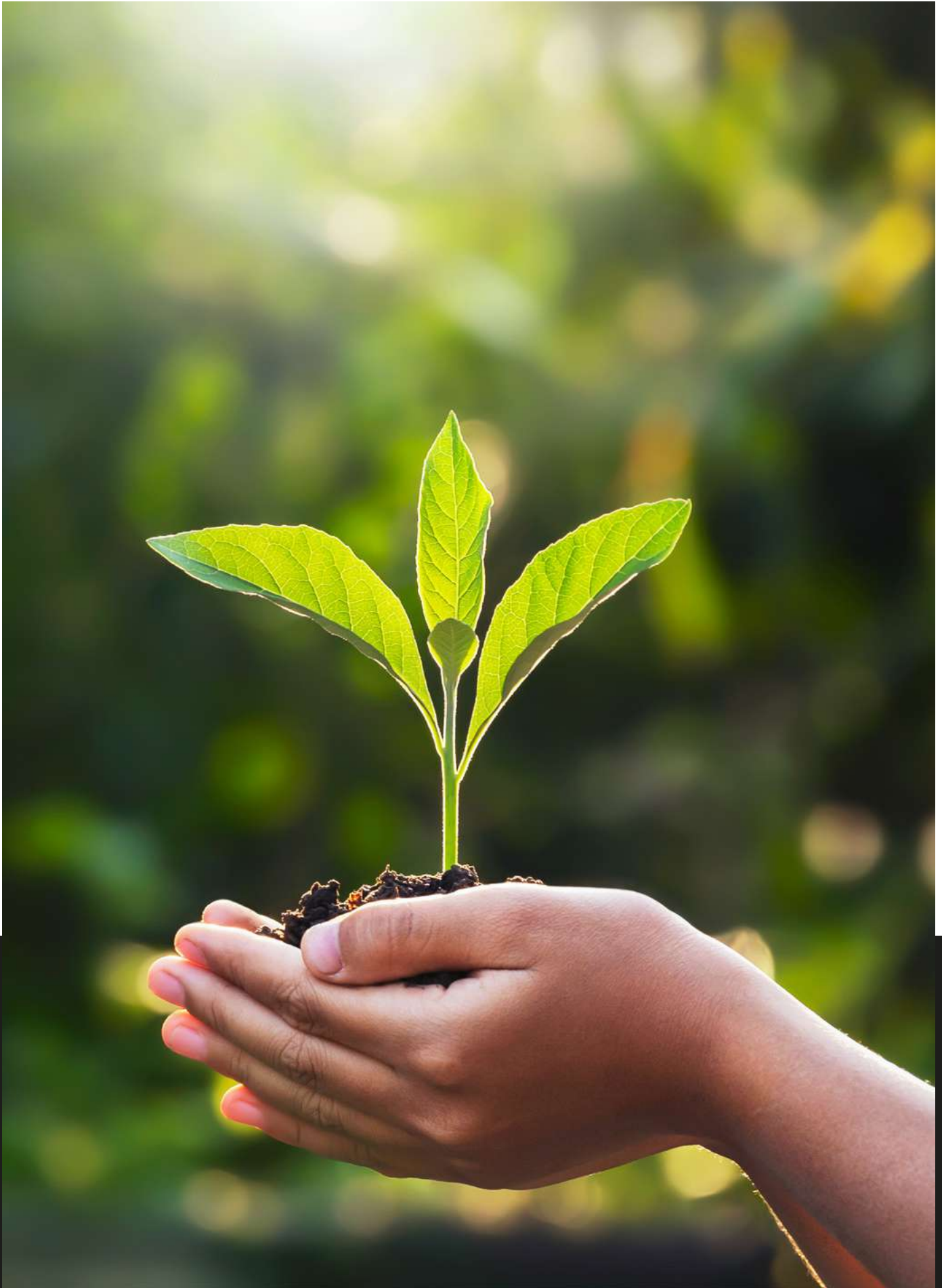
Their Eurovent Certificate specifies and confirms capacity values of air conditioning and refrigeration equipment in accordance with European and international standards.

The affixed certification logo guarantees that technical parameters (e.g. power, capacity, energy

consumption, noise level) of product purchased by the installer or the user are exactly the same as specified in the product catalogue or leaflet.

Designers, installers, investors and users who decide to choose Rotenso heat pumps can be sure that all technical details are up to date and verified by world-renowned independent certification unit.

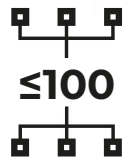




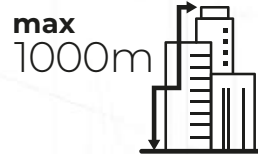
WE ARE **FUTURE**

Rotenso RVF

Air Conditioning Systems



Up to 100
indoor units



Maximum installation
length 1000 m



Max. output
270 kW



Active cooling of PCB
automation with
refrigerant



System remote
control via the
S-Manager app



Compatible
with air
handling units
(AHUs)



Reliable performance
in extreme outdoor
temperature
as low as -30°C



Outdoor unit installation
inside the building

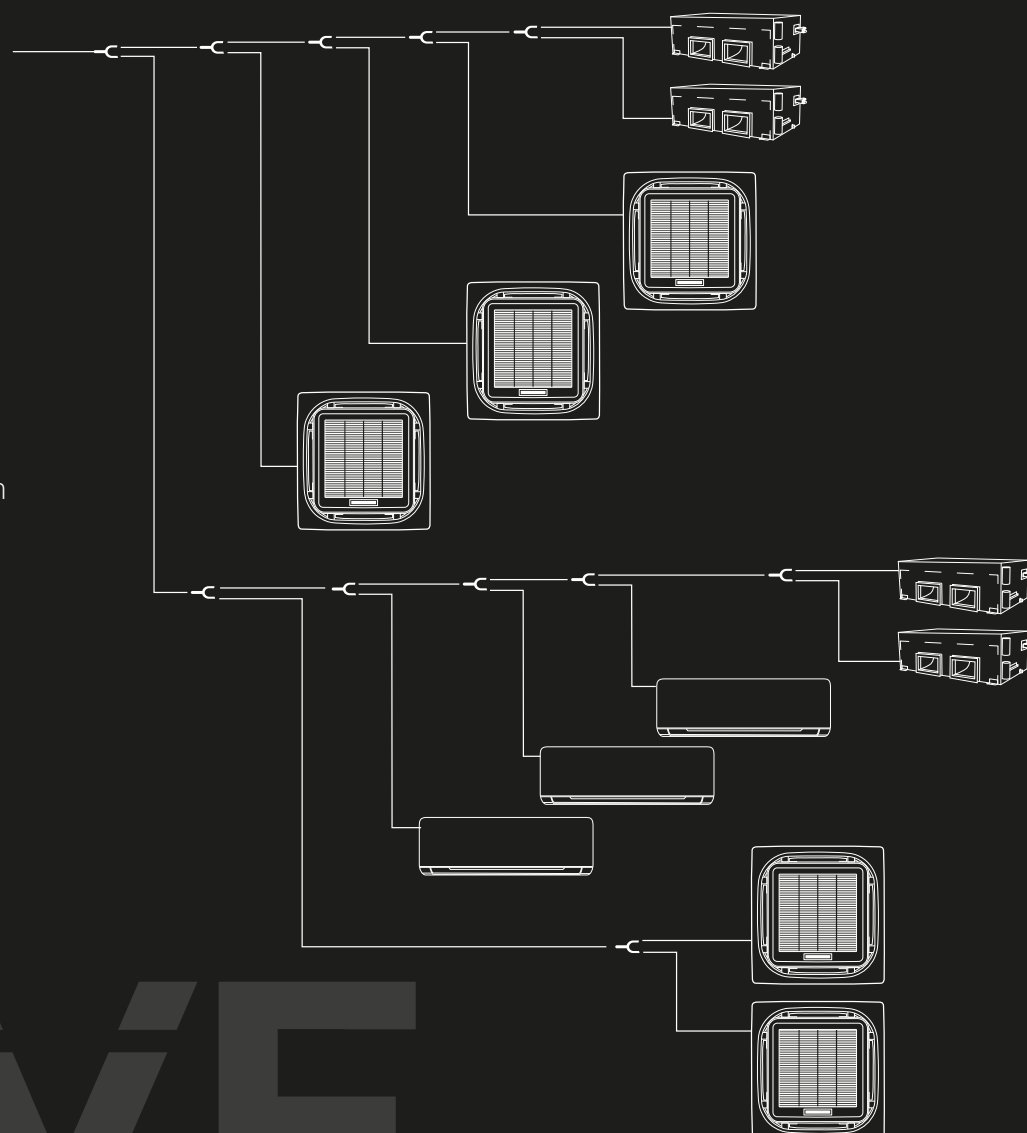


RVF solutions



One of the standout benefits of Rotenso RVF solutions is their extraordinary installation length capacity – reaching up to 1000 m with height difference of 110 m. Rotenso RVF systems can be set up as expansive configurations, supporting the connection of as many as 100 indoor units. Furthermore, there's potential to oversize their collective output relative to the outdoor units up to impressive 130%.

Rotenso RVF solutions utilise outdoor units that feature vertical air discharge. These units offer capacities between 25.2 and 90 kW per unit. Additionally, the RVF systems can be combined from modules to achieve a maximum output of 270 kW. Notably, the Rotenso RVF models are cost-effective and high-capacity two-pipe systems, which effectively deliver both cooling and heating functionalities, even at outdoor temperatures down to -30°C.



Full design and selection
assistance at:
rvf@rotenso.com

RVF



21



73,0 - 90,0 kW

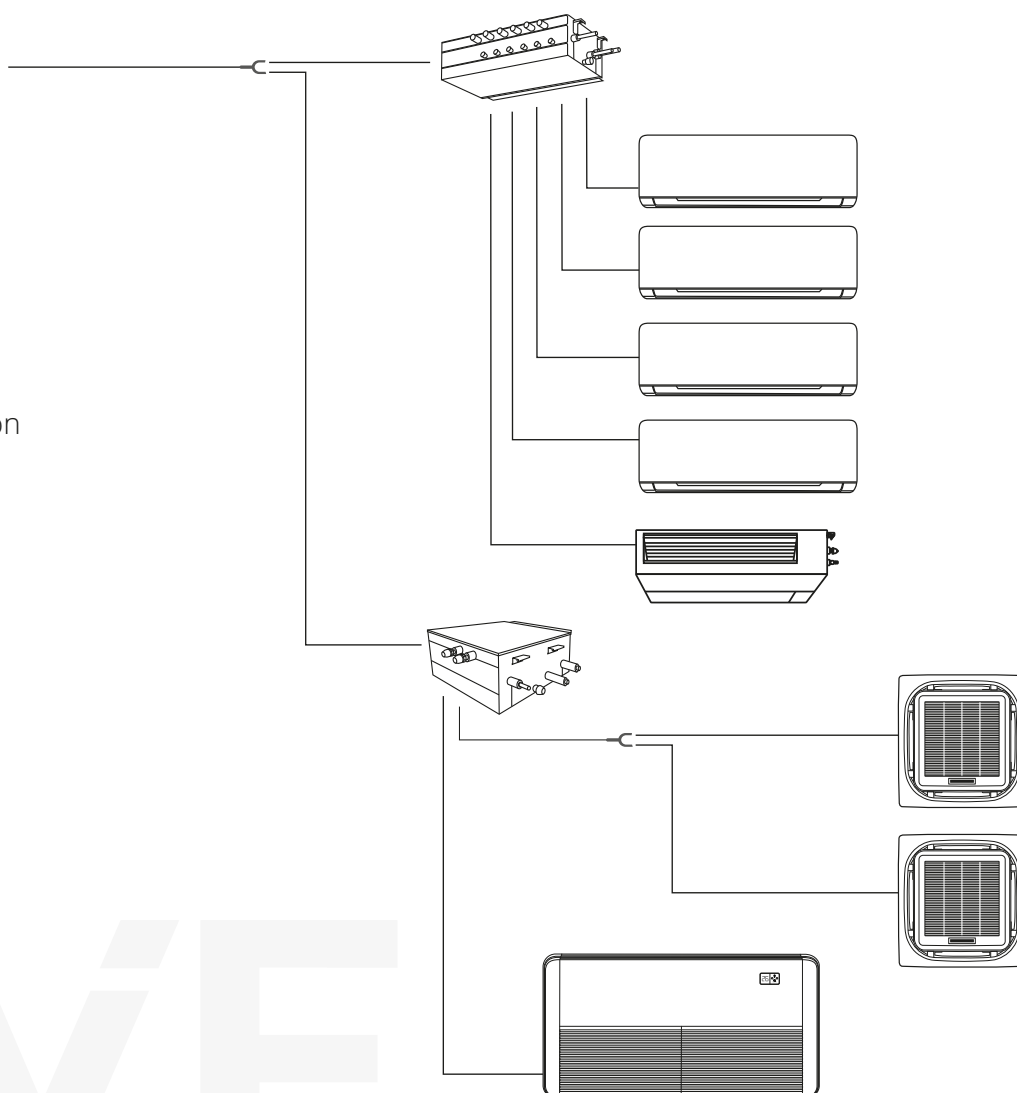
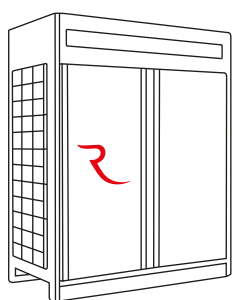
Series	RVF V5 with heat pump												
Capacity [kW]	25,2 kW	28,0 kW	33,5 kW	40,0 kW	45,0 kW	50,0 kW	56,0 kW	61,5 kW	67,0 kW	73,0 kW	78,0 kW	84,0 kW	90,0 kW
Capacity [HP]	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP	22 HP	24 HP	26 HP	28 HP	30 HP	32 HP
Compressor	EVI Scroll DC					EVI Scroll DC			EVI Scroll DC + EVI Scroll DC				
Fan motor	BLDC					BLDC + BLDC							

HR RVF solutions



HR RVF systems are three-pipe configurations distinguished by their capability to provide cooling and heating efficiently and independently for each room. The distribution of refrigerant, facilitating concurrent independent heating and cooling in distinct rooms through a single HR RVF system, is managed by the heat recovery HR Boxes

There's flexibility with HR RVF systems to merge units in a modular manner, achieving a combined output of up to 180 kW. These systems deploy outdoor units with vertical air discharge, and their outputs vary from 25.2 to 45 kW per unit. Notably, the heat exchanger of the outdoor unit is sectioned, ensuring that the defrost mode doesn't disturb the system's robust and continuous heating functionality, even under severe weather conditions.



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rvf@rotenso.com

HR
RVF



RVF-HRBOX02



RVF-HRBOX04



RVF-HRBOX06

Series	RVF HR with heat recovery		
Model	RVF-HRBOX02	RVF-HRBOX04	RVF-HRBOX06
Max. capacity of the connected indoor units	28 kW	45 kW	45 kW
Max. possible indoor unit connections	8	16	24



25,2 kW



28,0 kW



33,5 kW



40,0 kW



45,0 kW

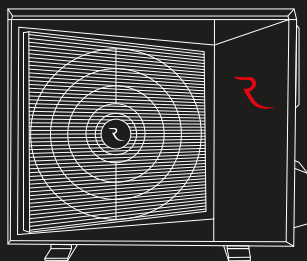
Series	RVF HR with heat recovery				
Capacity [kW]	25,2 kW	28,0 kW	33,5 kW	40 kW	45,0 kW
Capacity [HP]	8 HP	10 HP	12 HP	14 HP	16 HP
Compressor	Scroll DC		Scroll DC	Scroll DC + Scroll DC	
Fan motor	BLDC		BLDC + BLDC		

MINI RVF solutions



Rotenso MINI RVF systems are two-pipe configurations to connect up to 19 indoor units. These stand as a cost-effective alternative to numerous SINGLE, MULTI, or DUAL units. Notable features of these systems include an impressive total installation length of up to 120 m, a height difference of up to 30 m, and the ability to oversize the aggregate capacity of indoor units in relation to the outdoor unit up to 130%.

Based on outdoor units with horizontal air discharge, Rotenso MINI RVF systems span capacities from 10 to 33.5 kW. Owing to their vast unit variety, specification, and compact sizing, they're suitably employed across a range of medium-sized commercial, office, and residential buildings.



Full design and selection
assistance at:
rvf@rotenso.com

MINI RVF



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10,0 kW



12,5 - 16,0 kW



18,0 kW



22,4 kW



26,0 - 33,5 kW

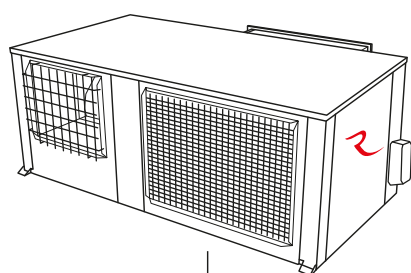
Series	miniRVF V5				miniRVF V4				
Capacity	10,0 kW	12,5 kW	14,0 kW	16,0 kW	18,0 kW	22,4 kW	26,0 kW	28 kW	33,5 kW
Compressor	Twin rotary DC							Scroll DC	
Fan motor	BLDC								
Max. number of indoor units	6	7	8	9	10	13	15	16	19

V-STAGE RVF solutions



The RVF V-STAGE system is tailor-made for buildings situated in conservation areas or challenging locations. It stands out due to the unique design of its outdoor unit, specifically adjusted for indoor installation. This system facilitates the connection of up to 13 indoor units and seamlessly integrates with air handling units, cooling or heating sections.

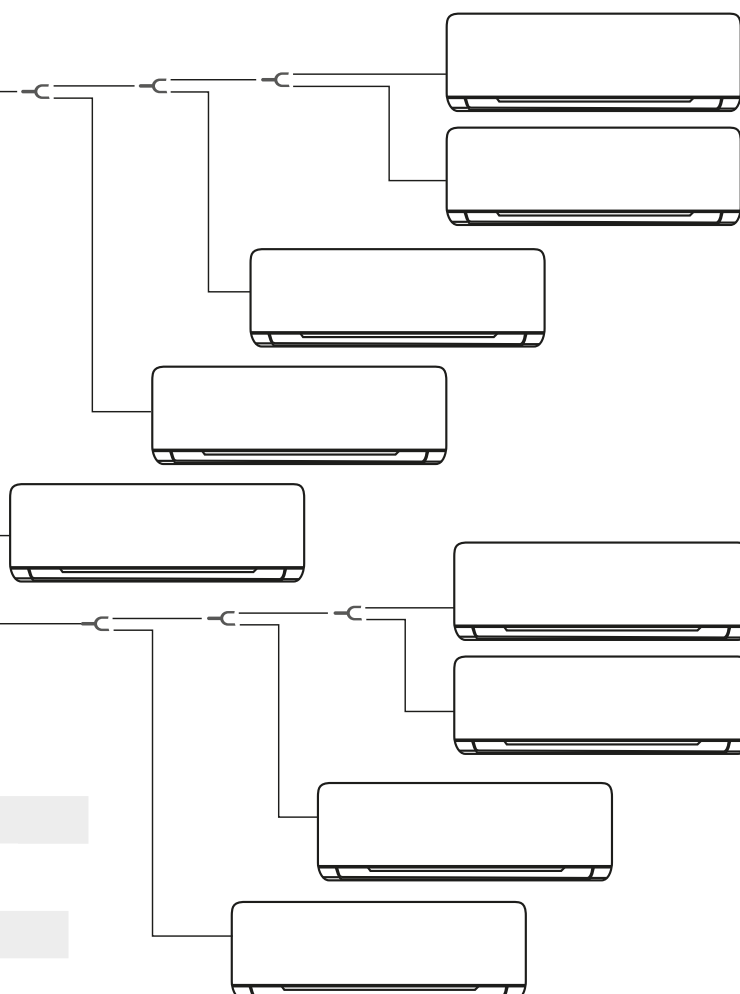
Twin rotary compressors, equipped with integrated crankcase heaters in RVF V-STAGE systems, ensure efficient heating even at outdoor temperatures down to -15°C . The system boasts significant flexibility in installation length, reaching up to 120 m, and a height difference of up to 30 m. The refrigerant system is routed via two pipes, optimizing space and conserving materials while hastening the installation process.



26

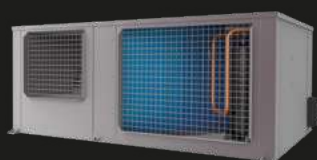
Full design and selection
assistance at:
rvf@rotenso.com

V-STAGE RVF

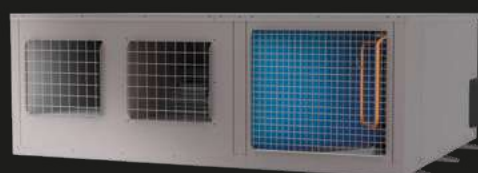




27



10,0 - 16,0 kW



22,4 kW

Series	RVF V-STAGE			
Capacity	10,0 kW	14,0 kW	16,0 kW	22,4kW
Compressor	Twin rotary DC			
Fan motor	BLDC			
Max. number of indoor units	6	8	9	13

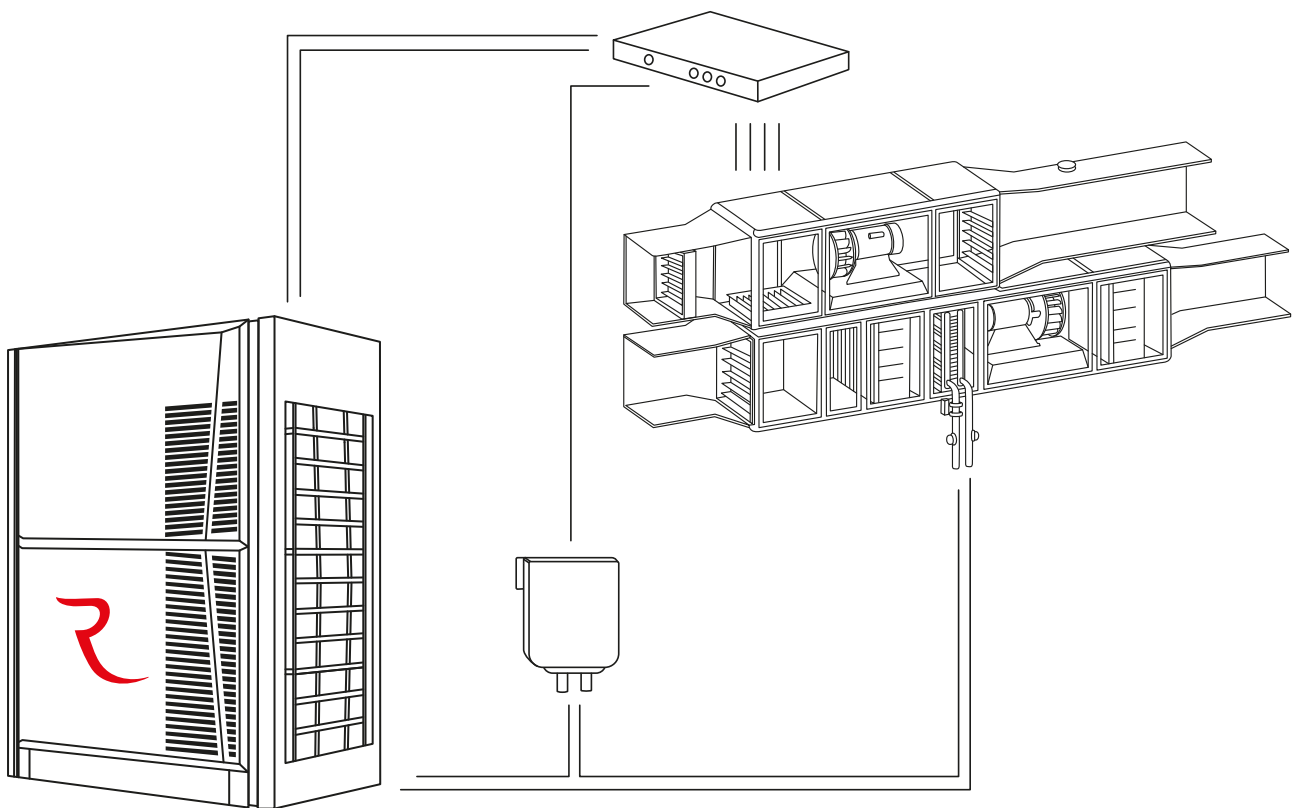
AHU RVF solutions

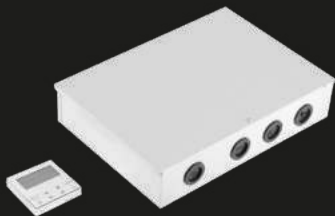
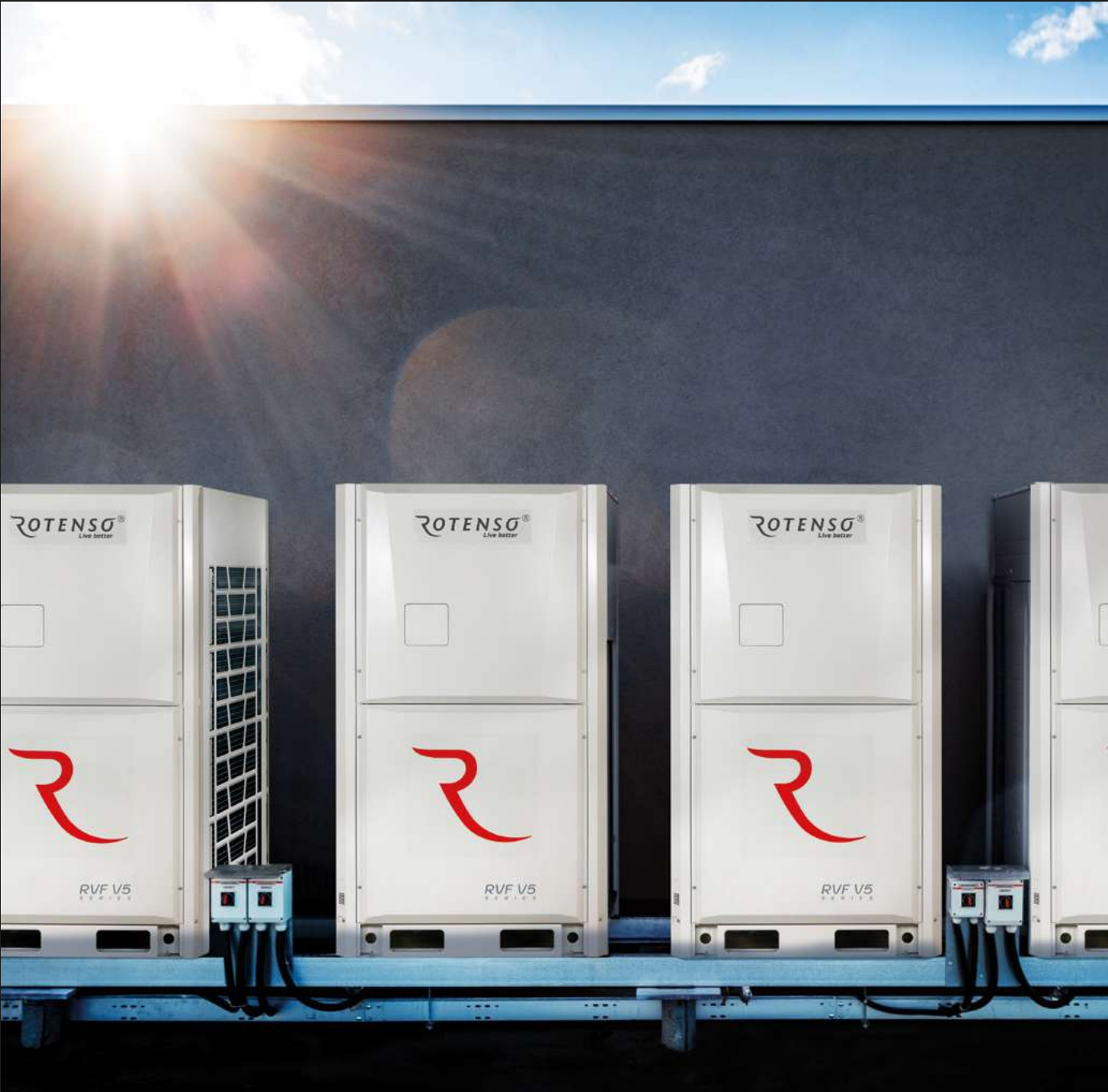


Rotenso's advanced solution permits the connection of RVF outdoor units to supply the freon heaters or coolers in air handling units.

These AHUs are fully integrated, encompassing built-in automation, an EXV expansion valve, temperature sensors, wiring and a controller.

With the Rotenso RVF AHU module, and using the included sensor kit, we can supply both the exchanger without sophisticated control and dedicated sensors and the air handling unit having its own automation with a 0-10 V signal output. A single RVF-AHU-KIT can accommodate up to 4 RVF-AHU-EXV valves.





RVF-AHU-KIT



RVF-AHU-EXV

	Automation	EXV valves			
Series	RVF-AHU-KIT	RVF-AHU-EXV-2-8	RVF-AHU-EXV-9-20	RVF-AHU-EXV-22-40	RVF-AHU-EXV-45-61
Capacity	-	2,0 - 8,0 kW	8,0 - 20,0 kW	20,0 - 40,0 kW	40,0 - 61,5 kW
0-10V control	•	•	•	•	•
ON/OFF Control	•	•	•	•	•

WE ARE FUTURE

Understanding **RVF system**

Rotenso RVF systems mean innovative solutions and modern technology, ensuring the units operate reliably for years, even under extreme weather conditions.

The comprehensive equipment line-up, coupled with an extensive range of units and flexible configuration capabilities, ensures user comfort. Moreover, designs can be customized to cater to the unique needs of various buildings – from residential homes and commercial spaces to public facilities. This includes apartments, health clinics, restaurants, industrial sites, commercial facilities, and multi-storey office buildings.

A wide-angle photograph of a city skyline at sunset. The sky is a mix of soft pinks, oranges, and blues. In the foreground, there are several multi-story residential or commercial buildings with balconies. In the mid-ground, the Palace of Culture and Science is prominent on the left, with its distinctive clock tower and spire. To its right are several modern skyscrapers, including a tall, thin, curved building and a more rectangular one. The overall scene captures a blend of historical and modern architecture.

RvF

WE ARE **FUTURE**

Designed for year-round operation



Cooling at up to 55°C

The V5 series RVF system consistently operates in cooling mode, even at extreme temperatures as high as 55°C. This performance is attributed to the efficient SKY[®] Inverter compressors and active PCB cooling.



Heating at down to -30°C

Employing top-tier components and pioneering operational algorithms, the unit operates even at outdoor temperatures down to -30°C. It achieves 100% capacity at outdoor temperature of -5°C and 85% efficiency at -15°C.



High capacity

EVI compressors with refrigerant vapour injection provides efficient and steady operation, even in the most extreme weather conditions.



Maximum output of max. 270 kW

RVE outdoor units can be modularly combined to achieve a higher system output. Maximum output for a single RVE V5 system is 270 kW.



Operational resistance in extreme weather conditions

Snow clearance feature for outdoor units

Accumulated snow on the outdoor unit can obstruct airflow and may cause damage to the motor.

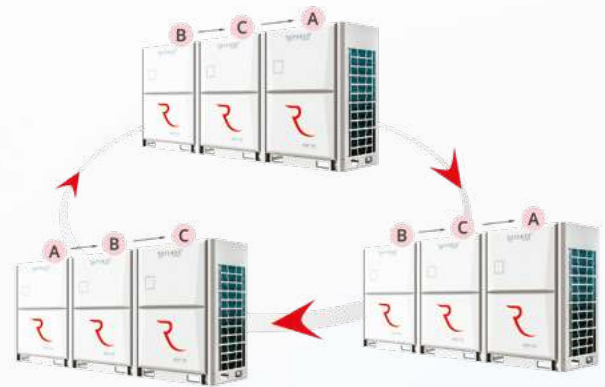
With the unit's snow clearance feature, activated when temperatures fall below 0°C, the fan automatically revs up to maximum speed during startup, casting off any snow accumulation.



Intelligent SMART defrost

All RVF systems activate their defrost mechanism only when essential, reducing the frequency of defrost mode activation. This minimizes temperature swings and potential discomfort.

However, HR RVF systems are an exception. Thanks to the segmentation of the outdoor unit's exchanger and the utilization of a three-pipe system, they maintain consistent operation during defrosting, irrespective of the weather.

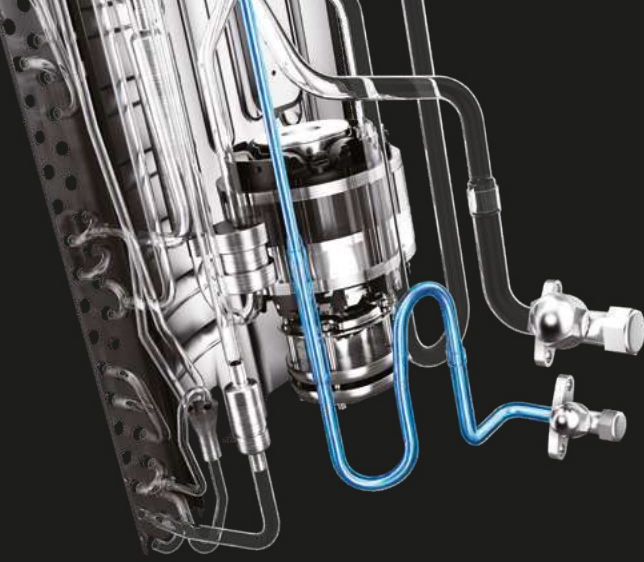


Alternating operation of outdoor units

For modularly connected systems, the embedded algorithm perpetually monitors the function of individual modules.

To maximize the system's lifespan, this algorithm ensures the units operate alternately for even wear. Moreover, if a unit fails, the algorithm commands the other units to compensate for the inactive one.

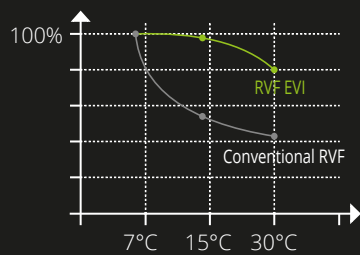




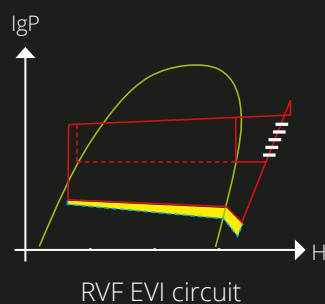
High efficiency of EVI SKY^R DC Inverter compressors

Thanks to the use of the EVI SKY^R DC Inverter compressors, all RVF V5 air conditioning systems can:

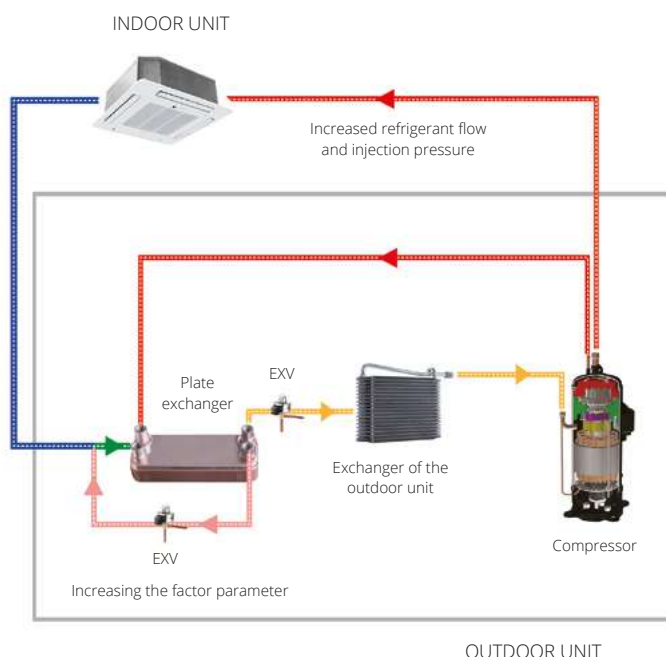
- operate in heating mode at outdoor temperature of -30°C.
- achieve 85% efficiency at outdoor temperature of 15°C
- operate in cooling mode at an outdoor temperature of +55°C



RVF with EVI compressor /
RVF with scroll compressor



Rotenso's new RVF V5 series is equipped with state-of-the-art Scroll EVI DC Inverter compressors (featuring Enhanced Vapour Injection – an additional interstage refrigerant vapour injection) and 'brushless' DC fan motors. This technological advancement significantly boosts the energy efficiency of the equipment in both cooling and heating modes.



Using the highly efficient EVI technology, the innovative RVF V5 air conditioning systems provide economical and reliable solutions for both air conditioning and heating.

Their unlimited configuration possibilities come from the modular combination of outdoor units (up to 270 kW) and up to 100 indoor units. This adaptability allows for creation of customised air-conditioning systems suitable for a vast range of commercial buildings.

Furthermore, RVF V5 systems maintain stable operation in heating mode, even in extreme weather conditions at outdoor temperatures down to -30°C. Hence, a properly designed system not only serves as an air-conditioning unit but can also function as a standalone heat source.

EVI - Improved steam injection design

Two-stage throttling with indirect injection. This energy-efficient, safe, and reliable technology notably boosts heating performance, especially at ultra-low temperatures.

Asymmetric scroll design

This design increases capacity and minimizes the pressure difference between two chambers which results in reduction in vibrations and noise levels.

Additionally, this design ensures optimal compression, safeguarding the compressor.

Innovative structure design of the counter-pressure maintenance component

This is a specially developed design optimized for refrigerant flow.

Bypass valve

This component prevents compressor damage due to overloading.

Efficient oil recovery design

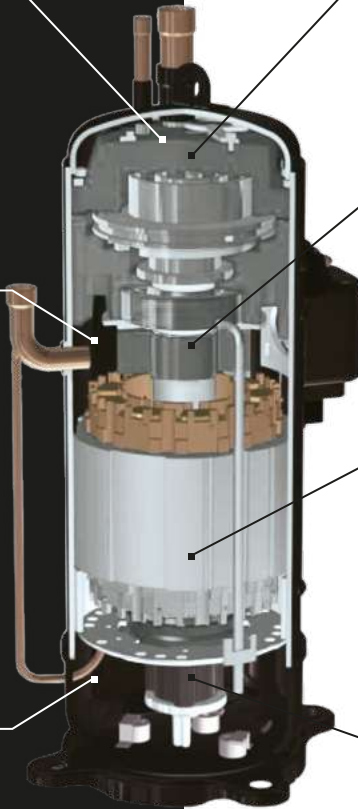
The precise grooved design of the oil recovery tube guarantees comprehensive lubrication of the compressor, thus prolonging the unit's lifespan.

Centralized winding design

Compared to traditional motors with distributed windings, the new motor windings are centralized, offering a notable enhancement.

Built-in oil pump

Automatic oil feed system has been applied to enhance compressor reliability during high-frequency operation.





Built-in compressor crankcase heater

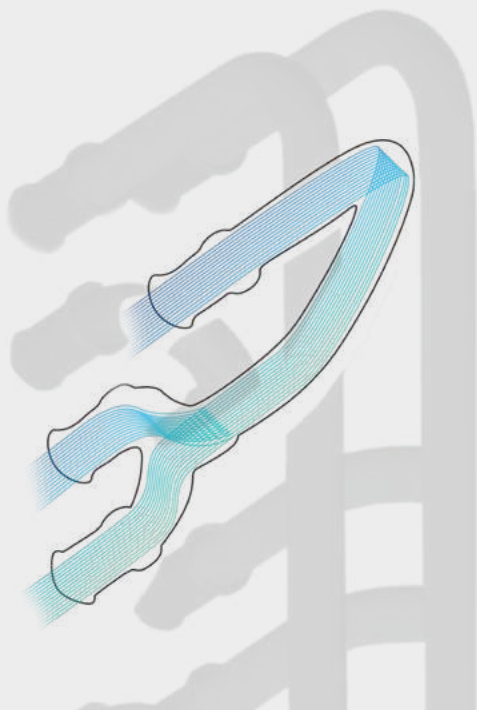
Rotenso's RVF V5 systems, designed for year-round operation, perform efficiently in heating mode even at extreme low outdoor temperatures of -30°C .

A built-in crankcase heater ensures the compressor's reliability, safeguarding it and preparing it for hassle-free start-ups in colder conditions, thereby extending the outdoor unit's lifespan.



Y-shaped refrigerant flow path design

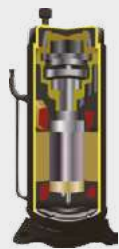
This design and the exchanger's piping arrangement allows a uniform temperature distribution across its surface to maintain optimal exchanger performance and minimize the number of defrost cycles.





Five-stage compressor oil management **technology**

1.



Oil separation
inside the
compressor

2.



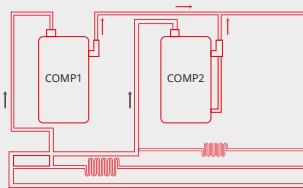
Oil return
from compressor

3.



Oil return from
oil separator

4.

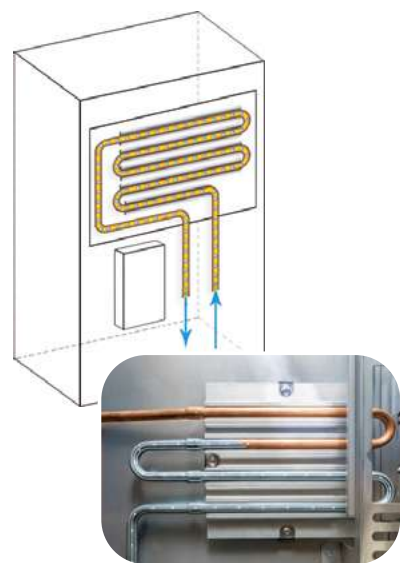


Keeping oil level
between the
compressors

5.



SMART system for
compressor oil
management



Active cooling of the **outdoor unit's PCB**

The refrigerant actively cools the motherboard of the outdoor unit electronics and automation to keep it at a safe temperature in extreme weather conditions, even up to +55°C.

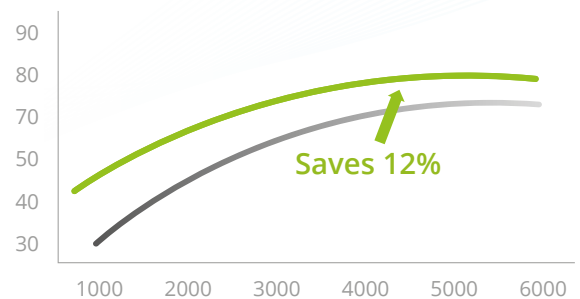
The reliability and durability of the systems of Rotenso RVF air conditioning systems is due to the protection of the main components.



SKY^R operation control

With the integration of frequency control technology and a superior inverter system, the system is decreasing reactive losses and enhances motor efficiency by 12%.

Capacity %



40

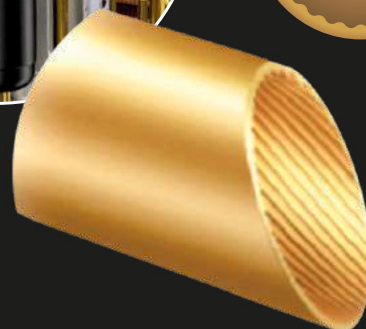


Grooved pipework structure

Internally grooved pipework boasts high thermal conductivity. Its grooved fins refract the boundary layer of fluid flow, enhancing its distribution and subsequently boosting the efficiency of heat transfer.



Now with
54 grooves





HD electrostatic filter

One of the most effective air filtration systems.
High density and performance combined.
Electrostatic discharge effectively captures
positively or negatively charged particles, ensuring
clean air is circulated to premises.



iAIR X-shaped fins



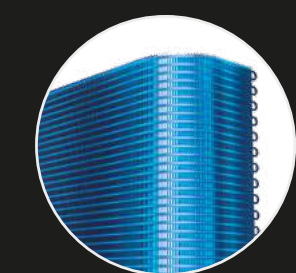
**SKY^R - operating
time management**

Pipes grooved inside



X-shaped iAIR fins

The utilization of X-shaped fins lowers air
resistance and amplifies the heat transfer
coefficient. The fins' unique design is also helpful in
heat exchanger's defrosting process.





Silent as hum of
the forest

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Super silent **iAIR fan**

The anti-vibration design of the fan blade face and its unique design diminish air vibrations, consequently reducing the unit's operational noise.



Super silent night-time **eMOTO mode**

Decreases the outdoor unit's operating noise by up to 10 dB* in night-time mode. 8/10 night-time mode assumes that after six hours following the highest outdoor temperature record the device switches to night-time mode for another 10 hours.

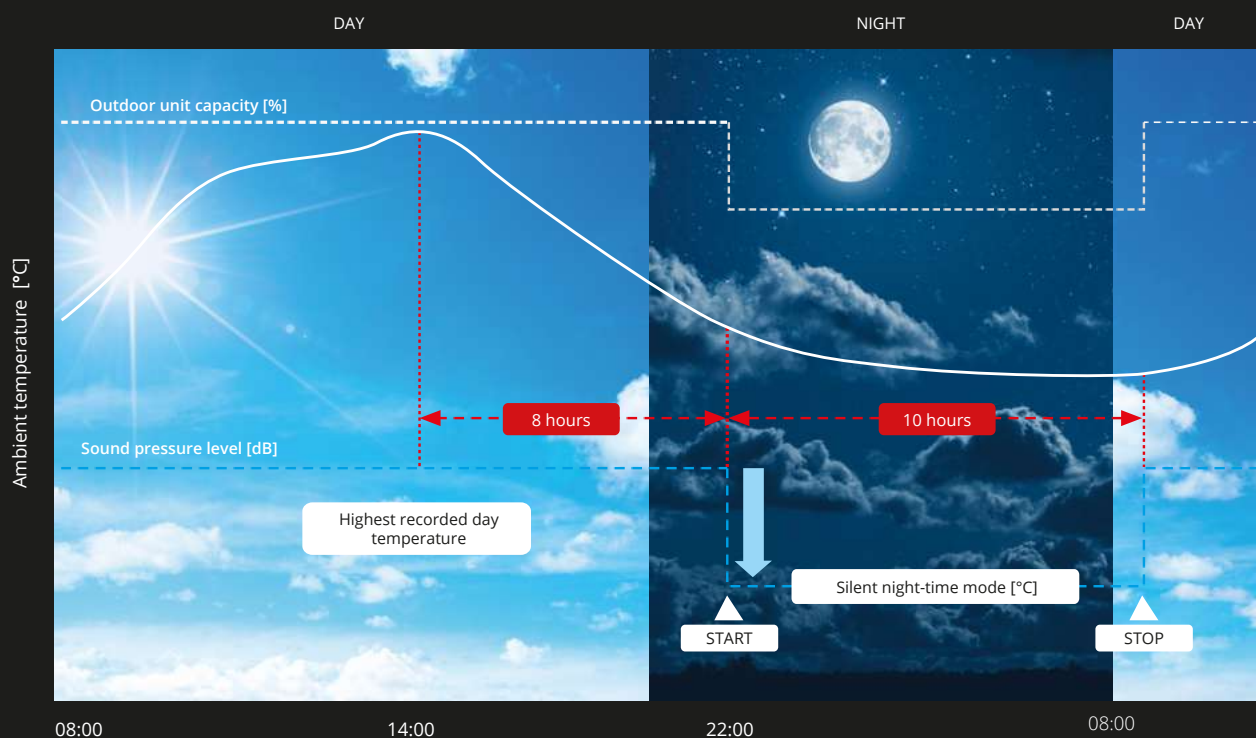
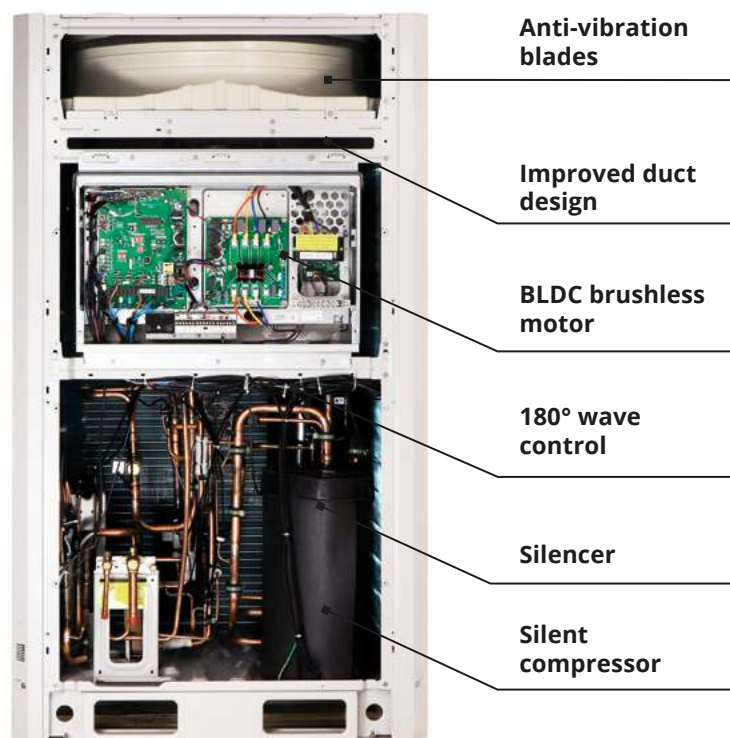
*This feature is available on selected models and reduces the maximum capacity of the outdoor unit.



Super silent eMOTO mode

Consistently decreases the outdoor unit's operating noise by up to 10 dB*.

* This feature is available on selected models and reduces the maximum capacity of the outdoor unit.



Extensive configuration options

Multiple equipment combination possibilities

Rotenso RVF systems present the opportunity to combine various indoor units of diverse types and capacities.





Even 100 indoor units connected

As many as 100 indoor units can be integrated into a singular RVF V5 system, facilitating the creation of diverse air-conditioning system configurations.



Indoor units system can be potentially oversized up to 130% of the outdoor unit's capacity

The aggregate power of all connected indoor units can equate to 130% of the outdoor unit system's nominal power supply.



Compatibility with air handling units

Using RVF AHUs, you can connect any Rotenso RVF outdoor units to the freon coolers/heaters present in the air handling units.

Rotenso RVF outdoor units, in conjunction with the AHU module connection for air handling unit, constitute an optimal solution for cooling or heating operations.

Crucially, the smart modules detect outdoor temperatures and automatically switch to required mode: cooling or heating.



Compatibility with MODBUS building management system (BMS)

The gateway facilitates integration into a smart facility management system through the MODBUS protocol. A singular MODBUS gateway is required for each setup.



Compatibility with BACNET building management system (BMS)

The BACNET gateway allows for integration into a smart facility management system using the BACNET protocol. A singular MODBUS+BACNET gateway is required for each setup.



90kW


Peak output for an individual unit – 90 kW

The maximum output for a single outdoor unit is 90 kW.



Comprehensive equipment range

Rotenso RVF systems comprise a wide range units starting from as low as 10 kW up to 270 kW.



Full compatibility of units

All RVF indoor units come equipped with an integrated expansion valve and are versatile, making them compatible with every Rotenso RVF solution, including: RVF V5, RVF HR, miniRVF V4, miniRVF V5, and RVF V-STAGE.



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Emergency mode

If unit's component fails, be it a compressor, a fan, or the complete outdoor unit, other units step in to take its place, ensuring the system operates per the predetermined settings.





Impressive installation lengths

Thanks to a maximum length of 1000 meters and an allowable height difference of 110 meters, RVF Rotenso systems can be applied for extensive air conditioning setups, especially in large, multi-storey buildings. A single air conditioning system covering both an underground parking lot and the premises of a 20-storey building is now feasible.



Two-pipe installation

Two-pipe freon setup distributed using system tees in Rotenso RVF systems reduces space, material use, and trims installation duration that's typically required for establishing a completely distinct installation for every indoor unit.



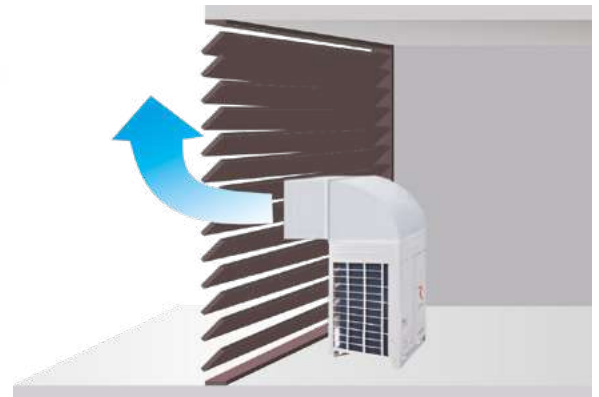
RVF system tees

RVF system tees consist of a pair of manifolds (for gas and liquid pipes) used in Rotenso DUAL and RVF systems. Rotenso's self-cut manifolds come in assorted size categories and are paired with specialized thermal insulation, greatly accelerating and simplifying installation processing.



Indoor installation **capability**

RVF V-STAGE systems are designed to provide air-conditioning systems in buildings where the outdoor unit mounting on the facade or roof isn't possible due to size constraints or historical significance. Owing to the RVF V-STAGE outdoor unit's distinctive design and the employment of a centrifugal fan powered by a DC motor, a high external static pressure of up to 90 Pa is attainable. This permits both the air intake and discharge to accommodate a straight-lined duct length of up to 15 m. This strategy permits the unit's full enclosure inside a building, for instance, within a technical room.



Exhaust fan **enclosed installation**

Utilizing a fan powered by a DC motor results in an elevated available pressure. The RVF V5 and RVF HR outdoor units can be positioned on higher floors or within utility rooms. Maximum external static pressure for RVF V5 is 110 Pa.

Simplified system diagnostics



Inspection flap on the frontal cover

Easy for usage and maintenance, RVF V5 air conditioning systems let users verify the outdoor unit's status and configurations without detaching the front cover.

Diagnostic display can be accessed through the compact inspection window.



RVF-DIAG system diagnostics

RVF-DIAG is a diagnostic kit with integrated service instructions and software to monitor key parameters of system operation in real time:

- operation status,
- error codes,
- compressor, valve and sensor data,
- track system operation,
- create automatic operation history record.

RVF-DIAG unit is connected to the outdoor unit via RS-485 port of the parent outdoor unit.

The diagnostic dongle is wire-connected to the computer via a USB port. One RVF-DIAG system and one computer are required for a single RVF system. The Doctor Kit software is used for the diagnostics.

Check
error codes

Set-up

Start-up



RVF V5



RVF-DIAG





Remote diagnostics TUYA

The use of intelligent air conditioning system management algorithms allows for remote control, start-up and diagnostics of the system using a tablet or smartphone via the TUYA application, which allows for real-time control and monitoring of the most important operating parameters of the indoor units.



Remote controlling TUYA

The RVF air conditioning system is managed by the intelligent TUYA application supported by the following systems: iOS and Android. The TUYA application is used via the RVF-SMARTBOX-X central control module, the RVF-TSCC-X central controller or the RVF-WC3-WIFI individual controller.

The TUYA application allows you to simultaneously remotely control the internal units operating in the system, both individually and in groups. A simple and clear interface makes it easy to quickly view and change the operating parameters of the system or individual internal units.

The available functions are:

- turn the unit on/off,
- set the supply temperature,
- change the operating mode,
- block the operating mode,
- change the fan speed,
- enable the SWING option,
- weekly management plan.



Computer



Doctor Kit II
software



WE ARE COMFORT

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Outdoor units
for RVF systems



WE ARE **COMFORT**



Air Conditioning systems

RVF V5

Rotenso RVFs allow for the creation of bespoke and extensive systems that efficiently cool or heat buildings, even under extreme weather conditions.

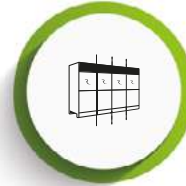
Rotenso RVFs are cost-effective two-pipe systems boasting impressive installation lengths of up to 1000 metres and a height difference exceeding 100 metres. They reduce material consumption and installation time.

Benefits of the Rotenso RVF systems encompass the capability to connect up to 100 indoor units in a single system with a total capacity of these indoor unit reaching up to 130% of the outdoor units' capacity.





V5 RVF



Combinable
modules



EVI
compressors



Heating at down
to -30°C



Active PCB
cooling



Quick and easy
diagnostics



Impressive
installation
lengths



Combinable modules

Rotenso RVF V5 outdoor units offer outputs ranging from 25.2 kW to 90 kW for a single unit, with the option of modular combinations of outdoor units up to a cumulative output of 270 kW.



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PCB active refrigerant-cooling

Core components of the devices are well protected to ensure their reliability and longevity. The refrigerant cools the inverter module board, maintaining it at a safe temperature, even at outdoor temperatures reaching +55°C.

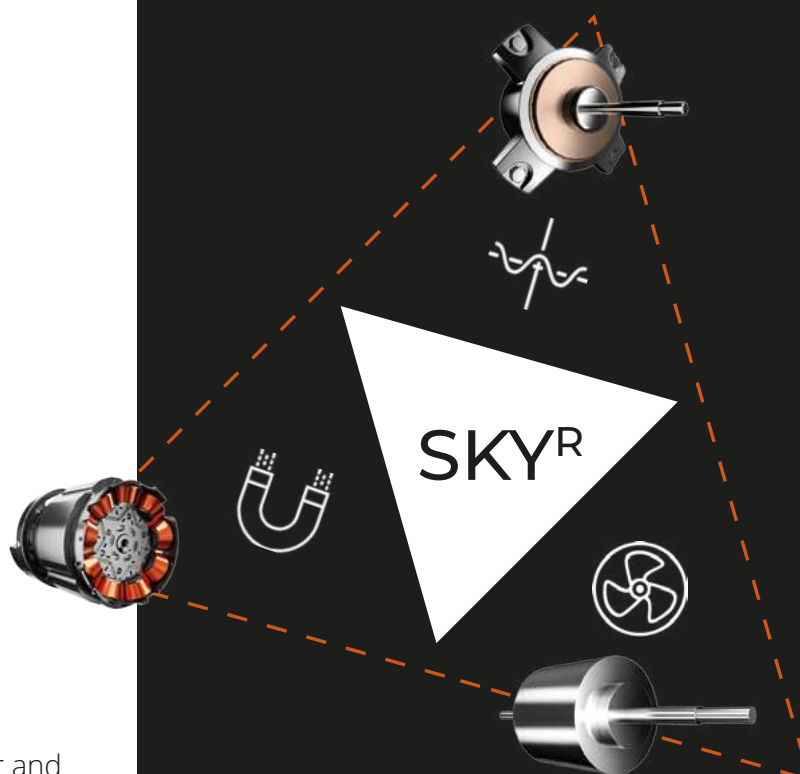


Quick and easy diagnostics

Compact inspection hatch for the diagnostic display to check the status and settings of the outdoor unit without the need to remove the front cover.

EVI compressors with refrigerant vapour injector

At the core of the Full RVF V5 systems lie SCROLL compressors equipped with EVI technology. With refrigerant vapour injector and crankcase heaters, they ensure efficient heating even at temperatures down to -30°C .



Heating at down to -30°C

Rotenso RVF systems maintain 100% performance in heating mode at outdoor temperatures down to -5°C and 85% performance at outdoor temperatures down to -15°C .



Impressive installation lengths

These solutions feature extraordinary installation length capacity – reaching 1000 m and a height difference of up to 110 m.

Liquid/gas installation guidelines



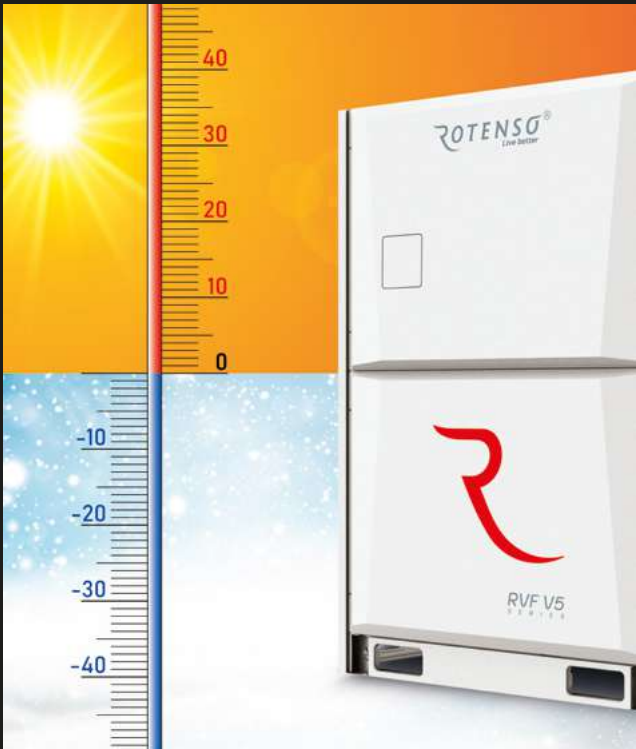
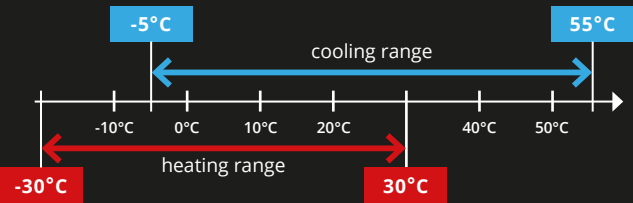
A. Total installation lengthi	1000 m
B. Max. distance from indoor unit to outdoor unit	240 m
C. Vertical distance from indoor unit to outdoor unit	110 m*
	90 m**
D. Vertical distance between indoor units	40 m
E. Distance from the manifold to the last indoor unit	90 m
F. Distance from HR Box to indoor unit	-

* outdoor unit above the indoor unit ** outdoor unit below the indoor unit Each distributor corresponds to 0,5 pipe lengths.

Wide operating range

System with a heat pump

The RVF V5 system, utilising the most advanced components and control features, can function efficiently even under extremely high and low temperatures.



RVF V5

25,2-270,0 kW



RVF



Rotenso participates in the EUROVENT programme.
Check ongoing validity of certificate:
www.eurovent-certification.com

Features device

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Refrigerant
R410A



Modular
combination
available



Up to 100
indoor units



Built-in
EXV valve



SCROLL EVI
compressor



Active PCB
cooling



Compatible with
air handling units



SMART outdoor
unit snow
clearance



SMART
defrost



IAIR
X-shaped fin



Internally
grooved pipes



Y-shaped
refrigerant flow
path design



IAIR
cross-flow
fans



Vertical air
discharge



Whisper-quiet
fan



Super silent
eMOTO mode



Super silent
night-time
eMOTO mode



Automatic
addressing



Manual
addressing



Indoor units can total
130% of the outdoor
unit's capacity



100% heating
power at -5°C



85% heating
power at -15°C



Cooling even at
55°C



ESP
of 110Pa



Waterproof
rating IPX4



Enclosed fan
installation



Inspection hatch on
the frontal cover



Service remote
control for indoor
unit addressing



Compatible with all
RVF indoor units



Emergency
mode



Digital DC SKY®
Inverter



Compressor
crankcase heater



Total installation
length up to 1000m



Heating at low
outdoor temp.
down to -30°C



PCB system
diagnostics



Remote control
TUYA WI-FI⁽¹⁾



Compatibility
with BMS⁽¹⁾



Central
controller output⁽¹⁾

1. Optional using accessories.

Technical specification

(25,2-56,0 kW)



Rotenso participates in the ECP programme for Variable Refrigerant Flow. Check ongoing validity of certificate: www.eurovent-certification.com

Model			RVF-252V50MM	RVF-280V50MM	RVF-335V50MM	RVF-400V50MM	RVF-450V50MM	RVF-500V50MM	RVF-560V50MM
EAN product code			5905567607271	5905567607288	5905567607295	5905567607301	5905567607318	5905567607325	5905567607332
Package power		HP	8	10	12	14	16	18	20
Max. number of indoor unit		pcs	14	16	19	23	26	29	33
Cooling	Capacity (Nom.)	kW	25,2	28	33,5	40	45	50	56
	Rated input (Nom.)	kW	5,31	6,22	8,35	9,76	11,63	12,22	14,66
	EER	W/W	4,75	4,50	4,01	4,10	3,87	4,09	3,82
	SEER	W/W	8,15	7,66	6,84	6,98	6,81	6,80	7,12
Heating	Capacity (Nom.)	kW	27,4	31,5	37,5	45	50	56,0	63,0
	Rated input (Nom.)	kW	4,98	5,86	7,35	9,34	10,87	11,89	14,16
	COP	W/W	5,50	5,38	5,10	4,82	4,60	4,71	4,45
	SCOP	W/W	4,11	4,11	4,12	4,10	4,10	4,09	4,09
Reversible heat pump type			Air-to-air						
Compressor	Type		Hermetically sealed EVI scroll						
	Quantity		1	1	1	1	1	1	1
Fan motor	Type		BLDC inverter motor						
	Quantity		1	1	1	1	1	2	2
	External static pressure	Pa	110	110	110	110	110	110	110
Refrigerant	Type		R410a	R410a	R410a	R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088	2088	2088	2088
	Valve type		Electronic EXV						
	Quantity	kg	9	9	11	14	14	15	16
		TCO _{2eq}	18,79	18,79	22,97	29,23	29,23	31,32	33,41
Sound pressure level		dB(A)	58	58	60	60	61	62	63
Sound power level		dB(A)	78	80	83	85	88	88	88
Net dimensions	W × H × D	mm	990 × 1740 × 840	990 × 1740 × 840	990 × 1740 × 840	1340 × 1740 × 840	1340 × 1740 × 840	1340 × 1740 × 840	1340 × 1740 × 840
Gross dimensions	W × H × D	mm	1060 × 1900 × 910	1060 × 1900 × 910	1060 × 1900 × 910	1410 × 1900 × 910	1410 × 1900 × 910	1410 × 1900 × 910	1410 × 1900 × 910
Bracket spacing	W × D	mm	720 × 774	720 × 774	720 × 774	1070 × 774	1070 × 774	1070 × 774	1070 × 774
Net weight / Gross weight		kg	228 / 240	228 / 240	230 / 242	275 / 293	275 / 293	285 / 303	290 / 308
Pipe connections	Liquid / Gas	mm (inch)	Φ12,7 / Φ22,2 (1/2" / 7/8")	Φ12,7 / Φ22,2 (1/2" / 7/8")	Φ12,7 / Φ22,2 (1/2" / 7/8")	Φ15,9 / Φ28,6 (5/8" / 1 1/8")	Φ15,9 / Φ28,6 (5/8" / 1 1/8")	Φ15,9 / Φ28,6 (5/8" / 1 1/8")	Φ15,9 / Φ28,6 (5/8" / 1 1/8")
Electrical system									
Cables	PQE communication	pcs × mm ²	3 × 0,75-1,0 (shielded)						
	Power supply	pcs × mm ²	According to the electrical system design						
Protection		A	According to the electrical system design						
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5-55 / -30~30	-5-55 / -30~30	-5-55 / -30~30	-5-55 / -30~30	-5-55 / -30~30	-5-55 / -30~30	-5-55 / -30~30

RVF modular units can be integrated with one another in any desired combination. Based on the selected units and the lengths of individual installation segments, the cooling pipe diameters might vary from the standard ones. The diameters for individual installation segments should be crafted following the curated selection report, once the design lengths of the installation have been input, and in line with the service manual.

Annotations:

Operating temperature for cooling: -5°C to 55°C. Operating temperature for heating: -30°C to 30°C

Cooling conditions: indoors 27°C (80.6°F) DB, 19°C(60°F) WB, outdoors 35°C (95°F) DB

Heating conditions: indoors 20°C (68°F) DB, 15°C(44.6°F) WB, outdoors 7°C (42.8°F) DB

Noise level: measured 1 m away from the unit and at a height of 1.5 m (under test conditions). Values might slightly fluctuate based on environmental conditions.

Due to continuous refinements in our units, the aforementioned technical data can change without prior notice.



25,2 - 33,5 kW



40,0 - 45,0 kW



50,0 - 56,0 kW

Technical specification

(61,5-90,0 kW)



Rotenso participates in the ECP programme for Variable Refrigerant Flow. Check ongoing validity of certificate: www.eurovent-certification.com

Model			RVF-615V50MM	RVF-670V50MM	RVF-730V50MM	RVF-785V50MM	RVF-850V50MM	RVF-900V50MM
EAN product code			5905567607349	5905567607356	5905567607363	5905567607370	5905567607387	5905567607394
Package power		HP	22	24	26	28	30	32
Max. number of indoor unit		pcs	36	39	43	46	50	53
Cooling	Capacity (Nom.)	kW	61,5	67	73	78,5	85	90
	Rated input (Nom.)	kW	16,62	16,71	18,18	20,03	22,37	24,79
	EER	W/W	3,70	4,01	4,02	3,92	3,80	3,63
	SEER	W/W	7,07	6,70	6,50	6,30	6,20	6,15
Heating	Capacity (Nom.)	kW	69,0	75,0	81,5	87,5	95,0	100,0
	Rated input (Nom.)	kW	16,8	14,72	16,78	18,5	21,35	24,33
	COP	W/W	4,11	5,10	4,86	4,73	4,45	4,11
	SCOP	W/W	4,10	4,00	3,90	3,80	3,80	3,70
Reversible heat pump type			Air-to-air					
Compressor	Type		Hermetically sealed EVI scroll					
	Quantity		1	2	2	2	2	2
Fan motor	Type		BLDC inverter motor					
	Quantity		2	2	2	2	2	2
	External static pressure	Pa	110	110	110	110	110	110
Refrigerant	Type		R410a	R410a	R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088	2088	2088
	Valve type		Electronic EXV					
	Quantity	kg	16	16	20	20	23	23
		TCO _{2eq}	33,41	33,41	41,76	41,76	48,02	48,02
Sound pressure level		dB(A)	63	62	63	63	64	64
Sound power level		dB(A)	88	92	93	93	94	94
Net dimensions	W × H × D	mm	1340 × 1740 × 840	1990 × 1740 × 840	1990 × 1740 × 840	1990 × 1740 × 840	1990 × 1740 × 840	1990 × 1740 × 840
Gross dimensions	W × H × D	mm	1410 × 1900 × 910	2060 × 1900 × 910	2060 × 1900 × 910	2060 × 1900 × 910	2060 × 1900 × 910	2060 × 1900 × 910
Bracket spacing	W × D	mm	1070 × 774	1720 × 774	1720 × 774	1720 × 774	1720 × 774	1720 × 774
Net weight / Gross weight		kg	297 / 315	388 / 406	433 / 452	433 / 452	480 / 498	480 / 498
Pipe connections	Liquid / Gas	mm (inch)	Φ15,9 / Φ28,6 (5/8" / 1 1/8")	Φ15,9 / Φ28,6 (5/8" / 1 1/8")	Φ22,2 / Φ35 (7/8" / 1 3/8")	Φ22,2 / Φ35 (7/8" / 1 3/8")	Φ22,2 / Φ35 (7/8" / 1 3/8")	Φ22,2 / Φ35 (7/8" / 1 3/8")
Electrical system								
Cables	PQE communication	pcs × mm ²	3 × 0,75-1,0 (shielded)					
	Power supply	pcs × mm ²	According to the electrical system design					
Protection		A	According to the electrical system design					
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

RVF modular units can be integrated with one another in any desired combination. Based on the selected units and the lengths of individual installation segments, the cooling pipe diameters might vary from the standard ones. The diameters for individual installation segments should be crafted following the curated selection report, once the design lengths of the installation have been input, and in line with the service manual.

Annotations:

Operating temperature for cooling: -5°C to 55°C. Operating temperature for heating: -30°C to 30°C

Cooling conditions: indoors 27°C (80.6°F) DB, 19°C (60°F) WB, outdoors 35°C (95°F) DB

Heating conditions: indoors 20°C (68°F) DB, 15°C (44.6°F) WB, outdoors 7°C (42.8°F) DB

Noise level: measured 1 m away from the unit and at a height of 1.5 m (under test conditions). Values might slightly fluctuate based on environmental conditions.

Due to continuous refinements in our units, the aforementioned technical data can change without prior notice.



61,5 kW



67,0 kW



73,0 - 90,0 kW

Combination table for modules 25,2-90,0 kW

Output HP	Model	Cooling capacity (kW)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP	Suggested max. number of indoor units
8	RVF-252V5OMM	25,2	•													14
10	RVF-280V5OMM	28,0		•												16
12	RVF-335V5OMM	33,5			•											19
14	RVF-400V5OMM	40,0				•										23
16	RVF-450V5OMM	45,0					•									26
18	RVF-500V5OMM	50,0						•								29
20	RVF-560V5OMM	56,0							•							33
22	RVF-615V5OMM	61,5								•						36
24	RVF-670V5OMM	67,0									•					39
26	RVF-730V5OMM	73,0										•				43
28	RVF-785V5OMM	78,0											•			46
30	RVF-835V5OMM	84,0												•		49
32	RVF-900V5OMM	90,0													•	53
34	RVF-950V5OMM	95,0					•	•								56
36	RVF-1000V5OMM	100,0						••								59
38	RVF-1065V5OMM	106,5					•			•						63
40	RVF-1115V5OMM	111,5						•		•						66
42	RVF-1175V5OMM	117,5							•	•						69
44	RVF-1230V5OMM	123,0								••						72
46	RVF-1285V5OMM	128,5								•	•					76
48	RVF-1340V5OMM	134,0									••					79
50	RVF-1400V5OMM	140,0								•			•			82
52	RVF-1455V5OMM	145,5									•		•			86
54	RVF-1520V5OMM	152,0									•			•		89
56	RVF-1570V5OMM	157,0									•				•	92
58	RVF-1630V5OMM	163,0										•			•	96
60	RVF-1685V5OMM	168,5											•		•	99
62	RVF-1750V5OMM	175,0												•	•	100
64	RVF-1800V5OMM	180,0													••	100
66	RVF-1845V5OMM	184,5								•••						100
68	RVF-1900V5OMM	190,0								••	•					100
70	RVF-1955V5OMM	195,5								•	••					100
72	RVF-2015V5OMM	201,5								••			•			100
74	RVF-2070V5OMM	207,0						•					••			100
76	RVF-2125V5OMM	212,5									••		•			100
78	RVF-2185V5OMM	218,5								•			••			100
80	RVF-2240V5OMM	224,0									•		••			100
82	RVF-2300V5OMM	230,0										•	••			100
84	RVF-2355V5OMM	235,5											•••			100
86	RVF-2420V5OMM	242,0											••	•		100
88	RVF-2470V5OMM	247,0											••		•	100
90	RVF-2530V5OMM	253,0										•			••	100
92	RVF-2585V5OMM	258,5											•		••	100
94	RVF-2650V5OMM	265,0												•	••	100
96	RVF-2700V5OMM	270,0													•••	100

RVF outdoor units (25,2-90 kW) can be combined freely in systems of up to 3 modules. The maximum capacity of a single unit is 32 HP.
RVF outdoor units (25,2-67 kW) can be combined freely in systems of up to 4 modules. The maximum capacity of a single unit is 24 HP.

RVF modular outdoor units can be integrated with one another in any desired combination.
Based on the selected units and the lengths of individual installation segments, the cooling pipe diameters might vary from the standard ones.
The diameters for individual installation segments should be crafted following the curated selection report, once the design lengths of the installation have been input, and in line with the service manual.
Operating temperature for cooling: -5°C to 55°C. Operating temperature for heating: -30°C to 30°C.
Cooling conditions: Indoors 27°C (80.6°F) DB, 19°C (60°F) WB, Outdoors 35°C (95°F) DB. Heating conditions: Indoors 20°C (68°F) DB, 15°C (44.6°F) WB, Outdoors 7°C (42.8°F) DB.
Noise level: Measured 1 m away from the unit and at a height of 1.5 m (under test conditions). Values might slightly fluctuate based on environmental conditions. Due to continuous refinements in our units, the aforementioned technical data can change without prior notice.

Combination of two modules (95,0-117,5 kW)

Model (module package)			RVF-950V5OMM	RVF-1000V5OMM	RVF-1065V5OMM	RVF-1150V5OMM	RVF-1175V5OMM
Package power		HP	16+18	18+18	16+22	18+22	20+22
Max. number of indoor unit		pcs	56	59	62	65	69
Cooling	Capacity (Nom.)	kW	95,0	100,0	106,5	111,5	117,5
	Rated input (Nom.)	kW	23,85	24,44	28,25	28,84	31,28
	EER	W/W	3,98	4,09	3,77	3,87	3,76
Heating	Capacity (Nom.)	kW	106,0	112,0	119,0	125,0	132,0
	Rated input (Nom.)	kW	22,76	23,78	27,67	28,69	30,96
	COP	W/W	4,66	4,71	4,30	4,36	4,26
Reversible heat pump type			Air-to-air				
Compressor	Type		Hermetically sealed EVI scroll				
	Quantity		1+1	1+1	1+1	1+1	1+1
Fan motor	Type		BLDC inverter motor				
	Quantity		1+2	2+2	1+2	2+2	2+2
Refrigerant	Type		R410a	R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088	2088
	Valve type		Electronic EXV				
	Quantity	kg	29	30	30	31	32
TCO ₂ eq			60,55	62,64	62,64	64,73	66,82
Pipe connections	Liquid / Gas	mm (inch)	According to the selection report				
Electrical system							
Cables	PQE communication	pcs × mm ²	3 × 0,75-1,0 (shielded)				
	Power supply	pcs × mm ²	According to the electrical system design				
Protection		A	According to the electrical system design				
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling / heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

Combination of two modules (123,0-145,5 kW)

Model (module package)			RVF-1230V5OMM	RVF-1285V5OMM	RVF-1340V5OMM	RVF-1400V5OMM	RVF-1455V5OMM
Package power		HP	22+22	22+24	24+24	22+28	24+28
Max. number of indoor unit		pcs	72	75	79	82	85
Cooling	Capacity (Nom.)	kW	123,0	128,5	134,0	140,0	145,5
	Rated input (Nom.)	kW	33,24	33,33	33,42	36,65	36,74
	EER	W/W	3,70	3,86	4,01	3,82	3,96
Heating	Capacity (Nom.)	kW	138,0	144,0	150,0	156,5	162,5
	Rated input (Nom.)	kW	33,6	31,52	29,44	35,30	33,22
	COP	W/W	4,11	4,57	5,10	4,43	4,89
Reversible heat pump type			Air-to-air				
Compressor	Type		Hermetically sealed EVI scroll				
	Quantity		1+1	1+2	2+2	2+2	2+2
Fan motor	Type		BLDC inverter motor				
	Quantity		2+2	2+2	2+2	2+2	2+2
Refrigerant	Type		R410a	R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088	2088
	Valve type		Electronic EXV				
	Quantity	kg	32	32	32	36	36
		TCO ₂ eq	66,82	66,82	66,82	75,17	75,17
Pipe connections	Liquid / Gas	mm (inch)	According to the selection report				
Electrical system							
Cables	PQE communication	pcs × mm ²	3 × 0,75-1,0 (shielded)				
	Power supply	pcs × mm ²	According to the electrical system design				
Protection		A	According to the electrical system design				
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling / heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

Combination of two modules (152,0-180,0 kW)

Model (module package)			RVF-1520V5OMM	RVF-1570V5OMM	RVF-1630V5OMM	RVF-1685V5OMM	RVF-1750V5OMM	RVF-1800V5OMM
Package power		HP	24+30	24+32	26+32	28+32	30+32	32+32
Max. number of indoor unit		pcs	89	92	96	99	100	100
Cooling	Capacity (Nom.)	kW	152,0	157,0	163,0	168,5	175,0	180,0
	Rated input (Nom.)	kW	39,08	41,50	42,97	44,82	47,16	49,58
	EER	W/W	3,89	3,78	3,79	3,76	3,71	3,63
Heating	Capacity (Nom.)	kW	170,0	175,0	181,5	187,5	195,0	200,0
	Rated input (Nom.)	kW	36,07	39,05	41,11	42,83	45,68	48,66
	COP	W/W	4,71	4,48	4,41	4,38	4,27	4,11
Reversible heat pump type			Air-to-air					
Compressor	Type	Hermetically sealed EVI scroll						
	Quantity		2+2	2+2	2+2	2+2	2+2	2+2
Fan motor	Type	BLDC inverter motor						
	Quantity		2+2	2+2	2+2	2+2	2+2	2+2
Refrigerant	Type		R410a	R410a	R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088	2088	2088
	Valve type		Electronic EXV					
	Quantity	kg	39	39	43	43	46	46
TCO ₂ eq			81,43	81,43	89,78	89,78	96,05	96,05
Pipe connections	Liquid / Gas	mm (inch)	According to the selection report					
Electrical system								
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)			2 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design					
Protection		A	According to the electrical system design					
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling / heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

Combination of three modules (184,5-212,5 kW)

Model (module package)			RVF-1845V5OMM	RVF-1900V5OMM	RVF-1955V5OMM	RVF-2015V5OMM	RVF-2070V5OMM	RVF-2125V5OMM
Package power		HP	22+22+22	22+22+24	22+24+24	22+22+28	18+28+28	24+24+28
Max. number of indoor unit		pcs	100	100	100	100	100	100
Cooling	Capacity (Nom.)	kW	184,5	190,0	195,5	201,5	207,0	212,5
	Rated input (Nom.)	kW	49,86	49,95	50,04	53,27	52,28	53,45
	EER	W/W	3,70	3,80	3,91	3,78	3,96	3,98
Heating	Capacity (Nom.)	kW	207,0	213,0	219,0	225,5	231,0	237,5
	Rated input (Nom.)	kW	50,40	48,32	46,24	52,10	48,89	47,94
	COP	W/W	4,11	4,41	4,74	4,33	4,72	4,95
Reversible heat pump type			Air-to-air					
Compressor	Type	Hermetically sealed EVI scroll						
	Quantity		1+1+1	1+1+2	1+2+2	1+1+2	1+2+2	2+2+2
Fan motor	Type	BLDC inverter motor						
	Quantity		2+2+2	2+2+2	2+2+2	2+2+2	2+2+2	2+2+2
Refrigerant	Type		R410a	R410a	R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088	2088	2088
	Valve type		Electronic EXV					
	Quantity	kg	48	48	48	52	55	52
		TCO ₂ eq	100,22	100,22	100,22	108,58	114,84	108,58
Pipe connections	Liquid / Gas	mm (inch)	According to the selection report					
Electrical system								
Cables	PQE communication	pcs × mm ²	2 × 0,75-1,0 (shielded)			3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm ²	According to the electrical system design					
Protection		A	According to the electrical system design					
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling / heating)		°C	-5-55 / -30-30	-5-55 / -30-30	-5-55 / -30-30	-5-55 / -30-30	-5-55 / -30-30	-5-55 / -30-30

Combination of three modules (218,5-242 kW)

Model (module package)			RVF-2185V5OMM	RVF-2240V5OMM	RVF-2300V5OMM	RVF-2355V5OMM	RVF-2420V5OMM
Package power		HP	22+28+28	24+28+28	26+28+28	28+28+28	28+28+30
Max. number of indoor unit		pcs	100	100	100	100	100
Cooling	Capacity (Nom.)	kW	218,5	224,0	230,0	235,5	242,0
	Rated input (Nom.)	kW	56,68	56,77	58,24	60,09	62,43
	EER	W/W	3,85	3,95	3,95	3,92	3,88
Heating	Capacity (Nom.)	kW	244,0	250,0	256,5	262,5	270,0
	Rated input (Nom.)	kW	53,80	51,72	53,78	55,50	58,35
	COP	W/W	4,54	4,83	4,77	4,73	4,63
Reversible heat pump type			Air-to-air				
Compressor	Type	Hermetically sealed EVI scroll					
	Quantity		1+2+2	2+2+2	2+2+2	2+2+2	2+2+2
Fan motor	Type	BLDC inverter motor					
	Quantity		2+2+2	2+2+2	2+2+2	2+2+2	2+2+2
Refrigerant	Type		R410a	R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088	2088
	Valve type		Electronic EXV				
	Quantity	kg	56	56	60	60	63
		TCO ₂ eq	116,93	116,93	125,28	125,28	131,54
Pipe connections	Liquid / Gas	mm (inch)	According to the selection report				
Electrical system							
Cables	PQE communication	pcs × mm ²	3 × 0,75-1,0 (shielded)				
	Power supply	pcs × mm ²	According to the electrical system design				
Protection		A	According to the electrical system design				
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling / heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

Combination of three modules (247,0-270,0 kW)

Model (module package)			RVF-2470V5OMM	RVF-2530V5OMM	RVF-2585V5OMM	RVF-2650V5OMM	RVF-2700V5OMM
Package power		HP	28+28+32	26+32+32	28+32+32	30+32+32	32+32+32
Max. number of indoor unit		pcs	100	100	100	100	100
Cooling	Capacity (Nom.)	kW	247,0	253,0	258,5	265,0	270,0
	Rated input (Nom.)	kW	64,85	67,76	69,61	71,95	74,37
	EER	W/W	3,81	3,73	3,71	3,68	3,63
Heating	Capacity (Nom.)	kW	275,0	281,5	287,5	295,0	300,0
	Rated input (Nom.)	kW	61,33	65,44	67,16	70,01	72,99
	COP	W/W	4,48	4,30	4,28	4,21	4,11
Reversible heat pump type			Air-to-air				
Compressor	Type		Hermetically sealed EVI scroll				
	Quantity		2+2+2	2+2+2	2+2+2	2+2+2	2+2+2
Fan motor	Type		BLDC inverter motor				
	Quantity		2+2+2	2+2+2	2+2+2	2+2+2	2+2+2
Refrigerant	Type		R410a	R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088	2088
	Valve type		Electronic EXV				
	Quantity	kg	63	66	66	69	69
		TCO ₂ eq	131,54	137,81	137,81	144,07	144,07
Pipe connections	Liquid / Gas	mm (inch)	According to the selection report				
Electrical system							
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)				
	Power supply	pcs × mm²	According to the electrical system design				
Protection		A	According to the electrical system design				
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling / heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

Combination table for modules 25,2-67,0 kW

Output HP	Model	Cooling capacity (kW)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	Suggested max. number of indoor units
8	RVF-252V5OMM	25,2	•									14
10	RVF-280V5OMM	28,0		•								16
12	RVF-335V5OMM	33,5			•							19
14	RVF-400V5OMM	40,0				•						23
16	RVF-450V5OMM	45,0					•					26
18	RVF-500V5OMM	50,0						•				29
20	RVF-560V5OMM	56,0							•			33
22	RVF-615V5OMM	61,5								•		36
24	RVF-670V5OMM	67,0									•	39
26	RVF-730V5OMM	73,0		•			•					43
28	RVF-800V5OMM	80,0		•				•				47
30	RVF-850V5OMM	85,0			•			•				50
32	RVF-900V5OMM	90,0		•						•		53
34	RVF-950V5OMM	95,0					•	•				56
36	RVF-1000V5OMM	100,0						••				59
38	RVF-1065V5OMM	106,5					•			•		63
40	RVF-1115V5OMM	112,0						•		•		66
42	RVF-1175V5OMM	117,5							•	•		69
44	RVF-1230V5OMM	123,0								••		72
46	RVF-1285V5OMM	129,0								•	•	76
48	RVF-1350V5OMM	134,5									••	79
50	RVF-1400V5OMM	140,0			•		•			•		82
52	RVF-1450V5OMM	145,5			•			•		•		86
54	RVF-1515V5OMM	151,0		•						••		89
56	RVF-1565V5OMM	156,5			•					••		92
58	RVF-1615V5OMM	162,5				•				••		96
60	RVF-1680V5OMM	168,0					•			••		99
62	RVF-1730V5OMM	173,0						•		••		100
64	RVF-1790V5OMM	179,0							•	••		100
66	RVF-1845V5OMM	184,5								•••		100
68	RVF-1900V5OMM	190,5			••					••		100
70	RVF-1950V5OMM	196,0		•			•			••		100
72	RVF-2000V5OMM	201,5			•		•			••		100
74	RVF-2065V5OMM	207,0			•			•		••		100
76	RVF-2130V5OMM	212,5		•						•••		100
78	RVF-2180V5OMM	218,0			•					•••		100
80	RVF-2230V5OMM	223,0				•				•••		100
82	RVF-2295V5OMM	229,5					•			•••		100
84	RVF-2345V5OMM	234,5						•		•••		100
86	RVF-2405V5OMM	240,5							•	•••		100
88	RVF-2470V5OMM	247,0								••••		100
90	RVF-2530V5OMM	253,0								•••	•	100
92	RVF-2585V5OMM	258,5								••	••	100
94	RVF-2650V5OMM	265,0								•	•••	100
96	RVF-2700V5OMM	270,0									••••	100

RVF outdoor units (25,2-90 kW) can be combined freely in systems of up to 3 modules. The maximum capacity of a single unit is 32 HP.
RVF outdoor units RVF (25,2-67 kW) can be combined freely in systems of up to 4 modules. The maximum capacity of a single unit is 24 HP.

RVF modular outdoor units can be integrated with one another in any desired combination.
Based on the selected units and the lengths of individual installation segments, the cooling pipe diameters might vary from the standard ones.
The diameters for individual installation segments should be crafted following the curated selection report, once the design lengths of the installation have been input, and in line with the service manual.
Operating temperature for cooling: -5°C to 55°C. Operating temperature for heating: -30°C to 30°C.
Cooling conditions: Indoors 27°C (80.6°F) DB, 19°C (60°F) WB, Outdoors 35°C (95°F) DB. Heating conditions: Indoors 20°C (68°F) DB, 15°C (44.6°F) WB, Outdoors 7°C (42.8°F) DB.
Noise level: Measured 1 m away from the unit and at a height of 1.5 m (under test conditions). Values might slightly fluctuate based on environmental conditions. Due to continuous refinements in our units, the aforementioned technical data can change without prior notice.

Combination of two modules (73,0-89,5 kW)

Model (module package)			RVF-730V5OMM	RVF-780V5OMM	RVF-835V5OMM	RVF-895V5OMM
Package power		HP	10+16	10+18	12+18	10+22
Max. number of indoor unit		pcs	43,0	46	49	52
Cooling	Capacity (Nom.)	kW	73,0	78,0	83,5	89,5
	Rated input (Nom.)	kW	17,85	18,44	20,57	22,84
	EER	W/W	4,09	4,23	4,06	3,92
Heating	Capacity (Nom.)	kW	81,5	87,5	93,5	100,5
	Rated input (Nom.)	kW	16,73	17,75	19,24	22,66
	COP	W/W	4,87	4,93	4,86	4,44
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		1+1	1+1	1+1	1+1
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		1+2	2+2	1+2	2+2
Refrigerant	Type		R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	29	30	30	31
		TCO ₂ eq		60,55	62,64	62,64
Pipe connections	Liquid / Gas	mm (inch)	According to the selection report			
Electrical system						
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)			
	Power supply	pcs × mm²	According to the electrical system design			
Protection		A	According to the electrical system design			
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

Combination of two modules (95,0-111,5 kW)

Model (module package)			RVF-950V5OMM	RVF-1000V5OMM	RVF-1065V5OMM	RVF-1150V5OMM
Package power		HP	16+18	18+18	16+22	18+22
Max. number of indoor unit		pcs	56	59	62	65
Cooling	Capacity (Nom.)	kW	95,0	100,0	106,5	111,5
	Rated input (Nom.)	kW	23,85	24,44	28,25	28,84
	EER	W/W	3,98	4,09	3,77	3,87
Heating	Capacity (Nom.)	kW	106,0	112,0	119,0	125,0
	Rated input (Nom.)	kW	22,76	23,78	27,67	28,69
	COP	W/W	4,66	4,71	4,30	4,36
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		1+1	1+2	2+2	2+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2	2+2	2+2	2+2
Refrigerant	Type		R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	32	32	32	32
		TCO ₂ eq	66,82	66,82	66,82	66,82
Pipe connections	Liquid / Gas	mm (inch)	According to the selection report			
Electrical system						
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)			
	Power supply	pcs × mm²	According to the electrical system design			
Protection		A	According to the electrical system design			
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

Combination of two modules (117,5-134,0 kW)

Model (module package)			RVF-1175V5OMM	RVF-1230V5OMM	RVF-1285V5OMM	RVF-1340V5OMM
Package power		HP	20+22	22+22	22+24	24+24
Max. number of indoor unit		pcs	69	72	75	79
Cooling	Capacity (Nom.)	kW	117,5	123,0	128,5	134,0
	Rated input (Nom.)	kW	31,28	33,24	33,33	33,42
	EER	W/W	3,76	3,70	3,86	4,01
Heating	Capacity (Nom.)	kW	132,0	138,0	144,0	150,0
	Rated input (Nom.)	kW	30,96	33,6	31,52	29,44
	COP	W/W	4,26	4,11	4,57	5,10
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		2+2	2+2	2+2	2+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2	2+2	2+2	2+2
Refrigerant	Type		R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	36	36	39	39
		TCO ₂ eq	75,17	75,17	81,43	81,43
Pipe connections	Liquid / Gas	mm (inch)	According to the selection report			
Electrical system						
Cables	PQE communication	pcs × mm ²	3 × 0,75-1,0 (shielded)			
	Power supply	pcs × mm ²	According to the electrical system design			
Protection		A	According to the electrical system design			
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5-55 / -30~30	-5-55 / -30~30	-5-55 / -30~30	-5-55 / -30~30

Combination of three modules (140,0-151,0 kW)

Model (module package)			RVF-1400V5OMM	RVF-1450V5OMM	RVF-1510V5OMM
Package power		HP	12+16+22	12+18+22	10+22+22
Max. number of indoor unit		pcs	82	85	89
Cooling	Capacity (Nom.)	kW	140,0	145,0	151,0
	Rated input (Nom.)	kW	36,60	37,19	39,46
	EER	W/W	3,83	3,90	3,83
Heating	Capacity (Nom.)	kW	156,5	162,5	169,5
	Rated input (Nom.)	kW	35,02	36,04	39,46
	COP	W/W	4,47	4,51	4,30
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air
Compressor	Type	Hermetically sealed EVI scroll		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity	2+2		2+2	2+2
Fan motor	Type	BLDC inverter motor		BLDC inverter motor	BLDC inverter motor
	Quantity	2+2		2+2	2+2
Refrigerant	Type	R410a		R410a	R410a
	GWP	2088		2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	43	43	46
		TCO ₂ eq	89,78	89,78	96,05
Pipe connections	Liquid / Gas	mm (inch)	According to the electrical system design		
Electrical system					
Cables	PQE communication	pcs × mm ²	3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm ²	According to the electrical system design		
Protection		A	According to the electrical system design		
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

Combination of three modules (156,5-168,0 kW)

Model (module package)			RVF-1565VSOMM	RVF-1630VSOMM	RVF-1680VSOMM
Package power		HP	12+22+22	14+22+22	16+22+22
Max. number of indoor unit		pcs	92	96	99
Cooling	Capacity (Nom.)	kW	156,5	163,0	168,0
	Rated input (Nom.)	kW	41,59	43,00	44,87
	EER	W/W	3,76	3,79	3,74
Heating	Capacity (Nom.)	kW	175,5	183,0	188,0
	Rated input (Nom.)	kW	40,95	42,94	44,47
	COP	W/W	4,29	4,26	4,23
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		1+1+1	1+1+2	1+2+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2	2+2+2	2+2+2
Refrigerant	Type		R410a	R410a	R410a
	GWP		2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	46	48	48
		TCO ₂ eq	96,05	100,22	100,22
Pipe connections	Liquid / Gas	mm (inch)	According to the selection report		
Electrical system					
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design		
Protection		A	According to the electrical system design		
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

Combination of three modules (173,0-184,5 kW)

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Model (module package)			RVF-1730V5OMM	RVF-1790V5OMM	RVF-1845V5OMM
Package power		HP	18+22+22	20+22+22	22+22+22
Max. number of indoor unit		pcs	100	100	100
Cooling	Capacity (Nom.)	kW	173,0	179,0	184,5
	Rated input (Nom.)	kW	45,46	47,90	49,86
	EER	W/W	3,81	3,74	3,70
Heating	Capacity (Nom.)	kW	194,0	201,0	207,0
	Rated input (Nom.)	kW	45,49	47,76	50,40
	COP	W/W	4,26	4,21	4,11
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		1+1+2	1+2+2	2+2+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2+2	2+2+2	2+2+2
Refrigerant	Type		R410a	R410a	R410a
	GWP		2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	48	52	55
		TCO ₂ eq	100,22	108,58	114,84
Pipe connections	Liquid / Gas	mm (inch)	According to the selection report		
Electrical system					
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design		
Protection		A	According to the electrical system design		
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

Combination of four modules (190,0-206,5 kW)

Model (module package)			RVF-1900V5OMM	RVF-1960V5OMM	RVF-2015V5OMM	RVF-2065V5OMM
Package power		HP	12+12+22+22	10+16+22+22	12+16+22+22	12+18+22+22
Max. number of indoor unit		pcs	100	100	100	100
Cooling	Capacity (Nom.)	kW	190,0	196,0	201,5	206,5
	Rated input (Nom.)	kW	49,95	51,09	53,22	53,81
	EER	W/W	3,80	3,84	3,79	3,84
Heating	Capacity (Nom.)	kW	213,0	219,5	225,5	231,5
	Rated input (Nom.)	kW	48,31	50,33	51,82	52,84
	COP	W/W	4,41	4,36	4,35	4,38
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		1+2+2	2+2+2	2+2+2	2+2+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2+2	2+2+2	2+2+2	2+2+2
Refrigerant	Type		R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	52	56	56	60
		TCO ₂ eq		108,58	116,93	116,93
Pipe connections	Liquid / Gas	mm (inch)	According to the selection report			
Electrical system						
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)			
	Power supply	pcs × mm²	According to the electrical system design			
Protection		A	According to the electrical system design			
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

Combination of four modules (212,5-229,5 kW)

Model (module package)			RVF-2125V5OMM	RVF-2180V5OMM	RVF-2240V5OMM	RVF-2295V5OMM
Package power		HP	10+22+22+22	12+22+22+22	14+22+22+22	16+22+22+22
Max. number of indoor unit		pcs	100	100	100	100
Cooling	Capacity (Nom.)	kW	212,5	218,0	224,5	229,5
	Rated input (Nom.)	kW	56,08	58,21	59,62	61,49
	EER	W/W	3,79	3,75	3,77	3,73
Heating	Capacity (Nom.)	kW	238,5	244,5	252,0	257,0
	Rated input (Nom.)	kW	56,26	57,75	59,74	61,27
	COP	W/W	4,24	4,23	4,22	4,19
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		2+2+2	2+2+2	2+2+2	2+2+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2+2	2+2+2	2+2+2	2+2+2
Refrigerant	Type		R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	60	63	63	66
		TCO ₂ eq		125,28	131,54	131,54
Pipe connections	Liquid / Gas	mm (inch)	According to the electrical system design			
Electrical system						
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)			
	Power supply	pcs × mm²	According to the electrical system design			
Protection		A	According to the electrical system design			
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

Combination of four modules (234,5-252,0 kW)

Model (module package)			RVF-2345V5OMM	RVF-2405V5OMM	RVF-2460V5OMM	RVF-2520V5OMM
Package power		HP	18+22+22+22	20+22+22+22	22+22+22+22	22+22+22+24
Max. number of indoor unit		pcs	100	100	100	100
Cooling	Capacity (Nom.)	kW	234,5	240,5	246,0	252,0
	Rated input (Nom.)	kW	62,08	64,52	66,48	66,57
	EER	W/W	3,78	3,73	3,70	3,79
Heating	Capacity (Nom.)	kW	263,0	270,0	276,0	282,0
	Rated input (Nom.)	kW	62,29	64,56	67,20	65,12
	COP	W/W	4,22	4,18	4,11	4,33
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		2+2+2	2+2+2	1+1+1+1	1+1+1+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2+2	2+2+2	2+2+2	2+2+2+2
Refrigerant	Type		R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	66	69	69	64
		TCO ₂ eq		137,81	144,07	144,07
Pipe connections	Liquid / Gas	mm (inch)	According to the selection report			
Electrical system						
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)			
	Power supply	pcs × mm²	According to the electrical system design			
Protection		A	According to the electrical system design			
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30	-5~55 / -30~30

Combination of four modules (257,5-270,0 kW)

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Model (module package)			RVF-2575V5OMM	RVF-2630V5OMM	RVF-2700V5OMM
Package power		HP	22+22+24+24	22+24+24+24	24+24+24+24
Max. number of indoor unit		pcs	100	100	100
Cooling	Capacity (Nom.)	kW	257,5	262,5	268,0
	Rated input (Nom.)	kW	66,66	66,75	66,84
	EER	W/W	3,86	3,93	4,01
Heating	Capacity (Nom.)	kW	288,0	294,0	300,0
	Rated input (Nom.)	kW	63,04	60,96	58,88
	COP	W/W	4,57	4,82	5,10
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		1+1+2+2	1+2+2+2	2+2+2+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2+2+2	2+2+2+2	2+2+2+2
Refrigerant	Type		R410a	R410a	R410a
	GWP		2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	64	64	64
		TCO ₂ eq		133,63	133,63
Pipe connections	Liquid / Gas	mm (inch)	According to the electrical system design		
Electrical system					
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design		
Protection		A	According to the electrical system design		
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5-55 / -30~30	-5-55 / -30~30	-5-55 / -30~30



Air Conditioning systems

HR RVF

Rotenso HR RVF are three-pipe air conditioning systems with heat recovery that utilise high-capacity outdoor units with vertical air discharge, requiring minimal spacing for modular connections of multiple units. This makes them ideal for applications with limited space. They offer independent cooling and heating for each room.

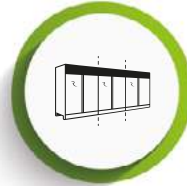
This configuration permits the combination of up to 64 indoor units, with a total capacity reaching up to 130% of the outdoor units' capacity.

Notably, the heat exchanger of the outdoor unit is sectioned, ensuring the defrost mode doesn't hinder the system's heating function, even in extreme weather conditions.

A vast range of units, top-tier specifications, and optimal dimensions of the outdoor units make them suitable for a wide variety of applications.



HR RVF



Combinable
modules



Heat
recovery



Heating at down
to -20°C



Active PCB
coolingu



Easy
diagnostics



Impressive
installation
lengths





Combinable modules

Rotenso HR VRF outdoor units offer outputs ranging from 25.2 kW to 45 kW for a single unit, with the option of modular combinations of outdoor units up to a cumulative output of 180 kW.

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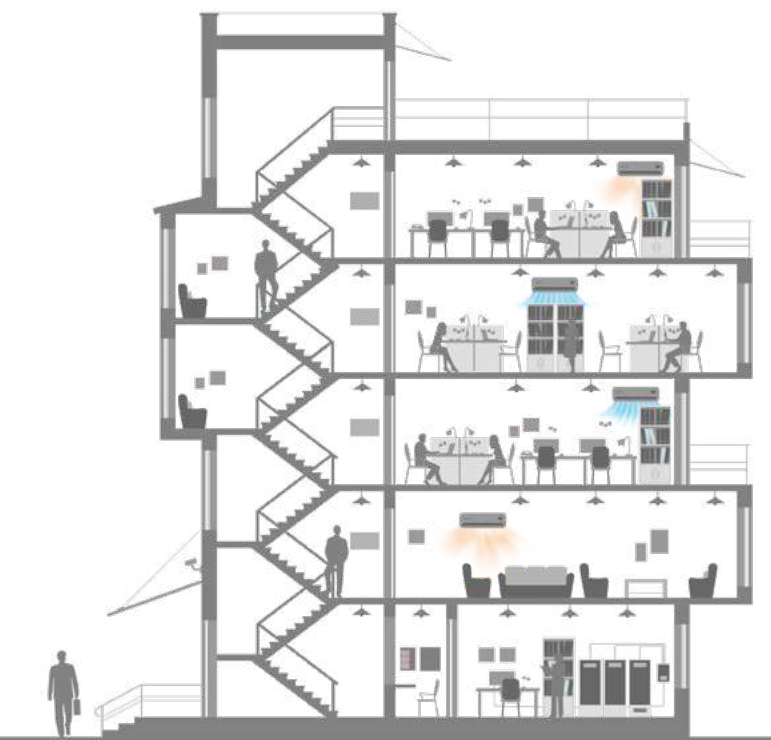
Continued operation during defrost

The heat exchangers in the RVF-HR three-pipe systems are sectioned, ensuring that the defrost mode doesn't disrupt the system's functionality.



Easy diagnostics

Access the diagnostic display on the inverter's PCB in RVF systems to monitor the status and settings of the outdoor unit, even in the absence of a diagnostic module.



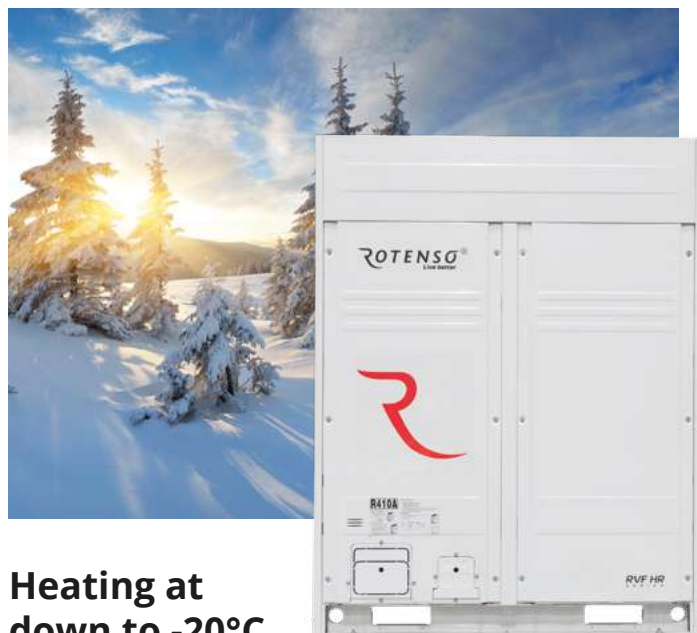
Heat recovery

These three-pipe systems deploy heat recovery boxes, known as HR-Boxes, to distribute refrigerant in specific way. This facilitates independent heating and cooling within a unified system.



Impressive installation lengths

Our solutions boast an exceptional installation length capability – achieving a total length of 1000 m and a height difference of up to 110 m.



Heating at down to -20°C

HR RVF air conditioning system is fitted with top performance scroll DC SKYR Inverter compressor. Equipped with an integrated crankcase heater, it ensures the system remains functional in heating mode even at bitterly cold temperatures of -20°C.

Liquid/gas installation guidelines



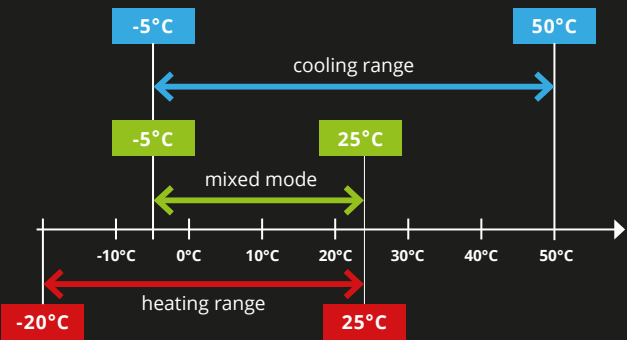
A. Total installation length	1000 m
B. Max. distance from indoor unit to outdoor unit	175 m
C. Vertical distance from indoor unit to outdoor unit	110 m*
	70 m**
D. Vertical distance between indoor units	30 m
E. Distance from the manifold to the last indoor unit	90 m
F. Distance from HR Box to indoor unit	40 m

* outdoor unit above the indoor unit ** outdoor unit below the indoor unit Each distributor corresponds to 0,5 pipe lengths.

Wide operating range

Heat recovery

Owing to advanced technology and premium components, the HR RVF system is adept at both heating/cooling and operating in mixed mode.



RVF HR

25,2-180,0 kW

HR
RVF



Features device



Refrigerant
R410A



Modular
combination
available



Up to 64
indoor units



Built-in
EXV valve



SCROLL
compressor



Heat
recovery



Compatible with
air handling units



SMART outdoor
unit snow
clearance



SMART
defrost



Continued
operation during
defrost



IAIR
X-shaped fin



Internally
grooved pipes



Y-shaped
refrigerant flow
path design



IAIR
cross-flow
fans



Vertical air
discharge



Whisper-quiet
fan



Super silent
night-time
eMOTO mode



Super silent
eMOTO mode



Automatic
addressing



Manual
addressing



Indoor units can
total 130% of the
outdoor unit's
capacity



Cooling even
at 50°C



ESP
of 85Pa



Waterproof
rating IPX4



Enclosed fan
installation



Service remote
control for indoor
unit addressing



Compatible with all
RVF indoor units



Emergency
mode



Digital DC Inverter
SKY[®]



Compressor
crankcase heater



Total installation
length up to 1000m



Heating at low
outdoor temp.
down to -20°C



PCB system
diagnostics



Remote control
TUYA WI-FI ⁽¹⁾



Compatibility
with BMS ⁽¹⁾



Central
controller output ⁽¹⁾

1. Optional using accessories.

Technical specification

(25,2-33,5 kW)

Model			RVF-252HRV10MM	RVF-280HRV10MM	RVF-335HRV10MM
EAN product code			5905567607400	5905567607417	5905567607424
Package power		HP	8	10	12
Max. number of indoor unit		pcs	14	16	19
Cooling	Capacity (Nom.)	kW	25,2	28,0	33,5
	Rated input (Nom.)	kW	5,7	6,62	8,03
	EER	W/W	4,42	4,23	4,17
Heating	Capacity (Nom.)	kW	27,4	31,5	37,5
	Rated input (Nom.)	kW	5,88	7,19	8,8
	COP	W/W	4,66	4,38	4,26
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed scroll	Hermetically sealed scroll	Hermetically sealed scroll
	Quantity		1	1	1
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2	2	2
	External static pressure	Pa	85	85	85
Refrigerant	Type		R410a	R410a	R410a
	GWP		2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	12	12	12
Sound pressure level		TCO ₂ eq	25,06	25,06	25,06
Sound power level		dB(A)	57	57	58
Net dimensions		dB(A)	72	72	73
Gross dimensions		mm	1260 × 1620 × 765	1260 × 1620 × 765	1260 × 1620 × 765
Bracket spacing		mm	1315 × 1750 × 825	1315 × 1750 × 825	1315 × 1750 × 825
Net weight / Gross weight		mm	998 × 703	998 × 703	998 × 703
Pipe connections	Liquid	kg	270 / 279	270 / 279	270 / 279
	Low pressure gas	mm (inch)	Φ12,7 (1/2")	Φ12,7 (1/2")	Φ12,7 (1/2")
	High pressure gas	mm (inch)	Φ22,2 (7/8")	Φ25,4 (1")	Φ25,4 (1")
High pressure gas balancing hose		mm (inch)	Φ19,1 (3/4")	Φ19,1 (3/4")	Φ19,1 (3/4")
Oil balancing hose		mm (inch)	-	-	-
Electrical system					
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design		
Protection		A	According to the electrical system design		
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5-50 / -20~25	-5-50 / -20~25	-5-50 / -20~25
Operating outdoor temperature (mixed mode)		°C	-5~25	-5~25	-5~25

RVF modular units can be integrated with one another in any desired combination. Based on the selected units and the lengths of individual installation segments, the cooling pipe diameters might vary from the standard ones. The diameters for individual installation segments should be crafted following the curated selection report, once the design lengths of the installation have been input, and in line with the service manual.

Annotations:

Operating temperature for cooling: -5°C to 50°C. Operating temperature for heating: -20°C to 25°C.

Cooling conditions: Indoors 27°C (80.6°F) DB, 19°C (60°F) WB, Outdoors 35°C (95°F) DB.

Heating conditions: Indoors 20°C (68°F) DB, 15°C (44.6°F) WB, Outdoors 7°C (42.8°F) DB.

Noise level: Measured 1 m away from the unit and at a height of 1.5 m (under test conditions). Values might slightly fluctuate based on environmental conditions.

Due to continuous refinements in our units, the aforementioned technical data can change without prior notice.



25,2 kW



28,0 kW



33,5 kW

Technical specification

(40,0-45,0 kW)

Model			RVF-400HRV10MM	RVF-450HRV10MM
EAN product code			5905567607431	5905567607448
Package power		HP	14	16
Max. number of indoor unit		pcs	23	26
Cooling	Capacity (Nom.)	kW	40,0	45,0
	Rated input (Nom.)	kW	11,02	13,08
	EER	W/W	3,63	3,44
Heating	Capacity (Nom.)	kW	45,0	50,0
	Rated input (Nom.)	kW	11	12,63
	COP	W/W	4,09	3,96
Reversible heat pump type			Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed scroll	Hermetically sealed scroll
	Quantity		2	2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor
	Quantity		2	2
	External static pressure	Pa	85	85
Refrigerant	Type		R410a	R410a
	GWP		2088	2088
	Valve type		Electronic EXV	Electronic EXV
	Quantity	kg	16	16
TCO ₂ eq		33,41	33,41	
Sound pressure level		dB(A)	60	60
Sound power level		dB(A)	75	75
Net dimensions	W × H × D	mm	1260 × 1620 × 765	1260 × 1620 × 765
Gross dimensions	W × H × D	mm	1315 × 1750 × 825	1315 × 1750 × 825
Bracket spacing	W × D	mm	998 × 703	998 × 703
Net weight / Gross weight		kg	310 / 319	310 / 319
Pipe connections	Liquid	mm (inch)	Φ15,9 (5/8")	Φ15,9 (5/8")
	Low pressure gas	mm (inch)	Φ28,6 (9/8")	Φ28,6 (9/8")
	High pressure gas	mm (inch)	Φ22,2 (7/8")	Φ22,2 (7/8")
High pressure gas balancing hose		mm (inch)	-	-
Oil balancing hose		mm (inch)	-	-
Electrical system				
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)	
	Power supply	pcs × mm²	According to the electrical system design	
Protection		A	According to the electrical system design	
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling/ heating)		°C	-5~50 / -20~25	-5~50 / -20~25
Operating outdoor temperature (mixed mode)		°C	-5~25	-5~25

RVF modular units can be integrated with one another in any desired combination. Based on the selected units and the lengths of individual installation segments, the cooling pipe diameters might vary from the standard ones. The diameters for individual installation segments should be crafted following the curated selection report, once the design lengths of the installation have been input, and in line with the service manual.

Annotations:
Operating temperature for cooling: -5°C to 50°C. Operating temperature for heating: -20°C to 25°C.
Cooling conditions: indoors 27°C (80.6°F) DB, 19°C (60°F) WB, outdoors 35°C (95°F) DB.
Heating conditions: indoors 20°C (68°F) DB, 15°C (44.6°F) WB, outdoors 7°C (42.8°F) DB.
Noise level: measured 1 m away from the unit and at a height of 1,5 m (under test conditions). Values might slightly fluctuate based on environmental conditions.
Due to continuous refinements in our units, the aforementioned technical data can change without prior notice.



40,0 kW



45,0 kW

Combination table for modules

Output HP	Model	Cooling capacity (kW)	8HP	10HP	12HP	14HP	16HP	Suggested maximum number of indoor units
8	RVF-252HRV1OMM	25,2	•					13
10	RVF-280HRV1OMM	28,0		•				16
12	RVF-335HRV1OMM	33,5			•			20
14	RVF-400HRV1OMM	40,0				•		23
16	RVF-450HRV1OMM	45,0					•	26
18	RVF-532HRV1OMM	53,2	•	•				29
20	RVF-560HRV1OMM	56,0		••				33
22	RVF-615HRV1OMM	61,5		•	•			36
24	RVF-680HRV1OMM	68,0		•		•		39
26	RVF-730HRV1OMM	73,0		•			•	43
28	RVF-800HRV1OMM	80,0				••		46
30	RVF-850HRV1OMM	85,0				•	•	50
32	RVF-900HRV1OMM	90,0					••	53
34	RVF-960HRV1OMM	96,0		••		•		56
36	RVF-1010HRV1OMM	101,0		••			•	59
38	RVF-1065HRV1OMM	106,5		•	•		•	63
40	RVF-1130HRV1OMM	113,0		•		•	•	64
42	RVF-1200HRV1OMM	120,0				•••		64
44	RVF-1235HRV1OMM	125,0				••	•	64
46	RVF-1300HRV1OMM	130,0				•	••	64
48	RVF-1350HRV1OMM	135,0					•••	64
50	RVF-1432HRV1OMM	143,2	•	•			••	64
52	RVF-1460HRV1OMM	146,0		••			••	64
54	RVF-1515HRV1OMM	151,5		•	•		••	64
56	RVF-1580HRV1OMM	158,0		•		•	••	64
58	RVF-1650HRV1OMM	165,0				•••	•	64
60	RVF-1700HRV1OMM	170,0				••	••	64
62	RVF-1750HRV1OMM	175,0				•	•••	64
64	RVF-1800HRV1OMM	180,0					••••	64

RVF modular outdoor units can be integrated with one another in any desired combination. Based on the selected units and the lengths of individual installation segments, the cooling pipe diameters might vary from the standard ones. The diameters for individual installation segments should be crafted following the curated selection report, once the design lengths of the installation have been input, and in line with the service manual.

RVF modular outdoor units can be integrated with one another in any desired combination. Based on the selected units and the lengths of individual installation segments, the cooling pipe diameters may vary from the standard ones. The diameters for individual installation segments should be crafted following the curated selection report, once the design lengths of the installation have been input.

Operating temperature for cooling: -5°C to 50°C. Operating temperature for heating: -20°C to 25°C.

Cooling conditions: indoors 27°C (80.6°F) DB, 19°C (60°F) WB, outdoors 35°C (95°F) DB. Heating conditions: indoors 20°C (68°F) DB, 15°C (44.6°F) WB, outdoors 7°C (42.8°F) DB.

Noise level: measured 1 m away from the unit and at a height of 1.5 m (under test conditions). Values might slightly fluctuate based on environmental conditions. Due to continuous refinements in our units, the aforementioned technical data can change without prior notice.

Combination of two modules (53,2-68,0 kW)

Model (module package)			RVF-532HRV10MM	RVF-560HRV10MM	RVF-615HRV10MM	RVF-680HRV10MM
Package power		HP	18	20	22	24
Max. number of indoor unit		pcs	31	33	36	40
Cooling	Capacity (Nom.)	kW	53,2	56,0	61,5	68,0
	Rated input (Nom.)	kW	12,32	13,24	14,65	17,64
	EER	W/W	4,32	4,23	4,2	3,85
Heating	Capacity (Nom.)	kW	58,9	63,0	69,0	76,5
	Rated input (Nom.)	kW	13,07	14,38	15,99	18,19
	COP	W/W	4,51	4,38	4,32	4,21
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		1+1	1+1	1+1	1+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2	2+2	2+2	2+2
	External static pressure	Pa	85	85	85	85
Refrigerant	Type		R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	12+12	12+12	12+12	12+16
TCO ₂ eq		50,11	50,11	50,11	58,46	
Sound pressure level		dB(A)	61	61	62	63
High pressure gas balancing hose		mm (inch)	Φ19,1 (3/4")	Φ19,1 (3/4")	Φ19,1 (3/4")	Φ19,1 (3/4")
Oil balancing hose		mm (inch)	Φ6,35 (1/4")	Φ6,35 (1/4")	Φ6,35 (1/4")	Φ6,35 (1/4")
Electrical system						
Cables	PQE communication	pcs × mm ²	3 × 1,0 (shielded)			
	Power supply	pcs × mm ²	According to the electrical system design			
Protection		A	According to the electrical system design			
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~50 / -20~25	-5~50 / -20~25	-5~50 / -20~25	-5~50 / -20~25
Operating outdoor temperature (mixed mode)		°C	-5~25	-5~25	-5~25	-5~25

Combination of two modules (73,0-90,0 kW)

Model (module package)			RVF-730HRV10MM	RVF-800HRV10MM	RVF-850HRV10MM	RVF-900HRV10MM
Package power		HP	26	28	30	32
Max. number of indoor unit		pcs	43	47	50	53
Cooling	Capacity (Nom.)	kW	73,0	80,0	85,0	90,0
	Rated input (Nom.)	kW	19,7	22	24,1	26,16
	EER	W/W	3,71	3,54	3,53	3,44
Heating	Capacity (Nom.)	kW	81,5	90,0	95,0	100,0
	Rated input (Nom.)	kW	19,82	22,0	23,63	25,26
	COP	W/W	4,11	4,09	4,02	3,96
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		1+2	1+2	2+2	2+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2	2+2	2+2	2+2
	External static pressure	Pa	85	85	85	85
Refrigerant	Type		R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	12+16	12+16	16+16	16+16
		TCO ₂ eq	58,46	58,46	66,82	66,82
Sound pressure level		dB(A)	63	64	64	64
High pressure gas balancing hose		mm (inch)	Φ19,1 (3/4")	Φ19,1 (3/4")	Φ19,1 (3/4")	Φ19,1 (3/4")
Oil balancing hose		mm (inch)	Φ6,35 (1/4")	Φ6,35 (1/4")	Φ6,35 (1/4")	Φ6,35 (1/4")
Electrical system						
Cables	PQE communication	pcs × mm²	3 × 1,0 (shielded)			
	Power supply	pcs × mm²	According to the electrical system design			
Protection		A	According to the electrical system design			
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~50 / -20~25	-5~50 / -20~25	-5~50 / -20~25	-5~50 / -20~25
Operating outdoor temperature (mixed mode)		°C	-5~25	-5~25	-5~25	-5~25

Combination of three modules (96,0-113,0 kW)

Model (module package)			RVF-960HRV10MM	RVF-1010HRV10MM	RVF-1065HRV10MM	RVF-1130HRV10MM
Package power		HP	34	36	38	40
Max. number of indoor unit		pcs	56	59	63	64
Cooling	Capacity (Nom.)	kW	96,0	101,0	106,5	113,0
	Rated input (Nom.)	kW	24,26	26,32	27,73	30,72
	EER	W/W	3,96	3,84	3,84	3,68
Heating	Capacity (Nom.)	kW	108,0	113,0	119,0	126,5
	Rated input (Nom.)	kW	25,38	27,01	28,62	30,82
	COP	W/W	4,26	4,18	4,16	4,1
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		1+1+2	1+1+2	1+1+2	1+2+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2+2	2+2+2	2+2+2	2+2+2
	External static pressure	Pa	85	85	85	85
Refrigerant	Type		R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	12+12+16	12+12+16	12+12+16	12+16+16
Sound pressure level		dB(A)	65	65	65	66
High pressure gas balancing hose		mm (inch)	Φ19,1 (3/4")	Φ19,1 (3/4")	Φ19,1 (3/4")	Φ19,1 (3/4")
Oil balancing hose		mm (inch)	Φ6,35 (1/4")	Φ6,35 (1/4")	Φ6,35 (1/4")	Φ6,35 (1/4")
Electrical system						
Cables	PQE communication	pcs × mm²	3 × 1,0 (shielded)			
	Power supply	pcs × mm²	According to the electrical system design			
Protection		A	According to the electrical system design			
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~50 / -20~25	-5~50 / -20~25	-5~50 / -20~25	-5~50 / -20~25
Operating outdoor temperature (mixed mode)		°C	-5~25	-5~25	-5~25	-5~25

Combination of three modules (120,0-135,0 kW)

Model (module package)			RVF-1200HRV10MM	RVF-1235HRV10MM	RVF-1300HRV10MM	RVF-1350HRV10MM
Package power		HP	42	44	46	48
Max. number of indoor unit		pcs	64	64	64	64
Cooling	Capacity (Nom.)	kW	120,0	123,5	130,0	135,0
	Rated input (Nom.)	kW	33,06	34,19	37,18	39,24
	EER	W/W	3,63	3,61	3,5	3,44
Heating	Capacity (Nom.)	kW	135,0	137,5	145,0	150,0
	Rated input (Nom.)	kW	38,57	34,06	36,26	37,89
	COP	W/W	3,5	4,04	4,0	3,96
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		1+2+2	1+2+2	2+2+2	2+2+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2+2	2+2+2	2+2+2	2+2+2
	External static pressure	Pa	85	85	85	85
Refrigerant	Type		R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	12+16+16	12+16+16	16+16+16	16+16+16
Sound pressure level		dB(A)	67	67	67	67
High pressure gas balancing hose		mm (inch)	Φ19,1 (3/4")	Φ19,1 (3/4")	Φ19,1 (3/4")	Φ19,1 (3/4")
Oil balancing hose		mm (inch)	Φ6,35 (1/4")	Φ6,35 (1/4")	Φ6,35 (1/4")	Φ6,35 (1/4")
Electrical system						
Cables	PQE communication	pcs × mm²	3 × 1,0 (shielded)			
	Power supply	pcs × mm²	According to the electrical system design			
Protection		A	According to the electrical system design			
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~50 / -20~25	-5~50 / -20~25	-5~50 / -20~25	-5~50 / -20~25
Operating outdoor temperature (mixed mode)		°C	-5~25	-5~25	-5~25	-5~25

Combination of four modules (143,2-158,0 kW)

Model (module package)			RVF-1432HRV1OMM	RVF-1460HRV1OMM	RVF-1515HRV1OMM	RVF-1580HRV1OMM
Package power		HP	50	52	54	56
Max. number of indoor unit		pcs	64	64	64	64
Cooling	Capacity (Nom.)	kW	143,2	146,0	151,5	158,0
	Rated input (Nom.)	kW	38,48	39,4	40,81	43,8
	EER	W/W	3,72	3,71	3,71	3,61
Heating	Capacity (Nom.)	kW	158,9	163,0	169,0	176,5
	Rated input (Nom.)	kW	38,33	39,64	41,25	43,45
	COP	W/W	4,15	4,11	4,1	4,06
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		1+1+2+2	1+1+2+2	1+1+2+2	1+2+2+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2+2+2	2+2+2+2	2+2+2+2	2+2+2+2
	External static pressure	Pa	85	85	85	85
Refrigerant	Type		R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	12+12+16+16	12+12+16+16	12+12+16+16	12+16+16+16
Sound pressure level		TCO ₂ eq	116,93	116,93	116,93	125,28
		dB(A)	68	68	68	68
High pressure gas balancing hose		mm (inch)	Φ19,1 (3/4")	Φ19,1 (3/4")	Φ19,1 (3/4")	Φ19,1 (3/4")
Oil balancing hose		mm (inch)	Φ6,35 (1/4")	Φ6,35 (1/4")	Φ6,35 (1/4")	Φ6,35 (1/4")
Electrical system						
Cables	PQE communication	pcs × mm ²	3 × 1,0 (shielded)			
	Power supply	pcs × mm ²	According to the electrical system design			
Protection		A	According to the electrical system design			
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5-50 / -20-25	-5-50 / -20-25	-5-50 / -20-25	-5-50 / -20-25
Operating outdoor temperature (mixed mode)		°C	-5-25	-5-25	-5-25	-5-25

Combination of four modules (165,0-180,0 kW)

Model (module package)			RVF-1650HRV1OMM	RVF-1700HRV1OMM	RVF-1750HRV1OMM	RVF-1800HRV1OMM
Package power		HP	58	60	62	64
Max. number of indoor unit		pcs	64	64	64	64
Cooling	Capacity (Nom.)	kW	165,0	170,0	175,0	180,0
	Rated input (Nom.)	kW	46,14	48,2	50,26	52,32
	EER	W/W	3,58	3,53	3,48	3,44
Heating	Capacity (Nom.)	kW	185,0	190,0	195,0	200,0
	Rated input (Nom.)	kW	45,63	47,26	48,89	50,52
	COP	W/W	4,05	4,02	3,99	3,96
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll	Hermetically sealed EVI scroll
	Quantity		1+2+2+2	1+2+2+2	2+2+2+2	2+2+2+2
Fan motor	Type		BLDC inverter motor	BLDC inverter motor	BLDC inverter motor	BLDC inverter motor
	Quantity		2+2+2+2	2+2+2+2	2+2+2+2	2+2+2+2
	External static pressure	Pa	85	85	85	85
Refrigerant	Type		R410a	R410a	R410a	R410a
	GWP		2088	2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	12+16+16+16	12+16+16+16	16+16+16+16	16+16+16+16
Sound pressure level		TCO ₂ eq	125,28	125,28	133,63	133,63
		dB(A)	69	69	69	69
High pressure gas balancing hose		mm (inch)	Φ19,1 (3/4")	Φ19,1 (3/4")	Φ19,1 (3/4")	Φ19,1 (3/4")
Oil balancing hose		mm (inch)	Φ6,35 (1/4")	Φ6,35 (1/4")	Φ6,35 (1/4")	Φ6,35 (1/4")
Electrical system						
Cables	PQE communication	pcs × mm ²	3 × 1,0 (shielded)			
	Power supply	pcs × mm ²	According to the electrical system design			
Protection		A	According to the electrical system design			
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5-50 / -20-25	-5-50 / -20-25	-5-50 / -20-25	-5-50 / -20-25
Operating outdoor temperature (mixed mode)		°C	-5-25	-5-25	-5-25	-5-25



Air Conditioning systems

MINI RVF V4

Solutions based on outdoor units with horizontal air discharge offer outputs ranging from 18 kW to 33.5 kW per unit.

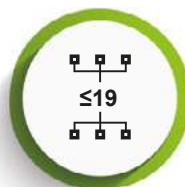
MiniRVF systems are two-pipe configurations that deliver efficient cooling or heating. MiniRVFs serve as an alternative to multiple SINGLE, MULTI, or DUAL units.

Characterised by a broad selection of indoor and outdoor units, superior specifications, and a sleek design, miniRVF systems are an ideal selection for diverse applications.

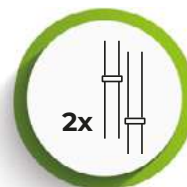




miniV4 RVF



Up to 19
indoor units



Only
2 pipes



Heating at down
to -20°C



Active PCB
cooling



Easy
diagnostics



Impressive
installation
lengths





Connect up to 19 indoor units

Connect up to 19 indoor units, with a total capacity reaching up to 130% of the outdoor units' capacity.

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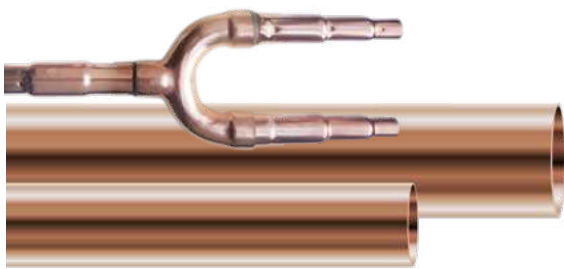
PCB active refrigerant-cooling

The refrigerant actively cools the inverter module board by up to 10°C, ensuring it remains at a safe operating temperature, even when outdoor temperatures soar to 55°C.



Easy diagnostics

Access the diagnostic display on the inverter's PCB in RVF systems to monitor the status and settings of the outdoor unit, even in the absence of a diagnostic module.



Only 2 pipes

A distinct aspect of RVF systems is their freon design, using just two refrigerant pipes, separated by RVF system tees. This means that even extensive installations demand less space, materials, and time, leading to significant savings during project implementation.



Heating at down to -20°C

The miniRVF air conditioning system is fitted with top-performance DC SKYR Inverter compressor. Equipped with an integrated crankcase heater, it ensures the system remains functional in heating mode even at bitterly cold temperatures of -20°C.



Impressive installation lengths

Compared to SINGLE, DUAL, and MULTI systems, these solutions boast remarkable length capacities – reaching a total of 120 m with a height difference of 30 m.

Liquid/gas installation guidelines



A. Total installation length	100 / 120 m***
B. Max. distance from indoor unit to outdoor unit	60 m
C. Vertical distance from indoor unit to outdoor unit	30 m*
	20 m**
D. Vertical distance between indoor units	8 m
E. Distance from the manifold to the last indoor unit	40 m
F. Distance from HR Box to indoor unit	-

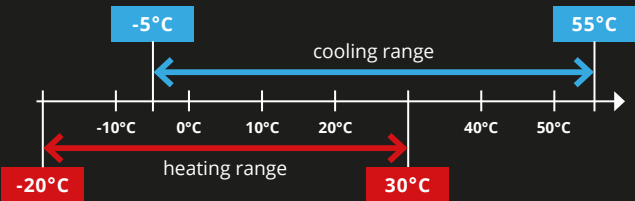
* outdoor unit above the indoor unit ** outdoor unit below the indoor unit Each distributor corresponds to 0,5 pipe lengths.

*** The lenght for 12,5~22,4 kW units totals 100 m. The lenght for 26~33,5 kW units totals 120 m.

Wide operating range

System with a heat pump

The miniRVF V4 system, utilising the most advanced components and control features, can function efficiently both under extremely high and low temperatures.



miniRVF V4

18,0-33,5 kW



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Check ongoing validity of certificate:
www.eurovent-certification.com

Features device

Refrigerant R410A	Up to 19 indoor units	Built-in EXV valve	SCROLL Compressor ⁽¹⁾	Twin rotary compressor ⁽¹⁾	Active PCB cooling	Compatible with air handling units	SMART defrost
IAIR X-shaped fin	Internally grooved pipes	Y-shaped refrigerant flow path design	IAIR cross-flow fans	Whisper-quiet fan	Super silent eMOTO mode	Super silent night-time eMOTO mode	Automatic addressing
Manual addressing	Indoor units can total 130% of the outdoor unit's capacity	Cooling even at 55°C	Dual-fan design	Waterproof rating IPX4	Service remote control for indoor unit addressing	Compatible with all RVF indoor units	Digital DC Inverter SKY [®]
Compressor crankcase heater	Total installation length up to 120m	Heating at low outdoor temp. down to -20°C	PCB system diagnostics	Remote control TUYA WI-FI ⁽²⁾	Compatibility with BMS ⁽²⁾	Central controller output ⁽²⁾	

1. Selected models.

2. Optional using.

Technical specification

(18,0-26,0 kW)



Rotenso participates in the ECP programme for Variable Refrigerant Flow. Check ongoing validity of certificate: www.eurovent-certification.com

Model			RVF-180V4OMI3	RVF-224V4OMI3	RVF-260V4OMI3
EAN product code			5905567613838	5905567613845	5905567613852
Max. number of indoor unit		pcs	10	13	15
Cooling	Capacity (Nom.)	kW	18,0	22,4	26,0
	Rated input (Nom.)	kW	5,18	6,75	7,54
	EER	W/W	3,47	3,32	3,45
	SEER	W/W	5,91	7,65	6,84
Heating	Capacity (Nom.)	kW	20,0	24,0	28,5
	Rated input (Nom.)	kW	5,00	5,62	6,77
	COP	W/W	3,98	4,27	4,21
	SCOP	W/W	3,71	4,45	4,6
Reversible heat pump type			Air-to-air	Air-to-air	Air-to-air
Compressor	Type		Twin rotary DC	Twin rotary DC	Twin rotary DC
Fan motor	Type		BLDC	BLDC	BLDC
	Quantity		2	2	2
Refrigerant	Type		R410a	R410a	R410a
	GWP		2088	2088	2088
	Valve type		Electronic EXV	Electronic EXV	Electronic EXV
	Quantity	kg	4,2	5,3	6,1
TCO ₂ eq		8,77	11,07	12,74	
Maximum air flow		m³/h	6000	8000	10000
Sound pressure level		dB(A)	58	58	60
Sound power level		dB(A)	68	68	69
Net dimensions	W × H × D	mm	975 × 1335 × 400	1015 × 1430 × 450	1120 × 1549 × 528
Gross dimensions	W × H × D	mm	1010 × 1445 × 415	1095 × 1545 × 485	1278 × 1703 × 560
Bracket spacing	W × D	mm	586 × 370	636 × 417	685 × 494
Net weight / Gross weight		kg	94,7 / 104,4	112,7 / 127	142 / 162
Pipe connections	Liquid / Gas	mm (inch)	Φ9,52 / Φ19,05 (3/4" / 3/8")	Φ9,52 / Φ19,05 (3/4" / 3/8")	Φ9,52 / Φ22,2 (3/8" / 7/8")
Max. total installation length		m	120	120	120
Max. installation length – OU ⁽¹⁾ to most distant IU ⁽²⁾		m	60	60	60
Max. installation length – 1 manifold to most distant IU ⁽²⁾		m	40	40	40
Max. vertical installation length – OU ⁽¹⁾ to IU ⁽²⁾ (OU is above IU)		m	30	30	30
Max. vertical installation length – OU ⁽¹⁾ to IU ⁽²⁾ (OU is below IU)		m	20	20	20
Max. vertical installation length – Indoor unit to indoor unit		m	8	8	8
Electrical system					
Cables	PQE communication	pcs × mm²	3 × 1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design		
Protection		A	According to the electrical system design		
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5-55 / -20-30	-5-55 / -20-30	-5-55 / -20-30

1. OU - outdoor unit 2. IU - indoor unit
 Operating temperature for cooling: -5°C to 55°C. Operating temperature for heating: -15°C to 30°C
 Cooling conditions: indoors 27°C (80.6°F) DB, 19°C (66°F) WB outdoors 35°C (95°F) DB
 Heating conditions: indoors 20°C (68°F) DB, 15°C (44.6°F) WB outdoors 7°C (42.8°F) DB
 Noise level: measured 1 m away from the front of the unit and at a height of 1.5 m (under test conditions). Values might slightly fluctuate based on environmental conditions.
 Due to continuous refinements in our units, the aforementioned technical data can change without prior notice.



18,0 kW



22,4 kW



26,0 kW

Technical specification

(28,0-33,5 kW)



Rotenso participates in the ECP programme for Variable Refrigerant Flow. Check ongoing validity of certificate: www.eurovent-certification.com

Model			RVF-280V4OMI3	RVF-335V4OMI3
EAN product code			5905567613869	5905567613876
Max. number of indoor unit		pcs	16	19
Cooling	Capacity (Nom.)	kW	28,0	33,5
	Rated input (Nom.)	kW	8,31	9,46
	EER	W/W	3,37	3,54
	SEER	W/W	6,75	6,58
Heating	Capacity (Nom.)	kW	31,5	37,5
	Rated input (Nom.)	kW	8,18	8,99
	COP	W/W	3,85	4,17
	SCOP	W/W	4,18	4,19
Reversible heat pump type			Air-to-air	Air-to-air
Compressor	Type		Scroll DC	Scroll DC
	Quantity			
Fan motor	Type		BLDC	BLDC
	Quantity		2	2
Refrigerant	Type		R410a	R410a
	GWP		2088	2088
	Valve type		Electronic EXV	Electronic EXV
	Quantity	kg	8,0	8,0
		TCO ₂ eq	16,7	16,7
Maximum air flow		m ³ /h	10000	10000
Sound pressure level		dB(A)	60	60
Sound power level		dB(A)	69	70
Net dimensions	W × H × D	mm	1120 × 1549 × 528	1120 × 1549 × 528
Gross dimensions	W × H × D	mm	1278 × 1703 × 560	1278 × 1703 × 560
Bracket spacing	W × D	mm	685 × 494	685 × 494
Net weight / Gross weight		kg	154 / 174	154 / 174
Pipe connections	Liquid / Gas	mm (inch)	Φ9,52 / Φ22,2 (3/8" / 7/8")	Φ9,52 / Φ22,2 (3/8" / 7/8")
Max. total installation length		m	120	120
Max. installation length – OU ⁽¹⁾ to most distant IU ⁽²⁾		m	60	60
Max. installation length – 1 manifold to most distant IU ⁽²⁾		m	40	40
Max. vertical installation length – OU ⁽¹⁾ to IU ⁽²⁾ (OU is above IU)		m	30	30
Max. vertical installation length – OU ⁽¹⁾ to IU ⁽²⁾ (OU is below IU)		m	20	20
Max. vertical installation length – Indoor unit to indoor unit		m	8	8
Electrical system				
Cables	PQE communication	pcs × mm ²	3 × 1,0 (shielded)	3 × 1,0 (shielded)
	Power supply	pcs × mm ²	According to the electrical system design	
Protection		A	According to the electrical system design	
Power supply		V-Hz, Ø	380-420-50, 3f	380-420-50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5-55 / -20-30	-5-55 / -20-30

1. OU - outdoor unit 2. IU - indoor unit

Operating temperature for cooling: -5°C to 55°C. Operating temperature for heating: -15°C to 30°C

Cooling conditions: indoors 27°C (80.6°F) DB, 19°C (60°F) WB outdoors 35°C (95°F) DB

Heating conditions: indoors 20°C (68°F) DB, 15°C (44.6°F) WB outdoors 7°C (42.8°F) DB

Noise level: measured 1 m away from the front of the unit and at a height of 1.5 m (under test conditions). Values might slightly fluctuate based on environmental conditions.

Due to continuous refinements in our units, the aforementioned technical data can change without prior notice.



28 kW



33,5 kW



Air Conditioning systems

MINI RVF V5

Solutions based on outdoor units with horizontal air discharge offer outputs ranging from 10 kW to 16 kW per unit.

These two-pipe configurations deliver efficient cooling or heating.

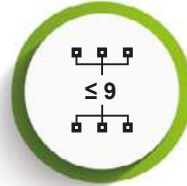
RVF systems are distinguished by their freon pipework that utilises RVF system tees. This design minimises the space taken up by the installation, reduces the material required, and shortens the time otherwise needed to connect each indoor unit separately, leading to considerable savings with a higher number of units.

MiniRVF V5 serves as an alternative to multiple SINGLE, MULTI, or GROUP units.

With a wide array of indoor and outdoor units, top-notch specifications, and a sleek design of the outdoor unit, miniRVF V5 systems are the perfect choice for a variety of applications.



miniV5 RVF



Up to 9
indoor units



1- or 3-phase
supply



Heating at down
to -15°C



Active PCB
cooling



Easy
diagnostics



Impressive
installation
lengths





Connect up to 9 indoor units

Connect up to 9 indoor units, with a total capacity reaching up to 130% of the outdoor units' capacity.

94



PCB active refrigerant-cooling

The refrigerant actively cools the inverter module board by up to 10°C, ensuring it remains at a safe operating temperature, even when outdoor temperatures soar to 55°C.



Easy diagnostics

Access the diagnostic display on the inverter's PCB in RVF systems to monitor the status and settings of the outdoor unit, even in the absence of a diagnostic module.



Impressive installation lengths

Compared to SINGLE, DUAL, and MULTI systems, these solutions boast remarkable length capacities – reaching a total of 100 m with a height difference of 30 m.

95



1- or 3-phase supply

Broad application potential arises from the product range available in both 1 phase and 3 phase power supply versions.



Heating at down to -15°C

Central to the miniRVF V5 systems are twin rotary compressors fitted with crankcase heaters which guarantee effective heating even at temperatures as low as -15°C.

Liquid/gas installation guidelines



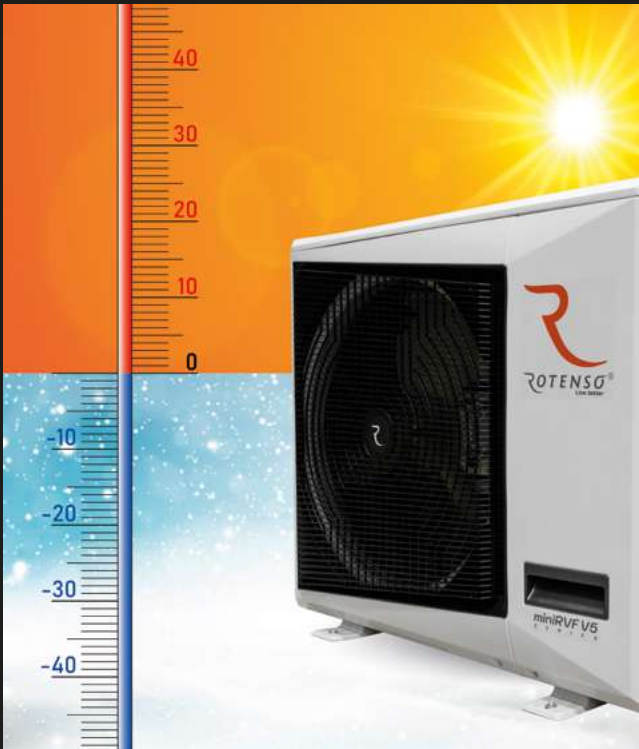
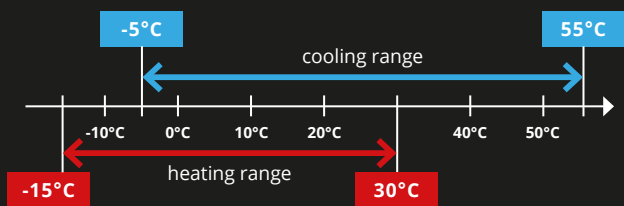
A. Total installation length	100 m
B. Max. distance from indoor unit to outdoor unit	60 m
C. Vertical distance from indoor unit to outdoor unit	30 m*
	20 m**
D. Vertical distance between indoor units	8 m
E. Distance from the manifold to the last indoor unit	40 m
F. Distance from HR Box to indoor unit	-

* outdoor unit above the indoor unit ** outdoor unit below the indoor unit Each distributor corresponds to 0,5 pipe lengths.

Wide operating range

System with a heat pump

The miniRVF V5 system, utilising the most advanced components and control features, can function efficiently both under extremely high and low temperatures.



miniRVF V5

10,0-16,0 kW

MINI
RVF



Rotenso participates in the EUROVENT programme.
Check ongoing validity of certificate:
www.eurovent-certification.com

Features device

97

Refrigerant R410A	Up to 9 indoor units	Built-in EXV valve	Twin rotary compressor	Active PCB cooling	Compatible with air handling units	SMART outdoor unit snow clearance	IAIR X-shaped fin
Internally grooved pipes	Y-shaped refrigerant flow path design	IAIR cross-flow fans	Whisper-quiet fan	Super silent eMOTO mode	Super silent night-time eMOTO mode	Automatic addressing	Manual addressing
Indoor units can total 130% of the outdoor unit's capacity	Cooling even at 55°C	1-fan design	Waterproof rating IPX4	Service remote control for indoor unit addressing	Compatible with all RVF indoor units	Digital DC Inverter SKY [®]	Compressor crankcase heater
Total installation length up to 100m	Heating at low outdoor temp. down to -15°C	PCB system diagnostics	Remote control TUYA WI-FI ⁽¹⁾	Compatibility with BMS ⁽²⁾	Central controller output ⁽²⁾		

1. Optional using accessories.

Technical specification

(10,0-12,5 kW)



Rotenso participates in the ECP programme for Variable Refrigerant Flow. Check ongoing validity of certificate: www.eurovent-certification.com

Model			RVF-100V5OMI1	RVF-125V5OMI3
EAN product code			5905567614231	5905567613883
Max. number of indoor unit		pcs	6	7
Cooling	Capacity (Nom.)	kW	10	12,5
	Rated input (Nom.)	kW	3,0	3,2
	EER	W/W	3,33	3,91
	SEER	W/W	6,57	5,66
Heating	Capacity (Nom.)	kW	11,0	14,0
	Rated input (Nom.)	kW	3,1	3,52
	COP	W/W	3,55	3,98
	SCOP	W/W	3,98	3,38
Reversible heat pump type	Type		Air-to-air	Air-to-air
Compressor	Type		Twin rotary DC	Twin rotary DC
Fan motor	Type		BLDC	BLDC
	Quantity		1	1
Refrigerant	Type		R410a	R410a
	GWP		2088	2088
	Valve type		Electronic EXV	Electronic EXV
	Quantity	kg	3,0	3,0
		TCO ₂ eq	6,26	6,26
Maximum air flow		m³/h	4000	4000
Sound pressure level		dB(A)	56	56
Sound power level		dB(A)	68	68
Net dimensions	W × H × D	mm	1032 x 810 x 445	1032 × 810 × 455
Gross dimensions	W × H × D	mm	1075 × 875 × 495	1075 × 875× 495
Bracket spacing	W × D	mm	670 × 420	670 × 420
Net weight / Gross weight		kg	60 / 65	67,4 / 72,2
Pipe connections	Liquid / Gas	mm (inch)	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")
Max. total installation length		m	100	100
Max. installation length – OU ⁽¹⁾ to most distant IU ⁽²⁾		m	60	60
Max. installation length – 1 manifold to most distant IU ⁽²⁾		m	40	40
Max. vertical installation length – OU ⁽¹⁾ to IU ⁽²⁾ (OU above IU)		m	30	30
Max. vertical installation length – OU ⁽¹⁾ to IU ⁽²⁾ (OU below IU)		m	20	20
Max. vertical installation length – Indoor unit to indoor unit		m	8	8
Electrical system				
Cables	PQE communication	pcs × mm²	3 × 1,0 (shielded)	
	Power supply	pcs × mm²	According to the electrical system design	
Protection		A	According to the electrical system design	
Power supply		V-Hz, Ø	220-240-50, 1f	380-420-50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5-55 / -15-30	-5-55 / -15-30

1. OU - outdoor unit 2. IU - indoor unit

Operating temperature for cooling: -5°C to 55°C. Operating temperature for heating: -15°C to 30°C

Cooling conditions: indoors 27°C (80.6°F) DB, 19°C (66°F) WB outdoors 35°C (95°F) DB

Heating conditions: indoors 20°C (68°F) DB, 15°C (44.6°F) WB outdoors 7°C (42.8°F) DB

Noise level: Measured 1 m away from the front of the unit and at a height of 1.5 m (under test conditions). Values might slightly fluctuate based on environmental conditions.

Due to continuous refinements in our units, the aforementioned technical data can change without prior notice.

*marked models are not Eurovent certified.



10,0 kW



12,5 kW



12,5 kW

Technical specification

(14,0-16,0 kW)



Rotenso participates in the ECP programme for Variable Refrigerant Flow. Check ongoing validity of certificate: www.eurovent-certification.com

Model			RVF-140V5OMI3	RVF-160V5OMI3
EAN product code			5905567613890	5905567613906
Max. number of indoor unit		pcs	8	9
Cooling	Capacity (Nom.)	kW	14,0	16,0
	Rated input (Nom.)	kW	3,75	4,75
	EER	W/W	3,73	3,37
	SEER	W/W	5,15	5,49
Heating	Capacity (Nom.)	kW	16,0	17,0
	Rated input (Nom.)	kW	4,00	4,4
	COP	W/W	4,00	3,86
	SCOP	W/W	3,89	3,90
Reversible heat pump type	Type		Air-to-air	Air-to-air
Compressor	Type		Twin rotary DC	Twin rotary DC
Fan motor	Type		BLDC	BLDC
	Quantity		1	1
Refrigerant	Type		R410a	R410a
	GWP		2088	2088
	Valve type		Electronic EXV	Electronic EXV
	Quantity	kg	3,45	3,8
TCO ₂ eq		7,2	7,93	
Maximum air flow		m³/h	5500	5500
Sound pressure level		dB(A)	57	57
Sound power level		dB(A)	68	68
Net dimensions	W × H × D	mm	1100 × 870 × 528	1100 × 870 × 528
Gross dimensions	W × H × D	mm	1140 × 965 × 540	1140 × 965 × 540
Bracket spacing	W × D	mm	635 × 510	635 × 510
Net weight / Gross weight		kg	87,5 / 97,4	90 / 100
Pipe connections	Liquid / Gas	mm (inch)	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")
Max. total installation length		m	100	100
Max. installation length – OU ⁽¹⁾ to most distant IU ⁽²⁾		m	60	60
Max. installation length – 1 manifold to most distant IU ⁽²⁾		m	40	40
Max. vertical installation length – OU ⁽¹⁾ to IU ⁽²⁾ (OU above IU)		m	30	30
Max. vertical installation length – OU ⁽¹⁾ to IU ⁽²⁾ (OU below IU)		m	20	20
Max. vertical installation length – Indoor unit to indoor unit		m	8	8
Electrical system				
Cables	PQE communication	pcs × mm²	3 × 1,0 (shielded)	
	Power supply	pcs × mm²	According to the electrical system design	
Protection		A	According to the electrical system design	
Power supply		V-Hz, Ø	220-240-50, 1f	380-420-50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5-55 / -15-30	-5-55 / -15-30

1. OU - outdoor unit 2. IU - indoor unit

Operating temperature for cooling: -5°C to 55°C. Operating temperature for heating: -15°C to 30°C

Cooling conditions: indoors 27°C (80.6°F) DB, 19°C (60°F) WB outdoors 35°C (95°F) DB

Heating conditions: indoors 20°C (68°F) DB, 15°C (44.6°F) WB outdoors 7°C (42.8°F) DB

Noise level: measured 1 m away from the front of the unit and at a height of 1.5 m (under test conditions). Values might slightly fluctuate based on environmental conditions.

Due to continuous refinements in our units, the aforementioned technical data can change without prior notice.



14,0 kW



16,0 kW



Air Conditioning systems

RVF V-STAGE

Rotenso RVF V-STAGE, featuring an outdoor unit designed for enclosed installations, is often the sole solution for ensuring thermal comfort in historic edifices or densely built urban areas. In such places, conservation regulations might prohibit the placement of outdoor units on facades or roofs.

This approach permits the enclosed installation of the Rotenso RVF V-STAGE outdoor unit, which supports an indoor unit capacity ranging from 10 kW to 22.4 kW. Up to 13 RVF indoor units can be connected to this setup.

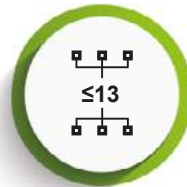
The cumulative capacity of the indoor units can represent up to 130% of the outdoor unit's capacity. In addition, the system can interface with air handling units possessing either a cooling or heating section, positioning it as the ideal solution for buildings

under conservation scrutiny or located in challenging locales. The RVF V-STAGE systems come with twin rotary compressors fitted with crankcase heaters which guarantee effective heating even at temperatures as low as -15°C.

Contrasted with standard multi-split air conditioning systems, RVF systems stand out for their capability to design far-reaching installations – achieving lengths up to 100 m with a height difference of 30 m.



V-STAGE RVF



Up to 13
indoor units



ESP
of 90 Pa



Heating at down
to -15°C



Active
PCB cooling



Unit for
enclosed
installation



Impressive
installation
lengths



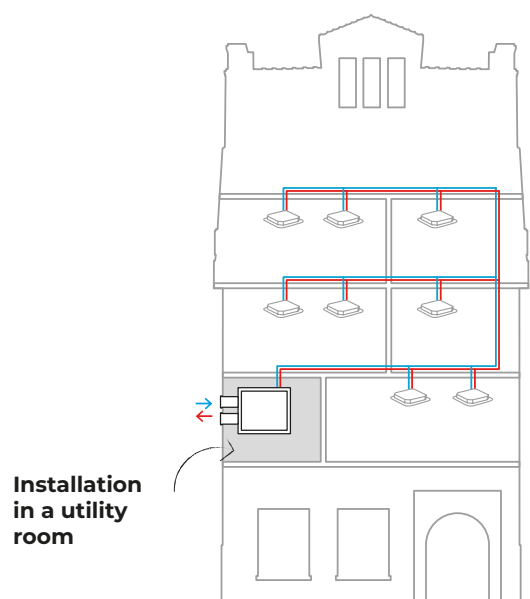


RVF V-STAGE installation options

RVF V-STAGE systems are designed to provide air-conditioning systems in buildings where mounting the outdoor unit on the façade or roof isn't feasible due to size constraints or historical significance.

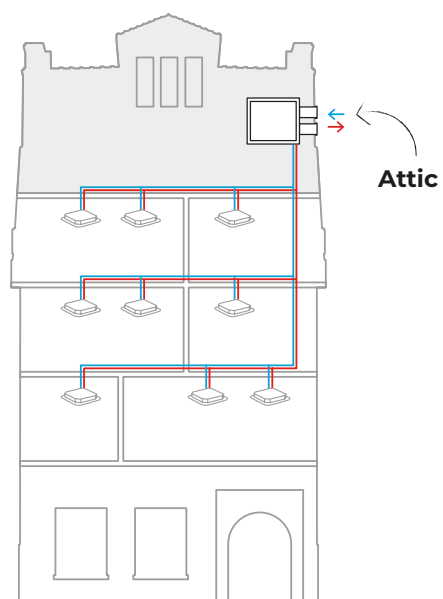
These solutions permit the complete enclosure of the unit within the building, be it in a utility room, basement, attic, or even a disused chimney.

Utility room



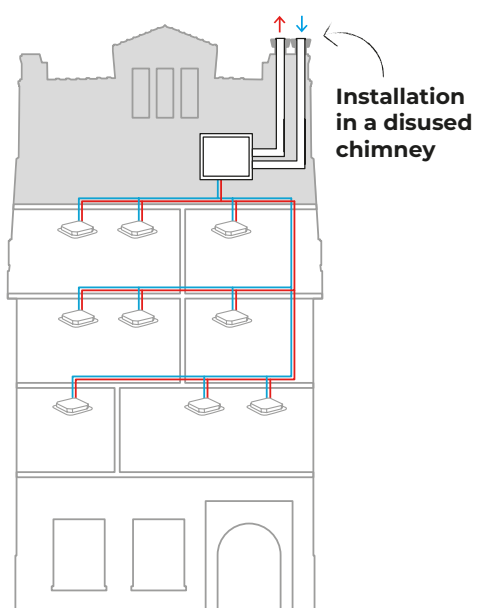


In the attic

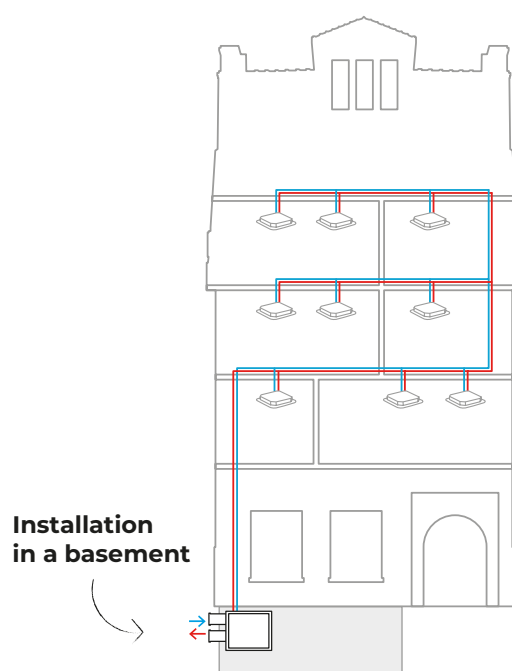


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Disused chimney



Basement





Connect up to 13 indoor units

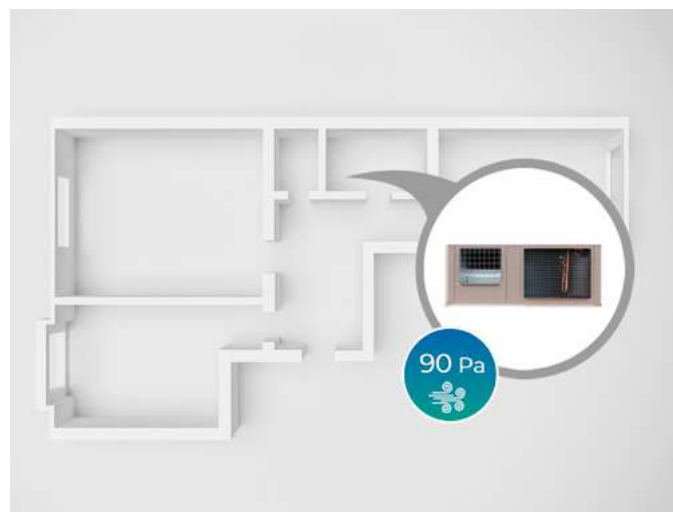
Connect up to 13 indoor units, with a total capacity reaching up to 130% of the outdoor units' capacity.

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PCB active refrigerant-cooling

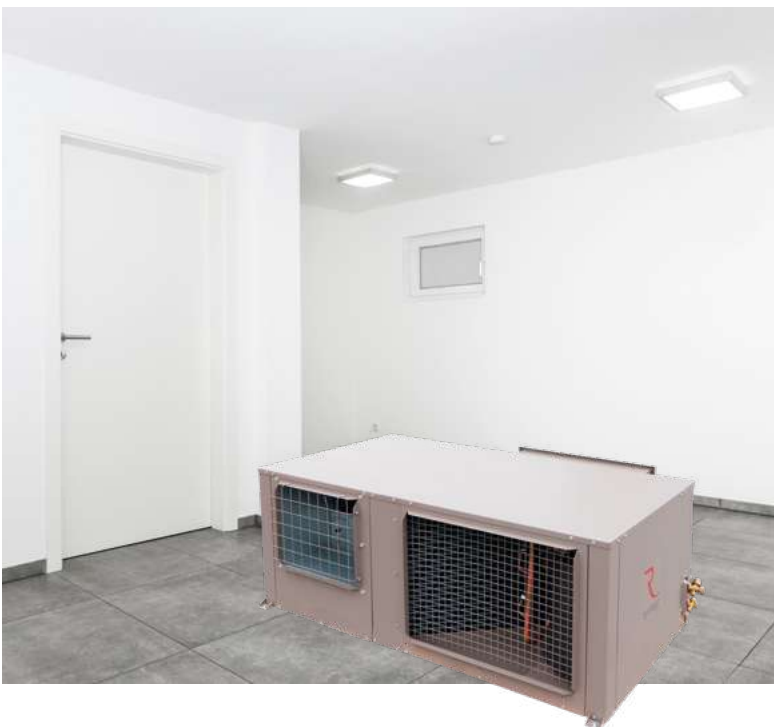
The refrigerant actively cools the inverter module board by up to 10°C, ensuring it remains at a safe operating temperature, even when outdoor temperatures soar to 50°C.



ESP of 90 Pa

With an external static pressure of 90 Pa, suitable air intake and discharge can be ensured for ducts with a total length of up to 15 m.*

* Duct length depends on the installation design.



Unit for enclosed installation

The unique high-ESP fan design, capable of transporting air across distances of up to 15 metres, facilitates the indoor installation of RVF V-STAGE. The necessary inlets and outlets for air exchange ducts only necessitate small vents in the façade. These subtle additions do not detract from the building's aesthetic appeal and can be discreetly concealed with a cap.

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Heating at down to -15°

Central to the RVF V STAGE systems are two rotary compressors fitted with crankcase heaters which guarantee effective heating even at temperatures as low as -15°C.



Impressive installation lengths

Compared to SINGLE, DUAL, and MULTI systems, these solutions boast remarkable length capacities – reaching a total of 100 m with a height difference of 30 m.

Liquid/gas installation guidelines



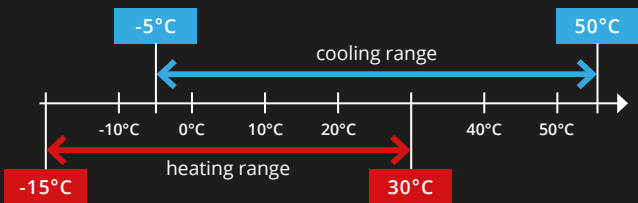
A. Total installation length	100 m
B. Max. distance from indoor unit to outdoor unit	60 m
C. Vertical distance from indoor unit to outdoor unit	30 m*
	20 m**
D. Vertical distance between indoor units	8 m
E. Distance from the manifold to the last indoor unit	40 m
F. Distance from HR Box to indoor unit	-

* outdoor unit above the indoor unit ** outdoor unit below the indoor unit Each distributor corresponds to 0,5 pipe lengths.

Wide operating range

System with a heat pump

The RVF V-STAGE system, utilising the most advanced components and control features, can function efficiently both under extremely high and low temperatures.



RVF V-Stage

10,0-22,4 kW

V-STAGE
RVF



Features device

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Refrigerant R410A	Up to 13 indoor units	Built-in EXV valve	Twin rotary compressor	Active PCB cooling	Compatible with air handling units	SMART outdoor unit snow clearance	IAIR X-shaped fin
Internally grooved pipes	Y-shaped refrigerant flow path design	Centrifugal radial fan	Automatic addressing	Manual addressing	Indoor units can total 130% of the outdoor unit's capacity	Cooling even at 50°C	ESP of 90 Pa
Indoor installation	Enclosed fan installation	Service remote control for indoor unit addressing	Compatible with all RVF indoor units	Digital DC Inverter SKY®	Compressor crankcase heater	Total installation length up to 100 m	Heating at low outdoor temp. down to -15°C
System diagnostics from PCB	Remote control TUYA WI-FI (1)	Compatibility with BMS (1)	Central controller output (1)				

1. Optional using accessories.

Technical specification

(10,0-14,0 kW)

Model			RVF-100VS10MI1	RVF-140VS10MI3
EAN product code			5905567612862	5905567607592
Max. number of indoor unit		pcs	6	8
Cooling	Capacity (Nom.)	kW	10	14
	Rated input (Nom.)	kW	4,3	6,8
	EER	W/W	2,3	2,1
	SEER	W/W	6,1	6,2
Heating	Capacity (Nom.)	kW	11,2	14
	Rated input (Nom.)	kW	4,1	5,6
	COP	W/W	2,7	2,5
	SCOP	W/W	4,0	3,81
Reversible heat pump type	Type		Air-to-air	Air-to-air
Compressor	Type		Twin rotary DC	Twin rotary DC
Fan motor	Type		BLDC inverter motor	BLDC inverter motor
	Quantity		1	1
ESP - External static pressure		Pa	90	90
Air distribution vents	Inlet	mm	625 × 465	625 × 465
	Outlet	mm	400 × 345	400 × 345
Refrigerant	Type		R410a	R410a
	GWP		2088	2088
	Valve type		Electronic EXV	Electronic EXV
	Quantity	kg	2,6	3,5
		TCO ₂ eq	5,43	7,31
Maximum air flow		m³/h	3600	3600
Sound pressure level		dB(A)	58	60
Sound power level		dB(A)	68	72
Net dimensions	W × H × D	mm	1508 × 583 × 927	1508 × 583 × 927
Gross dimensions	W × H × D	mm	1545 × 715 × 960	1545 × 715 × 960
Bracket spacing	W × D	mm	1387 × 820	1387 × 820
Net weight / Gross weight		kg	141 / 190	173 / 215
Pipe connections	Liquid / Gas	mm (inch)	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")
Max. total installation length		m	100	100
Max. installation length – OU ⁽¹⁾ to most distant IU ⁽²⁾		m	60	60
Max. installation length – 1 manifold to most distant IU ⁽²⁾		m	40	40
Max. vertical installation length – OU ⁽¹⁾ to IU ⁽²⁾ (OU above IU)		m	30	30
Max. vertical installation length – OU ⁽¹⁾ to IU ⁽²⁾ (OU below IU)		m	20	20
Max. vertical installation length – Indoor unit to indoor unit		m	8	8
Electrical system				
Cables	PQE communication	pcs × mm²	3 × 1,0 (shielded)	
	Power supply	pcs × mm²	According to the electrical system design	
Protection		A	According to the electrical system design	
Power supply		V-Hz, Ø	220-240-50, 1f	380-420-50, 3f
Operating outdoor temperature (cooling / heating)		°C	-5~50 / -15~30	-5~50 / -15~30

1. OU - outdoor unit 2. IU - indoor unit

Operating temperature for cooling: -5°C to 55°C. Operating temperature for heating: -15°C to 30°C

Cooling conditions: indoors 27°C (80.6°F) DB, 19°C (60°F) WB outdoors 35°C (95°F) DB

Heating conditions: indoors 20°C (68°F) DB, 15°C (44.6°F) WB outdoors 7°C (42.8°F) DB

Noise level: measured 1 m away from the front of the unit and at a height of 1.5 m (under test conditions). Values might slightly fluctuate based on environmental conditions.

Due to continuous refinements in our units, the aforementioned technical data can change without prior notice.



10,0 kW



14,0 kW

Technical specification

(16,0-22,4 kW)

Model			RVF-160VS10MI3	RVF-224VS10MI3
EAN product code			5905567607622	5905567607639
Max. number of indoor unit		pcs	9	13
Cooling	Capacity (Nom.)	kW	16	22,4
	Rated input (Nom.)	kW	7,3	11,5
	EER	W/W	2,2	1,9
	SEER	W/W	5,92	4,91
Heating	Capacity (Nom.)	kW	16	24
	Rated input (Nom.)	kW	6,0	11,5
	COP	W/W	2,7	2,1
	SCOP	W/W	3,81	3,55
Reversible heat pump type	Type		Air-to-air	Air-to-air
Compressor	Type		Twin rotary DC	Twin rotary DC
Fan motor	Type		BLDC inverter motor	BLDC inverter motor
	Quantity		1	2
ESP - External static pressure		Pa	90	90
Air distribution vents	Inlet	mm	625 × 465	578 × 397
	Outlet	mm	400 × 345	2 × (397 × 343)
Refrigerant	Type		R410a	R410a
	GWP		2088	2088
	Valve type		Electronic EXV	Electronic EXV
	Quantity	kg	3,5	7,0
		TCO ₂ eq	7,31	14,62
Maximum air flow		m³/h	5000	8000
Sound pressure level		dB(A)	61	67
Sound power level		dB(A)	72	72
Net dimensions	W × H × D	mm	1508 × 583 × 927	2001 × 675 × 1656
Gross dimensions	W × H × D	mm	1545 × 715 × 960	2050 × 825 × 1720
Bracket spacing	W × D	mm	1387 × 820	1940 × 503 × 503
Net weight / Gross weight		kg	173 / 215	290 / 355
Pipe connections	Liquid / Gas	mm (inch)	φ9,52 / φ15,9 (3/8" / 5/8")	φ9,52 / φ19,05 (3/8" / 3/4")
Max. total installation length		m	100	100
Max. installation length – OU ⁽¹⁾ to most distant IU ⁽²⁾		m	60	60
Max. installation length – 1 manifold to most distant IU ⁽²⁾		m	40	40
Max. vertical installation length – OU ⁽¹⁾ to IU ⁽²⁾ (OU above IU)		m	30	30
Max. vertical installation length – OU ⁽¹⁾ to IU ⁽²⁾ (OU below IU)		m	20	20
Max. vertical installation length – Indoor unit to indoor unit		m	8	8
Electrical system				
Cables	PQE communication	pcs × mm²	3 × 1,0 (shielded)	
	Power supply	pcs × mm²	According to the electrical system design	
Protection		A	According to the electrical system design	
Power supply		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f
Operating outdoor temperature (cooling/heating)		°C	-5~50 / -15~30	-5~50 / -15~30

1. OU - outdoor unit 2. IU - indoor unit

Operating temperature for cooling: -5°C to 55°C. Operating temperature for heating: -15°C to 30°C

Cooling conditions: Indoors 27°C (80.6°F) DB, 19°C (60°F) WB Outdoors 35°C (95°F) DB

Heating conditions: Indoors 20°C (68°F) DB, 15°C (44.6°F) WB Outdoors 7°C (42.8°F) DB

Noise level: Measured 1 m away from the front of the unit and at a height of 1.5 m (under test conditions). Values might slightly fluctuate based on environmental conditions.

Due to continuous refinements in our units, the aforementioned technical data can change without prior notice.



16,0 kW



22,4 kW

WE ARE COOL & HEAT

Indoor units for **RVF systems**

Indoor units for RVF systems span a broad selection of universal devices, all compatible with every Rotenso RVF system component. For solutions involving up to 100 indoor units, remote WI-FI control is available via an app, used in conjunction with either the RVF-SMARTBOX-X or RVF-TSCC-Xcontroller.

Depending on the specific requirements, purpose, output demand, and spatial configuration, one can configure any Rotenso RVF air conditioning system using chosen wall-mounted, ducted, floor/ceiling or cassette units.

The facility for automatic or manual addressing, coupled with the flexibility to compose systems from various types and capacities of internal units, ensures the fulfilment of unique design needs when standard heating and cooling solutions won't suffice.

RVF





Wall-mounted unit **ENOS WM**

Elegantly designed versatile wall-mounted air conditioner with an integrated EXV valve is suitable for all RVF systems.

Its compact dimensions and minimalist aesthetic make it an ideal choice for any setting, be it residential, commercial, or hotel spaces.

Benefits of this air conditioner comprise its sleek build, a state-of-the-art DC SKYR Inverter fan motor ensuring whisper-quiet operation, and a wealth of features including a concealed smart display, automatic 4D louvres, and a „Smart Follow” temperature sensor incorporated within the remote control.





ENOS WM R VF



Automatic 4D
louvers



Smart Follow
mode



Dry Contact
integrated output



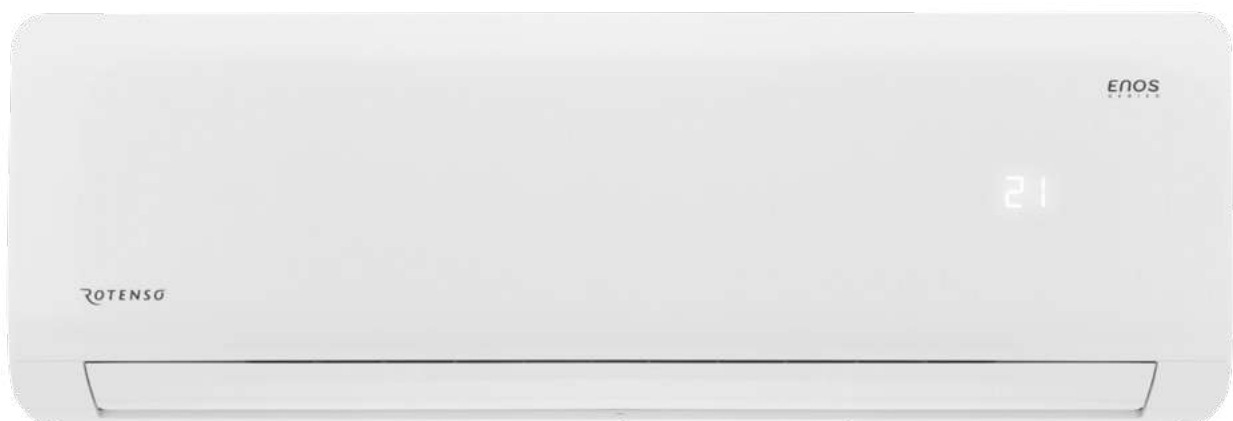
Double-sided
condensate
drainage



Autorestart
memory



Built-in
EXV valve

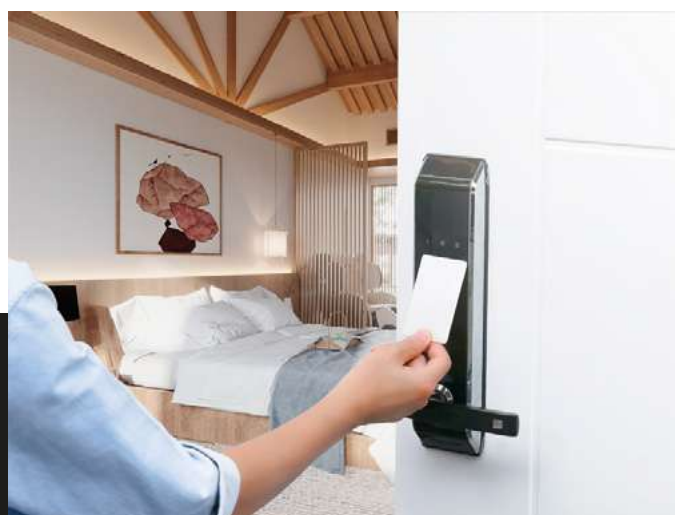




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Smart Follow mode

An extra wireless temperature sensor, integrated into the remote control, enables precise room temperature regulation.



Integrated Dry Contact

It allows the air conditioner to be switched on/off using an external signal. Applications include hotel switches, window sensors, condensate pump alarm control, and unit thermostatic activation.



Autorestart memory

In the event of a temporary power failure, this function remembers the previous settings of the air conditioning unit. When power is restored, the air conditioner resumes operation in the previous mode.



Automatic 4D louvres

You can remotely control the operation of horizontal and vertical louvres, as well as their oscillation, using a remote control or wired controller.



Double-sided condensate drainage

The indoor unit is equipped with the option to drain condensate from both the left and right sides.



Built-in EXV valve

The indoor units have a factory-built EXV valve. Thanks to this solution, the units are more compact and easy to install, which significantly improves the installation process and saves space.

Enos WM

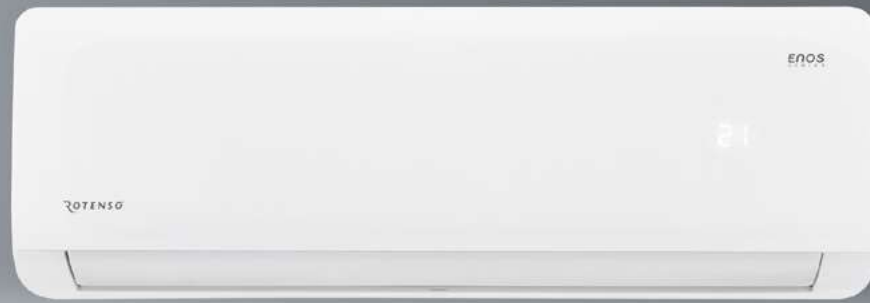
2,2-7,1 kW

RVF

HR
RVF

V-STAGE
RVF

MINI
RVF



Features device

116



Refrigerant
R410A



Universal
indoor unit RVF



Built-in
EXV valve



DC SKY[®]
motors



Automatic
4D louvre



SMART Follow
mode



Electrostatic
HD iAIR filter



Turbo eMOTO
mode



Air supply eMOTO
control system



Eco eMOTO
mode



Sleep mode



Wide-angle eMOTO
air supply



SMART LED
temperature
display



SMART panel
display ON/OFF



Automatic
addressing



Manual
addressing



Wireless remote
control



Controller with IrDA
receiver ⁽¹⁾



Wired controller
port



Central
controller output



Auto restart
memory



Louvre setting
memory



Synchronous
operation



Dry Contact
output



Timer



Double-sided
condensate
drainage



Self-diagnostics



SMART Wi-Fi ⁽²⁾



Compatibility
with BMS ⁽³⁾

1. Wired controller available as an option only. 2. Requires optional Wi-Fi. 3. Requires optional BMS gateway.

Technical specification (2,2-3,6 kW)

Model			RVF-22V5IWM	RVF-28V5IWM	RVF-36V5IWM
EAN product code			5905567607691	5905567607707	5905567607714
Power supply		V-Hz, Ø	220-240-50, 1f	220-240-50, 1f	220-240-50, 1f
Capacity (Nom.)	Cooling	kW	2,2	2,8	3,6
		BTU/h	7507	9554	12284
	Heating	kW	2,5	3,2	4,0
		BTU/h	8530	10919	13649
Rated input (Nom.)		W	10	10	13
Operating current (Nom.)		A	0,1	0,1	0,1
Fan motor		Type	DC	DC	DC
Fan speed	T / H / M / L	rpm	1000 / 900 / 870 / 850	1000 / 900 / 870 / 850	1100 / 1000 / 950 / 900
Air flow	T / H / M / L	m³/h	440 / 380 / 360 / 350	440 / 380 / 360 / 350	500 / 440 / 415 / 380
Sound pressure level		dB(A)	24~33	24~33	27~36
Net dimensions	W × H × D	mm	864 × 300 × 200	864 × 300 × 200	864 × 300 × 200
Gross dimensions	W × H × D	mm	945 × 375 × 290	945 × 375 × 290	945 × 375 × 290
Nett weight		kg	9,5	9,5	9,5
Gross weight		kg	12,0	12,0	12,0
Pipe connections	Liquid / Gas	mm (inch)	Φ6,35 / Φ9,52 (1/4" / 3/8")	Φ6,35 / Φ9,52 (1/4" / 3/8")	Φ6,35 / Φ12,7 (1/4" / 1/2")
	Condensate	mm	Φ20	Φ20	Φ20
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design		

Technical specification (4,5-7,1 kW)

Model			RVF-45V5IWM	RVF-56V5IWM	RVF-71V5IWM
EAN product code			5905567607721	5905567607738	5905567607745
Power supply		V-Hz, Ø	220-240-50, 1f	220-240-50, 1f	220-240-50, 1f
Capacity (Nom.)	Cooling	kW	4,5	5,6	7,1
		BTU/h	15355	19108	24226
	Heating	kW	5,0	6,3	8,0
		BTU/h	17061	21496	27297
Rated input (Nom.)		W	15	18	28
operating current (Nom.)		A	0,1	0,1	0,1
Fan motor		Type	DC	DC	DC
Fan speed	T / H / M / L	rpm	1050 / 950 / 900 / 850	1100 / 1000 / 950 / 900	1300 / 1200 / 1100 / 1000
Air flow	T / H / M / L	m³/h	655 / 610 / 565 / 525	720 / 645 / 580 / 560	890 / 805 / 720 / 645
Sound pressure level		dB(A)	29~38	32~42	35~43
Net dimensions	W × H × D	mm	972 × 320 × 215	972 × 320 × 215	972 × 320 × 215
Gross dimensions	W × H × D	mm	1060 × 400 × 310	1060 × 400 × 310	1060 × 400 × 310
Nett weight		kg	11,5	11,5	11,5
Gross weight		kg	14,0	14,0	14,0
Pipe connections	Liquid / Gas	mm (inch)	Φ6,35 / Φ12,7 (1/4" / 1/2")	Φ6,35 / Φ12,7 (1/4" / 1/2")	Φ9,52 / Φ15,9 (3/8" / 5/8")
	Condensate	mm	Φ20	Φ20	Φ20
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design		



TENJI CC four-way cassette unit (650 × 650)

TENJI CC

This economical, compact cassette air conditioner, equipped with an integrated EXV valve and condensate pump, is compatible with all RVF systems.

Its sleek design and concealment panel enable fitting into any ceiling void. Notably, the air conditioner operates quietly and consumes minimal energy. A standout feature is its compatibility with advanced control systems. Its four-way air supply guarantees optimal air distribution throughout the room. Tenji is perfectly suited for open spaces, shops, commercial zones, and office areas.





TENJI CC RVF



Automatic
louvers



4-sided
air supply



Integrated
condensate pump



Dry Contact
integrated output



Built-in
EXV valve



Autorestart
memory





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4-sided air supply

4-sided air supply ensures the air in the room is equally distributed in four directions, to guarantee optimal user comfort.



Integrated condensate pump

The device comes with a factory-installed condensate pump, capable to move condensate up to 750 mm above the indoor unit's drip tray.



Dry Contact integrated output

It allows the air conditioner to be switched on/off using an external signal. Applications include hotel switches, window sensors, condensate pump alarm control, and unit thermostatic activation.



Automatic louvres

You can remotely control the operation of horizontal and vertical louvres, as well as their oscillation, using a remote control or wired controller.

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Built-in EXV valve

The indoor units have a factory-built EXV valve. Thanks to this solution, the units are more compact and easy to install, which significantly improves the installation process and saves space.



Autorestart memory

In the event of a temporary power failure, this function remembers the previous settings of the air conditioning unit. When power is restored, the air conditioner resumes operation in the previous mode.

Tenji CC

2,2-4,5 kW

RVF

HR
RVF

V-STAGE
RVF

MINI
RVF



Features device

122



Refrigerant
R410A



Universal
indoor RVF



Built-in
EXV valve



DC SKY[®]
motors



Integrated
condensate pump



Automatic
louvers



SMART Follow
mode



Electrostatic
HD iAIR filter



Air supply eMOTO
control system



Eco eMOTO
mode



Sleep mode



Wide-angle eMOTO
air supply



SMART LED
temperature
display



Automatic
addressing



Manual
addressing



Wireless remote
control



Controller with IrDA
receiver ⁽¹⁾



Wired controller
port



Central
controller output



Auto restart
memory



Louver setting
memory



Synchronous
operation



Dry Contact
output



Alarm output



Timer



Self-diagnostics



SMART Wi-Fi ⁽²⁾



Compatibility
with BMS ⁽³⁾

1. Wired controller available as an option only. 2. Requires optional Wi-Fi. 3. Requires optional BMS gateway.

Technical specification (2,2-2,8 kW)

Model			RVF-22V4ICC	RVF-28V4ICC
EAN product code			5905567607844	5905567607851
Power supply		V-Hz, Ø	220-240~50, 1f	220-240~50, 1f
Capacity (Nom.)	Cooling	kW	2,2	2,8
		Btu/h	7507	9554
	Heating	kW	2,5	3,2
		Btu/h	8530	10919
Rated input (Nom.)		W	15	15
Operating current (Nom.)		A	0,1	0,1
Fan motor		Type	DC	DC
Air flow	W / M / L	m³/h	440 / 327 / 246	440 / 327 / 246
Sound pressure level		dB(A)	21~32	21~32
Net dimensions	W × H × D	mm	653 × 267 × 585	653 × 267 × 585
Gross dimensions	W × H × D	mm	745 × 375 × 675	745 × 375 × 675
Panel netto dimensions	W × H × D	mm	650 × 30 × 650	650 × 30 × 650
Panel gross dimensions	W × H × D	mm	755 × 95 × 680	755 × 95 × 680
Netto weight		kg	17,5	17,5
Gross weight		kg	23,0	23,0
Pipe connections	Liquid / Gas	mm (inch)	Φ6,35 / Φ9,52 (1/4" / 3/8")	Φ6,35 / Φ9,52 (1/4" / 3/8")
	Condensate	mm	Φ25	Φ25
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)	
	Power supply	pcs × mm²	According to the electrical system design	

Technical specification (3,6-4,5 kW)

Model			RVF-36V4ICC	RVF-45V4ICC
EAN product code			5905567607868	5905567607875
Power supply		V-Hz, Ø	220-240~50, 1f	220-240~50, 1f
Capacity (Nom.)	Cooling	kW	3,6	4,5
		Btu/h	12284	15355
	Heating	kW	4	5
		Btu/h	13649	17061
Rated input (Nom.)		W	23	23
Operating current (Nom.)		A	0,1	0,1
Fan motor		Type	DC	DC
Air flow	W / M / L	m³/h	530 / 432 / 327	530 / 432 / 327
Sound pressure level		dB(A)	26~36	26~36
Net dimensions	W × H × D	mm	653 × 267 × 585	653 × 267 × 585
Gross dimensions	W × H × D	mm	755 × 375 × 680	755 × 375 × 680
Panel netto dimensions	W × H × D	mm	650 × 30 × 650	650 × 30 × 650
Panelu gross dimensions	W × H × D	mm	755 × 95 × 680	755 × 95 × 680
Nett weight		kg	17,5	17,5
Gross weight		kg	23,0	23,0
Pipe connections	Liquid / Gas	mm (inch)	Φ6,35 / Φ12,7 (1/4" / 1/2")	Φ6,35 / Φ12,7 (1/4" / 1/2")
	Condensate	mm	Φ25	Φ25
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)	
	Power supply	pcs × mm²	According to the electrical system design	



Cassette unit 360° (950 × 950) **TENJI CS**

360° air supply, sophisticated control features, and subtle mounting fixtures are just a few advantages of the Tenji cassette air conditioner, designed for all RVF systems.

The circular air supply (360°) directs the conditioned air through up to four louvres and additional semi-circular vents towards the ceiling, from which the air gently descends throughout the room.

With independent louvre control, airflow can be optimally adjusted based on room zone configuration. Tenji, fitted with an integrated EXV valve and condensate pump, ensures impeccable air distribution.

Given the extensive range of types and capacities up to 16 kW, this air conditioner is an ideal choice for spacious venues like commercial spaces, conference rooms, or banquet halls.



TENJI CS RVF



Automatic
louvers



360°
air supply



Integrated
condensate pump



Dry Contact
integrated output



Built-in
EXV valve



Autorestart
memory

125





126

Air supply 360°

For the comfort of occupants, circular air supply (360°) directs the conditioned air through up to four louvers and additional semi-circular vents towards the ceiling, from which the air gently descends throughout the room.



Dry Contact integrated output

It allows the air conditioner to be switched on/off using an external signal. Applications include hotel switches, window sensors, condensate pump alarm control, and unit thermostatic activation.



Autorestartu memory

In the event of a temporary power failure, this function remembers the previous settings of the air conditioning unit. When power is restored, the air conditioner resumes operation in the previous mode.



Automatic louvre

You can remotely control the operation of horizontal and vertical louvres, as well as their oscillation, using a remote control or wired controller.



Integrated condensate pump

The device comes with a factory-installed condensate pump, capable of removing condensate up to 750 mm above the indoor unit's drip tray.



Built-in EXV valve

Notifications of refrigerant leaks are shown as messages on the indoor unit or a wall-mounted controller. This feature aids in safeguarding the compressor from potential damage and excessive temperatures.

Tenji 360°

5,6-16,0 kW

RVF

HR
RVF

V-STAGE
RVF

MINI
RVF



Features device

128



Refrigerant
R410A



Universal indoor
unit RVF



Built-in
EXV valve



DC SKY[®]
motors



Integrated
condensate
pump



Automatic
louvers



SMART Follow
mode



Electrostatic
HD iAIR filter



Air supply eMOTO
control system



Eco eMOTO
mode



Sleep mode



Wide-angle eMOTO
air supply



SMART LED
temperature
display



Automatic
addressing



Manual
addressing



Wireless remote
control



Controller with IrDA
receiver ⁽¹⁾



Wired controller
port



Central
controller output



Auto restart
memory



Louvre setting
memory



Synchronous
operation



Dry Contact
output



Alarm output



Timer



Self-diagnostics



SMART WI-FI ⁽²⁾



Compatibility
with BMS ⁽³⁾

1. Wired controller available as an option only. 2. Requires optional Wi-Fi. 3. Requires optional BMS gateway.

Technical specification (5,6-10,0 kW)

Model			RVF-56V4ICS	RVF-71V4ICS	RVF-80V4ICS	RVF-90V4ICS	RVF-100V4ICS
EAN product code			5905567607882	5905567607899	5905567607905	5905567607912	5905567607929
Power supply		V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f
Capacity (Nom.)	Cooling	kW	5,6	7,1	8	9	10
		Btu/h	19108	24226	30027	30709	34121
	Heating	kW	6,3	8	8,8	10	11
		Btu/h	21496	27297	30027	34121	37534
Rated input (Nom.)		W	23	63	63	66	66
Operating current (Nom.)		A	0,1	0,3	0,3	0,3	0,3
Fan motor		Type	DC	DC	DC	DC	DC
Air flow	H / M / L	m³/h	910 / 810 / 710	1310 / 1140 / 825	1310 / 1140 / 825	1500 / 1200 / 1000	1500 / 1200 / 1000
Sound pressure level		dB(A)	31~38	34~39	34~39	35~41	35~41
Net dimensions	W × H × D	mm	833 × 232 × 900	833 × 232 × 900	833 × 232 × 900	833 × 286 × 900	833 × 286 × 900
Gross dimensions	W × H × D	mm	920 × 265 × 985	920 × 265 × 985	920 × 265 × 985	920 × 310 × 985	920 × 310 × 985
Panel dimensions (W × H × D)	Nett	mm	950 × 50 × 950	950 × 50 × 950	950 × 50 × 950	950 × 50 × 950	950 × 50 × 950
	Gross	mm	1030 × 105 × 1030	1030 × 105 × 1030	1030 × 105 × 1030	1030 × 105 × 1030	1030 × 105 × 1030
Weight	Netto	kg	22,0	22,0	22,0	27,0	27,0
	Gross	kg	28,0	28,0	28,0	33,5	33,5
Pipe connections	Liquid / Gas	mm (inch)	Φ6,35 / Φ12,7 (1/4" / 1/2")	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")
	Condensate	mm	Φ25	Φ25	Φ25	Φ25	Φ25
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)				
	Power supply	pcs × mm²	According to the electrical system design				

Technical specification (11,2-16,0 kW)

Model			RVF-112V4ICS	RVF-125V4ICS	RVF-140V4ICS	RVF-160V4ICS
EAN product code			5905567607936	5905567607943	5905567607950	5905567607967
Power supply		V-Hz, Ø	220-240-50, 1f	220-240-50, 1f	220-240-50, 1f	220-240-50, 1f
Capacity (Nom.)	Cooling	kW	11,2	12,5	14	16
		Btu/h	38216	42652	47770	54594
	Heating	kW	12,5	14	15	17
		Btu/h	42652	47770	51182	58006
Rated input (Nom.)		W	66	100	100	100
Operating current (Nom.)		A	0,3	0,4	0,4	0,4
Fan motor		Type	DC	DC	DC	DC
Air flow	H / M / L	m³/h	1500 / 1200 / 1000	1700 / 1400 / 1200	1700 / 1200 / 1400	1700 / 1400 / 1200
Sound pressure level		dB(A)	35~41	40~47	40~47	40~47
Net dimensions	W × H × D	mm	833 × 286 × 900	833 × 286 × 900	833 × 286 × 900	833 × 286 × 900
Gross dimensions	W × H × D	mm	920 × 310 × 985	920 × 310 × 985	920 × 310 × 985	920 × 310 × 985
Panel nett dimensions	W × H × D	mm	950 × 50 × 950	950 × 50 × 950	950 × 50 × 950	950 × 50 × 950
Panel gross dimensions	W × H × D	mm	1030 × 105 × 1030	1030 × 105 × 1030	1030 × 105 × 1030	1030 × 105 × 1030
Nett weight		kg	27,0	27,0	27,0	27
Gross weight		kg	33,5	33,5	33,5	33,5
Pipe connections	Liquid / Gas	mm (inch)	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")
	Condensate	mm	Φ25	Φ25	Φ25	Φ25
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)			
	Power supply	pcs × mm²	According to the electrical system design			



130

Floor-ceiling unit **JATO FC**

The Jato floor/ceiling air conditioner is an incredibly adaptable unit that can be mounted both horizontally and vertically.

With its long range and wide air supply angle (eMoto), Jato ensures rapid distribution of cooled or heated air to even the furthest corners of a room.

It's ideal for air conditioning spacious areas such as conference venues, banquet halls, waiting areas, customer service zones, and shops. Jato air conditioners come with an integrated EXV valve.



JATO FC RVF



Long airflow
range



Automatic 4D
louvers



Timer



Dry Contact
output



Built-in
EXV valve



Autorestart
memory

131





132

Long airflow range

Jato unit offers long airflow range, making it suitable for cooling large rooms such as conference halls, banquet halls, waiting rooms, and customer service areas.



Timer

Additional functions such as on/off timer enhance the convenience of this air conditioner.



Dry Contact output

It allows the air conditioner to be switched on/off using an external signal. Applications include hotel switches, window sensors, condensate pump alarm control, and unit thermostatic activation.



Automatic 4D louvres

You can automatically control the operation of horizontal and vertical louvres, as well as their automatic oscillation, using a remote control or wired controller.



Built-in EXV valve

Notifications of refrigerant leaks are shown as messages on the indoor unit or a wall-mounted controller. This feature aids in safeguarding the compressor from potential damage and excessive temperatures.



Autorestart memory

In the event of a temporary power failure, this function remembers the previous settings of the air conditioning unit. When power is restored, the air conditioner resumes operation in the previous mode.

Jato FC

3,6-16,0 kW

RVF

HR
RVF

V-STAGE
RVF

MINI
RVF



Features device

134



Refrigerant
R410A



Universal
indoor RVF



Built-in
EXV valve



Automatic 4D
louvers



SMART Follow
mode



Electrostatic
HD iAIR filter



Air supply eMOTO
control system



Eco eMOTO
mode



Sleep mode



Wide-angle eMOTO
air supply



SMART LED
temperature
display



Automatic
addressing



Manual
addressing



Wireless remote
control



Controller with IrDA
receiver ⁽¹⁾



Wired controller
port



Central
controller output



Auto restart
memory



Louvre setting
memory



Synchronous
operation



Dry Contact
output



Alarm
output



Timer



Double-sided
condensate
drainage



Self-diagnostics



SMART Wi-Fi ⁽²⁾



Compatibility
with BMS ⁽³⁾

1. Wired controller available as an option only. 2. Requires optional Wi-Fi. 3. Requires optional BMS gateway.

Technical specification (3,6-8,0 kW)

Model			RVF-36V4IFC	RVF-45V4IFC	RVF-56V4IFC	RVF-71V4IFC	RVF-80V4IFC
EAN product code			5905567607752	5905567614200	5905567614217	5905567607783	5905567614224
Power supply		V-Hz, Ø	220-240-50, 1f	220-240-50, 1f	220-240-50, 1f	220-240-50, 1f	220-240-50, 1f
Capacity (Nom.)	Cooling	kW	3,6	4,5	5,6	7,1	8,0
		BTU/h	12284	15355	19108	24226	30027
	Heating	kW	4,0	5,0	6,3	8,0	8,8
		BTU/h	13649	17061	21496	27297	30027
Rated input (Nom.)		W	40	40	50	60	60
Operating current (Nom.)		A	0,2	0,2	0,2	0,3	0,3
Fan motor		Type	DC	DC	DC	DC	DC
Air flow		m³/h	550	550	700	1000	1000
Sound pressure level		dB(A)	33~38	33~38	35~43	42~46	42~46
Net dimensions	W × H × D	mm	1050 × 675 × 235	1050 × 675 × 235	1050 × 675 × 235	1300 × 675 × 235	1300 × 675 × 235
Gross dimensions	W × H × D	mm	1130 × 765 × 330	1130 × 765 × 330	1130 × 765 × 330	1380 × 765 × 325	1380 × 765 × 325
Netto weight		kg	26,5	26,5	26,5	32,0	32,0
Gross weight		kg	31,0	31,0	31,0	37,0	37,0
Pipe connections	Liquid / Gas	mm (inch)	Φ6,35 / Φ12,7 (1/4" / 1/2")	Φ6,35 / Φ12,7 (1/4" / 1/2")	Φ6,35 / Φ12,7 (1/4" / 1/2")	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")
	Condensate	mm	Φ25	Φ25	Φ25	Φ25	Φ25
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)				
	Power supply	pcs × mm²	According to the electrical system design				

Technical specification (9,0-16,0 kW)

Model			RVF-90V4IFC	RVF-112V4IFC	RVF-140V4IFC	RVF-160V4IFC
EAN product code			5905567614231	5905567607813	5905567607820	5905567607837
Power supply		V-Hz, Ø	220-240-50, 1f	220-240-50, 1f	220-240-50, 1f	220-240-50, 1f
Capacity (Nom.)	Cooling	kW	9,0	11,2	14,0	16,0
		BTU/h	30709	38216	47770	54594
	Heating	kW	10,0	12,5	15,0	17,0
		BTU/h	34121	42652	51182	58006
Rated input (Nom.)		W	70	70	100	100
Operating current (Nom.)		A	0,3	0,3	0,4	0,4
Fan motor		Type	DC	DC	DC	DC
Air flow		m³/h	1400	1400	1900	1900
Sound pressure level		dB(A)	42~47	42~47	45~54	45~54
Net dimensions	W × H × D	mm	1670 × 675 × 235	1670 × 675 × 235	1670 × 675 × 235	1670 × 675 × 235
Gross dimensions	W × H × D	mm	1750 × 765 × 325	1750 × 765 × 325	1750 × 765 × 325	1750 × 765 × 325
Net weight		kg	41,0	41,0	43,5	43,5
Gross weight		kg	47,0	47,0	49,5	49,5
Pipe connections	Liquid / Gas	mm (inch)	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")
	Condensate	mm	Φ25	Φ25	Φ25	Φ25
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)			
	Power supply	pcs × mm²	According to the electrical system design			



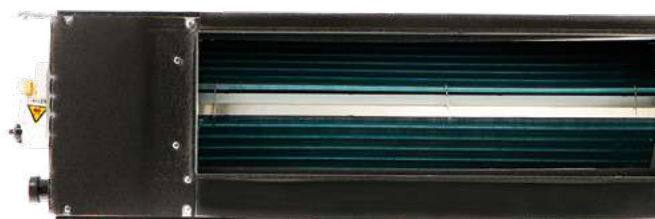
Low static pressure ducted unit **NEVO DL**

This ducted air conditioner is ideally suited for hotels and offices.

Nevo DL can be discreetly integrated using various accessories, such as anemostats, supply grilles, and extract grilles.

The unit's ability to accommodate multiple air vents ensures even air distribution over significant distances from the main unit.

The air conditioner comes with an EXV valve and a condensate pump.





NEVO DL RVF



Alarm
output



Integrated
condensate pump



Comes with
a wired
controller



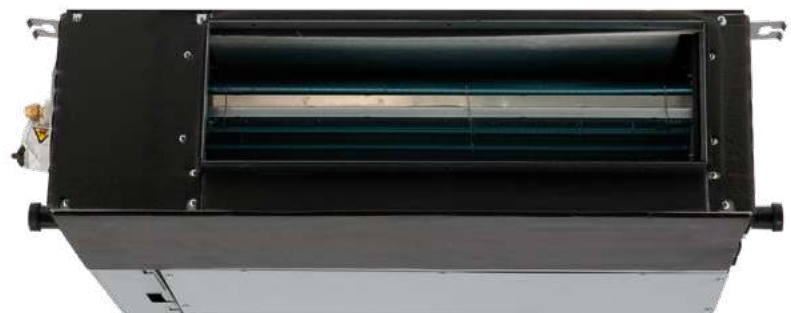
Built-in EXV
valve

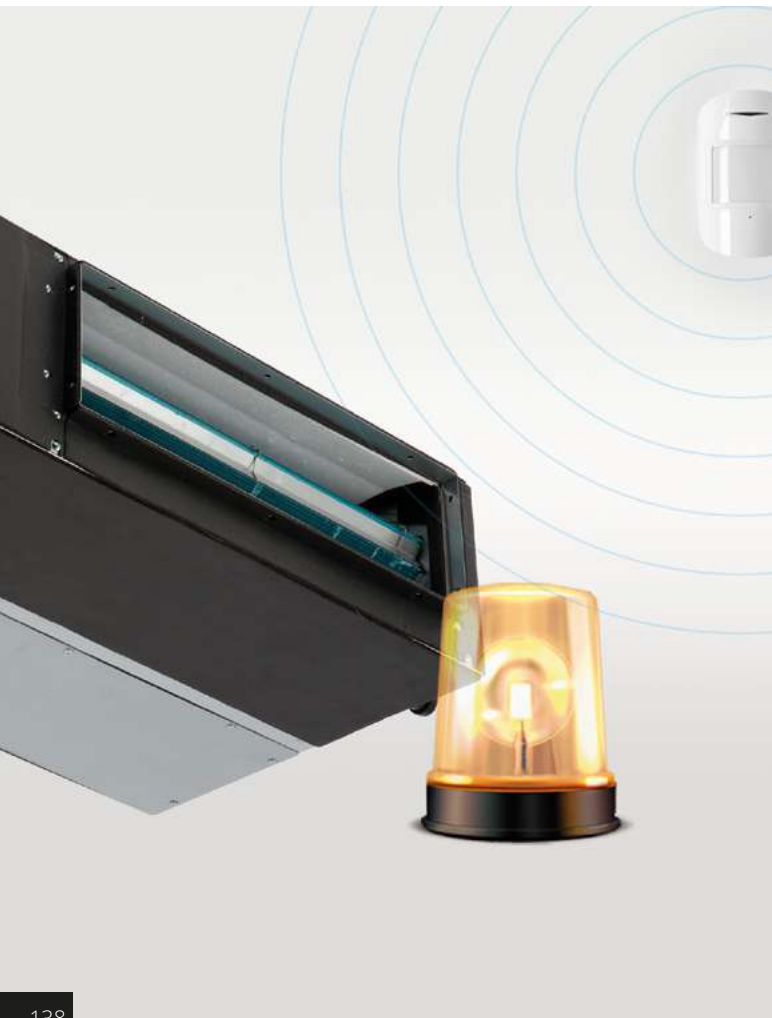


Dry Contact
output



Autorestart
memory





Alarm output

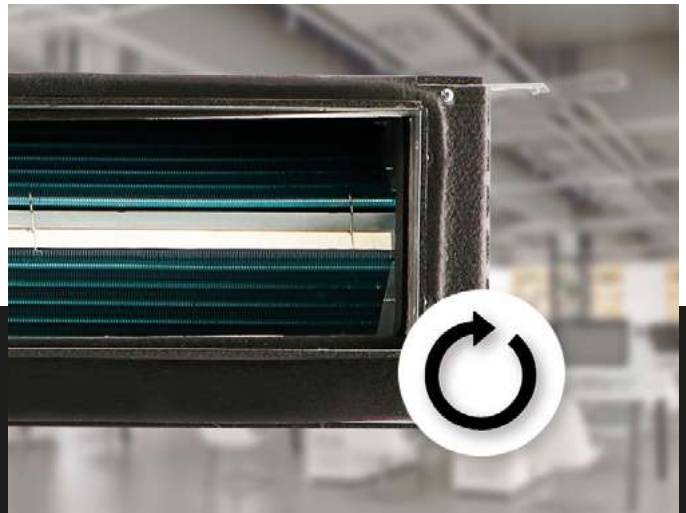
The integrated alarm output in the port on the indoor unit PCB enables remote user alerts for unit failures, using either an acoustic or visual signal.

138



Dry Contact output

It allows the air conditioner to be switched on/off using an external signal. Applications include hotel switches, window sensors, condensate pump alarm control, and unit thermostatic activation.



Autorestart memory

In the event of a temporary power failure, this function remembers the previous settings of the air conditioning unit. When power is restored, the air conditioner resumes operation in the previous mode.



Comes with **wired controller**

The system allows individual control of the indoor unit. The RVF-WC3-WIFI wired wall controller also enables air conditioner function management via the TUYA mobile app.



Integrated condensate pump

The device comes with a factory-installed condensate pump, capable of removing condensate up to 750 mm above the indoor unit's drip tray.



Built-in EXV valve

Notifications of refrigerant leaks are shown as messages on the indoor unit or a wall-mounted controller. This feature aids in safeguarding the compressor from potential damage and excessive temperatures.

Nevo DL

2,2-7,1 kW

RVF

HR
RVF

V-STAGE
RVF

MINI
RVF



Features device

140



Refrigerant
R410A



Universal
indoor unit RVF



Built-in
EXV valve



DC SKY[®]
motors



Integrated
condensate pump



SMART Follow
mode ⁽¹⁾



Electrostatic
HD iAIR filter



Automatic
addressing



Manual
addressing



Wireless remote
controller ⁽²⁾



Controller with
IrDA receiver



Wired controller
port



Central
controller output



Auto restart
memory



Synchronous
operation



Dry Contact
output



Alarm
output



Timer



Self-diagnostics



SMART Wi-Fi



Compatibility
with BMS ⁽³⁾

1. Wired controller available as an option only.

2. Requires optional Wi-Fi.

3. Requires optional BMS gateway.

Technical specification (2,2-3,6 kW)

Model			RVF-22V4IDL	RVF-28V4IDL	RVF-36V4IDL
EAN product code			5905567607998	5905567614194	5905567608018
Power supply		V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f
Capacity (Nom.)	Cooling	kW	2,2	2,8	3,6
		Btu/h	7507	9554	12284
	Heating	kW	2,5	3,2	4,0
		Btu/h	8530	10919	13649
Rated input (Nom.)		W	20	20	30
Operating current (Nom.)		A	0,2	0,2	0,3
Fan motor		Type	DC	DC	DC
Air flow		m³/h	450	450	500
Sound pressure level		dB(A)	24~29	24~29	25~32
ESP - External static pressure		Pa	30	30	30
Net dimensions	W × H × D	mm	814 × 210 × 467	814 × 210 × 467	814 × 210 × 467
Gross dimensions	W × H × D	mm	910 × 240 × 510	910 × 240 × 510	910 × 240 × 510
Nett weight		kg	16,0	16,0	16,5
Gross weight		kg	18,5	18,5	19,0
Pipe connections	Liquid / Gas	mm (inch)	Φ6,35 / Φ9,52 (1/4" / 3/8")	Φ6,35 / Φ9,52 (1/4" / 3/8")	Φ6,35 / Φ12,7 (1/4" / 1/2")
	Condensate	mm	Φ25	Φ25	Φ25
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design		

Technical specification (4,5-7,1 kW)

Model			RVF-45V4IDL	RVF-56V4IDL	RVF-71V4IDL
EAN product code			5905567614187	5905567608032	5905567614163
Power supply		V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f
Capacity (Nom.)	Cooling	kW	4,5	5,6	7,1
		Btu/h	15355	19108	24226
	Heating	kW	5,0	6,3	8,0
		Btu/h	17061	21496	27297
Rated input (Nom.)		W	35	45	55
Operating current (Nom.)		A	0,2	0,2	0,2
Fan motor		Type	DC	DC	DC
Air flow		m³/h	620	800	1000
Sound pressure level		dB(A)	32~37	28~38	30~39
ESP - External static pressure		Pa	30	30	30
Net dimensions	W × H × D	mm	814 × 210 × 467	1010 × 210 × 467	1214 × 210 × 467
Gross dimensions	W × H × D	mm	910 × 240 × 510	1110 × 240 × 510	1310 × 240 × 510
Nett weight		kg	16,5	20,0	25,0
Gross weight		kg	19,0	23,0	28,0
Pipe connections	Liquid / Gas	mm (inch)	Φ6,35 / Φ12,7 (1/4" / 1/2")	Φ6,35 / Φ12,7 (1/4" / 1/2")	Φ9,52 / Φ15,9 (3/8" / 5/8")
	Condensate	mm	Φ25	Φ25	Φ25
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design		



142

Medium static pressure ducted unit **NEVO DM**

Nevo DM medium static pressure air conditioner is ideal for premises that need higher capacity, such as open spaces, halls, or gyms.

One of the benefits of the Nevo DM ducted air conditioner is its ability to blend seamlessly into architectural features and serve multiple rooms with just one unit.

An external static pressure of 70 Pa ensures air is delivered over extended distances from the unit to ensure even distribution and optimal thermal comfort throughout the space.

The air conditioner comes with an integrated EXV valve.





NEVO DM RVF



Alarm
output



ESP of up
to 70 Pa



Comes with
a wired controller



Built-in
EXV valve



Dry Contact
output



Autorestart
memory

143

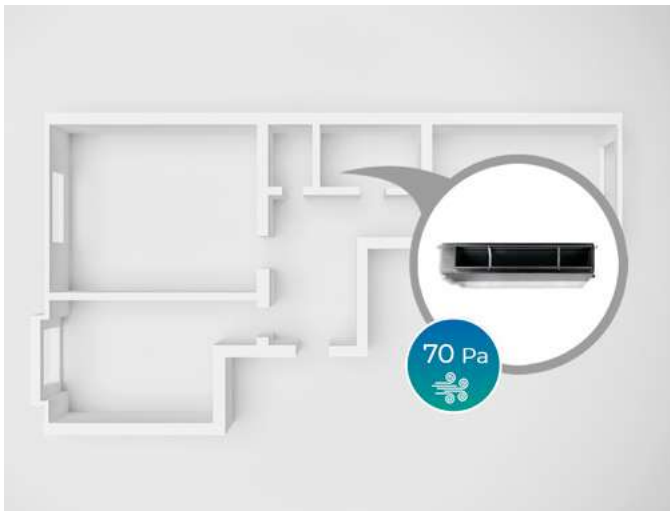




Alarm output

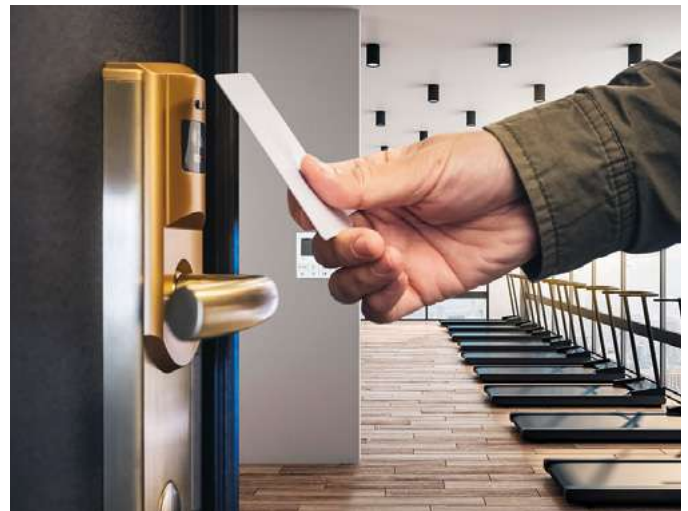
The integrated alarm output in the port on the indoor unit PCB enables remote user alerts for unit failures, using either an acoustic or visual signal.

144



ESP of up to 70 Pa

An external static pressure of 70 Pa enhances airflow performance in spacious areas like restaurants, offices, or open spaces. Ventilation ducts, complemented with diffusers or ventilation nozzles, can be attached to the units to efficiently deliver conditioned air to the desired spots.



Dry Contact output

It allows the air conditioner to be switched on/off using an external signal. Applications include hotel switches, window sensors, condensate pump alarm control, and unit thermostatic activation.



Comes with **wired controller**

The system allows individual control of the indoor unit. The RWF-WC3-WIFI wired wall controller also enables air conditioner function management via the TUYA mobile app.

145



Built-in EXV valve

Notifications of refrigerant leaks are shown as messages on the indoor unit or a wall-mounted controller. This feature aids in safeguarding the compressor from potential damage and excessive temperatures.



Autorestart memory

In the event of a temporary power failure, this function remembers the previous settings of the air conditioning unit. When power is restored, the air conditioner resumes operation in the previous mode.

Nevo DM

7,1-15,0 kW

RVF

HR
RVF

V-STAGE
RVF

MINI
RVF



Features device

146



Refrigerant
R410A



Universal
indoor unit RVF



Built-in
EXV valve



DC SKY[®]
motors



SMART Follow
mode⁽¹⁾



Electrostatic
HD iAIR filter



Automatic
addressing



Manual
addressing



Wireless remote
control⁽²⁾



Controller with
IrDA receiver



Wired controller
port



Central
controller output



Auto restart
memory



Synchronous
operation



Dry Contact
integrated output



Alarm
output



Timer



Self-diagnostics



SMART Wi-Fi



Compatibility
with BMS⁽³⁾

1. Wired controller available as an option only.

2. Requires optional Wi-Fi.

3. Requires optional BMS gateway.

Technical specification (7,1-9,0 kW)

Model			RVF-71V4IDM	RVF-80V4IDM	RVF-90V4IDM
EAN product code			5905567614170	5905567614156	5905567608070
Power supply		V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f
Capacity (Nom.)	Cooling	kW	7,1	8,0	9,0
		Btu/h	24226	30027	30709
	Heating	kW	8,0	9,0	10,0
		Btu/h	27297	30027	34121
Rated input (Nom.)		W	110	110	200
Operating current (Nom.)		A	0,5	0,5	0,9
Fan motor		Type	DC	DC	DC
Air flow		m³/h	1220	1220	2000
Sound pressure level		dB(A)	36~41	36~41	40~44
ESP - External static pressure		Pa	70	70	70
Net dimensions	W × H × D	mm	1209 × 260 × 680	1209 × 260 × 680	1445 × 260 × 680
Gross dimensions	W × H × D	mm	1255 × 325 × 720	1255 × 325 × 720	1490 × 325 × 720
Nett weight		kg	31,0	31,0	43,0
Gross weight		kg	36,0	36,0	48,0
Pipe connections	Liquid / Gas	mm (inch)	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")
	Condensate	mm	Φ25	Φ25	Φ25
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design		

Technical specification (10,0-15,0 kW)

147

Model			RVF-100V4IDM	RVF-120V4IDM	RVF-150V4IDM
EAN product code			5905567614149	5905567608094	5905567608100
Power supply		V-Hz, Ø	220-240-50, 1f	220-240-50, 1f	220-240-50, 1f
Capacity (Nom.)	Cooling	kW	10,0	12,0	15,0
		Btu/h	34121	40946	51182
	Heating	kW	11,0	13,0	17,0
		Btu/h	37534	44358	58006
Rated input (Nom.)		W	200	200	200
Operating current (Nom.)		A	0,9	0,9	0,9
Fan motor		Type	DC	DC	DC
Air flow		m³/h	2000	2000	2000
Sound pressure level		dB(A)	40-44	40-44	40-44
ESP - External static pressure		Pa	70	70	70
Net dimensions	W × H × D	mm	1445 × 260 × 680	1445 × 260 × 680	1445 × 260 × 680
Gross dimensions	W × H × D	mm	1490 × 325 × 720	1490 × 325 × 720	1490 × 325 × 720
Nett weight		kg	43,0	43,0	43,0
Gross weight		kg	48,0	48,0	48,0
Pipe connections	Liquid / Gas	mm (inch)	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")
	Condensate	mm	Φ25	Φ25	Φ25
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design		



148

High static pressure ducted unit **NEVO DH**

Nevo DH is a ducted air conditioner designed for efficiently cooling or heating vast industrial spaces like warehouse or production halls.

With an external static pressure of up to 200 Pa, it can distribute vast air volumes – up to 8000 m³/h – across significant distances from the unit. In production halls, maintaining a consistent optimal temperature safeguards processing lines from malfunctions, ensuring uninterrupted and efficient manufacturing operations.

The air conditioner comes with an EXV valve and an electrostatic filter.





NEVO DH RVF



Alarm
output



ESP of up
to 200 Pa



Comes with
a wired controller



Built-in
EXV valve



Dry Contact
output



Autorestart
memory





Alarm output

The integrated alarm output in the port on the indoor unit PCB enables remote user alerts for unit failures, using either an acoustic or visual signal

150



Integrated Dry Contact

It allows the air conditioner to be switched on/off using an external signal. Applications include hotel switches, window sensors, condensate pump alarm control, and unit thermostatic activation.



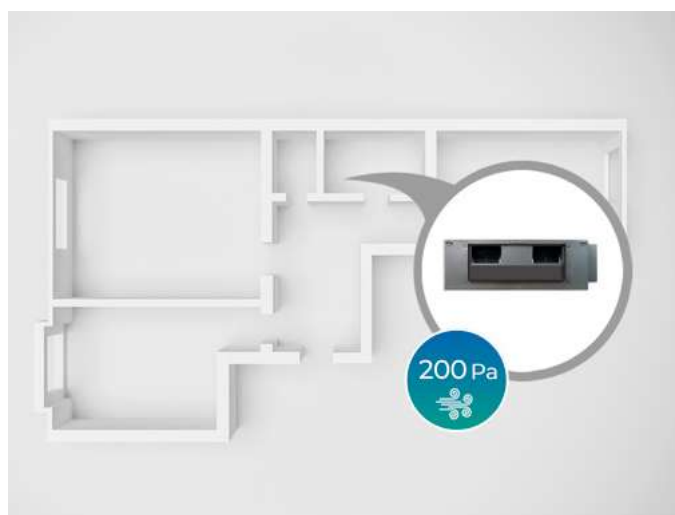
Auto restart memory

In the event of a temporary power failure, this function remembers the previous settings of the air conditioning unit. When power is restored, the air conditioner resumes operation in the previous mode.



Comes with a **wired controller**

The system allows individual control of the indoor unit. The RVF-WC3-WIFI wired wall controller also enables air conditioner function management via the TUYA mobile app.



ESP of up to 200 Pa

Units with a capacity of 56 kW and a static pressure of up to 200 Pa enhance air quality in tall, expansive spaces. Ventilation ducts, complemented with diffusers or ventilation nozzles, can be attached to the units to efficiently deliver conditioned air to the desired spots.



Built-in EXV valve

Notifications of refrigerant leaks are shown as messages on the indoor unit or a wall-mounted controller. This feature aids in safeguarding the compressor from potential damage and excessive temperatures.

Nevo DH

15,0-56,0 kW

RVF

HR
RVF

V-STAGE
RVF

MINI
RVF



Features device

152



Refrigerant
R410A



Versatile RVF
indoor unit



Built-in
EXV valve



DC SKY[®]
motors ⁽⁴⁾



SMART Follow
mode ⁽¹⁾



Electrostatic
HD iAIR filter ⁽⁴⁾



Automatic
addressing



Manual
addressing



Wireless remote
control ⁽²⁾



Controller with
IrDA controller



Wired controller
port



Central
controller output



Auto restart
memory



Synchronous
operation



Dry Contact
output



Alarm
output



Timer



Self-diagnostics



SMART Wi-Fi



Compatibility
with BMS ⁽³⁾

Feature can be accessed only via optional remote control.

2. Wired controller available as an option only.

3. Requires optional BMS gateway.

4. Selected models.

Technical specification (15,0-25,0 kW)

Model			RVF-150V3IDH	RVF-200V4IDH	RVF-250V4IDH
EAN product code			5905567614132	5905567608179	5905567614125
Power supply		V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f
Capacity (Nom.)	Cooling	kW	15,0	20,0	25,0
		Btu/h	51182	68243	85304
	Heating	kW	17,0	22,0	27,5
		Btu/h	58006	75067	93834
Rated input (Nom.)		W	450	950	1150
Operating current (Nom.)		A	2,0	4,1	5,0
Fan motor		Type	AC	DC	DC
Air flow		m³/h	2300	3750	3750
Sound pressure level		dB(A)	44~52	45~50	46~51
ESP - External static pressure		Pa	150	150	150
Net dimensions	W × H × D	mm	1190 × 370 × 620	1440 × 448 × 811	1440 × 448 × 811
Gross dimensions	W × H × D	mm	1245 × 445 × 655	1515 × 580 × 885	1515 × 580 × 885
Net weight		kg	47,0	102,0	102,0
Gross weight		kg	51,0	113,0	113,0
Pipe connections	Liquid / Gas	mm (inch)	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ12,7 / Φ22,2 (1/2" / 7/8")	Φ12,7 / Φ22,2 (1/2" / 7/8")
	Condensate	mm	Φ25	Φ30	Φ30
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design		

Technical specification (28,0-56,0 kW)

Model			RVF-280V4IDH	RVF-450V3IDH	RVF-560V3IDH
EAN product code			5905567608193	5905567608209	5905567608216
Power supply		V-Hz, Ø	220-240~50, 1f	380-415V~50, 1f	380-415V~50, 1f
Capacity (Nom.)	Cooling	kW	28,0	45,0	56,0
		Btu/h	95540	153546	191080
	Heating	kW	30,8	50,0	63,0
		Btu/h	105094	170607	214965
Rated input (Nom.)		W	1300	1600	2450
Prąd pracy (Nom.)		A	5,3	7,0	10,7
Fan motor		Type	DC	AC	AC
Przepływ powietrza		m³/h	4100	6000	8000
Sound pressure level		dB(A)	48~52	60	64
ESP - External static pressure		Pa	150	200	200
Net dimensions	W × H × D	mm	1440 × 448 × 811	2165 × 676 × 916	2165 × 676 × 916
Gross dimensions	W × H × D	mm	1515 × 580 × 885	2267 × 840 × 1050	2267 × 840 × 1050
Waga netto		kg	102,0	222,0	222,0
Waga brutto		kg	113,0	260,0	260,0
Pipe connections	Liquid / Gas	mm (cale)	Φ12,7 / Φ22,2 (1/2" / 7/8")	Φ15,9 / Φ28,6 (5/8" / 1 1/8")	Φ15,9 / Φ28,6 (5/8" / 1 1/8")
	Skropliny	mm	Φ30	Φ32	Φ32
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)		
	Power supply	pcs × mm²	According to the electrical system design		



Condensing units

RVF AHU

This advanced solution allows you to connect each Rotenso RVF outdoor unit to any freon heaters or coolers that are typically built into air handling units.

With the RVF AHU, and using the included sensor kit, we can supply both the exchanger, which lacks sophisticated control and sensing, and the air handling unit that has its own automation with a 0-10 V signal output.

RVF AHU systems help create perfectly tailored solutions that enable the units to operate in both cooling and heating modes. At least one AHU kit is required for each air handling unit.



RVF AHU KIT



RVF AHU EXV



AHU RVF



Automatic
heating-cooling



Vast range of
unit types



0-10V
signal



Operated with
controller



Integrated
ON/OFF output



Alarm
output

AHU KIT module

The AHU KIT module comes with an output to manage defrost and alarm modes. It permits automatic switching between cooling and heating modes.

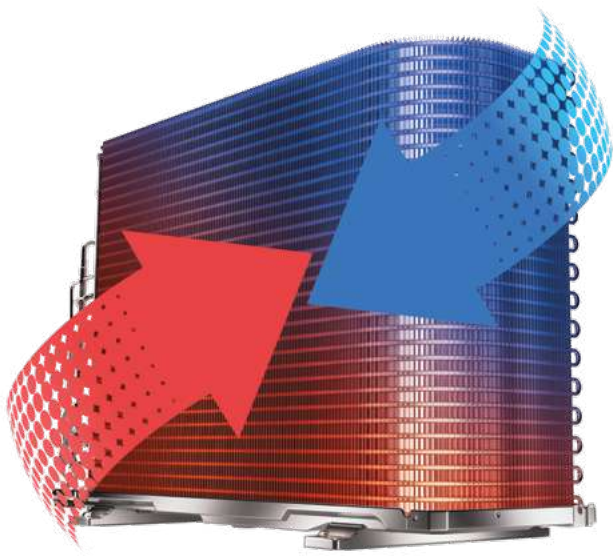
The RVF-AHU-KIT module supports up to 4 RVF-AHU-EXV modules for automatic switching between cooling and heating modes.

This solution is suitable for any facility requiring cooling or heating with a freon exchanger of capacity ranging from 2 kW to a maximum of 244 kW. The module is operated by an ON/OFF signal to activate/deactivate operation or a 0-10 V signal that adjusts capacity within the range of 0 to 100%. It's compatible with all Rotenso RVF outdoor units.

AHU EXV module

The RVF-AHU-EXV module comprises expansion valves that are compatible with RVF-AHU-KIT automation, facilitating operation in either cooling or heating mode. This solution is ideal for any air handling unit fitted with a freon cooler/heater with a capacity ranging from 2 kW to a maximum of 244 kW.

The valves are linked to the AHU KIT automation and operated by an ON/OFF signal to activate/deactivate operation or a 0-10 V signal that adjusts capacity within the range of 0 to 100%. It comes with a control output for defrost and alarm modes. It's compatible with all Rotenso RVF outdoor units.



Automatic heating-cooling

The system can automatically adjust the operation mode and parameters based on the heating or cooling requirements via the appropriate ports on the automation PCB.



Vast range of unit types

Capable of powering a freon cooler/heater with a capacity ranging from 2 kW to a maximum of 244 kW.



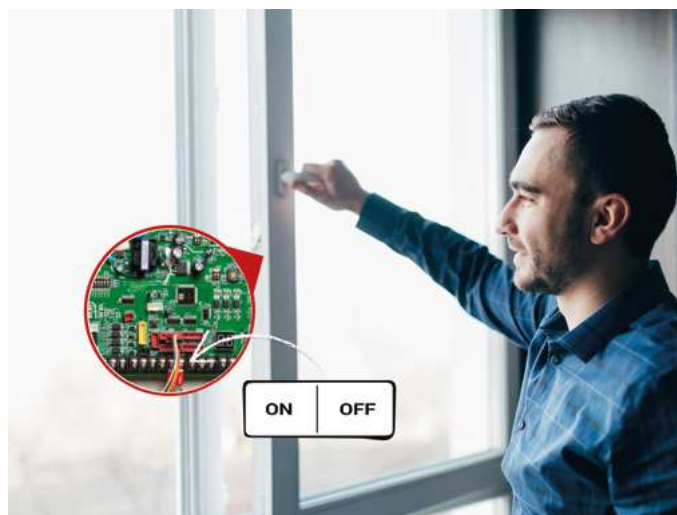
Manual control

The automation, sensors, and supplied controller enable accurate system setup and support for the air handling unit.



Signal **0-10V**

The unit can be operated using a 0-10 V signal within a capacity range from 0 to 100%.



Integrated **ON/OFF output**

The unit can be switched on/off by remote using the built-in port provided on the motherboard.



Alarm **output**

The integrated alarm output in the port on the indoor unit PCB enables remote user alerts for unit failures, using either an acoustic or visual signal.

AHU

2,0-244,0 kW

AHU



Features device

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Refrigerant
R410A



Modular
combination
available



Integrated
automation



Temperature
sensors included



Automatic
operation mode
(heating/cooling)



Compatible with
ON/OFF AHUs



Compatible with
0-10V AHUs



Manual
addressing



Unit installed within
the building



Controller with IrDA
receiver



Compatible with all
RVF indoor units



System diagnostics
from PCB



SMART Wi-Fi



Compatibility
with BMS ⁽²⁾

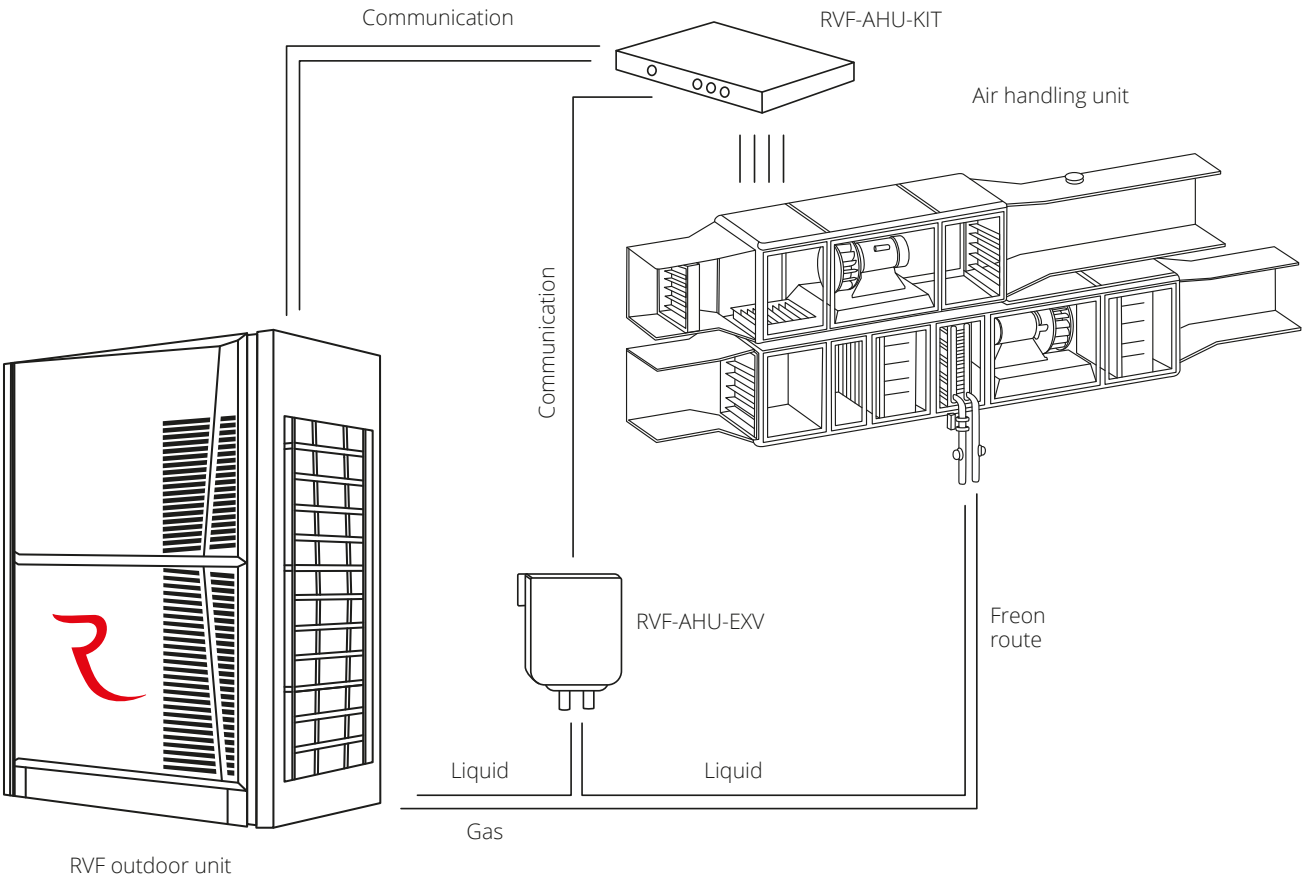
1. Optional using accessories.

Technical specification

Model			RVF-AHU-KIT	RVF-AHU-EXV-2-8	RVF-AHU-EXV-9-20	RVF-AHU-EXV-22-40	RVF-AHU-EXV-45-61
EAN product code			5905567607646	5905567607653	5905567607660	5905567607677	5905567607684
Capacity (Nom.)		kW	-	2 - 8	8 - 20	20 - 40	40 - 61,5
Pipe connections	Liquid input	mm (inch)	-	Φ9,52 (3/8")	Φ9,52 (3/8")	Φ12,7 (1/2")	Φ15,9 (5/8")
	Liquid output	mm (inch)	-	Φ9,52 (3/8")	Φ9,52 (3/8")	Φ12,7 (1/2")	Φ15,9 (5/8")
Control			0-10V	0-10V	0-10V	0-10V	0-10V
Power supply		V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f
Cables	PQE communication	pcs × mm²	3 × 0,75-1,0 (shielded)				
	Power supply	pcs × mm²	3 × 1,0				
Net dimensions	W × H × D	mm	347× 245 × 73	212 × 276 × 71	212 × 276 × 71	212 × 276 × 71	212 × 276 × 71
Gross dimensions	W × H × D	mm	385 × 280 × 175	240 × 335 × 135	240 × 335 × 135	240 × 335 × 135	240 × 335 × 135
Net weight / Gross weight		kg	1,7 / 2,1	1,8 / 2,2	1,8 / 2,2	1,8 / 2,2	3,0 / 4,6

The RVF-AHU is compatible with all RVF series outdoor units ranging from 10 kW to 244 kW. It can be used to connect the freon exchanger of any manufacturer's air handling unit and provide control over the cooling or heating mode. It is controlled by a 0-10 V signal within the performance range of 0 to 100%, or by an operation enabling signal from the controller in combination with the temperature sensors included in RVF-AHU-KIT kit. The RVF-AHU-KIT module supports up to four RVF-AHU-EXV valves and includes a control output for defrost and alarm modes, temperature sensors, controller, and complete automation. The RVF-AHU-EXV module is an expansion valve enclosed in vibration-insulated housing.

RVF-AHU-KIT is a universal automation system for up to four RVF-AHU-EXV valves.



The expansion valve can be located no further than 10 m from the air handling unit exchanger, while the total length of the freon installation between the indoor unit and the RVF-AHU-EXV valve cannot exceed 200 m. The AHU set placed outside should be mounted in an empty section of the air handling unit or an additional housing with a tightness class of IP54.

WE ARE COMFORT

RVF
system control

RVF



Wireless and wired controllers - overview

A wide range of individual controllers for managing the operation of indoor units RVF. Rotenso RVF controllers allow you to conveniently control the operation of Rotenso air conditioners. All controllers have a wide range of functions.



Feature name	Button name	RVF-RC6	RVF-WC3-WM	RVF-WC3-WT	RVF-WC3-WIFI	RVF-WC4 B/S/G
On/off	On / Off	●	●	●	●	●
Integrated temp. sensor IFEEL in remote controller	Follow me / I feel	● ⁽¹⁾		● ⁽¹⁾	● ⁽¹⁾	
Select operating modes	Mode	●	●	●	●	●
Select operating time	Timer	●	●	●	●	●
Schedule settings	Timer					
Select fan speed modes	Fan speed	●	●	●	●	●
Select airflow direction	Swing	●	●	●	●	●
Select temperature	°C	●	●	●	●	●
Turn on/off panel display	Display / LED	●				
Sleep mode	Sleep	● ⁽¹⁾				
Automatic louvre swinging	Swing	●	●	●	●	●
Eco mode	ECO	●	●	●	●	●
Remote control lock	Remote control lock					
Mode lock	Lock remote					
Controller lock	Lock remote	●	●	●	●	●
Color screen	Colour screen					
Display backlight	Screen light	●	●	●	●	●
Touch screen	Touch screen					
Touch panel	Touch panel			●	●	●
Polish menu	EN menu					
Access to the TUYA mobile application	TUYA				●	
Central control for up to 100 indoor units	100 IDUS					
Central control for up to 64 indoor units	> 100 IDUS					
Group control	Group control		● ⁽²⁾	● ⁽²⁾	● ⁽²⁾	● ⁽²⁾
Diagnostic function	Diagnostic function		●	●	●	●
Energy consumption measurement	Energy consumption					
Outside temperature reading	Outside temperature		●	●	●	●
Indoor room temperature	Inside temperature		●	●	●	●
Error codes	Error codes		●	●	●	●
Error codes history	History error codes			●	●	
History preview	History preview					
Built-in BMS protocol	Modbus					
	Bacnet					
Housing color	Body color	white	white/silver	white/silver	white/silver	black/silver/gold
Compatible models						
ENOS V5	RVF IDU	● ⁽⁴⁾	○ ⁽⁴⁾	○ ⁽⁴⁾	○ ⁽⁴⁾	○ ⁽⁴⁾
TENJI CC	RVF IDU	● ⁽⁴⁾	○ ⁽⁴⁾	○ ⁽⁴⁾	○ ⁽⁴⁾	○ ⁽⁴⁾
TENJI CS	RVF IDU	● ⁽⁴⁾	○ ⁽⁴⁾	○ ⁽⁴⁾	○ ⁽⁴⁾	○ ⁽⁴⁾
JATO FC	RVF IDU	● ⁽⁴⁾	○ ⁽⁴⁾	○ ⁽⁴⁾	○ ⁽⁴⁾	○ ⁽⁴⁾
NEVO DL	RVF IDU	○ ⁽⁴⁾	● ⁽⁴⁾	● ⁽⁴⁾	● ⁽⁴⁾	○ ⁽⁴⁾
NEVO DM	RVF IDU	○ ⁽⁴⁾	● ⁽⁴⁾	● ⁽⁴⁾	● ⁽⁴⁾	○ ⁽⁴⁾
NEVO DH	RVF IDU	○ ⁽⁴⁾	● ⁽⁴⁾	● ⁽⁴⁾	● ⁽⁴⁾	○ ⁽⁴⁾
RVF-AHU-KIT	RVF IDU	○ ⁽⁴⁾	● ⁽⁴⁾	● ⁽⁴⁾	● ⁽⁴⁾	○ ⁽⁴⁾
Outdoor units RVF	RVF ODU					
Cables						
Communication	loam. x pin	IrDA	3-pin	3-pin	3-pin & 5-pin	3-pin
Power supply	qty. x pin	-	-	-	-	-

● - standard equipment; ○ - optional equipment

1. Function only available on models that have RVF-RC6 included.

2. Feature available in combination with additional accessories.

3. Controller available for units with 5-pin port.

4. Controller available for units with 3-pin port.

Wireless controller

RVF-RC6

Modern wireless remote controller for Rotenso RVF systems indoor units, allows convenient control of operation.



Wired controllers

RVF-WC3-WM / RVF-WC3-WT / RVF-WC3-WIFI / RVF-WC4S/G/B

The controllers are characterized by compact design, small dimensions and modern styling to fit into any room. Allows individual control of the indoor unit, in addition, the RVF-WC3-WIFI controller features a built-in WIFI module, after through the TUYA mobile application. Each controller also allows optional group control of up to 4 pcs. RVF indoor units.



RVF - WC3 - WM



TOUCH CONTROL DEVICE
RVF - WC3 - WT



TOUCH CONTROL DEVICE
RVF - WC3 - WIFI

Prestigious optional RVF-WC4 controllers come in three colors and have a modern touch panel. The wired wall controllers can also operate up to 4 pcs. RVF indoor units in group operation.



TOUCH CONTROL DEVICE
RVF - WC4S / RVF - WC4G / RVF - WC4B

Central controllers - summary

This is a wide range of central management controllers for RVF air conditioning systems. A controller with a color display, the ability to manage systems remotely via an app, or the integration of RVF systems into a smart building are just a few of the many advantages and possibilities for Rotenso RVF air conditioning systems.



Feature name	Button name	RVF-SMARTBOX-X	RVF-GWC3	RVF-TSCC-X	RVF-NET	Modbus	Bacnet
On/off	On / Off	●	●	●	●	●	●
Integrated temp. sensor IFEEL in remote controller	Follow me / I feel						
Select operating modes	Mode	●	●	●	●	●	●
Select operating time	Timer						
Schedule settings	Timer	●	●	●	●	●	●
Select fan speed modes	Fan speed	●	●	●	●	●	●
Select airflow direction	Swing	●	●	●	●	●	●
Select temperature	°C	●	●	●	●	●	●
Turn on/off panel display	Display / LED						
Sleep mode	Sleep						
Automatic blind fanning	Swing	●	●	●	●	●	●
Eco mode	ECO						
Remote control lock	Remote control lock	●		●	●	●	●
Mode lock	Lock remote	●		●	●	●	●
Controller lock	Lock remote						
Color screen	Colour screen			●			
Display backlight	Screen light		●	●			
Touch screen	Touch screen			●			
Touch panel	Touch panel						
Polish menu	EN menu			●			
Access to the TUYA mobile application	TUYA	●		●			
Central control for up to 100 indoor units	100 IDUS	●	●	●			
Central control for up to 64 indoor units	> 100 IDUS				●	●	●
Group control	Group control	●	●	●	●	●	●
Diagnostic function	Diagnostic function	●		●	●	●	●
Energy consumption measurement	Energy consumption				● ⁽²⁾	● ⁽²⁾	● ⁽²⁾
Outside temperature reading	Outside temperature	● ⁽²⁾		● ⁽²⁾			
Indoor temperature reading room	Inside temperature	● ⁽²⁾		● ⁽²⁾	● ⁽²⁾	● ⁽²⁾	● ⁽²⁾
Error codes	Error codes	●		●	●	●	●
Error codes history	History error codes	●		●	●	●	●
History preview	History preview				●	●	●
Built-in BMS protocol	Modbus		● ⁽¹⁾	● ⁽¹⁾		●	
	Bacnet				●		●
Housing color	Body color	white	white-grey	white	—	—	—
Compatible models							
ENOS V5	RVF IDU						
TENJI CC	RVF IDU						
TENJI CS	RVF IDU						
JATO FC	RVF IDU						
NEVO DL	RVF IDU						
NEVO DM	RVF IDU						
NEVO DH	RVF IDU						
RVF-AHU-KIT	RVF IDU						
Outdoor units RVF	RVF ODU	●	●	●	●	●	●
Cables							
Communication	loam. x pin	2 × 0.75-1.0 (shielded)					
Power supply	qty. x pin	2 x 0,75	power supply	2 x 0,75	2 x 1,0	2 x 1,0	2 x 1,0

● - standard equipment; ○ - optional equipment

1. Function only available on selected models.

2. Feature available in combination with additional accessories.

3. Controller available for units with 5-pin port.

4. Controller available for units with 3-pin port.

Central controllers

RVF-SMARTBOX-X / RVF-GWC3 / RVF-TSCC-X



RVF-SMARTBOX-X

Is an intelligent modem that allows central management and control through the TUYA mobile application, supported by the following systems: iOS and Android.

Modern central controllers are characterized by compact construction, small dimensions and modern styling that fits to any room.



RVF-GWC3

Characterized by compact design, small dimensions and a wide range of options for managing air conditioning systems RVF, it also has an RS-485 signal output for Modbus protocols.

RVF-TSCC-X

This is a modern central controller with a touch, color display. Its clear and user-friendly menu makes it an ideal solution even for the most demanding. Equipped with a built-in Wi-Fi module, it allows you to control devices from anywhere using the TUYA mobile application. It offers, among other things, control using schedules, both individual and group. Additionally, it allows you to remotely set the lock mode of the central controller and individual controllers.



Network control RVF-NET

RVF-NET network control system includes RVF central management system gateway, slave gateways, power supply and remote network management software. It allows precise management of Rotenso RVF systems. It allows integration of the system with the BACNET protocol.

RVF-NET control systems come in several variants, at most the whole system is able to monitor the operation of 1024 indoor units. Each outdoor unit requires an additional gateway RVF-BMSMB3.

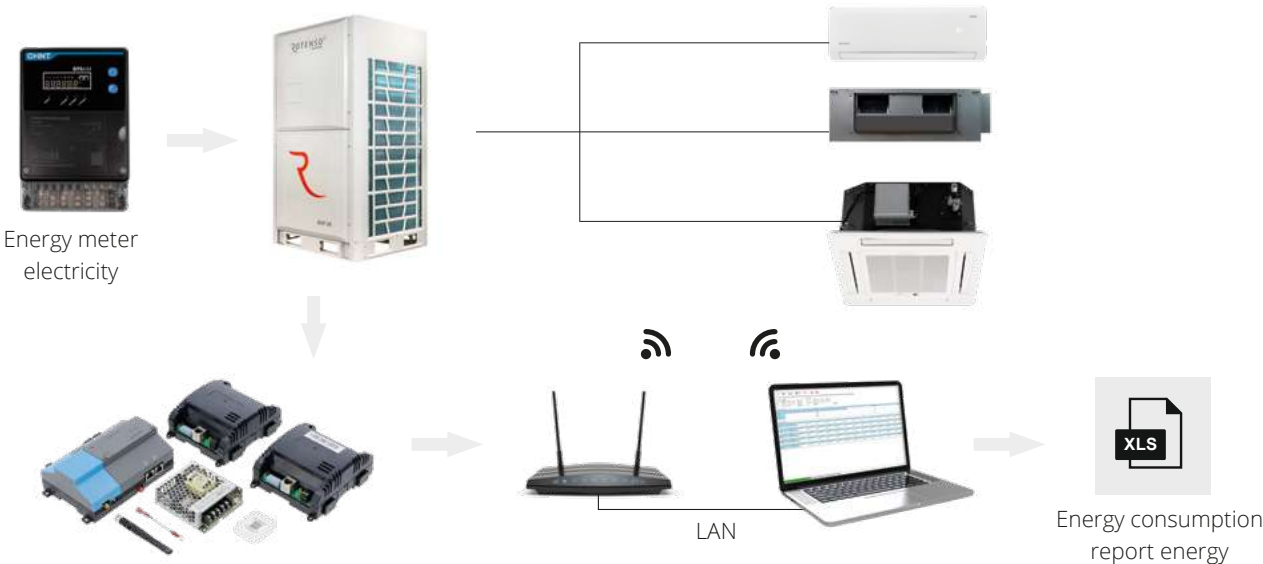
RVF-NET allows:

- counting of energy consumption,
- energy-saving system management,
- recording of performed operations,
- on/off,
- operation mode settings,
- weekly operating time settings,
- fan mode settings,
- air flow direction (swing) settings,
- temperature settings,
- individual or group control,
- management of the weekly work schedule,
- blocking of operating modes,
- blocking of individual control,
- diagnostic function.



Model	Components	Support
RVF-NET1	"S" type central gateway + 1* slave gateway + 1* power supply	up to 15 systems and up to 128 units indoor
RVF-NET2	"S" type central gate + 2* sub-gates + 1* power supply	up to 30 systems and up to 256 units indoor
RVF-NET4	Central gate type "M" + 4* slave gates + 1* power supply	up to 60 systems and up to 512 units indoor
RVF-NET8	"L" type central gate + 8* slave gates + 1* power supply	up to 60 systems and up to 1024 units indoor

Diagram of how to count energy consumption





Electricity measurements RVF-DA100A

Connecting a three-phase meter in conjunction with RVF-NET network control allows you to count the electricity consumed by the RVF system. This can be done in different options: for example, the amount of energy consumed per day or only the power used by outdoor units. This allows us to easily make an accounting of the power consumed for air conditioning by individual users (tenants of a commercial building, offices in a rented building or rooms in a hotel). The meter has an LCD display and RS485 type communication interface with the RVF outdoor unit. Each unit requires one meter.



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BMS systems BACNET, MODBUS

Building Management System (BMS) is a computerized control system by which we can manage and monitor mechanical and electrical equipment in a building, such as air conditioning, ventilation, lighting, power systems, fire protection and security systems. Rotenso RVF systems are compatible with BMS systems operating on the basis of the BMS MODBUS protocol and BMS BACNET.



MODBUS gateways RVF-BMSMB3

MODBUS gateway allows the system to communicate with MODBUS protocol. One MODBUS board is required for each system. Ultimately, it can support 4 RVF systems consisting of up to 16 outdoor units and 256 indoor units.



BACNET RVF-BACNET gateways

The BACNET gateway allows the system to communicate with the BACNET protocol. One BACNET + MODBUS board is required for each system. Ultimately, it can support 4 RVF systems composed of up to of 16 outdoor units and 128 indoor units.



Diagnostic accessories

RVF-DIAG module (USB 2.0 / RS-485 DB9M Converter DA-70157). RVF-DIAG diagnostic interface allows you to read the current operating parameters of air conditioners and their diagnostics through the Doctor Kit software. Wired connection to PC via RS-485/USB converter.



Compatibility	RVF V5	HR RVF	miniRVF V4	miniRVF V5	RVF V-STAGE
Current compressor operating frequency	●	●	●	●	●
Exchanger temperature of the indoor unit	●	●	●	●	●
Exchanger temperature of the outdoor unit	●	●	●	●	●
Air temperature of the indoor unit	●	●	●	●	●
Outside unit temperature	●	●	●	●	●
Discharge temperature	●	●	●	●	●
Return temperature of the refrigerant to the outdoor unit	●	●	●	●	●
Target operating frequency of the compressor	●	●	●	●	●
Operating current of the unit	●	●	●	●	●
Outdoor unit supply voltage (IPM module)	●	●	●	●	●
Highest value of supply voltage	●	●	●	●	●
Set temperature	●	●	●	●	●
EEV valve opening	●	●	●	●	●
Operating mode	●	●	●	●	●
Indoor unit operating mode	●	●	●	●	●
Load on the outdoor unit	●	●	●	●	●
Indoor unit error	●	●	●	●	●
Outdoor unit error	●	●	●	●	●
Error code history	●	●	●	●	●
Outdoor unit fan speed	●	●	●	●	●

● - standard equipment; ○ - optional equipment

Other accessories

Compatibility with BMS systems

The use of the appropriate module allows you to extend the functionality of RVF systems by connecting to BMS Modbus or BMS Bacnet management systems.



Compatibility	RVF V5	HR RVF	miniRVF V4	miniRVF V5	RVF V-STAGE
BMS MODBUS module (RVF-BMSMB3)	●	●	●	●	●
BMS BACNET module (RVF-BACNET)	● ⁽¹⁾	● ⁽¹⁾	● ⁽¹⁾	● ⁽¹⁾	● ⁽¹⁾

● - standard equipment; ○ - optional equipment

1. BACNET compatibility in combination with the RVF-BMSMB3 gateway

TUYA application

The interface allows you to read the current operating parameters of air conditioners remotely using the TUYA application. Access to the application allows remote startup and diagnostics of the system over long distances via the Internet using devices such as a phone or tablet via a modem RVF-SMARTBOX-X or the RVF-TSCC-X touchscreen central controller. A proper connection allows you to monitor real-time performance of indoor and outdoor units.



Compatibility	RVF V5	HR RVF	miniRVF V4	miniRVF V5	RVF V-STAGE
Current compressor operating frequency	●	●	●	●	●
Exchanger temperature of the indoor unit	●	●	●	●	●
Exchanger temperature of the outdoor unit	●	●	●	●	●
Air temperature of the indoor unit	●	●	●	●	●
Outside unit temperature	●	●	●	●	●
Discharge temperature	●	●	●	●	●
Return temperature of the refrigerant to the outdoor unit	●	●	●	●	●
Target operating frequency of the compressor	●	●	●	●	●
Operating current of the unit	●	●	●	●	●
Outdoor unit supply voltage (IPM module)	●	●	●	●	●
Highest value of supply voltage	●	●	●	●	●
Set temperature	●	●	●	●	●
EEV valve opening	●	●	●	●	●
Operating mode	●	●	●	●	●
Indoor unit operating mode	●	●	●	●	●
Load on the outdoor unit	●	●	●	●	●
Indoor unit error	●	●	●	●	●
Outdoor unit error	●	●	●	●	●
Error code history	●	●	●	●	●
Outdoor unit fan speed	●	●	●	●	●

● - standard equipment; ○ - optional equipment

Notes



Full availability of
air conditioning systems RVF Rotenso

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rotenso.com

