

Air Conditioning

VRF systems



Systemair Trust

We consider your trust in us as a supplier an important goal. It is always included in our work on all levels and in all areas whether it is a question of cooperation, quality, deliveries or documentation. This catalogue is of course a part of this work.

With this catalogue, which features products of air conditioning, we want to give you as a customer a general overview of what Systemair can offer within this field. More detailed information is available in our Online catalogue at www.systemair.com and as downloadable software. Systemair's range of fans, air distribution products and accessories also appears in our printed main catalogue.

Our product development leads the field - latest technologies in unit design, fans, motors, heat recovery, chillers, fan coils,... interact to give high efficiency and with that low power consumption. Systemair has grown each year since the start and we aim to continue with this trend.

Systemair strives to be a reliable supplier of quality products. We help our customers to focus on their own business. Reliable deliveries give the customers greater possibilities to quickly complete a job, and move on to the next project.

At Systemair we call this Trust.

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Manufacturing around the world



Skinnskatteberg, Sweden

The Group headquarters, distribution center and largest production site. Production of compact air handling units, a wide range of fans and accessories, air curtains and fan heaters.

Hässleholm, Sweden

Production of heating products for air handling units, fan heaters and dehumidifiers.

Windischbuch, Germany

Production facility and distribution center, specializing in engineered products.

Langenfeld, Germany

Production of air curtains.

Mühlheim an der Ruhr, Germany

Production of air handling units for swimming pool halls and comfort ventilation.

Ukmergė, Lithuania

Production of residential units and large air handling units.

Maribor, Slovenia

Production of high-temperature fans for smoke extract ventilation.

Aarhus, Denmark

Production of large air handling units.

Bratislava, Slovakia

Production of air distribution products and fire dampers.

Hyderabad, India

Production of air distribution products.

Greater Noida, New Delhi, India

Production of duct, axial and box fans, air handling units and air distribution products.

Kuala Lumpur, Malaysia

Production of duct and axial fans.

Johannesburg, South Africa

Production of axial fans.

Lenexa, USA

Manufacturing and distribution center of ventilation products.



Our commitment to quality

Systemair is certified in accordance with ISO 9001, ISO 14001, ATEX and European fire safety standard EN 12101-3. Our research and development laboratories are among the most modern in Europe. Our measurements are made in accordance with international standards such as AMCA and ISO.

Save energy and lower running costs!

Our "Green Ventilation" label highlights products that combine energy economy with energy efficiency, offering end users high energy-saving potential. The ErP symbol indicates that the product fulfills EU demands on energy consumption.

3
Distribution Centers

50
Countries with Sales Subsidiaries

27
Production Facilities

Always
close to you!

Milan, Italy

Production of liquid and air-cooled chillers and heat pumps for comfort cooling.

Tillières, France

Production of air conditioning products for the commercial market.

Madrid, Spain

Production of large air handling units and box fans.

Bouctouche, Canada

Production of air handling units.

Tillsonburg, Canada

Production of air handling units.

Eidsvoll, Norway

Production of air handling units.

Istanbul, Turkey

Production of air handling units and fan coils.

Waalwijk, The Netherlands

Production of air handling units.

Pardubice, Czech Rep.

Development and manufacturing of air handling units and air curtains.

Winterbach, Germany

Development and production of air curtains.

Helmstadt, Germany

Manufacturing of rotary heat exchangers.

Sao Paulo, Brasil

Manufacturing of air handling units and accessories.

Wujiang, China

Production of air handling units.

Product range

Systemair has an extensive range of ventilation products: fans including smoke extract, tunnel and car park fans, explosion proof fans, air handling units from large central units to small residential units with energy recovery, air distribution products and fire dampers. These products are installed in a variety of locations, including homes, offices, healthcare premises, shops, industrial buildings, tunnels, parking garages, training facilities, sports centres etc.



Fans

Systemair has the wider range of fans for use in different applications. Our range includes any type of fans, from circular ducts – historical product – boxed up to those of extraction, axial, and explosion-proof for the extraction of fumes.

All products listed above are made in different dimensions from 100 mm in diameter to fans of large size for tunnel. All our fans are designed to meet the strict requirements, easy to use, high quality and durability.

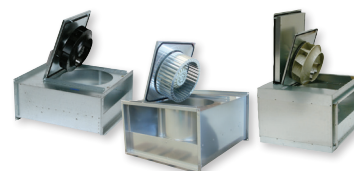
Duct fans

Duct fans for circular duct installation.



Rectangular duct fans

Duct fans with rectangular connection.



Centrifugal fans

Centrifugal supply single fans.



Square duct fans

For different applications, there are models for ambient with high temperature.



Axial fans

Axial fans for duct or wall application.



Roof fans

Roof fans with circular or square connection.



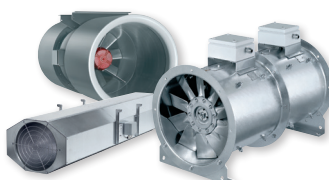
Explosion proof fans

Explosion proof fans in duct, roof or wall design.



Jet Axial Fans

Jet Axial Fans for car park, tunnels and air overpressure.



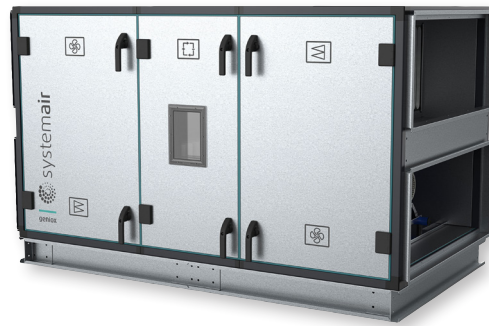
High temperature fans

Systemair provides high fire resistance fans till 600°C/2 hours.



Air handling units

Systemair produces a wide range of air handling units for several applications, from small office to large industrial building. All range is been developed to satisfy strict needs of low energy consumption.



geniox

Fire safety

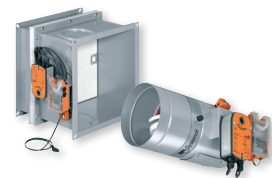
Smoke extract fans

High efficient fans to extract the combustion smoke.



Fire & smoke dampers

Dampers that reduce the spread of smoke and fire.



Residential ventilation

Complete energy-efficient air handling units with heat recovery and built in control systems. Designed to be mounted over the cooker, on walls or horizontally in attics.

Residential units

For homes with living areas of 60-320 m².



Cooker hoods

Ideal for capturing odours even at low airflows.



Air distribution products

The range also includes a wide selection of air distribution products and accessories.

Supply, extract & transfer devices

For mounting in ceilings or walls.



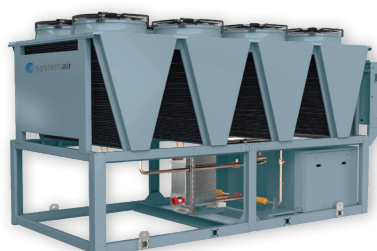
Nozzle diffusers

Optimum flexibility and comfort in air distribution for rooms.



Air Conditioning

The strength point of Systemair Air Conditioning products is a wide range with several options and accessories: chiller, water terminals, close control etc.





Applications

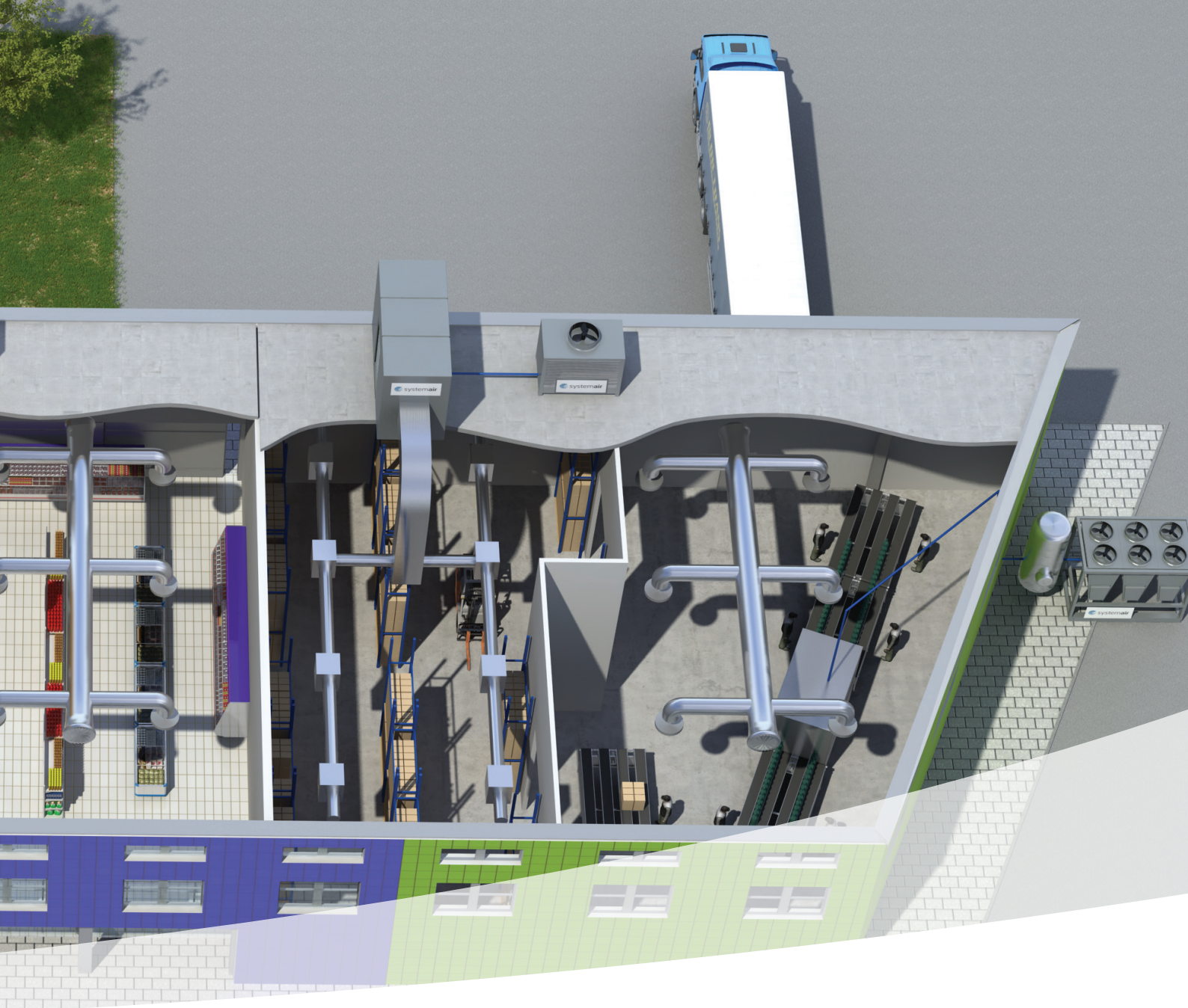
Schools

In buildings for school, the load to be disposed is variable during the day due to the presence of people only for some periods, thus it is mandatory to control the users requirements during daily plant use. Systemair offers a wide range of equipment suitable for this purpose, the fan coils with EC motors allow to obtain the required flexibility.

Offices

In buildings for tertiary application, the air conditioning and the ventilation are necessary during the day. The heat loads to be removed are generally generated by people present, from the lighting system, from solar radiation and by machines. Normally it is necessary the use of chillers, Heat Pump to produce cold and/or hot water to be sent to hydronic (fan coils, cassettes, ducted) to obtain an optimum air conditioning of offices.





Commercial buildings

Normally the number of people varies continuously; the optimal solution would be to use machinery for the conditioning with variable flow and with constant monitoring of concentration of pollutants (VOC and CO₂). Systemair AC's products can easily meet the plant's requirement.

Industry

Industrial plants generate a large amount of heat that must be dissipated in the appropriate way.

Systemair AC offers a wide range of products (chillers from 20 kW to 1.700 kW) that can be readily integrated industrial installation. The chiller can be used both for air conditioning and for the cooling equipment process (production of chilled water up to -10°C).

Hotels

In the hotel rooms, it is needed a high level of comfort with the minimum impact with respect to the noise level. Systemair ducted products equipped with EC motors fully comply with requirements efficiency, cooling capacity and sound impact , required by this type of installations.



SYSVRF



SYSVRF multi-zone solutions: light commercial and commercial VRF systems

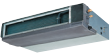
The SYSVRF modular systems are the most valuable solutions for room space from 100 to 2000 sq.m. with large independence of climatic zones - hotels, restaurants, retail, office buildings, etc. Up to 3 modular outdoor units can be combined in one single refrigerant system thus reaching up to 270 kW of cooling capacity and connecting up to 64 indoor units (2-pipe system). In the same system they are able to fulfill the increasing demands of air comfort still having low operating costs.

All SYSVRF systems are equipped with DC Inverter compressors and DC fans which gives enhanced system performance and very low operating noise. The new generation of 2-pipe systems includes new outstanding features like EVI compressors and floating refrigerant temperature which delivers superior comfort pleasure and reduces tremendously the electricity consumption. The wide selection of VRF-AHU kits allows the perfect combination with the well-known AHUs of Systemair.

SYSVRF of Systemair are available with different configurations:

Mini VRF with side-discharge air, the new Modular 2-pipe outdoor units (SYSVRF2) and the Modular heat recovery 3-pipe units for independent cooling and heating operation.

SYSVRF Mini and Heat Recovery; SYSVRF2 Heat Pump systems

SYSVRF AIR EVO HP Mini	14		SYSVRF2 DUCT	42	
SYSVRF2 AIR EVO HP	16		SYSVRF2 DUCT HP	44	
SYSVRF AIR EVO HR	26		SYSVRF2 FLOOR EB	46	
SYSVRF2 WALL	32		SYSVRF AHU	48	
SYSVRF2 CASSETTE MINI	34		SYSVRF selection software	50	
SYSVRF2 CASSETTE	36		New SYSVRF control systems	52	
SYSVRF2 CASSETTE 1 WAY	38		SYSVRF JOINT accessories	58	
SYSVRF2 CEILING	40				

VRF Systemair - SYSVRF

Multi-zone air conditioning system

VRF systems are most beneficial for space up to 1500-2000 sq.m. with large independence of climatic zones – hotels, restaurants, retail space, office buildings, etc. In the same system they are able to fulfill the increasing demands of the parameters of air in each room and still have low operating costs.



The most comfortable temperature

An important advantage of the multi-zone air-conditioning is a smooth and rapid achievement of a comfortable temperature, as well as maintaining the specified parameters accurate to $\pm 0,5$ °C. Such high performance was achieved thanks to an accurate control of the refrigerant flow and the mechanism of redistribution of refrigerant between the several units, implemented with the help of electronic expansion valves.

High energy efficiency

The efficiency of multi-zone systems is very high, because each time the electric power is consumed as much as necessary to carry out user requirements. If the indoor units work only in a few areas of the building, then the power consumption is reduced proportionally by changing the refrigerant flow.

Low noise

Low noise of both outdoor and indoor units makes the job a multi-zone system virtually inconspicuous.

A balanced lineup

The lineup of multi-zone VRF series are continuously optimized. In response to market demands Systemair offers several types and sizes of indoor units: wall-mounted, cassette, floor-ceiling and duct.

Outdoor units Mini, despite the compact dimensions, solve different tasks of air conditioning on small objects. Three modular outdoor units can be combined in one refrigerant system thus reaching a total cooling capacity of up to 270 kW.

Separately, to highlight the 3 Pipe heat recovery system for independent and simultaneous cooling and heating operation.

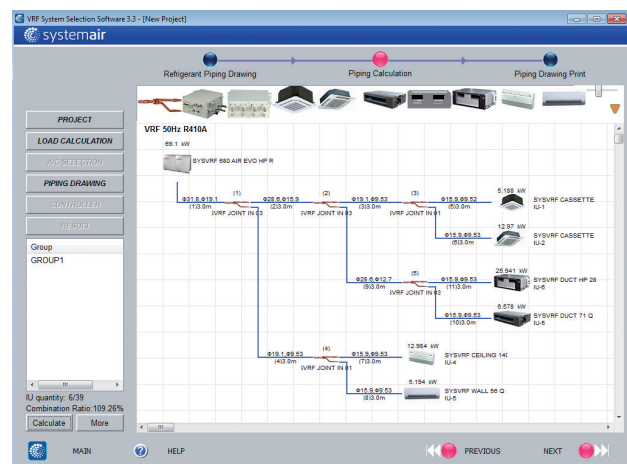
Continuous development in the field of management

In modern air-conditioning systems the demand for automation and control systems integrated with other infrastructure building systems is continuously increasing. These are exactly the principles on the basis of the development of the control systems of Systemair.

In addition to the traditional control systems of air conditioning, the user deals with different possibilities of control that can solve the various needs of the building management such as the possibility of control via personal computer and Internet network connection.

Simplicity of design

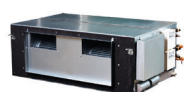
Systemair provides full integration and coordination of all elements of a multi-zone system, greatly simplifies the task of the designer. The selection process can be performed in maximum short period of time by using a simple and complete selection and designing software.



SYSVRF lineup

In 2014 Systemair launched a new generation of VRF multi-zone systems - the SYSVRF series. The basis principle of work lies on the advantages of the DC Inverter technology and scroll compressors and the achieved results far exceed the high standards set by the industry.

Through the use of modern technologies and implementation of their own development, SYSVRF has significantly improved the energy efficiency and decreased the noise level, increased ease of installation and maintenance, greatly expanding the range of application from light commercial to large commercial spaces.

SYSVRF & SYSVRF2			
 SYSVRF mini 2 Pipe Heat Pump ❄️ 8,0-22,4 kW	 SYSVRF AIR EVO HR 3 Pipe Heat Recovery ❄️ 25,0-180,0 kW	 SYSVRF2 AIR EVO HP 2 Pipe Heat Pump ❄️ 25,0-270,0 kW	◀ SYSVRF Outdoor units
SYSVRF Indoor units ▶	 SYSVRF WALL ❄️ 2,2-9,0 kW	 SYSVRF CEILING ❄️ 3,6-14,0 kW	 SYSVRF FLOOR EB ❄️ 2,2-8,0 kW
	 SYSVRF CASSETTE MINI ❄️ 2,2-4,5 kW	 SYSVRF CASSETTE ❄️ 5,6-14,0 kW	 SYSVRF CASSETTE 1 WAY ❄️ 2,2-3,6 kW
	 SYSVRF DUCT ❄️ 2,2-14,0 kW	 SYSVRF DUCT HP ❄️ 11,2-28,0 kW	 SYSVRF AHU ❄️ 7,0-56 kW

Compatible outdoor and indoor series

Outdoor units of the SYSVRF Mini, Heat Pump and Heat Recovery series are compatible with all types of SYSVRF indoor units. There are 8 different types of indoor units available with capacity from 2,2 kW to 28,0 kW, making the total number of indoor units equal to 47 different types and capacities.

The ventilation function can be provided through the combination of a Systemair Air Handling Unit with the communication kit SYSVRF-AHU.

Mini VRF Heat Pump Outdoor Unit

SYSVRF 080-224 AIR EVO HP Q/R

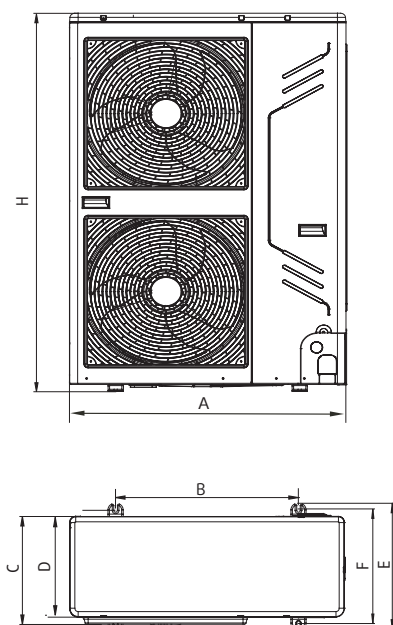


Features

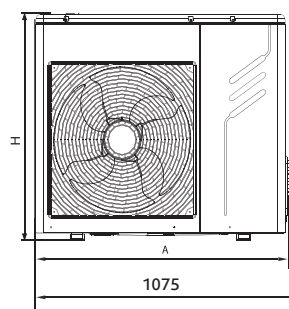
- Full DC Inverter Mini VRF with DC Inverter compressor and DC fan motor.
- Compact size and long piping system.
- High efficiency at partial load.
- Inverter Rotary compressor providing wide capacity output from 10% to 100% evenly.
- Centralized control, BMS connection and web access potential.
- Hydrophilic Blue Fin coil enhances durability and protection against corrosion.
- Piping connection in four different directions makes simple the installation of outdoor unit.
- Maximum 11 indoor units connection.
- Indoor unit combination total capacity index from 45% to 130%.
- With the branch SYSVRF BRANCH 04 MINI (Art. no. 314803) the installation is easy and safe, all connections from outdoor unit and indoor units are flanged, which greatly simplifies field installations.

Dimensions

SYSVRF 120 to 180 and 224



SYSVRF 080



Model	080	120 to 180	224
A	990	900	1.120
B	624	600	874
C	354	348	440
D	336	320	400
E	396	400	528
F	366	360	494
H	966	1.327	1.558

Technical features

Model Outdoor unit		SYSVRF	080 AIR EVO HP Q	120 AIR EVO HP Q	140 AIR EVO HP R	160 AIR EVO HP R	180 AIR EVO HP R	224 AIR EVO HP R
Art. no.			314392	314089	314092	314094	314777	314778
Power supply		V/Ph/Hz	220-240/1/50		380-415/3+N/50			
Cooling capacity		kW	7,20	12,30	14,00	15,50	17,50	22,40
Power input		kW	1,85	3,44	4,19	4,80	5,47	6,81
EER		kW/ kW	3,90	3,58	3,34	3,23	3,20	3,29
SEER/SCOP			6,45 / 4,00	5,40 / 3,85	5,30 / 3,95	5,50 / 3,80	5,50 / 4,15	5,90 / 3,80
Heating capacity		kW	7,20	13,20	15,40	17,0	19,0	24,50
Power input		kW	1,79	3,47	4,28	4,78	5,0	5,90
COP		kW/ kW	4,02	3,80	3,60	3,56	3,80	4,15
Max. current		A	18,5	24,4	11,0	12,0	12,5	17,2
Compressor	Quantity	pcs	1 DC Inverter/ Rotary					
	Start-up method		Soft start					
	Refrigerant oil	ml	670+200	870+630	870+630	1.400+250	1.400+250	1.700+1.500
Fan	Type/motor		1 Axial/ DC motor	2 Axial/ DC motor				
	Air flow	m³/h	5.500		6.000		6.800	10.500
Sound power level		dB(A)	67	72	73	73	74	76
Sound pressure level		dB(A)	56	57	57	57	59	59
Refrigerant	Type		R410A					
	Factory charge	kg	2,95	3,3	3,9	3,9	4,5	6,2
Dimension (LxWxH)		mm	1.075x396x966	900x400x1.327				1.120x528x1.558
Packing (LxWxH)		mm	1.120x435x1.100	1.030x435x1.456				1.270x565x1.720
Net/gross weight		kg	62/67	95/106	95/106	100/111	107/118	147/163
Piping dimension	Liquid pipe	mm (in)	9,5 (3/8")				9,5 (3/8")	
	Gas pipe	mm (in)	15,9 (5/8")				19,1 (3/4")	
Max quantity indoor units connection		pcs	4	6	6	7	9	11
Operating ambient temperature range		°C	Cooling -15 ... +43 / Heating -15 ... +27					

Data are provided according to Eurovent conditions and with Duct indoor units.

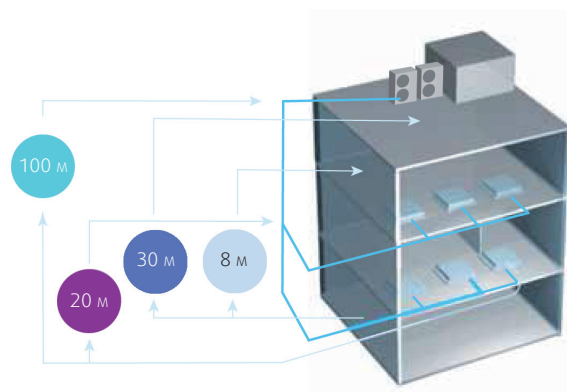
Operating conditions

	Indoor unit	Outdoor unit	Piping length	Level difference
Cooling mode	27°C DB, 19°C WB	35°C DB, 24°C WB	7,5 m	0 m
Heating mode	20°C DB, 15°C WB	7°C DB, 6°C WB	7,5 m	0 m

The sound pressure value may vary depending on ambient conditions.

Piping Length

-  Maximum piping equivalent length.
-  Maximum piping (the farthest IDU from the first indoor unit branch) equivalent length.
-  Maximum outdoor unit-indoor unit drop height.
-  Maximum indoor unit to indoor unit drop height.



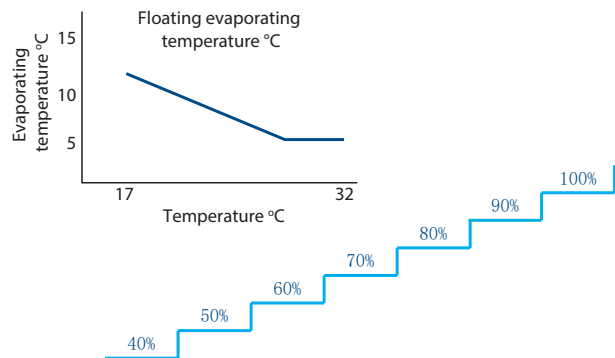
Outdoor units SYSVRF AIR EVO HP			Permitted value
Piping length	Total piping length (actual)		100 m
	Maximum piping	Actual length	60 m (45 m SYSVRF 080)
		Equivalent length	70 m (50 m SYSVRF 080)
	Piping (the farthest IDU from the first indoor unit branch) equivalent length		20 m
Drop height	Outdoor unit-indoor unit drop height	Outdoor unit up	30 m
		Outdoor unit down	20 m
	Indoor unit to indoor unit drop height		8 m

New SYSVRF2: a milestone in the VRF industry

Benefits for the Designers

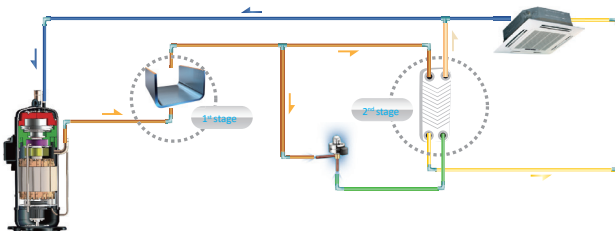
EMS (Energy Management System)

- **Floating refrigerant temperature for balancing comfort and efficiency**
The evaporating temperature (in cooling) and condensing temperature (in heating) are automatically adjusted according to both indoor and outdoor temperature to maximize the comfort and energy efficiency.
- **Capacity output limitation for shortage of electricity**
With the integration of EMS, for projects with limited electricity supply, SYSVRF2 can be set to output 40-100% capacity.



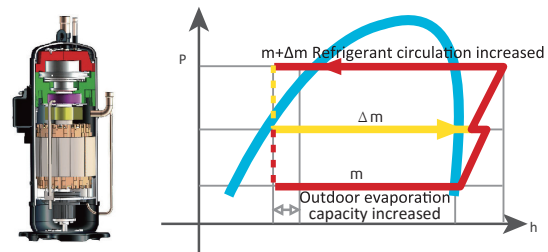
PHE (Plate Heat Exchanger) Subcooling

Plate Heat Exchanger as a secondary intercooler boosts up refrigerant subcooling and improves 10% energy efficiency (not for SYSVRF2 560 and 670).

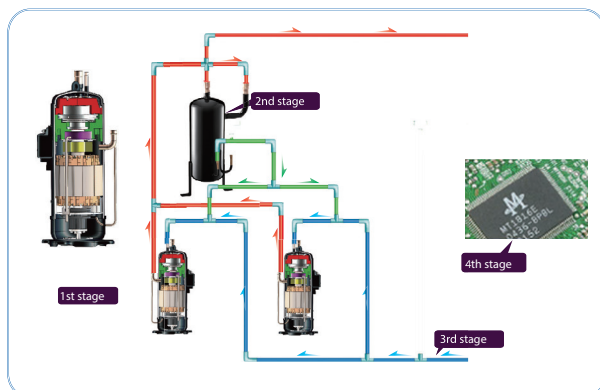


EVI (Enhanced Vapor Injection) Compressor

Thanks to the vapor injection DC inverter compressor, the SYSVRF2 can run heating mode stably down to -25°C , and the heating capacity can be improved greatly (not for SYSVRF2 560 and 670).



Precise Oil Control Technology



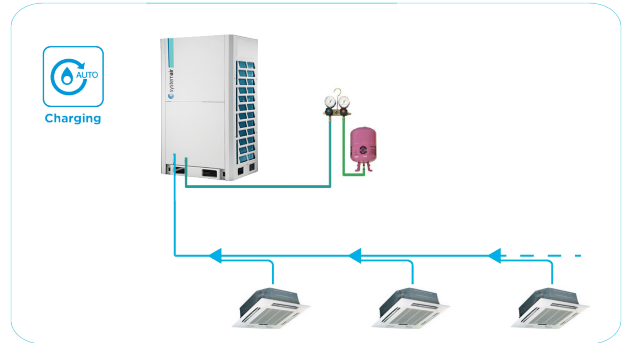
Four stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.

1. Compressor internal oil separation.
2. High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.
3. Oil balance pipes between compressors ensure even oil distribution to keep compressors running normally.
4. Auto oil return program monitors the running time and system status to ensure reliable oil return.

Benefits for the Installers

Automatic Refrigerant Charge

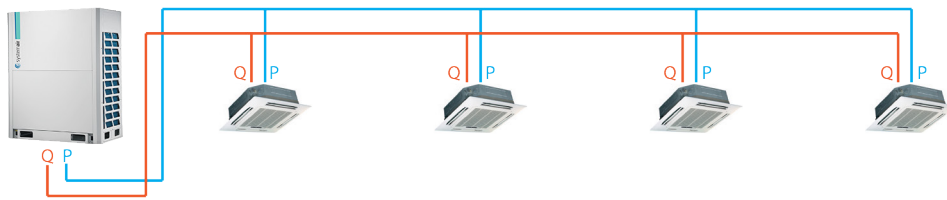
Automatic refrigerant charge makes the installation and service more easy and quick.



Non-polarity Communication Wiring*

Communication line made of 2-core shielded wire, PQ without polarity achieves communication among indoor and outdoor units.

*If there's strong electromagnetic interference surrounded, please use 3-core shielded cable instead.



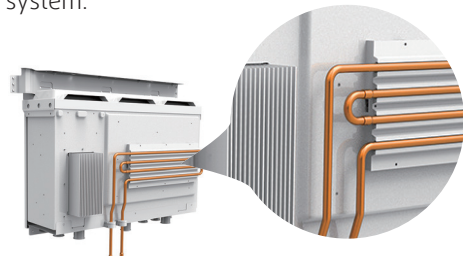
Multifunctional PCB

A multifunctional small PCB is installed on the unit's side column, it greatly helps the installers and service engineers to activate Auto-commissioning or to check the operation status without removing the front panel. It can also perform automatic data backup of last 30 minute's operation record.



Refrigerant Cooling PCB

The SYSVR2 uses refrigerant cooling technology to cool the electric control box. It decreases the average temperature of electrical control components by about 8 degrees, guaranteeing the stable and safe running of the control system.

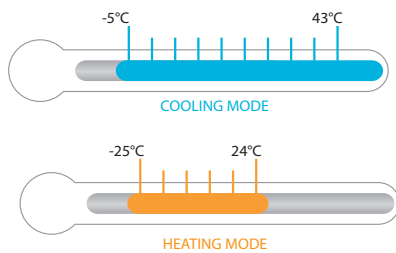


Auto Addressing

Outdoor unit can distribute addresses to indoor units automatically. Remote and wired controllers can be used to query or modify each indoor unit's address.

Benefits for the End-users

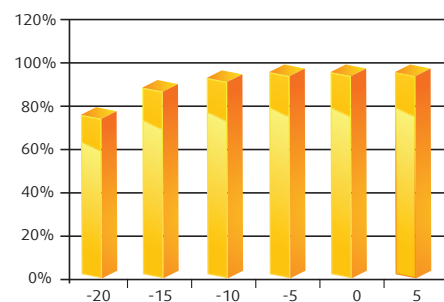
Wide Operating Range



SYSVRF2 can operate in a wide ambient temperature range. It can operate stably from -5°C up to 43°C in cooling mode and from -25°C to 24°C in heating mode.

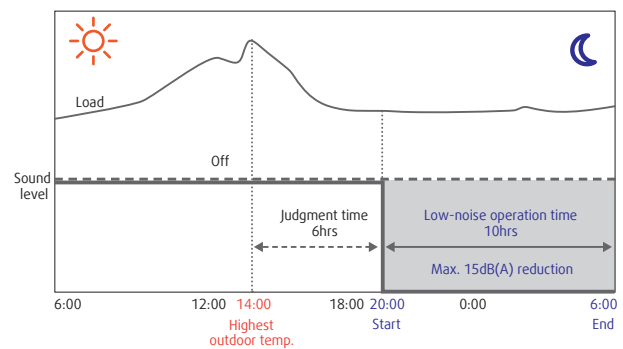
Enhanced Heating Capacity

Heating capacity can achieve 100% output when the ambient temperature is down to -5°C and 90% output when ambient temperature is down to -15°C.

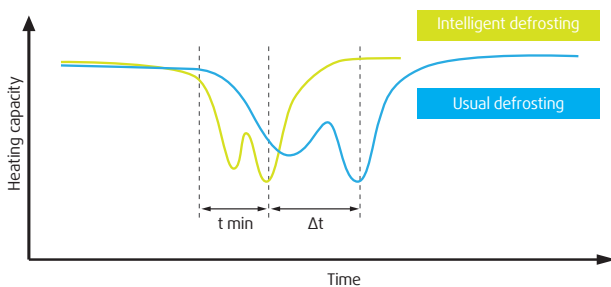


Night Silent Mode

The night silent mode feature, which is easily configured on the outdoor unit's PCB, includes various scheduling options that can be used to reduce noise levels at times when low noise operation is required.



Intelligent Defrosting Technology



The intelligent defrosting program calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting. A specialized defrosting valve reduces time required for defrosting to as little as four minutes.



VRF Heat Pump Outdoor Unit

SYSVRF2 (M) 252-900 AIR EVO HP R

SYSVRF2 252-280-335
AIR EVO HP R



SYSVRF2 400-450-500-560-615
AIR EVO HP R



SYSVRF2 670-730-785-850-900
AIR EVO HP R

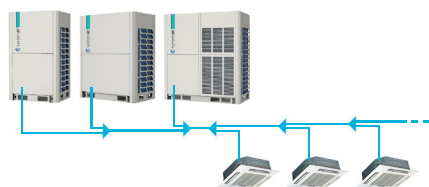


Features

- Wide application area due to incredible piping length and wide operating temperature range.
- Free modular combination of 3 basic units, up to a total capacity of maximum 270 kW.
- Top class energy efficiency.
- DC Inverter Scroll compressor with EVI technology providing wide capacity output from 10% to 100% evenly.
- Floating refrigerant temperature improves room comfort and system efficiency.
- All DC fan motors.
- High performance of the new designed heat exchanger.
- External static pressure up to 40 Pa (selectable by dip-switch).
- Automatic refrigerant charge makes the installation and service more easy and quick.
- Maximum 64 indoor unit connection.
- Indoor unit combination total capacity index from 50% to 130%.
- Centralized control, BMS connection and web access potential.

SYSVRF2 - 2^o generation of SYSVRF

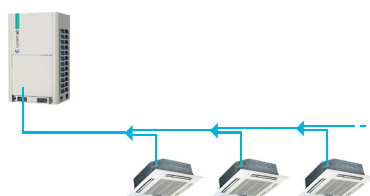
SYSVRF2 M ... AIR EVO HP R



Modular combination SYSVRF2 M ...

Only models 335, 615, 785 and 900 can be connected together in the same refrigerant circuit thus creating a modular system with capacity ranging from 95kW up to 270kW. Look at pages 24-25 for the available combinations.

SYSVRF2 ... AIR EVO HP R



Individual use SYSVRF2 ...

Models 252, 280, 400, 450, 500, 560, 670, 730 and 850 cannot be connected together thus they are suitable for single refrigerant systems.

Technical features

Model Outdoor unit			SYSVRF2	252 AIR EVO HP R	280 AIR EVO HP R	M 335 AIR EVO HP R	400 AIR EVO HP R	450 AIR EVO HP R	500 AIR EVO HP R
Art. no.				316158	316159	316212	316161	316162	316163
Power supply		V/Ph/Hz	380-415/3+N/50-60						
Nominal capacity		HP	8	10	12	14	16	18	
Cooling capacity		kW	25,2	28	33,5	40	45	50	
Power input		kW	5,54	6,67	8,7	10,96	12,86	14,71	
EER		kW/ kW	4,55	4,2	3,85	3,65	3,5	3,4	
SEER/SCOP			7,6/4,0	7,45/4,0	7,28/4,51	6,1/4,2	5,9/4,2	6,8/3,65	
Heating capacity		kW	25,2	28	33,5	40	45	50	
Power input		kW	4,85	5,49	6,57	9,3	10,71	12,2	
COP		kW/ kW	5,2	5,1	5,1	4,3	4,2	4,1	
Max. fuse current		A	35		45				
Compressor	Quantity	pcs	1 DC Inverter/ Scroll						
	Technology		EVI						
	Start-up method		Soft start						
	Refrigerant oil	ml	6.100	6.100	6.100	7.100	7.100	9.200	
Fan	Type/motor		1 Axial / DC motor						
	Static pressure	Pa	0-40 (selectable by dip-switch)						
	Air flow	m³/h	11.000				13.000		
Sound power level		dB(A)	78		81	85	88		
Sound pressure level		dB(A)	58		60	62	65		
Refrigerant	Type		R410A						
	Factory charge	kg	11				13		
Dimension (LxWxH)		mm	990x790x1.635				1.340x850x1.635		
Packing (LxWxH)		mm	1.090x860x1.805				1.405x910x1.805		
Net/gross weight		kg	227/242				277/304		295/322
Piping dimension	Liquid pipe	mm (in)	12,7 (1/2")			15,9 (5/8")			19,1 (3/4")
	Gas pipe	mm (in)	25,4 (1")			28,6 (1 1/8")		31,8 (1 1/4")	
Max quantity indoor units connection		pcs	13	16	20	23	26	29	
Operating ambient temperature range		°C	Cooling -5 ... +43 / Heating -25 ... +24						

Data are provided according to Eurovent conditions and with Duct indoor units.

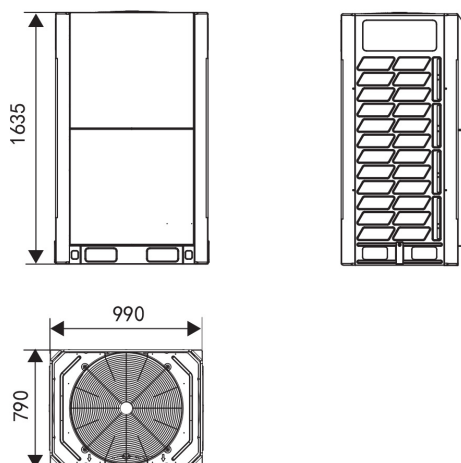
Operating conditions

	Indoor unit	Outdoor unit	Piping length	Level difference
Cooling mode	27°C DB, 19°C WB	35°C DB, 24°C WB	7,5 m	0 m
Heating mode	20°C DB, 15°C WB	7°C DB, 6°C WB	7,5 m	0 m

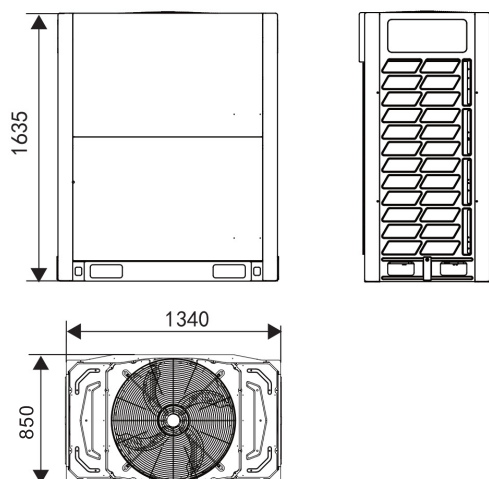
The sound pressure value may vary depending on ambient conditions.

Dimensions

SYSVRF2 252/280/335 AIR EVO HP R



SYSVRF2 400/450/500 AIR EVO HP R



Technical features

Model Outdoor unit			SYSRVF2	560 AIR EVO HP R	M 615 AIR EVO HP R	670 AIR EVO HP R	730 AIR EVO HP R	M 785 AIR EVO HP R	850 AIR EVO HP R	M 900 AIR EVO HP R
Art. no.				316164	316219	316166	316167	316222	316169	316224
Power supply		V/Ph/Hz	380-415/3+N/50-60							
Nominal capacity		HP	20	22	24	26	28	30	32	
Cooling capacity		kW	56	61,5	67	73	78,5	85	90	
Power input		kW	16	18,36	21,61	21,47	24,15	28,33	31,03	
EER		kW/ kW	3,5	3,35	3,1	3,4	3,25	3,0	2,9	
SEER/SCOP			6,45/3,65	6,35/3,8	6,84/3,7	6,49/3,7	6,22/3,86	6,05/3,75	5,9/3,84	
Heating capacity		kW	56	61,5	67	73	78,5	85	90	
Power input		kW	13,83	15	16,75	18,02	20,66	24,29	25,71	
COP		kW/ kW	4,05	4,1	4,0	4,05	3,8	3,5	3,5	
Max. fuse current		A	70							
Compressor	Quantity	pcs	1 DC Inverter/ Scroll				2 DC Inverter/ Scroll			
	Technology		Std	EVI	Std	EVI				
	Start-up method		Soft start							
	Refrigerant oil	ml	9.200	9.200	11.200	11.200	11.200	12.200	12.200	
Fan	Type/motor		2 Axial / DC motor							
	Static pressure	Pa	0-40 (selectable by dip-switch)							
	Air flow	m³/h	17.000		25.000			24.000		
Sound power level		dB(A)	88		89	90				
Sound pressure level		dB(A)	66		67	68				
Refrigerant	Type		R410A							
	Factory charge	kg	17		22			25		
Dimension (LxWxH)		mm	1.340x825x1.635			1.730x850x1.830				
Packing (LxWxH)		mm	1.405x910x1.805			1.800x910x2.000				
Net/gross weight		kg	344/364	348/368	407/430	429/452	430/453	475/507		
Piping dimension	Liquid pipe	mm (in)	19,1 (3/4")				22,2 (7/8")			
	Gas pipe	mm (in)	31,8 (1 1/4")				38,1 (1 1/2")			
Max quantity indoor units connection		pcs	33	36	39	43	46	50	53	
Operating ambient temperature range		°C	Cooling -5 ... +43 / Heating -25 ... +24							

Data are provided according to Eurovent conditions and with Duct indoor units.

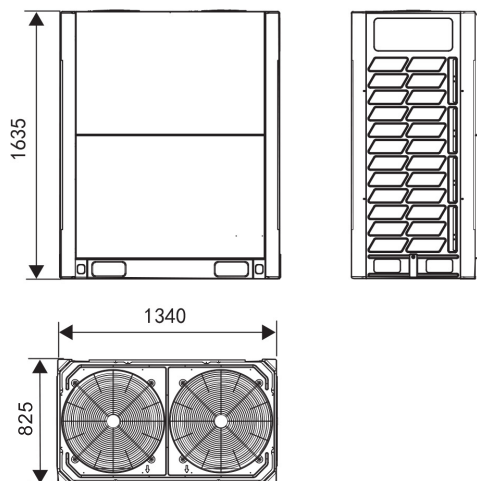
Operating conditions

	Indoor unit	Outdoor unit	Piping length	Level difference
Cooling mode	27°C DB, 19°C WB	35°C DB, 24°C WB	7,5 m	0 m
Heating mode	20°C DB, 15°C WB	7°C DB, 6°C WB	7,5 m	0 m

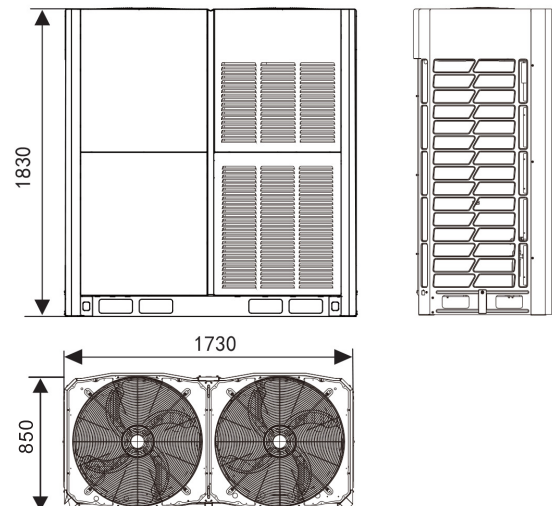
The sound pressure value may vary depending on ambient conditions.

Dimensions

SYSRVF2 560/615 AIR EVO HP R



SYSRVF2 670/730/785/850/900 AIR EVO HP R





Outdoor unit combination

SYSVRF2 M AIR EVO HP

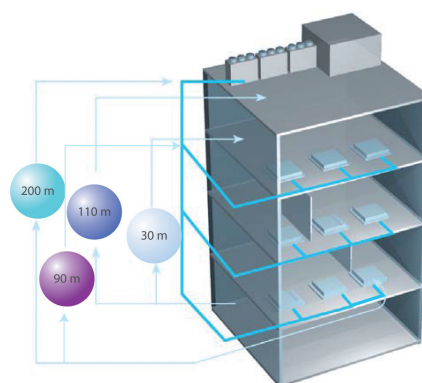
Design	Cooling/ Heating capacity kW	Model	Recommended combination	Outdoor branch	Max. indoor unit qty
	33,5/33,5	SYSVRF2 M 335 AIR EVO HP R	SYSVRF2 M 335 AIR EVO HP R	-	20
	61,5/61,5	SYSVRF2 M 615 AIR EVO HP R	SYSVRF2 M 615 AIR EVO HP R	-	36
	78,5/78,5	SYSVRF2 M 785 AIR EVO HP R	SYSVRF2 M 785 AIR EVO HP R	-	46
	90/90	SYSVRF2 M 900 AIR EVO HP R	SYSVRF2 M 900 AIR EVO HP R	-	53

Design	Cooling/ Heating capacity kW	Model	Recommended combination	Outdoor branch	Max. indoor unit qty
	95/95	SYSVRF2 M 950 AIR EVO HP R	SYSVRF2 M 335 AIR EVO HP R + SYSVRF2 M 615 AIR EVO HP R	SYSVRF2 JOINT OUT 02 HP	56
	112/112	SYSVRF2 M 1120 AIR EVO HP R	SYSVRF2 M 335 AIR EVO HP R + SYSVRF2 M 785 AIR EVO HP R	SYSVRF2 JOINT OUT 02 HP	64
	123/123	SYSVRF2 M 1230 AIR EVO HP R	SYSVRF2 M 615 AIR EVO HP R x2	SYSVRF2 JOINT OUT 02 HP	64
	140/140	SYSVRF2 M 1400 AIR EVO HP R	SYSVRF2 M 615 AIR EVO HP R + SYSVRF2 M 785 AIR EVO HP R	SYSVRF2 JOINT OUT 02 HP	64
	157/157	SYSVRF2 M 1570 AIR EVO HP R	SYSVRF2 M 785 AIR EVO HP R 2x	SYSVRF2 JOINT OUT 02 HP	64
	168,5/168,5	SYSVRF2 M 1685 AIR EVO HP R	SYSVRF2 M 785 AIR EVO HP R + SYSVRF2 M 900 AIR EVO HP R	SYSVRF2 JOINT OUT 02 HP	64
	180/180	SYSVRF2 M 1800 AIR EVO HP R	SYSVRF2 M 900 AIR EVO HP R x2	SYSVRF2 JOINT OUT 02 HP	64

Design	Cooling/ Heating capacity kW	Model	Recommended combination	Outdoor branch	Max. indoor unit qty
	185/185	SYSVRF2 M 1850 AIR EVO HP R	SYSVRF2 M 335 AIR EVO HP R + SYSVRF2 M 615 AIR EVO HP R + SYSVRF2 M 900 AIR EVO HP R	SYSVRF2 JOINT OUT 03 HP	64
	202/202	SYSVRF2 M 2020 AIR EVO HP R	SYSVRF2 M 335 AIR EVO HP R + SYSVRF2 M 785 AIR EVO HP R + SYSVRF2 M 900 AIR EVO HP R	SYSVRF2 JOINT OUT 03 HP	64
	213/213	SYSVRF2 M 2130 AIR EVO HP R	SYSVRF2 M 615 AIR EVO HP R x2 + SYSVRF2 M 900 AIR VO HP R	SYSVRF2 JOINT OUT 03 HP	64
	230/230	SYSVRF2 M 2300 A IR EVO HP R	SYSVRF2 M 615 AIR EVO HP R + SYSVRF2 M 785 AIR EVO HP R + SYSVRF2 M 900 AIR EVO HP R	SYSVRF2 JOINT OUT 03 HP	64
	247/247	SYSVRF2 M 2470 AIR EVO HP R	SYSVRF2 M 785 AIR EVO HP R x2 + SYSVRF2 M 900 AIR EVO HP R	SYSVRF2 JOINT OUT 03 HP	64
	258,5/258,5	SYSVRF2 M 2585 AIR EVO HP R	SYSVRF2 M 785 AIR EVO HP R + SYSVRF2 M 900 AIR EVO HP R x2	SYSVRF2 JOINT OUT 03 HP	64
	270/270	SYSVRF2 M 2700 AIR EVO HP R	SYSVRF2 M 900 AIR EVO HP R x3	SYSVRF2 JOINT OUT 03 HP	64

Piping Length

-  Maximum piping equivalent length.
-  Maximum piping (the farthest IDU from the first indoor unit branch) equivalent length.
-  Maximum outdoor unit-indoor unit drop height.
-  Maximum indoor unit to indoor unit drop height.



Outdoor units SYSVRF 252 to 2700 AIR EVO HP R			Permitted value
Piping length	Total piping length (actual)		1.000 m
	Maximum piping	Actual length	175 m
		Equivalent length	200 m
	Piping (the farthest IDU from the first indoor unit branch) equivalent length		40 m/90 m*
Drop height	Outdoor unit-indoor unit drop height	Outdoor unit down	110 m
		Outdoor unit up	90 m
	Indoor unit to indoor unit drop height		30 m

* When the farthest pipe length is more than 40m, it needs to meet specific conditions according to the installation part of the technical manual.

VRF Heat Recovery Outdoor Unit

SYSVRF 252-450 AIR EVO HR R

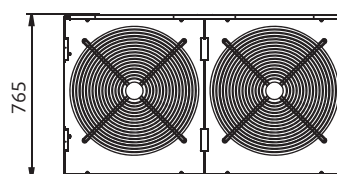
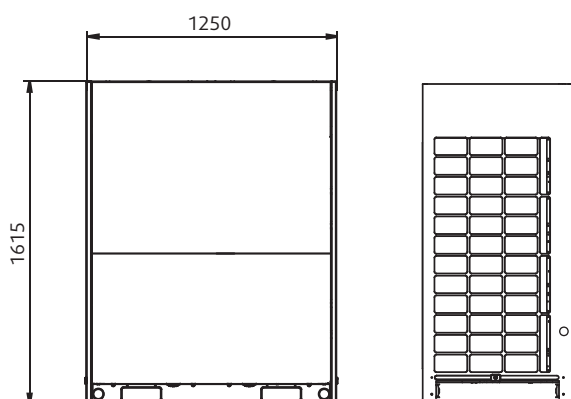


Features

- Simultaneous operation in cooling and heating mode provides more comfort and reduces power consumption.
- Wide application area due to incredible piping length and wide operating temperature range.
- Free modular combination of 4 basic units, up to a total capacity of maximum 180 kW.
- Top class energy efficiency.
- All DC Inverter Scroll compressors providing wide capacity output from 10% to 100% evenly.
- DC fan motor.
- High performance of the new designed heat exchanger with double refrigerant circuit.
- External static pressure up to 40 Pa (20 Pa standard).
- Maximum 64 indoor unit connection.
- Indoor unit combination total capacity index from 50% to 130%.
- Centralized control, BMS connection and web access potential.
- Continuous heating output during defrost operation thanks to the innovative double heat exchanger.

Dimensions

SYSVRF 252/280/335/400/450 AIR EVO HR R



Technical features

Model Outdoor unit			SYSVRF	252 AIR EVO HR R	280 AIR EVO HR R	335 AIR EVO HR R	400 AIR EVO HR R	450 AIR EVO HR R
Art. no.				314084	314085	314086	314087	314088
Power Supply		V/Ph/Hz	380-415/3+N/50-60					
Nominal capacity		HP	8	10	12	14	16	
Cooling capacity		kW	25,2	28,0	33,5	40,0	45,0	
Power Input		kW	5,97	6,75	9,28	11,49	14,2	
EER		kW/ kW	4,42	4,15	3,61	3,48	3,17	
SEER/SCOP			5,77 / 3,94	5,82 / 3,94	5,76 / 4,31	5,82 / 4,01	5,59 / 4,01	
Heating capacity		kW	27,0	31,5	37,5	40,0	45,0	
Power Input		kW	5,02	6,21	9,24	9,76	11,9	
COP		kW/ kW	5,38	5,07	4,06	4,10	3,78	
Max. current		A	20,8	22,1	22,8	31,8	32,8	
Compressor	Quantity	pcs	1 DC Inverter / Scroll				2 DC Inverter / Scroll	
	Start-up method		Soft start					
	Refrigerant oil	ml	500				2x 500	
Fan	Type/motor		2 Axial / DC motor					
	Static pressure	Pa	0-20 (0-40 factory option)					
	Air flow	m³/h	12.000	12.000	13.000	15.000	15.000	
Sound power level		dB(A)	79	83	84	88	88	
Sound pressure level		dB(A)	57	57	58	60	60	
Refrigerant	Type/motor		R410A					
	Factory charge	kg	10	10	10	13	13	
Dimension (LxWxH)		mm	1.250x765x1.615					
Packing (LxWxH)		mm	1.305x825x1.790					
Net/gross weight		kg	255/273				303/322	
Piping dimension	Liquid pipe	mm (in)	12,7 (1/2")			15,9 (5/8")		
	Low pressure gas pipe	mm (in)	22,2 (7/8")			25,4 (1")		28,6 (1 1/8")
	High pressure gas pipe	mm (in)	19,1 (3/4")			22,2 (7/8")		
	Oil balance pipe	mm (in)	6,35 (1/4")					
	Gas balance pipe	mm (in)	19,1 (3/4")					
Max quantity indoor units connection		pcs	13	16	20	23	26	
Operating ambient temp. range		°C	Cooling -5...+43 / Heating -20...+24 / Simultaneous Cooling and Heating -5...+24					

Data are provided according to Eurovent conditions and with Duct indoor units.

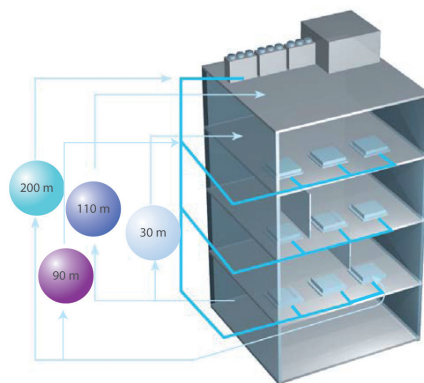
Operating conditions

	Indoor unit	Outdoor unit	Piping length	Level difference
Cooling mode	27°C DB, 19°C WB	35°C DB, 24°C WB	7,5 m	0 m
Heating mode	20°C DB, 15°C WB	7°C DB, 6°C WB	7,5 m	0 m

The sound pressure value may vary depending on ambient conditions.

Piping Length

-  Maximum piping equivalent length.
-  Maximum piping (the farthest IDU from the first indoor unit branch) equivalent length.
-  Maximum outdoor unit-indoor unit drop height.
-  Maximum indoor unit to indoor unit drop height.



Outdoor units SYSVRF 252 to 1800 AIR EVO HR R			Permitted value
Piping length	Total piping length (actual)		1.000 m
	Maximum piping	Actual length	175 m
		Equivalent length	200 m
	Piping (the farthest IDU from the first indoor unit branch) equivalent length		40 m/90 m*
Drop height	Outdoor unit-indoor unit drop height	Outdoor unit up	110 m
		Outdoor unit down	70 m
	Indoor unit to indoor unit drop height		30 m

* When the farthest pipe length is more than 40m, it needs to meet specific conditions according to the installation part of the technical manual.

Mode Switch module for VRF Heat Recovery systems

SYSVRF BOX 02-06 HR

SYSVRF BOX 02 HR



SYSVRF BOX 06 HR

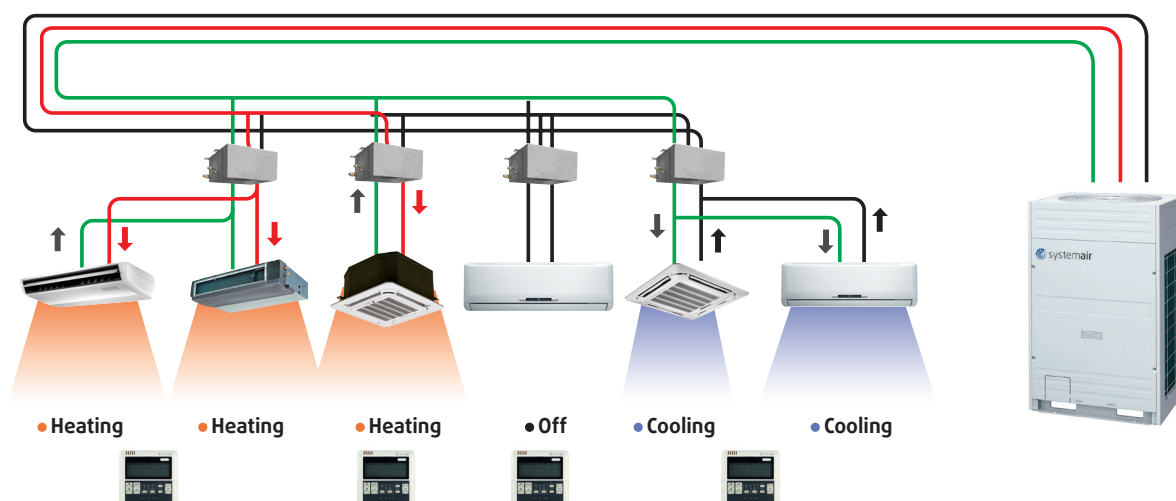


SYSVRF BOX 04 HR

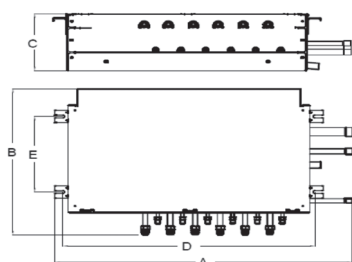


Features

- Simultaneous heating and cooling in a single refrigerant system thanks to the combination of SYSVRF HR outdoor units and the SYSVRF BOX modules.
- SYSVRF BOX HR is available in 3 different modules with 2, 4 or 6 outlets and combination up to 24 indoor units from a single module.
- Compact and light design, it can be installed in narrow space.
- Independent sub-cooling circuit for each SYSVRF BOX HR module.



Dimensions SYSVRF BOX

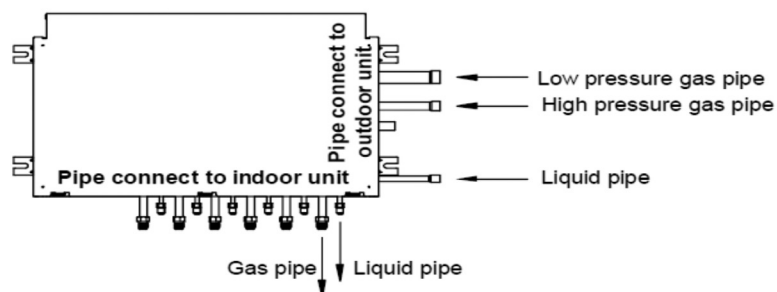


	SYSVRF BOX 02 HR	SYSVRF BOX 04 HR	SYSVRF BOX 06 HR
A	630	960	960
B	600	600	600
C	225	225	225
D	490	820	820
E	300	300	300

Technical features

Model				SYSVRF BOX 02 HR	SYSVRF BOX 04 HR	SYSVRF BOX 06 HR
Art. no.				314161	314162	314186
Power Supply			V/Ph/Hz	220-240/1/50 or 60		
Max indoor unit groups				2	4	6
Max number of each group indoor units				4	4	4
Max number of all downstream indoor units				4x2=8	4x4=16	4x6=24
Max capacity of each group indoor units			kW	16	16	16
Total capacity of all downstream indoor units			kW	<28	<45	<45
Piping connections	Connect to outdoor unit	Liquid pipe	mm (in)	12,7 (1/2")	15,9 (5/8")	15,9 (5/8")
		High pressure gas pipe	mm (in)	19,1 (3/4")	22,2 (7/8")	22,2 (7/8")
		Low pressure gas pipe	mm (in)	25,4 (1")	31,8 (1 1/4")	31,8 (1 1/4")
	Connect to indoor unit	Liquid pipe	mm (in)	9,5 (3/8")	9,5 (3/8")	9,5 (3/8")
		Gas pipe	mm (in)	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")
Dimension (LxWxH)			mm	630x225x600	960x225x600	960x225x600
Packing (LxWxH)			mm	725x325x685	1.055x325x685	1.055x325x685
Net/gross weight			kg	19,5/27	31/40	35/44,5

Piping connections SYSVRF BOX



		SYSVRF BOX 02 HR	SYSVRF BOX 04 HR	SYSVRF BOX 06 HR
Outdoor unit	Liquid pipe	12,7 (1/2")	15,9 (5/8")	15,9 (5/8")
	High pressure pipe	19,1 (3/4")	22,2 (7/8")	22,2 (7/8")
	Low pressure pipe	25,4 (1")	31,8 (1 1/4")	31,8 (1 1/4")
Indoor unit	Liquid pipe	9,5 (3/8")	9,5 (3/8")	9,5 (3/8")
	Gas pipe	15,9 (5/8")	15,9 (5/8")	15,9 (5/8")

Outdoor unit combination

SYSVRF AIR EVO HR

Design	Cooling/ Heating capacity kW	Model	Recommended combination	Outdoor branch	Max. indoor unit qty
	25,2/27	SYSVRF 252 AIR EVO HR R	SYSVRF 252 AIR EVO HR R	-	13
	28/31,5	SYSVRF 280 AIR EVO HR R	SYSVRF 280 AIR EVO HR R	-	16
	33,5/37,5	SYSVRF 335 AIR EVO HR R	SYSVRF 335 AIR EVO HR R	-	20
	40/45	SYSVRF 400 AIR EVO HR R	SYSVRF 400 AIR EVO HR R	-	23
	45/50	SYSVRF 450 AIR EVO HR R	SYSVRF 450 AIR EVO HR R	-	26

Design	Cooling/ Heating capacity kW	Model	Recommended combination	Outdoor branch	Max. indoor unit qty
	53,2/58,5	SYSVRF 532 AIR EVO HR R	SYSVRF 252 AIR EVO HR R + SYSVRF 280 AIR EVO HR R	SYSVRF JOINT OUT 02 HR	29
	56/63	SYSVRF 560 AIR EVO HR R	SYSVRF 280 AIR EVO HR R x2	SYSVRF JOINT OUT 02 HR	33
	61,5/69	SYSVRF 615 AIR EVO HR R	SYSVRF 280 AIR EVO HR R + SYSVRF 335 AIR EVO HR R	SYSVRF JOINT OUT 02 HR	36
	68/76,5	SYSVRF 680 AIR EVO HR R	SYSVRF 280 AIR EVO HR R + SYSVRF 400 AIR EVO HR R	SYSVRF JOINT OUT 02 HR	39
	73/81,5	SYSVRF 730 AIR EVO HR R	SYSVRF 280 AIR EVO HR R + SYSVRF 450 AIR EVO HR R	SYSVRF JOINT OUT 02 HR	43
	80/90	SYSVRF 800 AIR EVO HR R	SYSVRF 400 AIR EVO HR R x2	SYSVRF JOINT OUT 02 HR	46
	85/95	SYSVRF 850 AIR EVO HR R	SYSVRF 400 AIR EVO HR R + SYSVRF 450 AIR EVO HR R	SYSVRF JOINT OUT 02 HR	50
	90/100	SYSVRF 900 AIR EVO HR R	SYSVRF 450 AIR EVO HR R x2	SYSVRF JOINT OUT 02 HR	53

Design	Cooling/ Heating capacity kW	Model	Recommended combination	Outdoor branch	Max. indoor unit qty
	96/108	SYSVRF 960 AIR EVO HR R	SYSVRF 280 AIR EVO HR R x2 + SYSVRF 400 AIR EVO HR R	SYSVRF JOINT OUT 03 HR	56
	101/113	SYSVRF 1010 AIR EVO HR R	SYSVRF 280 AIR EVO HR R x2 + SYSVRF 450 AIR EVO HR R	SYSVRF JOINT OUT 03 HR	59
	106,5/119	SYSVRF 1065 AIR EVO HR R	SYSVRF 280 AIR EVO HR R + SYSVRF 335 AIR EVO HR R + SYSVRF 450 AIR EVO HR R	SYSVRF JOINT OUT 03 HR	63
	113/126,5	SYSVRF 1130 AIR EVO HR R	SYSVRF 280 AIR EVO HR R + SYSVRF 400 AIR EVO HR R + SYSVRF 450 AIR EVO HR R	SYSVRF JOINT OUT 03 HR	64
	120/135	SYSVRF 1200 AIR EVO HR R	SYSVRF 400 AIR EVO HR R x3	SYSVRF JOINT OUT 03 HR	64
	125/140	SYSVRF 1250 AIR EVO HR R	SYSVRF 400 AIR EVO HR R x2 + SYSVRF 450 AIR EVO HR R	SYSVRF JOINT OUT 03 HR	64
	130/145	SYSVRF 1300 AIR EVO HR R	SYSVRF 400 AIR EVO HR R + SYSVRF 450 AIR EVO HR R x2	SYSVRF JOINT OUT 03 HR	64
	135/150	SYSVRF 1350 AIR EVO HR R	SYSVRF 450 AIR EVO HR R x3	SYSVRF JOINT OUT 03 HR	64

Design	Cooling/ Heating capacity kW	Model	Recommended combination	Outdoor branch	Max. indoor unit qty
	143,2/158,5	SYSVRF 1432 AIR EVO HR R	SYSVRF 252 AIR EVO HR R + SYSVRF 280 AIR EVO HR R + SYSVRF 450 AIR EVO HR R x2	SYSVRF JOINT OUT 04 HR	64
	146/163	SYSVRF 1460 AIR EVO HR R	SYSVRF 280 AIR EVO HR R x2 + SYSVRF 450 AIR EVO HR R x2	SYSVRF JOINT OUT 04 HR	64
	151,5/169	SYSVRF 1515 AIR EVO HR R	SYSVRF 280 AIR EVO HR R + SYSVRF 335 AIR EVO HR R + SYSVRF 450 AIR EVO HR R x2	SYSVRF JOINT OUT 04 HR	64
	158/176,5	SYSVRF 1580 AIR EVO HR R	SYSVRF 280 AIR EVO HR R + SYSVRF 400 AIR EVO HR R + SYSVRF 450 AIR EVO HR R x2	SYSVRF JOINT OUT 04 HR	64
	165/185	SYSVRF 1650 AIR EVO HR R	SYSVRF 400 AIR EVO HR R x3 + SYSVRF 450 AIR EVO HR R	SYSVRF JOINT OUT 04 HR	64
	170/190	SYSVRF 1700 AIR EVO HR R	SYSVRF 400 AIR EVO HR R x2 + SYSVRF 450 AIR EVO HR R x2	SYSVRF JOINT OUT 04 HR	64
	175/195	SYSVRF 1750 AIR EVO HR R	SYSVRF 400 AIR EVO HR R + SYSVRF 450 AIR EVO HR R x3	SYSVRF JOINT OUT 04 HR	64
	180/200	SYSVRF 1800 AIR EVO HR R	SYSVRF 450 AIR EVO HR R x4	SYSVRF JOINT OUT 04 HR	64

Wall-Mounted Indoor Unit

SYSVRF2 WALL 22-90 Q



Infrared remote controller
SYS RM 05
Art. no. 316260
(optional)



Wired controller
SYS WSC 86
Art. no. 316262
(optional)



Wired controller
SYS WGC 120
Art. no. 316261
(optional)

Features

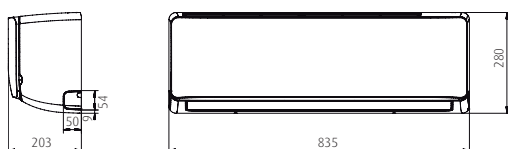
- Front panel of modern design that fits into any interior decor.
- All models are equipped with high efficient DC fan motor.
- 7-speed fan control provides an high flexibility in supplying the correct air flow in the room.
- Even and smooth air distribution due to auto swing function.
- Multi-refrigerant outlet pipe method: left/right/rear, more flexible for installation.
- Washable air filter, easy for insertion and removal.
- Built-in electronic expansion valve (EXV) ensuring precise refrigerant flow control.
- Functional port for remote on/off contact and alarm output.
- Infrared receiver with integrated display.
- Power supply 50Hz or 60Hz.

Accessories/option

- Infrared remote controller SYS RM 05 with address setting function.
- Wired controller SYS WSC 86 with address setting and Follow me function.
- Wired controller SYS WGC 120 with weekly timer and Group control up to 16 indoor units.

Dimensions

SYSVRF2 WALL 22/28 Q



SYSVRF2 WALL 71/80/90 Q



SYSVRF2 WALL 36/45/56 Q



Technical features

Model Indoor unit		SYSVRF2	WALL 22 Q	WALL 28 Q	WALL 36 Q	WALL 45 Q
Art. no.			316284	316285	316286	316287
Power Supply	V/Ph/Hz		220-240/1/50-60			
Cooling capacity	kW		2,2	2,8	3,6	4,5
Heating capacity	kW		2,4	3,2	4,0	5,0
Power input	kW		28	28	30	40
Indoor fan motor			DC motor			
Air flow	m³/h		420/410/400/ 390/380/370/360	420/400/390/ 370/350/340/320	660/630/590/ 570/540/515/490	595/560/535/ 510/480/450/420
Sound pressure level	dB(A)		31/30/30/ 30/29/29/29	31/30/30/ 30/29/29/29	33/32/32/ 31/31/30/30	35/34/33/ 33/32/31/31
Sound power level	dB(A)		46/45/45/ 45/44/44/44	46/45/45/ 45/44/44/44	48/47/47/ 46/46/45/45	50/49/48/ 48/47/46/46
Dimension LxWxH	mm		835x203x280		990x223x315	
Packing LxWxH	mm		935x320x385		1.085x335x420	
Net/gross weight	kg		8,4/12,1	9,5/13,1	11,4/15,5	12,8/16,9
Refrigerant			R410A			
Piping dimension	Liquid pipe	mm (in)	6,4 (1/4")			
	Gas pipe	mm (in)	12,7 (1/2")			
Drain pipe	mm		16,5			
Operating ambient temp. range	°C		Cooling +17 ... +32 / Heating +10 ... +28			

Model Indoor unit		SYSVRF2	WALL 56 Q	WALL 71 Q	WALL 80 Q	WALL 90 Q
Art. no.			316288	316289	316290	316291
Power Supply	V/Ph/Hz		220-240/1/50-60			
Cooling capacity	kW		5,6	7,1	8,0	9,0
Heating capacity	kW		6,3	8,0	9,0	10,0
Power input	kW		45	55	55	82
Indoor fan motor			DC motor			
Air flow	m³/h		750/710/685/ 650/610/580/550	1.200/1.130/1.065/ 1.000/940/875/810	1.200/1.130/1.065/ 1.000/940/875/810	1.420/1.300/1.125/ 1.070/1.000/935/870
Sound pressure level	dB(A)		38/37/36/ 36/35/34/34	44/43/42/ 39/38/37/36	44/43/42/ 39/38/37/36	48/46/45/ 43/41/40/38
Sound power level	dB(A)		53/52/51/ 51/50/49/49	59/58/57/ 54/53/52/51	59/58/57/ 54/53/52/51	63/61/60/ 58/56/55/53
Dimension LxWxH	mm		990x223x315	1.194x262x343	1.194x262x343	1.194x262x343
Packing LxWxH	mm		1.085x335x420	1.290x375x460	1.290x375x460	1.290x375x460
Net/gross weight	kg		12,8/16,9	17,0/22,4	17,0/22,4	17,0/22,4
Refrigerant			R410A			
Piping dimension	Liquid pipe	mm (in)	9,5 (3/8")			
	Gas pipe	mm (in)	15,9 (5/8")			
Drain pipe	mm		16,5			
Operating ambient temp. range	°C		Cooling +17 ... +32 / Heating +10 ... +28			

Operating conditions

	Indoor unit	Outdoor unit	Piping length	Level difference
Cooling mode	27°C DB, 19°C WB	35°C DB	7,5 m	0 m
Heating mode	20°C DB, 15°C WB	7°C DB	7,5 m	0 m

The sound pressure value may vary depending on ambient conditions.

Compact Cassette Indoor Unit

SYSVRF2 CASSETTE MINI 22-45 Q



Infrared remote controller
SYS RM 05
Art. no. 316260
(optional)



Wired controller
SYS WSC 86
Art. no. 316262
(optional)



Wired controller
SYS WGC 120
Art. no. 316261
(optional)

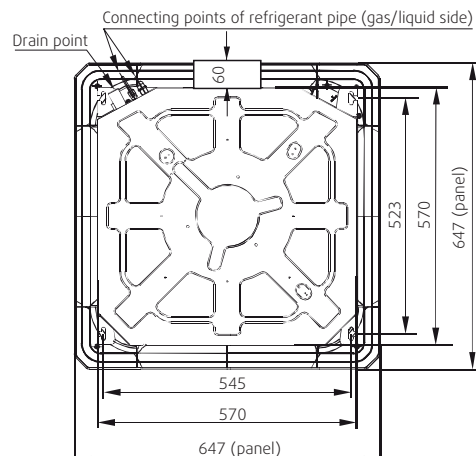
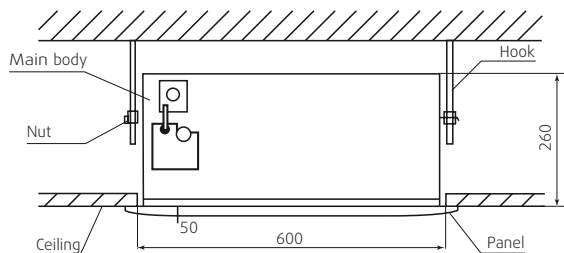
Features

- New grille **SYSPANEL CASSETTE MINI VRF** with 360° air discharge providing strong circulating air flow to cool or heat every corner of the room.
- Compact casing making it match perfectly with ambient decoration.
- Advanced 3D spiral fan design reducing the air resistance and operation noise.
- All models are equipped with high efficient DC fan motor.
- 7-speed fan control provides an high flexibility in supplying the correct air flow in the room.
- Integrated drain pump with a head of 500 mm.
- Fresh air hole and reserved ports for duct connection.
- The electronic expansion valve (EXV) ensures precise refrigerant flow control.
- Functional port for remote on/off contact and alarm output.
- Infrared receiver integrated in the panel.
- Power supply 50Hz or 60Hz.

Accessories/option

- Infrared remote controller SYS RM 05 with address setting function.
- Wired controller SYS WSC 86 with address setting and Follow me function.
- Wired controller SYS WGC 120 with weekly timer and Group control up to 16 indoor units.

Dimensions



Technical features

Model Indoor unit SYSVRF2			CASSETTE MINI 22 Q	CASSETTE MINI 28 Q	CASSETTE MINI 36 Q	CASSETTE MINI 45 Q
Model Panel unit SYSPANEL			CASSETTE MINI SYSVRF2	CASSETTE MINI SYSVRF2	CASSETTE MINI SYSVRF2	CASSETTE MINI SYSVRF2
Art. no. Indoor unit			316225	316226	316227	316228
Art. no. Panel unit			316360	316360	316360	316360
Power Supply		V/Ph/Hz	220-240/1/50-60			
Cooling capacity		kW	2,2	2,8	3,6	5,0
Heating capacity		kW	2,4	3,2	4,0	5,0
Power Input		W	35		40	50
Indoor fan motor			DC motor			
Air flow		m³/h	580/550/525/ 500/460/440/405		605/570/540/ 515/480/430/400	
Sound pressure level		dB(A)	35/34/33/ 29/26/23/22		41/38/35/ 32/30/29/28	
Sound power level		dB(A)	51/50/49/ 45/42/39/38		56/53/50/ 47/45/44/43	
Unit	Dimension (LxWxH)	mm	630x570x260			
	Packing (LxWxH)	mm	700x660x345			
	Net/gross weight	kg	18/23,5		19,2/24,7	
Panel	Dimension (LxWxH)	mm	647x647x50			
	Packing (LxWxH)	mm	715x715x123			
	Net/gross weight	kg	2,5/4,5			
Refrigerant			R410A			
Piping dimension	Liquid pipe	mm (in)	6,4 (1/4")			
	Gas pipe	mm (in)	12,7 (1/2")			
Drain pipe		mm	32			
Operating ambient temp. range		°C	Cooling +17...+32 / Heating +10...+28			

Operating conditions

	Indoor unit	Outdoor unit	Piping length	Level difference
Cooling mode	27°C DB, 19°C WB	35°C DB	7,5 m	0 m
Heating mode	20°C DB, 15°C WB	7°C DB	7,5 m	0 m

The sound pressure value may vary depending on ambient conditions.

Slim Cassette Indoor Unit

SYSVRF2 CASSETTE 56-140 Q



Infrared remote controller
SYS RM 05
Art. no. 316260
(optional)



Wired controller
SYS WSC 86
Art. no. 316262
(optional)



Wired controller
SYS WGC 120
Art. no. 316261
(optional)

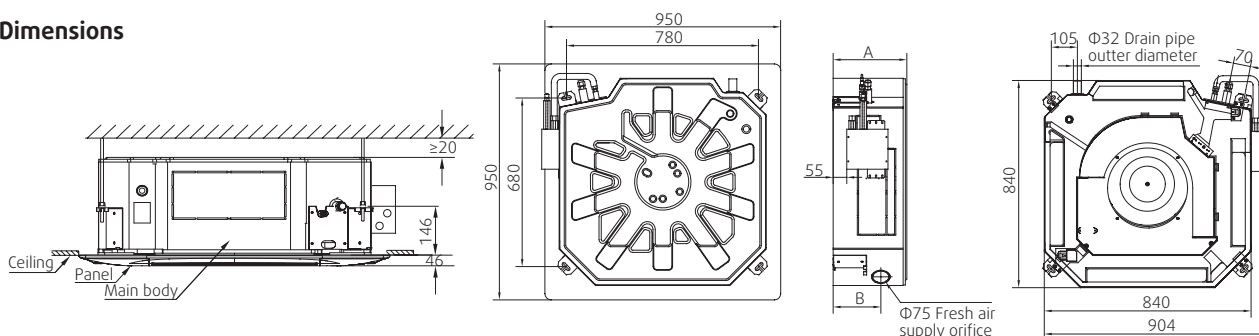
Features

- New grille **SYSPANEL CASSETTE EVO** with 360° air discharge providing strong circulating air flow to cool or heat every corner of the room.
- Ultra-thin casing for easy installation into a shallow ceiling.
- Advanced 3D spiral fan design reducing the air resistance and operation noise.
- All models are equipped with high efficient DC fan motor.
- 7-speed fan control provides an high flexibility in supplying the correct air flow in the room.
- Integrated drain pump with a head of 750 mm.
- Fresh air hole and reserved ports for duct connection.
- Built-in electronic expansion valve (EXV) ensuring precise refrigerant flow control.
- Functional port for remote on/off contact and alarm output.
- Infrared receiver integrated in the panel.
- Power supply 50Hz or 60Hz.

Accessories/option

- Infrared remote controller SYS RM 05 with address setting function.
- Wired controller SYS WSC 86 with address setting and Follow me function.
- Wired controller SYS WGC 120 with weekly timer and Group control up to 16 indoor units.

Dimensions



Indoor unit SYSVRF2	CASSETTE 56 Q	CASSETTE 71 Q	CASSETTE 90 Q	CASSETTE 112 Q	CASSETTE 140 Q
A	mm	230		300	
B	mm	170		190	

Technical features

Model Indoor unit		SYSVRF2	CASSETTE 56 Q	CASSETTE 71 Q
Model Panel unit		SYS PANEL	CASSETTE EVO SYSVRF2	CASSETTE EVO SYSVRF2
Art. no. Indoor unit			316232	316233
Art. no. Panel unit			316361	316361
Power Supply		V/Ph/Hz	220-240/1/50-60	
Cooling capacity		kW	5,6	7,1
Heating capacity		kW	6,3	8,0
Power Input		W	31	46
Indoor fan motor			DC motor	
Air flow		m³/h	890/870/800/ 740/710/700/635	980/940/865/ 800/780/740/670
Sound pressure level		dB(A)	35/34/31/ 31/30/28/26	35/35/34/ 31/30/28/27
Sound power level		dB(A)	50/49/47/ 47/45/42/40	50/49/47/ 47/45/42/41
Unit	Dimension (LxWxH)	mm	840x840x230	
	Packing (LxWxH)	mm	955x955x260	
	Net/gross weight	kg	23/28	
Panel	Dimension (LxWxH)	mm	950x950x70	
	Packing (LxWxH)	mm	1.035x1.035x89	
	Net/gross weight	kg	6/8	
Refrigerant			R410A	
Piping dimension	Liquid pipe	mm (in)	9,5 (3/8")	
	Gas pipe	mm (in)	15,9 (5/8")	
Drain pipe		mm	32	
Operating ambient temp. range		°C	Cooling +17...+32 / Heating +10...+28	

Model Indoor unit		SYSVRF2	CASSETTE 90 Q	CASSETTE 112 Q	CASSETTE 140 Q
Model Panel unit		SYS PANEL	CASSETTE EVO SYSVRF2	CASSETTE EVO SYSVRF2	CASSETTE EVO SYSVRF2
Art. no. Indoor unit			316234	316235	316236
Art. no. Panel unit			316361	316361	316361
Power Supply		V/Ph/Hz	220-240/1/50-60		
Cooling capacity		kW	9,0	11,2	14,0
Heating capacity		kW	10,0	12,5	15,0
Power Input		W	75		94
Indoor fan motor			DC motor		
Air flow		m³/h	1.350/1.295/1.230 1.200/1.110/1.030/970	1.640/1.545/1.430/ 1.310/1.225/1.200/1.140	1.660/1.575/1.450/ 1.350/1.250/1.220/1.170
Sound pressure level		dB(A)	37/35/34/ 31/31/30/28	38/36/35/ 34/31/31/30	39/37/36/ 35/34/31/31
Sound power level		dB(A)	53/49/48/ 46/46/44/43	55/52/49/ 48/46/46/44	56/55/52/ 49/48/46/46
Unit	Dimension (LxWxH)	mm	840x840x300		
	Packing (LxWxH)	mm	955x955x330		
	Net/gross weight	kg	28/34		31/36
Panel	Dimension (LxWxH)	mm	950x950x70		
	Packing (LxWxH)	mm	1.035x1.035x89		
	Net/gross weight	kg	6/8		
Refrigerant			R410A		
Piping dimension	Liquid pipe	mm (in)	9,5 (3/8")		
	Gas pipe	mm (in)	15,9 (5/8")		
Drain pipe		mm	32		
Operating ambient temp. range		°C	Cooling +17...+32 / Heating +10...+28		

Operating conditions

	Indoor unit	Outdoor unit	Piping length	Level difference
Cooling mode	27°C DB, 19°C WB	35°C DB	7,5 m	0 m
Heating mode	20°C DB, 15°C WB	7°C DB	7,5 m	0 m

The sound pressure value may vary depending on ambient conditions.

1Way Cassette Indoor Unit

SYSVRF2 CASSETTE 1W 22-36 Q



Infrared remote controller
SYS RM 05
Art. no. 316260
(optional)



Wired controller
SYS WSC 86
Art. no. 316262
(optional)



Wired controller
SYS WGC 120
Art. no. 316261
(optional)

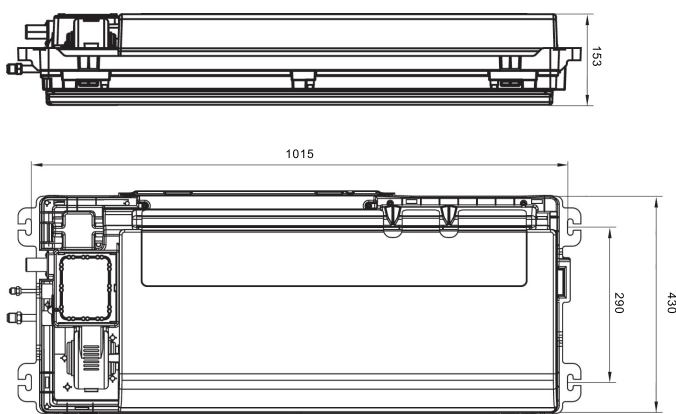
Features

- Stylish look with new decorative panel.
- Ultra-thin chassis for easy installation in false ceiling.
- All models are equipped with high efficient DC fan motor.
- 7-speed fan control provides an high flexibility in supplying the correct air flow in the room.
- Integrated drain pump with a head of 750 mm.
- Built-in electronic expansion valve (EXV) ensuring precise refrigerant flow control.
- Functional port for remote on/off contact and alarm output.
- Infrared receiver as standard equipment.
- Power supply 50Hz or 60Hz.

Accessories/option

- Infrared remote controller SYS RM 05 with address setting function.
- Wired controller SYS WSC 86 with address setting and Follow me function.
- Wired controller SYS WGC 120 with weekly timer and Group control up to 16 indoor units.

Dimensions



Technical features

Model Indoor unit		SYSVRF2	CASSETTE 1W 22 Q	CASSETTE 1W 28 Q	CASSETTE 1W 36 Q
Model Panel unit		SYSPANEL	CASSETTE 1W VRF	CASSETTE 1W VRF	CASSETTE 1W VRF
Art. no. Indoor unit			316237	316238	316239
Art. no. Panel unit			314217		
Power Supply		V/Ph/Hz	220-240/1/50-60		
Cooling capacity		kW	2,2	2,8	3,6
Heating capacity		kW	2,6	3,2	4,0
Power Input		W	25	30	30
Indoor fan motor			DC motor		
Air flow		m³/h	520/480/450/ 400/360/310/275	570/530/490/ 455/420/365/315	
Sound pressure level		dB(A)	37/36/35/ 34/32/31/30	39/38/37/ 36/35/35/34	
Sound power level		dB(A)	51/50/49/ 48/46/45/44	53/52/51/ 50/49/49/48	
Unit	Dimension (LxWxH)	mm	1.054x425x153		
	Packing (LxWxH)	mm	1.155x490x245		
	Net/gross weight	kg	11,8/15,3	12,3/15,8	
Panel	Dimension (LxWxH)	mm	1.180x465x25		
	Packing (LxWxH)	mm	1.232x517x107		
	Net/gross weight	kg	3,5/5,2		
Refrigerant			R410A		
Piping dimension	Liquid pipe	mm (in)	6,4 (1/4")		
	Gas pipe	mm (in)	12,7 (1/2")		
Drain pipe		mm	32		
Operating ambient temp. range		°C	Cooling +17...+32 / Heating +10...+28		

Operating conditions

	Indoor unit	Outdoor unit	Piping length	Level difference
Cooling mode	27°C DB, 19°C WB	35°C DB	7,5 m	0 m
Heating mode	20°C DB, 15°C WB	7°C DB	7,5 m	0 m

The sound pressure value may vary depending on ambient conditions.

Ceiling and Floor Indoor Unit

SYSVRF2 CEILING 36-140 Q



Infrared remote controller
SYS RM 05
Art. no. 316260
(optional)



Wired controller
SYS WSC 86
Art. no. 316262
(optional)



Wired controller
SYS WGC 120
Art. no. 316261
(optional)

Features

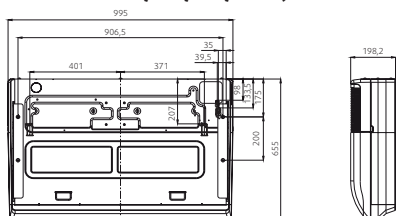
- Flexible vertical or horizontal installation, even into a corner of the ceiling.
- Even and smooth air distribution thanks to the auto swing function of the air louvers.
- All models are equipped with high efficient DC fan motor.
- 7-speed fan control provides an high flexibility in supplying the correct air flow in the room.
- Wide angle air flow.
- Low noise operation.
- Washable air filter, easy for insertion and removal.
- Built-in electronic expansion valve (EXV) ensuring precise refrigerant flow control.
- Functional port for remote on/off contact and alarm output.
- Infrared receiver as standard equipment.
- Power supply 50Hz or 60Hz.

Accessories/option

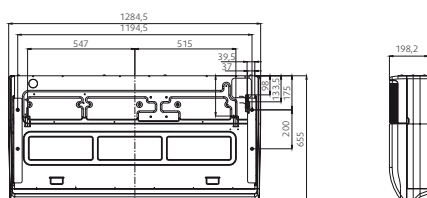
- Infrared remote controller SYS RM 05 with address setting function.
- Wired controller SYS WSC 86 with address setting and Follow me function.
- Wired controller SYS WGC 120 with weekly timer and Group control up to 16 indoor units.

Dimensions

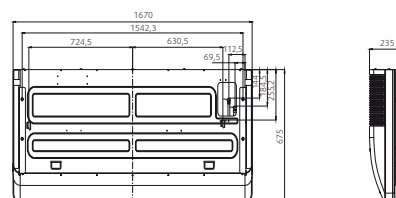
SYSVRF2 CEILING 36/45/56/71 Q



SYSVRF CEILING 90 Q



SYSVRF CEILING 112/140 Q



Technical features

Model Indoor unit		SYSVRF2	CEILING 36 Q	CEILING 45 Q	CEILING 56 Q	CEILING 71 Q
Art. no.			316253	316254	316255	316256
Power Supply		V/Ph/Hz	220-240/1/50-60			
Cooling capacity		kW	3,6	4,5	5,6	7,1
Heating capacity		kW	4,0	5,0	6,3	8,0
Power Input		W	49	115	115	115
Indoor fan motor			DC motor			
Air flow		m³/h	550/525/500/ 480/460/440/420		930/895/860/ 830/790/755/720	
Sound pressure level		dB(A)	40/39/38/ 38/37/36/36		43/42/41/ 41/39/38/38	
Sound power level		dB(A)	53/52/51/ 51/50/49/49		56/55/54/ 54/52/51/51	
Dimension (LxWxH)		mm	990x203x660			
Packing (LxWxH)		mm	1.089x296x744			
Net/gross weight		kg	26/32	28/34		
Refrigerant			R410A			
Piping dimension	Liquid pipe	mm (in)	6,4 (1/4")		9,5 (3/8")	
	Gas pipe	mm (in)	12,7 (1/2")		15,9 (5/8")	
Drain pipe		mm	16			
Operating ambient temp. range		°C	Cooling +17...+32 / Heating +10...+28			

Model Indoor unit		SYSVRF2	CEILING 90 Q	CEILING 112 Q	CEILING 140 Q
Art. no.			316257	316258	316259
Power Supply		V/Ph/Hz	220-240/1/50-60		
Cooling capacity		kW	9,0	11,2	14,0
Heating capacity		kW	10,0	12,5	15,5
Power Input		W	130	180	
Indoor fan motor			DC motor		
Air flow		m³/h	1.280/1.245/1.210/ 1.170/1.130/1.085/1.050		1.890/1.830/1.765/ 1.700/1.660/1.620/1.580
Sound pressure level		dB(A)	45/44/43/ 43/42/41/40	47/46/45/ 45/44/43/42	
Sound power level		dB(A)	58/57/56/ 56/55/54/53		60/59/58/ 58/57/56/55
Dimension (LxWxH)		mm	1.280x203x660	1.670x244x680	
Packing (LxWxH)		mm	1.379x296x744	1.915x330x760	
Net/gross weight		kg	35/41	48/58	
Refrigerant			R410A		
Piping dimension	Liquid pipe	mm (in)	9,5 (3/8")		
	Gas pipe	mm (in)	15,9 (5/8")		
Drain pipe		mm	16		
Operating ambient temp. range		°C	Cooling +17...+32 / Heating +10...+28		

Operating conditions

	Indoor unit	Outdoor unit	Piping length	Level difference
Cooling mode	27°C DB, 19°C WB	35°C DB	7,5 m	0 m
Heating mode	20°C DB, 15°C WB	7°C DB	7,5 m	0 m

The sound pressure value may vary depending on ambient conditions.

Medium Static Pressure Duct Indoor Unit

SYSVRF2 DUCT 22-140 Q



Infrared remote controller
SYS RM 05
Art. no. 316260
(optional)



Wired controller
SYS WSC 86
Art. no. 316262
(optional)



Wired controller
SYS WGC 120
Art. no. 316261
(optional)

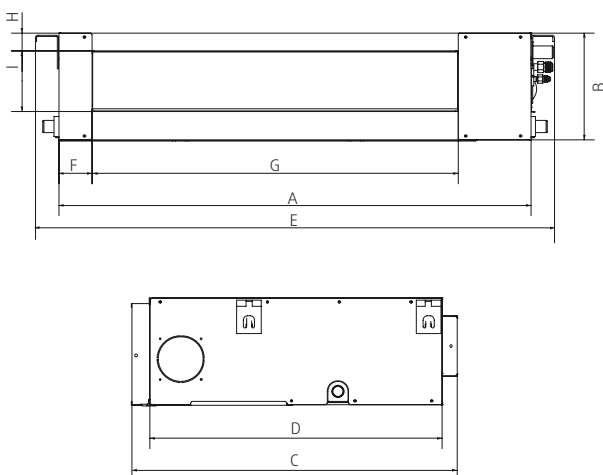
Features

- External static pressure up to 150 Pa.
- All models are equipped with high efficient DC fan motor.
- 7-speed fan control provides an high flexibility in supplying the correct air flow in the room.
- Washable air filter placed in an aluminum frame which is removable downward from the bottom.
- Fresh air hole, air inlet/outlet flange are standard for easy duct connection.
- Air inlet from back as standard and from bottom as optional with the same flange plate.
- Integrated drain pump with a head of 750 mm.
- Electronic expansion valve (EXV) fixed inside of the indoor unit.
- Functional port for remote on/off contact and alarm output.
- Display board with infrared receiver as standard equipment.
- Power supply 50Hz or 60Hz.

Accessories/option

- Infrared remote controller SYS RM 05 with address setting function.
- Wired controller SYS WSC 86 with address setting and Follow me function.
- Wired controller SYS WGC 120 with weekly timer and Group control up to 16 indoor units.

Dimensions



Indoor unit SYSVRF2		DUCT 22 Q	DUCT 28 Q	DUCT 36 Q	DUCT 45 Q	DUCT 56 Q
A	mm	700	700	700	920	920
B	mm	210	210	210	210	210
C	mm	500	500	500	500	500
D	mm	450	450	450	450	450
E	mm	780	780	780	1.000	1.000
F	mm	45	45	45	45	45
G	mm	512	512	512	732	732
H	mm	17	17	17	17	17

Indoor unit SYSVRF2		DUCT 71 Q	DUCT 90 Q	DUCT 112 Q	DUCT 140 Q
A	mm	1.140	1.140	1.140	1.200
B	mm	210	270	270	300
C	mm	500	775	775	865
D	mm	450	710	710	800
E	mm	1.220	1.230	1.230	1.290
F	mm	45	65	65	80
G	mm	732	933	933	969
H	mm	17	35	35	40

Technical features

Model Indoor unit		SYSVRF2	DUCT 22 Q	DUCT 28 Q	DUCT 36 Q	DUCT 45 Q	DUCT 56 Q
Art. no.			316240	316241	316242	316243	316244
Power Supply		V/Ph/Hz	220-240/1/50-60				
Cooling capacity		kW	2,2	2,8	3,6	4,5	5,6
Heating capacity		kW	2,6	3,2	4,0	5,0	6,3
Power Input		W	40	40	45	92	92
Indoor fan motor			DC motor				
Air flow		m³/h	520/480/440/ 400/360/330/300		580/540/500/ 460/430/400/370	800/740/680/ 620/540/480/400	830/760/720/ 680/640/600/560
Sound pressure level		dB(A)	32/31/29/ 28/26/25/23		33/32/31/ 30/28/27/25	36/34/32/ 31/29/27/25	36/34/33/ 32/30/29/28
Sound power level		dB(A)	50/49/47/ 46/44/43/41		51/50/49/ 48/46/45/43	54/52/50/ 49/47/45/43	54/52/51/ 50/48/47/46
External static pressure Rated/Range		Pa	10 / 0-70				
Dimension (LxHxW)		mm	780x210x500			1.000x210x500	
Packing (LxHxW)		mm	870x285x525			1.115x285x525	
Net/gross weight		kg	18/21			21,5/25	
Refrigerant			R410A				
Piping dimension	Liquid pipe	mm (in)	6,4 (1/4")				9,5 (3/8")
	Gas pipe	mm (in)	12,7 (1/2")				15,9 (5/8")
Drain pipe		mm	OD 25				
Operating ambient temp. range		°C	Cooling +17...+32 / Heating +10...+28				

Model Indoor unit		SYSVRF2	DUCT 71 Q	DUCT 90 Q	DUCT 112 Q	DUCT 140 Q
Art. no.			316245	316246	316247	316248
Power Supply		V/Ph/Hz	220-240/1/50-60			
Cooling capacity		kW	7,1	9,0	11,2	14,0
Heating capacity		kW	8,0	10,0	12,5	15,5
Power Input		W	98	120	200	250
Indoor fan motor			DC motor			
Air flow		m³/h	1.000/960/900/ 840/780/720/680	1.260/1.180/1.100/ 1.020/940/860/780	1.500/1.430/1.360/ 1.290/1.210/1.140/1.080	1.960/1.860/1.760/ 1.660/1.560/1.460/1.360
Sound pressure level		dB(A)	37/35/33/ 32/30/29/28	37/35/34/ 33/31/29/28	39/38/38/ 37/35/34/33	41/39/38/ 37/36/35/33
Sound power level		dB(A)	55/53/51/ 50/48/47/46	55/53/52/ 51/49/47/46	57/56/56/ 55/53/52/51	59/57/56/ 55/54/53/51
External static pressure Rated/Range		Pa	10 / 0-70	20 / 10-100		40 / 30-150
Dimension (LxHxW)		mm	1.220x210x500	1.230x270x775		1.290x300x865
Packing (LxHxW)		mm	1.335x285x525	1.355x350x795		1.400x375x925
Net/gross weight		kg	28/32	37/45		46,5/55,5
Refrigerant			R410A			
Piping dimension	Liquid pipe	mm (in)	9,5 (3/8")			
	Gas pipe	mm (in)	15,9 (5/8")			
Drain pipe		mm	OD 25			
Operating ambient temp. range		°C	Cooling +17...+32 / Heating +10...+28			

Operating conditions

	Indoor unit	Outdoor unit	Piping length	Level difference
Cooling mode	27°C DB, 19°C WB	35°C DB	7,5 m	0 m
Heating mode	20°C DB, 15°C WB	7°C DB	7,5 m	0 m

The sound pressure value may vary depending on ambient conditions.

High Static Pressure Duct Indoor Unit

SYSVRF2 DUCT HP 112-280 Q



Infrared remote controller
SYS RM 05
Art. no. 316260
(optional)



Wired controller
SYS WSC 86
Art. no. 316262
(optional)



Wired controller
SYS WGC 120
Art. no. 316261
(optional)

Features

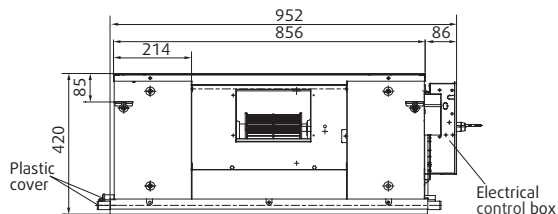
- External static pressure up to 250 Pa.
- Washable air filter placed in an aluminum frame which is removable downward from the bottom. Easy access both in rear and bottom.
- Fresh air hole, air inlet/outlet flange are standard for easy duct connection.
- All models are equipped with high efficient DC fan motor.
- 7-speed fan control provides an high flexibility in supplying the correct air flow in the room.
- The electronic expansion valve (EXV) ensures precise refrigerant flow control.
- Functional port for remote on/off contact and alarm output.
- Display board with infrared receiver as standard equipment.
- Power supply 50Hz or 60Hz.

Accessories/option

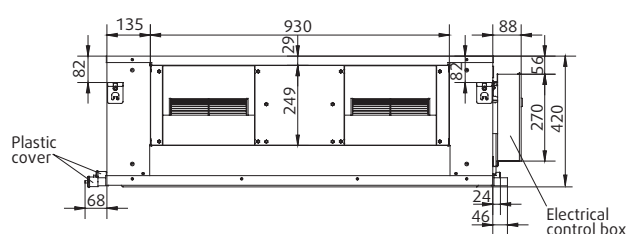
- Infrared remote controller SYS RM 05 with address setting function.
- Wired controller SYS WSC 86 with address setting and Follow me function.
- Wired controller SYS WGC 120 with weekly timer and Group control up to 16 indoor units.

Dimensions

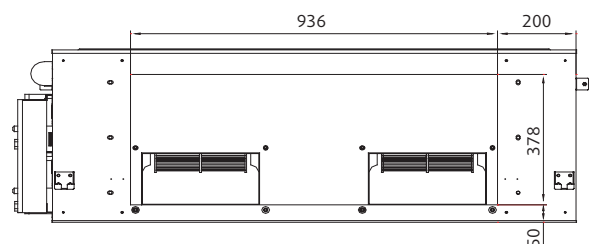
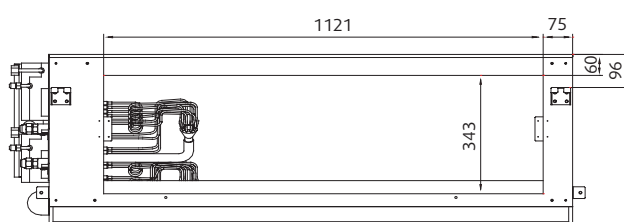
SYSVRF2 DUCT HP 112 Q



SYSVRF2 DUCT HP 140 Q



SYSVRF2 DUCT HP 200/280 Q



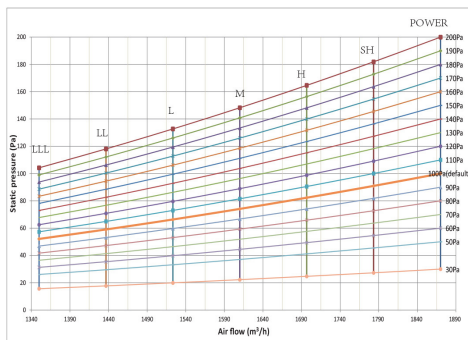
Technical features

Model Indoor unit		SYSVRF2	DUCT HP 112 Q	DUCT HP 140 Q	DUCT HP 200 Q	DUCT HP 280 Q
Art. no.			316249	316250	316251	316252
Power Supply		V/Ph/Hz	220-240/1/50-60			
Cooling capacity		kW	11,2	14,0	20,0	28,0
Heating capacity		kW	12,5	16,0	22,5	31,5
Power Input		W	380	420	990	1.200
Indoor fan motor			DC motor			
Air flow		m³/h	1.870/1.780/1.695/ 1.610/1.520/1.440/1.350	2.240/2.130/2.030/ 1.920/1.810/1.710/1.600	4.330/4.230/4.130/ 4.030/3.930/3.835/3.745	
Sound pressure level		dB(A)	50/50/49/ 48/47/46/45	53/52/51/ 51/50/49/48	57/56/55/ 54/53/52/50	
Sound power level		dB(A)	68/68/67/ 66/65/64/63	71/70/69/ 69/68/67/66	75/74/73/ 72/71/70/68	
External static pressure Rated/Range		Pa	100 / 30~200		170 / 20~250	
Dimension (LxWxH)		mm	965x690x423	1.322x691x423	1.454x931x515	
Packing (LxWxH)		mm	1.090x768x440	1.436x768x450	1.509x990x550	
Net/gross weight		kg	51/57	63/70	130/142	
Refrigerant			R410A			
Piping dimension	Liquid pipe	mm (in)	9,5 (3/8")		12,7 (1/2")	
	Gas pipe	mm (in)	19,1 (3/4")		22,2 (7/8")	
Drain pipe		mm	25		32	
Operating ambient temp. range		°C	Cooling +17...+32 / Heating +10...+28			

Fan performance

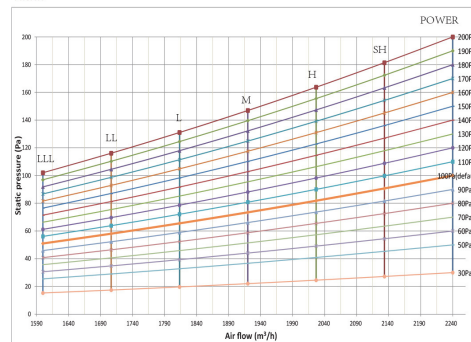
SYSVRF2 DUCT HP 112 Q

11.2KW

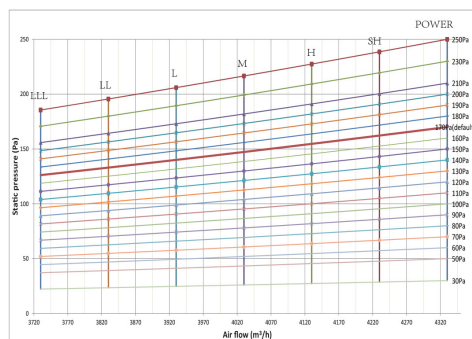


SYSVRF2 DUCT HP 140 Q

14.0KW



SYSVRF2 DUCT HP 200 Q - 280 Q



Operating conditions

	Indoor unit	Outdoor unit	Piping length	Level difference
Cooling mode	27°C DB, 19°C WB	35°C DB	7,5 m	0 m
Heating mode	20°C DB, 15°C WB	7°C DB	7,5 m	0 m

The sound pressure value may vary depending on ambient conditions.

Exposed floor Indoor Unit

SYSVRF2 FLOOR EB 22-80 Q



Infrared remote controller
SYS RM 05
Art. no. 316260
(optional)



Wired controller
SYS WSC 86
Art. no. 316262
(optional)



Wired controller
SYS WGC 120
Art. no. 316261
(optional)

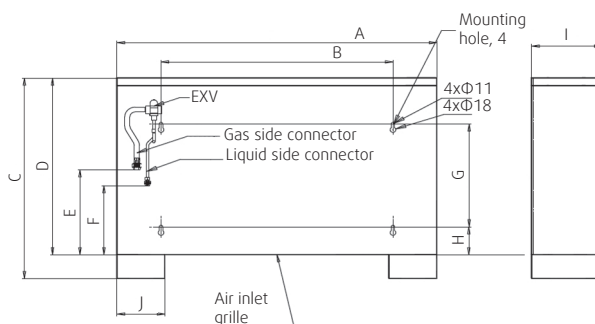
Features

- With 220 mm of depth and 677 mm of height, the unit perfectly fits any interior design.
- All models are equipped with high efficient DC fan motor.
- 7-speed fan control provides an high flexibility in supplying the correct air flow in the room.
- Washable air filter included.
- Built-in electronic expansion valve (EXV) ensuring precise refrigerant flow control.
- Functional port for remote on/off contact and alarm output.
- Infrared receiver as standard equipment.
- Power supply 50Hz or 60Hz.

Accessories/option

- Infrared remote controller SYS RM 05 with address setting function.
- Wired controller SYS WSC 86 with address setting and Follow me function.
- Wired controller SYS WGC 120 with weekly timer and Group control up to 16 indoor units.

Dimensions



Indoor unit SYSVRF2		FLOOR EB 22 Q	FLOOR EB 28 Q	FLOOR EB 36 Q	FLOOR EB 45 Q	FLOOR EB 56 Q	FLOOR EB 71 Q	FLOOR EB 80 Q
A	mm	1.000		1.200			1.500	
B	mm	725		925			1.225	
C	mm				677			
D	mm				592			
E	mm	284				310		
F	mm	232				258		
G	mm				345			
H	mm	94		100			100	
I	mm				220			
J	mm				150			

Technical features

Model Indoor unit			SYSVRF2	FLOOR EB 22 Q	FLOOR EB 28 Q	FLOOR EB 36 Q	FLOOR EB 45 Q
Art. no.				316293	316294	316295	316296
Power Supply		V/Ph/Hz	220-240/1/50-60				
Cooling capacity		kW	2,2	2,8	3,6	4,5	
Heating capacity		kW	2,6	3,2	4,0	5,0	
Power Input		W	40	45	55	60	
Indoor fan motor			DC motor				
Air flow		m³/h	530/500/480/ 460/440/420/400	570/540/515/ 485/460/440/420	620/590/660/ 520/470/420/375	660/625/580/ 540/500/475/440	
Sound pressure level		dB(A)	36/35/34/ 33/31/30/29	36/35/34/ 33/31/30/29	37/36/35/ 34/32/31/30	37/36/35/ 34/32/31/30	
Sound power level		dB(A)	54/53/52/ 51/49/48/47	54/53/52/ 51/49/48/47	55/54/53/ 52/51/49/48	55/54/53/ 52/51/49/48	
Dimension (LxWxH)		mm	1.000×677×220			1.200×677×220	
Packing (LxWxH)		mm	1.182×683×312			1.382×683×312	
Net/gross weight		kg	28/35			33/41	
Refrigerant			R410A				
Piping dimension	Liquid pipe	mm (in)	6,35 (1/4")				
	Gas pipe	mm (in)	12,7 (1/2")				
Drain pipe		mm	16				
Operating ambient temp. range		°C	Cooling +17...+32 / Heating +10...+28				

Model Indoor unit		SYSVRF2	FLOOR EB 56 Q	FLOOR EB 71 Q	FLOOR EB 80 Q
Art. no.			316297	316298	316299
Power Supply		V/Ph/Hz	220-240/1/50-60		
Cooling capacity		kW	5,6	7,1	8,0
Heating capacity		kW	6,3	8,0	9,0
Power Input		W	88	110	130
Indoor fan motor			DC motor		
Air flow		m³/h	1.150/1.090/1.030/ 970/925/890/830	1.380/1.290/1.205/ 1.100/1.030/955/870	1.380/1.290/1.205/ 1.100/1.030/955/870
Sound pressure level		dB(A)	41/39/37/ 35/33/32/31	44/42/40/ 39/37/35/33	44/42/40/ 39/37/35/33
Sound power level		dB(A)	59/57/55/ 53/51/50/49	62/60/58/ 57/55/53/51	62/60/58/ 57/55/53/51
Dimension (LxWxH)		mm	1.500×677×220		
Packing (LxWxH)		mm	1.682×683×312		
Net/gross weight		kg	40/49		42/50
Refrigerant			R410A		
Piping dimension	Liquid pipe	mm (in)	9,5 (3/8")		
	Gas pipe	mm (in)	15,9 (5/8")		
Drain pipe		mm	16		
Operating ambient temp. range		°C	Cooling +17...+32 / Heating +10...+28		

Operating conditions

	Indoor unit	Outdoor unit	Piping length	Level difference
Cooling mode	27°C DB, 19°C WB	35°C DB	7,5 m	0 m
Heating mode	20°C DB, 15°C WB	7°C DB	7,5 m	0 m

The sound pressure value may vary depending on ambient conditions.

Communication Kit for AHUs and Air-curtains SYSVRF AHU



Features

The SYSVRF AHU 5HP, 10HP and 20HP can be used to connect the SYSVRF outdoor units to an external DX coil with capacity from 9 kW to 56 kW.

- Nominal capacity in cooling 14kW (5HP), 28kW (10HP) and 56kW (20HP).
- Modulating cooling/heating capacity thanks to the built-in Electronic Expansion Valve (EXV) controlled by the superheat degree of the DX coil.
- The SYSVRF AHU kit includes four temperature sensors, one for the air intake of the AHU and three for a precise monitoring of the DX evaporator coil.
- With the 2nd generation it is possible to connect in parallel up to 4 AHU boxes with Master-Slave configuration thus reaching a total capacity of 224kW in a single refrigerant circuit.
- For indoor installation in vertical position.



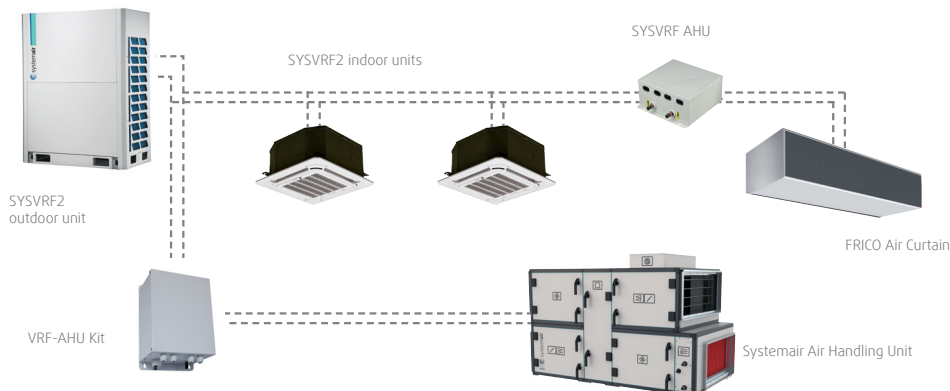
Wired controller
SYS WC 29
(standard)



Infrared remote controller
SYS RM 05
Art. no. 316260
(optional)

- Failure alarm codes on the PCB for quick service checking.
- Environment friendly R410A refrigerant.
- Connection to Systemair network monitoring system.
- Wired controller SYS WC 29 as standard equipment.
- Power supply 50Hz or 60Hz.

Connection diagram



Technical features

Model AHU box (1 st generation)		SYSVRF AHU 5HP	SYSVRF AHU 10HP	SYSVRF AHU 20HP
Model AHU box (2 nd generation)		SYSVRF AHU 5HP S	SYSVRF AHU 10HP S	SYSVRF AHU 20HP S
Art. no. (1st generation)		314188	314189	314190
Art. no. (2nd generation)		313395	313396	313397
Power supply	V/Ph/Hz	220-240/1/50, 208-230/1/60		
DX coil capacity	kW	9-20	20-36	36-56
Air volume	m ³ /h	1.400-4.300	3.000-7.700	5.400-12.000
Dimensions (LxWxH)	mm	375x350x150		
Packing (LxWxH)	mm	490x240x420		
Piping diameters in/out	mm	8/8	12,7/12,7	16/16
IP-class		IP X0		
Air return temperature range	°C	Cooling +17 ... +43 / Heating -5 ... +30 / 80% / humidity		

Communication Kit for AHUs

VRF-AHU Kit

Features

The VRF-AHU Communication kit allows demand-oriented performance requirements of the Systemair VRF outdoor units. Thus, it always ensures correct temperature in summer and winter provided by the air handling unit

- Communication through a 0-10 V signal and digital output signals of the operation mode
- White metal housing that contains a board and an electronic injection valve.
- Designed for indoor installation.
- Scope of delivery: 2 temperature sensors with a cable length of 3 meters for on-site installation.
- Easy commissioning thanks to the LED display operation, LEDs and DIP switches, which can be used to set the connected cooling capacity and bus address.
- Single or multi connection possible. Up to 3 kits can be integrated in one VRF system.
- Electronic expansion valve pre-connected to the control board.
- For use with Systemair 2-pipe VRF and Mini VRF
- Removable connection clamps



Connection diagram



Technical features

VRF-AHU Kit		7-14	16-26	28-56
Art. no.		315604	315605	315606
Power supply	V / Ph / Hz	230 / 1 / 50		
DX Coil capacity	kW	7 - 14	16 - 26	28 - 56
Dimension (L x W x H)	mm	130 x 248 x 350		
IP class		IP X0		
Piping diameter in/out	mm	8/8	12,7/12,7	16/16
Weight	kg	4,5		
Air return temperature range	°C	Cooling +17...+43 / Heating -5...+30		
Communication Signals				
Cooling mode	DI	Potential free contact must be provided by the controller of the air handling unit		
Heating mode	DI	Potential free contact must be provided by the controller of the air handling unit		
Defrost	DO	5 A – 250 VAC / 30 VDC		
Alarm	DO	5 A – 250 VAC / 30 VDC		
Capacity steps				
Demand control	AI	0 - 0.5 V, 0 % capacity (unit stopped)		
		0.5 - 1.5 V, 10 % capacity		
		1.5 - 2.5 V, 20 % capacity		
		...		
		9.5 - 10.5 V, 100 % capacity		

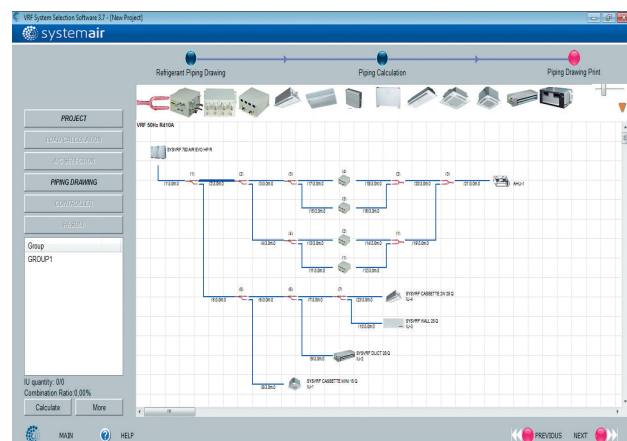
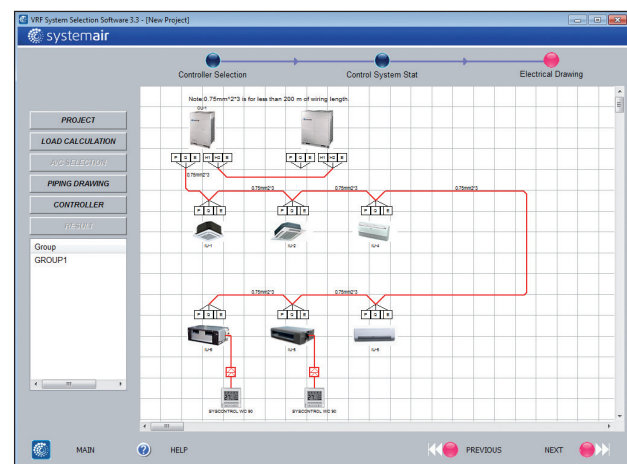
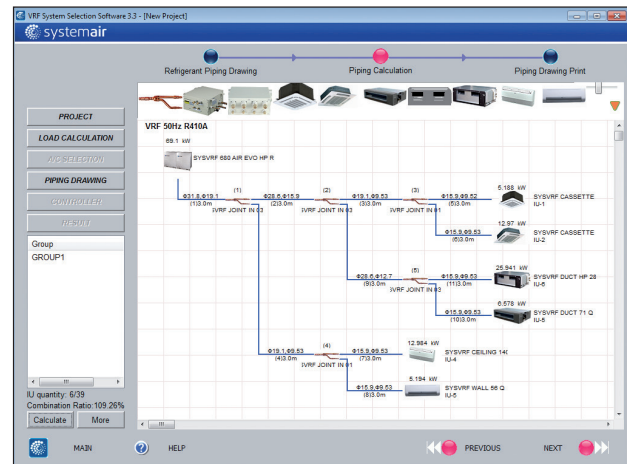
SYSVRF selection and designing software

Selection and designing software for all SYSVRF systems, 2-pipe, 3-pipe and Mini-VRF.



Main tasks:

- Selection of the necessary cooling /heating capacity, type and location of outdoor and indoor units.
- Calculation of the refrigerant piping diameters and the required additional amount of refrigerant.
- Selection of an optimal set of piping joints.
- Building Management System.
- Correction of the performance of indoor units.
- Automatic check of the circuit for compliance requirements and limits on the maximum length of refrigerant pipelines and indoor-outdoor elevations.
- Conclusion of project documentation - specification (Excel), a detailed specification with the drawings (Word), and print out of all documents.
- Selection of the DX-coil connected to the SYSVRF AHU box.
- Export of piping and wiring diagram to CAD.





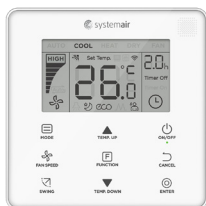
SYSVRF Control systems



Infrared Remote Controller SYS RM 05, Art. no. 316260

Main functions:

- Setting mode Cool/Heat/Auto/Dry/Fan
- Temperature setting (0,5 or 1°C steps)
- 7-speed fan control
- Auto swing/ 5-step swing louver
- Address setting
- 24h On/Off timer
- Eco mode
- Night silent mode
- Display shut-off of indoor unit
- Keyboard lock
- LCD backlight
- Dimensions (HxWxD) mm: 150x65x20
- Batteries: 1,5V (LR03/AAA) x2



Wired Single Controller with touch-key buttons SYS WSC 86, Art. no. 316262

Main functions:

- Setting mode Cool/Heat/Auto/Dry/Fan
- Temperature setting (0,5 or 1°C steps)
- Dual temperature set-point
- 7-speed fan control
- Auto swing/ 5-step swing louver
- Eco mode
- Room temperature display
- 24h On/Off timer
- Main or secondary controller setting
- 2way communication
- Silent mode operation
- Indication of air filter cleaning
- Follow me function
- IR signal receiver for the infrared remote controller
- Setting the address of indoor units
- Auto restart
- Error check function
- System parameter querying
- System setting control
- Dimensions (HxWxD) mm: 86x86x18
- Power supply: 5V DC



Wired Group Controller with touch-key buttons SYS WGC 120, Art. no. 316261

Along with the features of SYS WSC 86, it offers:

- Keyboard lock
- Weekly timer schedule
- 2 permission levels: admin and users
- Group control up to 16 indoor units
- Extension overtime function by 1 or 2 hours
- Clock display
- Dot matrix display
- Dimensions (HxWxD) mm: 120x120x20
- Power supply: 18V DC



Central Wired Controller with touch-key buttons SYS CWC 30, Art. no. 314773

The centralized remote controller is intended to control a group of indoor units (up to 64 indoor units).

Main functions:

- Setting mode Cool/Heat/Auto/Dry/Fan
- Temperature setting
- Fan speed selection High/Medium/Low/Auto
- Air swing function
- 24h On/Off timer
- Silent mode operation
- Locking the controller buttons
- Indication of air filter cleaning
- Turn on/off the LCD backlight
- Power supply: 220V AC (50-60 Hz)

The centralized controller allows to set all operating parameters for each indoor unit separately or for a group of indoor units at the same time.



Central Wired Controller with 6inch touch screen **SYS CWC TOUCH 6.2, Art. no. 316263**

The centralized remote controller SYS CWC TOUCH 6.2 is intended to control a big number of units, up to 64 indoor units and 32 outdoor units, connected in max 8 refrigerant systems.

Main functions:

- 6.2 inch touch screen
- Setting mode Cool/Heat/Auto/Dry/Fan
- Temperature setting (0,5 or 1°C steps)
- Dual temperature set-point
- 7-speed fan control
- Auto swing/ 5-step swing louver
- Eco mode of outdoor unit
- Holiday setting
- Schedule management, daily, weekly or annual
- 2 permission levels: admin and users
- Extension overtime function by 1 or 2 hours
- Energy management for limiting or locking indoor unit's parameters
- Group management
- Error check function
- System parameter querying
- USB output for errors
- Dimensions (HxWxD) mm: 182x123x34
- Power supply: 12V DC



Central Wired Controller with 10inch touch screen **SYS CWC IMS 10.1, Art. no. 316264**

The centralized remote controller SYS CWC IMS 10.1 is intended to control a large number of systems, up to 384 indoor units and 192 outdoor units, connected in max 48 refrigerant systems.

Along with the features of SYS CWC TOUCH 6.2, it offers:

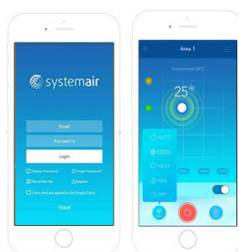
- 10.1 inch touch screen
- Electricity charge distribution among building occupants
- Visual schematic of floor plans
- Operation log
- USB output for errors, operation record, electricity consumption report
- LAN access browser-based for connection of remote PC /laptop
- Can work as gateway for the software of IMS PRO
- Dimensions (HxWxD) mm: 270x183x27
- Power supply: 24V AC



Data Converter **SYS CWC 15, Art. no. 317151**

Provides the ability to manage the indoor units from a PC, tablet or smartphone and other intelligent terminals (up to 64 indoor units).

- Provides data conversion between the protocols TCP/IP and RS485.
- Provides a TCP / IP port for accessing WEB/HTTP/TCP/IP.
- Built-in web server allows you to organize access through the cloud service.
- The user receives access to the SYSVRF2 system management through LAN and WAN.



The user can check and set the following functions: On/Off, setting temperature, operating mode and fan speed. Allows individual and group control, indicates the status of each indoor unit, setting weekly timer, lock the operating parameters and the remote controller, provides the list of error codes.

Central management IMS PRO (Intelligent Manager of Systemair)

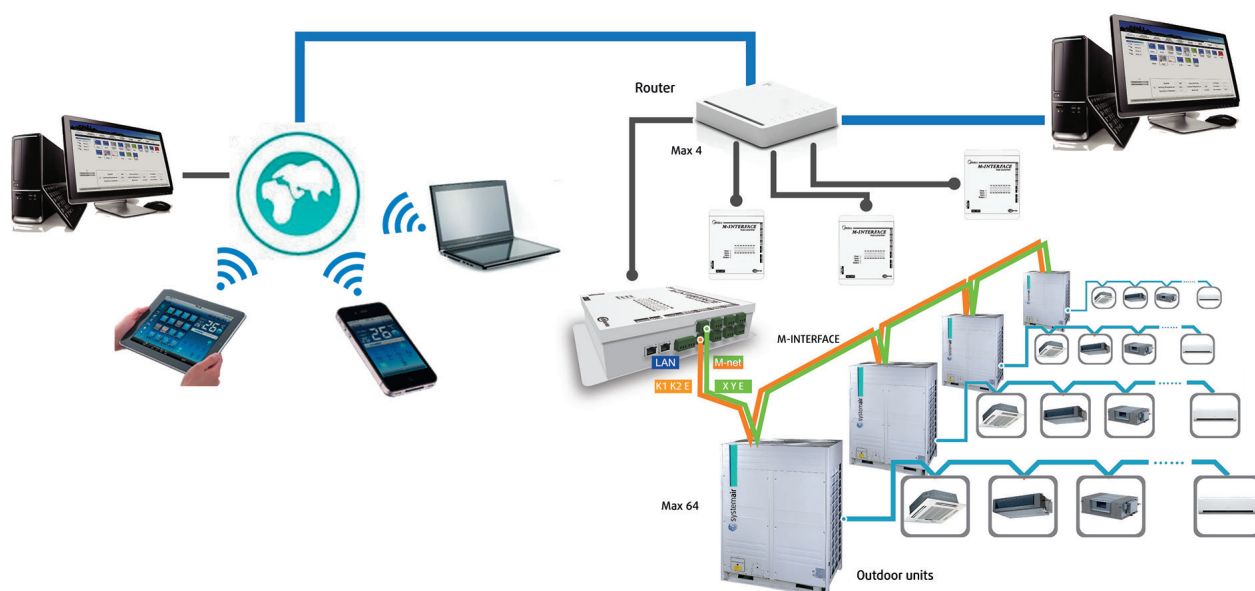
The system provides full control of the SYSVRF system, as well as monitoring of all relevant operating parameters. It can manage up to 2560 indoor units and up to 1280 outdoor units connected in max 320 refrigerant systems.

The main elements of a centralized control system:

- Interface unit (gateway) SYS GW IMS BAC, Art. 317156.
The system allows the connection of up to 10 interface blocks. A gateway is designed to operate with 32 refrigerant systems (256 indoor units and 128 outdoor units).
- Software SYS SW IMS PRO, Art. no. 316269.
The remote control of the SYSVRF installation can be performed from a PC, tablet, mobile phone and other intelligent terminals. The module is compatible with complex building management systems (BMS).
- Router connection interface units and communication networks (not supplied by SYSTEMAIR).

Main functions:

- Individual control with system blocks: switching modes, setting temperatures, lock local controllers.
- User can set limits to any parameter of indoor unit, such as cooling/heating temperature set-point, fan speed, operating mode, etc...
- Simple schedule control, automatically performs facility start/stop control, switches the operating mode, sets temperatures and enabling/disabling the remote control according to the present time schedule.
- Electricity charge apportionment can be performed easily for the power consumed, when billing users for air conditioning power charges, such as tenants in a commercial building, offices in a rental building, or rooms in a hotel.
- Automatic backup web-gateway to SD-card in the event of failures of the power supply or system fault. Storing data on a hard disk in the last three months.
- Indication of filter cleaning.
- Fault and reported them to mobile communications.
- Emergency stop function and connection to external signals through contacts.



Maximum:

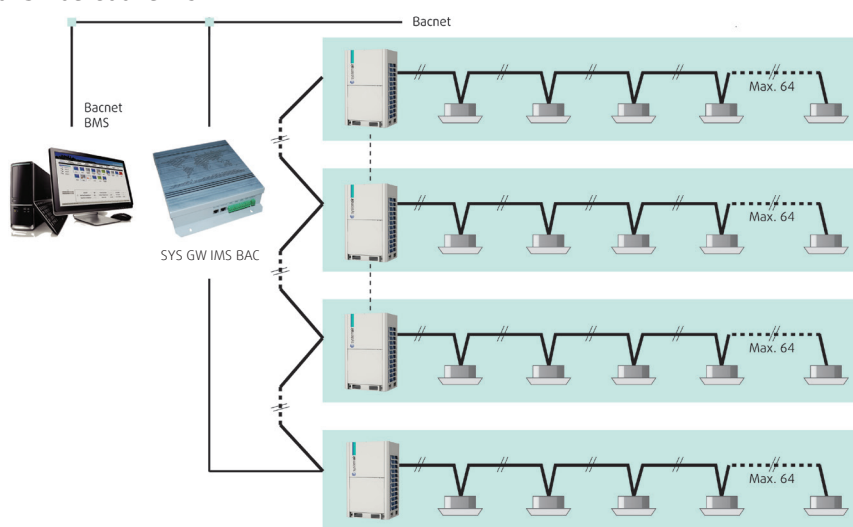
- 2560 indoor units;
- 1280 outdoor units;
- 320 independent refrigerant circuits.

Connection to an integrated building management system (BMS)

SYSVRF systems can be integrated into a comprehensive building management system (BMS) using all most popular protocols: Bacnet, Modbus and LonWorks.

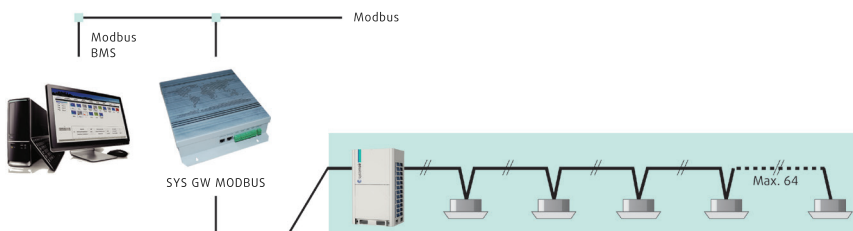
Gateway Bacnet SYS GW IMS BAC, Art. 317156

One gateway SYS GW IMS BAC can connect up to four master outdoor units XYE port. Each port can contain a maximum of 64 indoor units or 32 outdoor units.



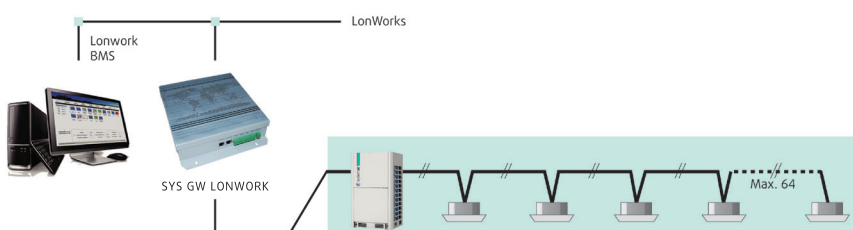
Gateway Modbus SYS GW MODBUS, Art. no. 316266

One gateway SYS GW MODBUS can connect directly up to 64 indoor units and 4 outdoor units connected in 1 refrigerant system.



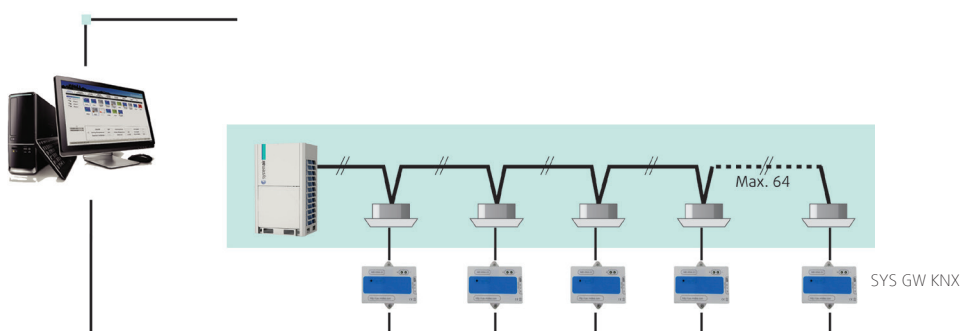
Gateway Lonwork SYS GW LONWORK, Art. no. 316267

One gateway SYS GW LONWORK can connect directly up to 64 indoor units and 32 outdoor units connected in 8 refrigerant systems.



Gateway SYS GW KNX, Art. no. 316957

The gateway SYS CWC KNX should be connected directly to the indoor unit.



Controller matching table - VRF indoor units

	Infrared controller SYS RM 05	Wired controller SYS WSC 86	Wired controller SYS WGC 120	Remote On/Off with adaptor wire	Alarm contact with adaptor wire
Art. no.	316260	316262	316261	standard in the PCB	standard in the PCB
SYSVRF2					
WALL 22-90	○	○	○	●	●
CASSETTE MINI 22-45	○	○	○	●	●
CASSETTE 56-140	○	○	○	●	●
CASSETTE 1W 22-36	○	○	○	●	●
CEILING 36-140	○	○	○	●	●
DUCT 22-140	○	○	○	●	●
DUCT HP 112-280	○	○	○	●	●
FLOOR EB 22-80	○	○	○	●	●

●= included in the unit; ○= optional part.

	Central controller SYS CWC 30	Central controller SYS CWC TOUCH 6.2	Data converter SYS CWC 15	BMS gateway SYS GW IMS BAC / MODUBUS/ LONWORK / KNX	Central controller SYS CWC IMS 10.1	Intelligent Man- ager of Systemair SYS GW IMS BAC SYS SW IMS PRO
Art. no.	314773	316263	317151	317156 / 316266 / 316267 / 316957	316264	317156 + 316269
SYSVRF2						
WALL 22-90	○	○	○	○	○	○
CASSETTE MINI 22-45	○	○	○	○	○	○
CASSETTE 56-140	○	○	○	○	○	○
CASSETTE 1W 22-36	○	○	○	○	○	○
CEILING 36-140	○	○	○	○	○	○
DUCT 22-140	○	○	○	○	○	○
DUCT HP 112-280	○	○	○	○	○	○
FLOOR EB 22-80	○	○	○	○	○	○

●= included in the unit; ○= optional part.

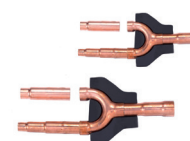
Piping joints for 2-pipe refrigerant system

SYSVRF JOINT



Outdoor unit

Model	Art. no.	Packing LxWxH (mm)	Gross weight (kg)	Use
SYSVRF2 JOINT OUT 02 HP	316270	255x150x185	1,5	Connect two outdoor units of SYSVRF2 AIR EVO HP R series
SYSVRF2 JOINT OUT 03 HP	316271	345x160x285	3,4	Connect three outdoor units of SYSVRF2 AIR EVO HP R series



Indoor unit

Model	Art. no.	Packing LxWxH (mm)	Gross weight (kg)	Use
SYSVRF JOINT IN 01 2P	314149	290x105x100	0,4	For 2-pipe and 3-pipe systems after the SYSVRF BOX
SYSVRF JOINT IN 02 2P	314150	290x105x100	0,6	For 2-pipe and 3-pipe systems after the SYSVRF BOX
SYSVRF JOINT IN 03 2P	314151	310x130x125	0,9	For 2-pipe and 3-pipe systems after the SYSVRF BOX
SYSVRF JOINT IN 04 2P	314152	350x180x170	1,5	For 2-pipe and 3-pipe systems after the SYSVRF BOX
SYSVRF JOINT IN 05 2P	314153	365x195x215	1,9	For 2-pipe and 3-pipe systems after the SYSVRF BOX
SYSVRF JOINT IN 06 2P	314154	390x230x255	3,1	For 2-pipe and 3-pipe systems after the SYSVRF BOX
SYSVRF JOINT IN 07 2P	316272	390x230x255	3,4	For 2-pipe and 3-pipe systems after the SYSVRF BOX

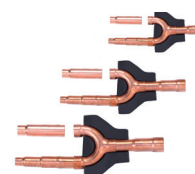
Piping joints for 3-pipe refrigerant system

SYSVRF JOINT



Outdoor unit

Model	Art. no.	Packing LxWxH (mm)	Gross weight (kg)	Use
SYSVRF JOINT OUT 02 HR	314155	272x167x232	2,2	Connect two outdoor units of SYSVRF AIR EVO HR R series
SYSVRF JOINT OUT 03 HR	314156	472x157x312	5,0	Connect three outdoor units of SYSVRF AIR EVO HR R series
SYSVRF JOINT OUT 04 HR	314184	745x160x335	7,5	Connect four outdoor units of SYSVRF AIR EVO HR R series



Indoor unit

Model	Art. no.	Packing LxWxH (mm)	Gross weight (kg)	Use
SYSVRF JOINT IN 01 3P	314157	257x127x107	0,8	For 3-pipe systems before the SYSVRF BOX
SYSVRF JOINT IN 02 3P	314158	287x137x107	0,9	For 3-pipe systems before the SYSVRF BOX
SYSVRF JOINT IN 03 3P	314159	297x167x177	1,4	For 3-pipe systems before the SYSVRF BOX
SYSVRF JOINT IN 04 3P	314160	372x197x187	2,3	For 3-pipe systems before the SYSVRF BOX
SYSVRF JOINT IN 05 3P	314185	432x222x227	3,3	For 3-pipe systems before the SYSVRF BOX

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