

VITOClima 444-S
ALL DC Inverter
VRF Air Conditioning Systems

VIESSMANN



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Being a family-owned company, Viessmann has been committed to providing heat for three generations in a comfortable, economical and environment-friendly way and to make it available for use in line with the requirements.

Leading innovativeness

With excellent product improvement and solution opportunities, Viessmann has always taken big steps to position itself as a technological leader and pioneer within the industry.

High Quality

Selected production methods of using special raw materials according to the place of use, play a major role in high quality of Viessmann products. The high quality of Viessmann is based on the advanced competence of Viessmann employees who are well-versed in their respective fields, and on the perfectionism that is essential for Viessmann.

International Network

Viessmann is present in 78 countries through the network of 120 sales centres and 27 production centres in Germany, Austria, Switzerland, France etc.

Reliable Partnership

Viessmann has been selected as a leading company for many years, in a large scale biennial survey among thousands of companies specializing in heating in Germany, and has maintained its leadership in the industry for the last 27 years.

In addition to the satisfaction by Viessmann products, the survey criteria include appreciation for the service program that significantly simplifies daily lives of its customers.

The continuous improvement in the Viessmann Academy along with the technical support provided by expert consultants, comprehensive software presentation, advertising and sales support also play a major role. Thanks to the comprehensive information technology, which constitutes an integral part of the service satisfaction, the orders are available on the Internet in about an hour.

Strong Brand

Advertising and public relations allow the company to generate a clear profile. The visual identity of the company is determined by the philosophy of practicality and simplicity. Sports sponsorship, advertisements and sales support actions are carried out not only to increase brand recognition, but also to reinforce the positive image of the company. Strong brands are always well positioned in the market, with partners who continuously make profit.

Responsibility, Integrity and Efficiency

Viessmann's core values are its responsibility towards the environment and society, its strong communication with its employees and business partners, its striving for excellence and its high efficiency in all business processes. Offer of exclusive benefits and added value of a strong brand to its customers, through its products and values, is a common feature of each Viessmann employee and therefore also a feature of the company.

Experience in Air Conditioning

Viessmann guarantees that Vitoclima products in Serbia, Montenegro, Northern Macedonia, Albania and Kosovo* are in line with the company's experience in air conditioning.

Within its air conditioning program, Viessmann provides optimal solutions for all needs by Vitoclima air conditioning types 200-S/HE with the capacity range from 2,6 kW to 7 kW, Vitoclima 300-S/HE Free Joint multiple system air conditioners, where one outdoor unit can be connected to up to 5 indoor units and Vitoclima 444-S ALL DC Inverter VRF air conditioning systems.



New series Vitoclima ALL DC Inverter VRF air conditioning systems are designed for energy saving optimization, uninterrupted comfort in operation and ease of using control systems

Advantages of Vitoclima 444-S system:

Efficiency

- Specially developed DC inverter compressor with 3% better compression on the high pressure side than on the low pressure side
- Minimum power consumption in the compressor and maximally improved compression control. By minimizing losses, a high degree of efficiency is obtained.
- Increased energy efficiency by optimizing the fan motor frequency (5 Hz to 65 Hz)

Comfort

- The system automatically switches to low sound level mode at night and guarantees comfort of the user.
- With the newly developed outdoor unit fan shape, sound level has been reduced about 3 dB(A).

Performance

- The use of double oil separation technology provides a total of 99.9% oil separation efficiency. Compressor performance increases.
- Improvement in oil return control extends the life of the compressor.
- With sub-cooling technology, the capacity drop is minimized and optimal heating and cooling is ensured.
- Anticorrosive gold fin provides long life of outdoor units.

User-friendliness

- The possibility of individual control for the climate zone provides economical operation.
- In the event of a failure of the module, compressor or fan of the outdoor unit, the "emergency" operation function is activated and it ensures continuous safe operation of the air conditioner.
- In addition to simple individual controls, we also offer flexible solutions for each individual project with different central control options.
- Possibility to change languages provides faster communication.

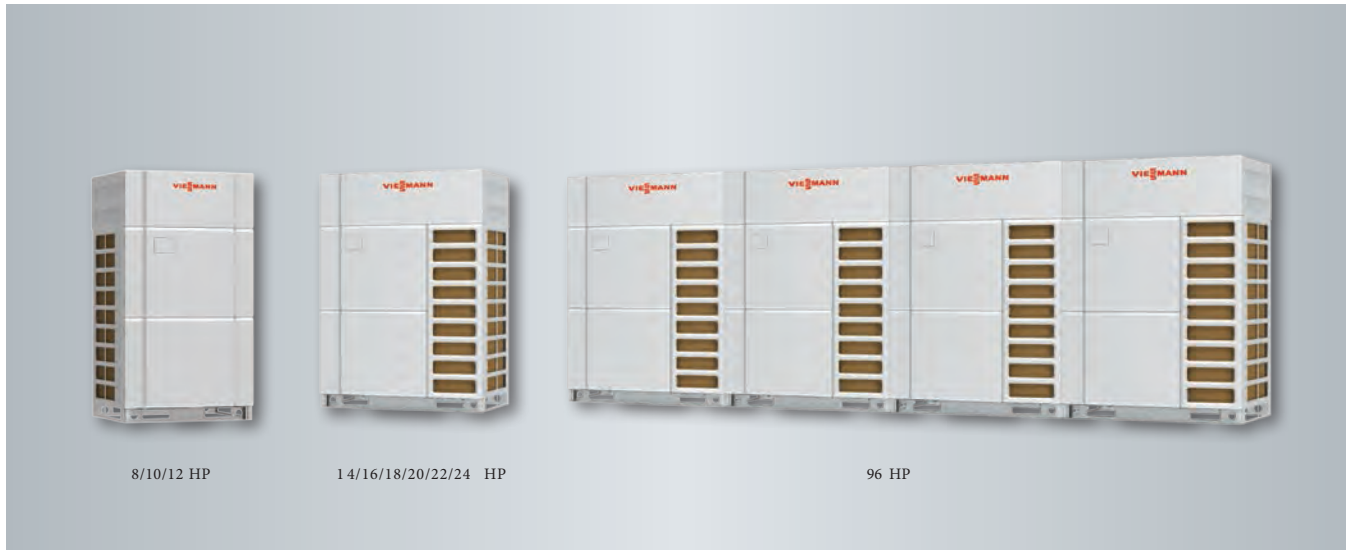
Installation

- Vitoclima VRF air conditioners can be easily installed in all types of buildings. An external static pressure of 110 Pa allows the installation of outdoor units in partially enclosed spaces. In this way, a better visual effect of the building's facade is created .
- Flexibility in design is provided by the possibility of pipeline installation of 1000m in length. The actual length of the pipe between the outdoor unit and the indoor unit at the farthest distance from the outdoor unit is 200 m, the level difference between the indoor units is 40 m, and the level difference between the indoor units and the outdoor unit is 110 m.
- Equipment and tools for detecting faults, malfunctions and commissioning ensure easy installation and fast commissioning of the system.
- Special hotel controller provides easy and economical use in hotels with dry contact and seasonal settings.

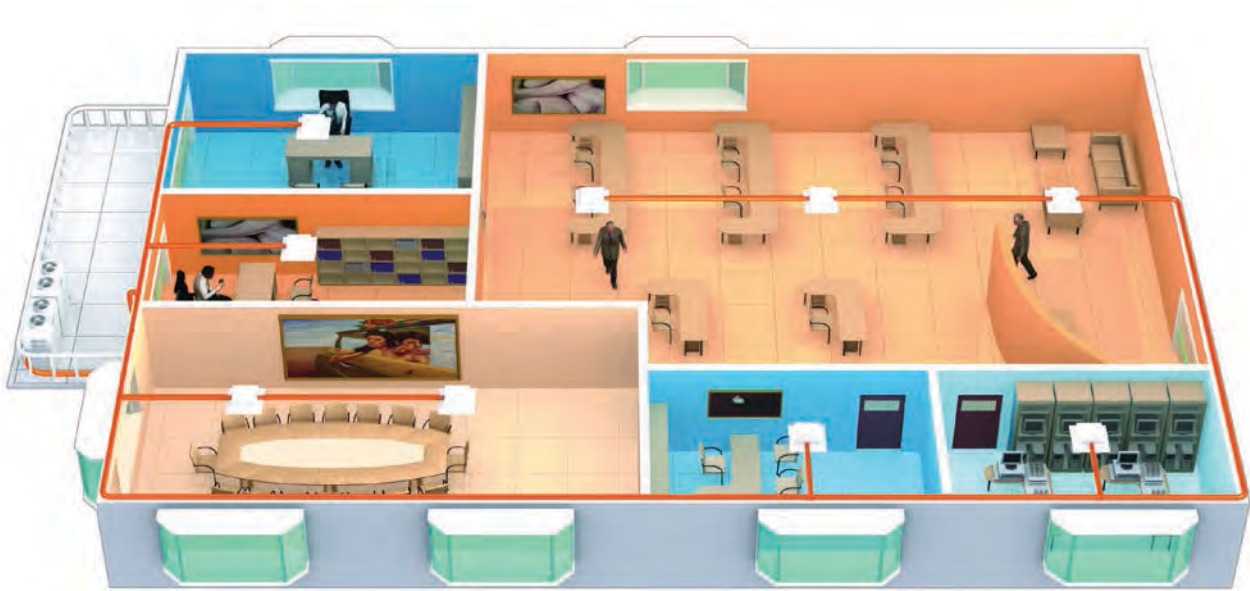
Design

- There are 8 outdoor units from 8HP to 22HP and these outdoor units permit many combinations. Maximum combination capacity is 96 HP.
- 100 units can be connected to one outdoor unit
- The compact design allows the outdoor unit module to be carried by elevator.
- Operation outdoor temperature limits:
Cooling -5 °C~55 °C
Heating -30 °C~24 °C





Wide product range and the possibility of flexible combination of some of 9 outdoor units from 8 HP to 24 HP in one system, make it possible to reach the capacity of 96 HP



8 -100 indoor units can be connected to a single outdoor unit. It provides the optimal solution for projects requiring multiple indoor unit applications such as hotels and offices.

Vitoclima ALL DC INVERTER

Cooling capacity: 8 HP - 96 HP

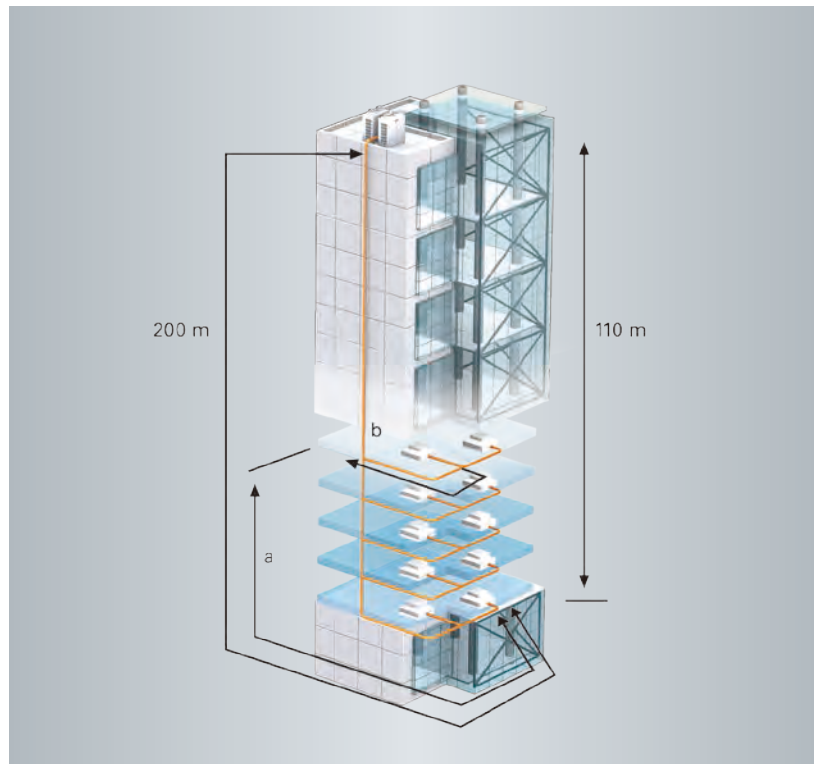
Vitoclima VRF air conditioning systems offer flexible installation thanks to extended pipeline

- The longest height difference between the outdoor and indoor unit is maximally 110m
- The maximal total length of the pipe is 1000 m (with restrictions included).
- The longest distance between the outdoor and indoor unit is 200m.
- The height difference between the indoor units is maximally 40m.
- The maximal length of the pipe after the first branch duct is 120m.

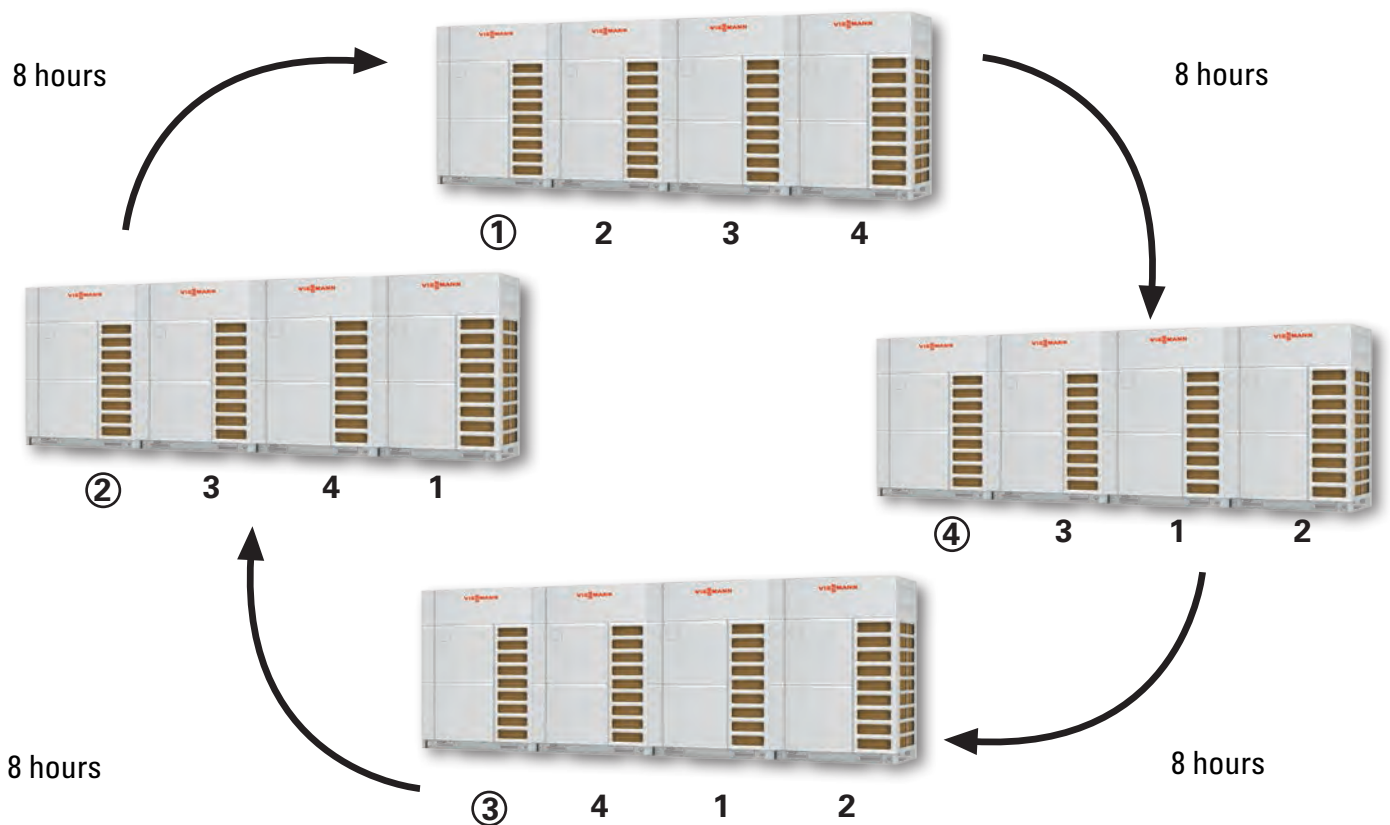
Note:

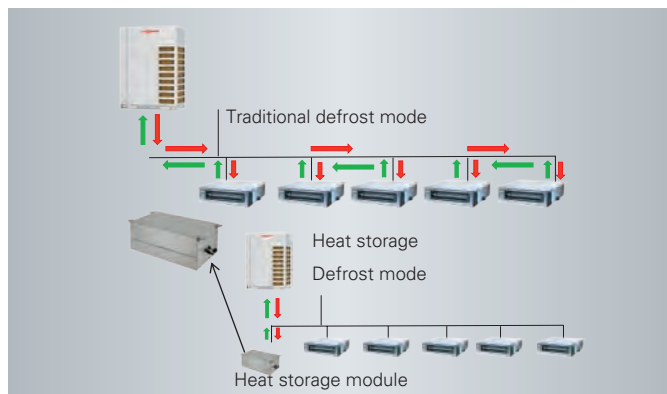
a: Distance between the first branch and the farthest indoor unit

b: Distance between the first branch duct and the nearest indoor unit $a - b \leq 40$ m



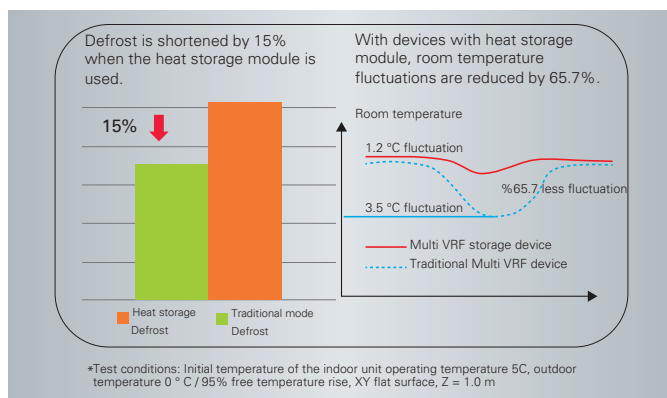
To extend the operation life of the system, the operating sequence of the outdoor unit modules is changed after a total operating time of 8 hours without restarting.





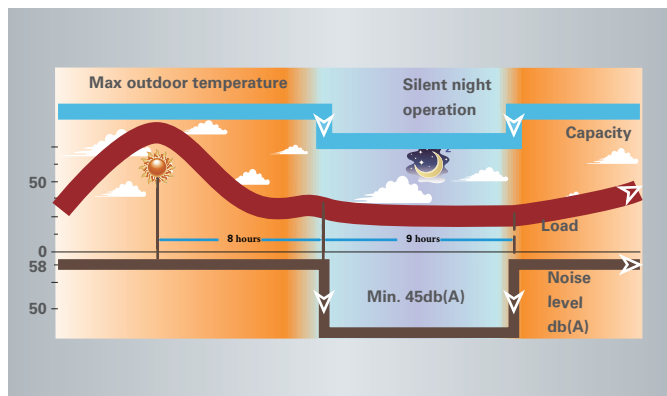
Heat storage module

Thanks to the new Vitoclima series heat storage module, the defrost cycle is shortened and the temperature fluctuation of the indoor unit's exhaust air is reduced.



Defrost is shortened by 15% when the heat storage module is used.

With devices with heat storage module, room temperature fluctuations are reduced by 65.7%.



Silent night operation

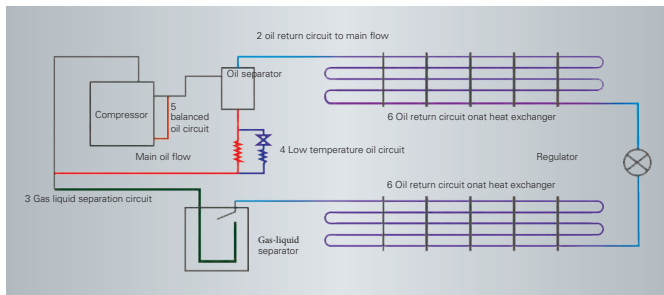
The system stores the maximum outdoor temperature within the operating time frame. It accepts this time frame as midday hours (usually 13:00 - 15:00). After a certain period of time, i.e. at night, the system automatically switches to silent night operation. The volume level can be adjusted to 9 different categories according to the requirement.



Especially suitable for hotels and the requirement to turn off the device with a dry contact (door, window).

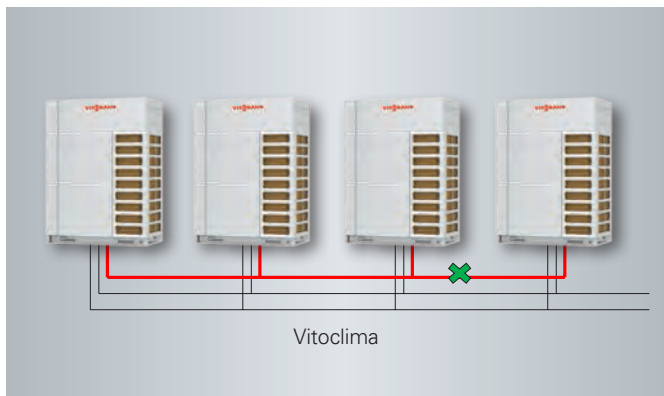
When the hotel card is removed, the device stops working, recording the last set operating parameters. When reactivating the device by inserting the card, the system continues to operate according to the last set parameters. This enables optimized operation and energy savings.

Vitoclima ALL DC INVERTER



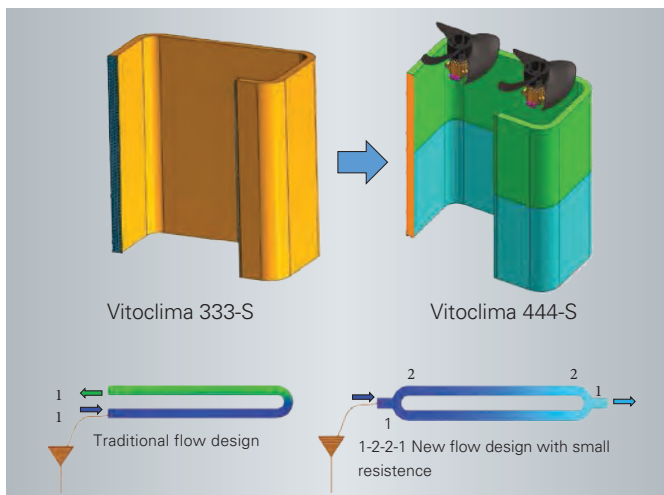
Oil conversion technology

6 separate oil circulation systems to ensure the safe operation of the compressor and the circulation of the liquid oil.



Patented method of oil storage control

With this method of oil level management, there is no need to add oil to balance the system, but the system itself controls it. The new method of oil storage control ensures stable operation of the system by collecting and calculating the output capacity, limit values, automatic control of oil distribution between the modules of outdoor units.

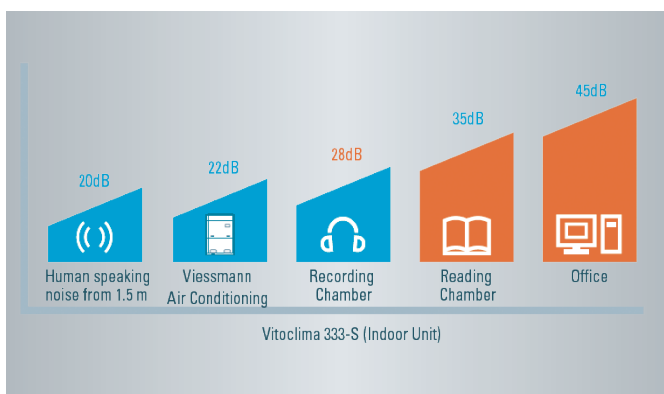


High efficiency outdoor unit fan blade design

Thanks to the 7 mm pipe diameter design, the heat transfer efficiency has improved.

New outdoor unit fan blade design has high corrosion resistance and reduces surface cracks on the ribs.

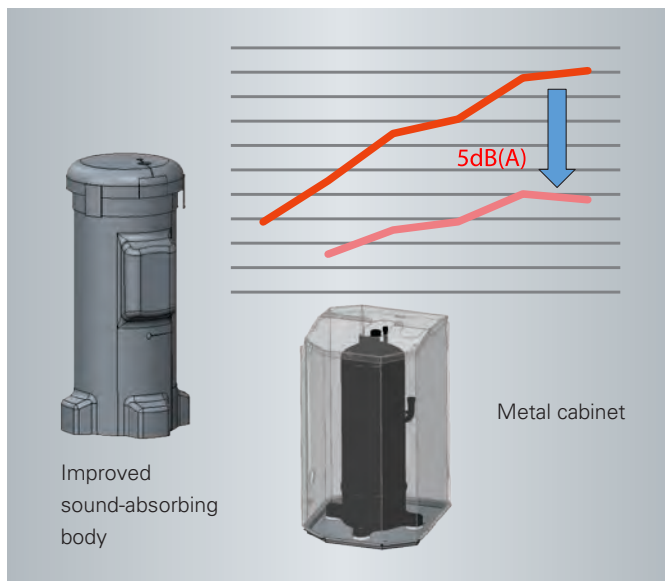
Heat transfer has 8% better effect with improved design of the cooling flow path in the fan blade of the outdoor unit.



Silent Indoor Unit Comfort

Indoor units can be adjusted to 7 different speed levels thanks to DC motors.

By using wired controls, the silent function can be activated by the user and ensures a sound level of 22 dB (A).



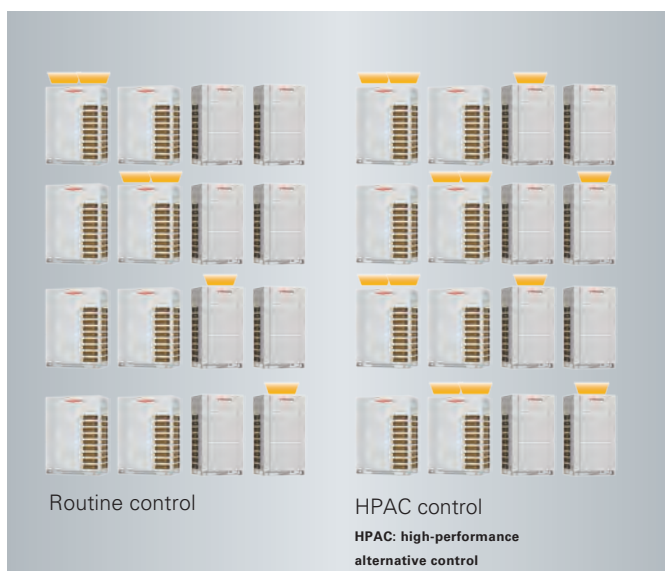
Sound-absorbing compressor body

The metal body consists of two layers. These layers protect the compressor from aging, external corrosion and absorb sound. Thanks to the newly developed sound-absorbing metal cabinet, the compressor is protected while the sound is muted. In this way, the sound level is reduced by 5 dB (A).



Outdoor unit fan

Thanks to the four-bladed fan and the new rotor, air leakage is prevented and the sound level is reduced.



Smart control of load self-regulation

Vitoclima, a completely new modular control method, is designed to improve energy efficiency as well as ensure that all devices operate during their intended service life. SRL control (load self-regulation) can detect and control system parameters and automatically adapts to load requirements for indoor cooling and heating. Thanks to this control, the energy efficiency of the entire system can be increased by up to 20%.

Advantages of Vitoclima MINI VRF:

- High efficiency is achieved with DC Inverter technology specially developed for the Vitoclima device.
- 8 kW-12,1 kW-14,1 kW (3HP-4HP-5HP) are the cooling capacities in the range of these products.
- Thanks to the new CAN Bus communication language noise-free and reliable communication is provided.
- Flexible piping provides easy installation.
Total pipe length: 300 m Maximum
pipe length: 120 m
Indoor-outdoor unit hight difference: 40 * m
- Operation outdoor temperature limits:
Cooling -5 °C~52 °C
Heating -20 °C~27 °C.

*: If outdoor unit is mounted above indoor unit, level difference is 50 meters



VITOClima MINI VRF air conditioning systems

Model			EU-OV3080M1	EU-OV3121M1	EU-OV3141M1
Capacity			3 HP	4 HP	5 HP
Cooling capacity		kW	8.0	12.1	14.10
Heating capacity		kW	9.0	13.0	16.00
EER		kW/kW	3.90	3.51	3.60
COP		kW/kW	4.74	4.81	3.85
Power Supply			220~240V 1Ph~50/60Hz		
Air Flow		m³/h	3.900	4.400	5.200
Max Current		A	21.4	24.0	35.8
Rated Power	Cooling	kW	2.05	3.45	3.92
	Heating	kW	1.90	2.70	4.16
Max. No. of Indoor Units			4	6	8
Refrigerant			R410A	R410A	R410A
Refrigerant Charge Amount		kg	1.8	2.0	3.3
Sound Pressure Level		dB(A)	56	57	58
Connecting Pipe	Gas	mm	Ø15.9	Ø15.9	Ø15.9
	Liquid	mm	Ø9.52	Ø9.52	Ø9.52
Unit Dimensions (WxDxH)	Net	mm	980x360x790	980x360x790	940x460x820
	Gross	mm	1.129x478x937	1.129x478x937	1.023x563x973
Net Weight		kg	80	85	98
Gross Weight		kg	90	95	108
Indoor Unit Combination			%50 - %135	%50 - %135	%50 - %135

*: Simultaneous connection of the high static pressure duct unit and AHU kit of the air chamber is allowed in the common system, while the connection of the duct unit for fresh air is not allowed in the same system
Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

Advantages of Vitoclima MINI VRF :

- High efficiency is achieved by DC inverter technology specially developed for Vitoclima device, EER is increased to the level of 3.99.
- 12.1kW-14kW-16kW (4HP-5HP-6HP) are the cooling capacities in the range of these products.
- Thanks to the new CAN Bus communication language noise-free and reliable communication is provided.
- Flexible piping provides easy installation.Total pipe length: 300 m
Maximum pipe length: 120 m
Indoor-outdoor unit hight difference: 40 * m
- Operation outdoor temperature limits:
Cooling -5 °C~52 °C
Heating -20 °C~27 °C.

*: If outdoor unit is mounted above indoor unit, level difference is 50 meters



VITOClima MINI VRF air conditioning systems

Model			EU-OV3120M1	EU-OV3140M1	EU-OV3160M1
Capacity			4 HP	5 HP	6 HP
Cooling capacity		kW	12.1	14.0	16.0
Heating capacity		kW	14.0	16.5	18.0
EER		kW/kW	3.99	3.90	3.37
COP		kW/kW	4.28	4.18	3.87
Power Supply			220~240V 1Ph~50/60Hz		
Air Flow		m³/h	6.000	6.300	6.600
Max Current		A	28.8	31.8	34.3
Rated Power	Cooling	kW	3.03	3.59	4.75
	Heating	kW	3.27	3.95	4.65
Max. No. of Indoor Units			7	8	9
Refrigerant			R410A	R410A	R410A
Refrigerant Charge Amount			3.3	3.3	3.3
Sound Pressure Level			57	58	58
Connecting Pipe	Gas	mm	Ø15.9	Ø15.9	Ø19.05
	Liquid	mm	Ø9.52	Ø9.52	Ø9.52
Unit Dimensions (WxDxH)	Net	mm	900x340x1.345	900x340x1.345	900x340x1.345
	Gross	mm	998x458x1515	998x458x1.515	998x458x1.515
Net Weight			112	112	112
Gross Weight			123	123	123
Load ratio of indoor and outdoor units			%50 - %135	%50 - %135	%50 - %135

*: Simultaneous connection of the high static pressure duct unit and AHU kit of the air chamber is allowed in the common system, while the connection of the duct unit for fresh air is not allowed in the same system
Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOClima SLIM

Cooling capacity: 8 HP - 12 HP

Advantages of Vitoclima SLIM VRF:

- Horizontal airflow and small unit thickness allow flexibility in the installation of each floor of the building
- With DC Inverter technology developed specifically for the Vitoclima 444, optimal energy efficiency is ensured
- 22.4 kW - 28 kW - 33.5 kW (8HP - 10HP - 12HP) are the cooling capacities in the range of these products
- Thanks to the new CAN Bus communication language noise-free and reliable communication is provided.
- Flexible piping provides easy installation. Total pipe length: 300 m
Maximum pipe length: 120 m
Indoor-outdoor unit height difference: 40 * m
- Operation outdoor temperature limits:
Cooling -5 °C~52 °C
Heating -20 °C~27 °C.

*: If outdoor unit is mounted above indoor unit, level difference is 50 meters



VITOClima SLIM VRF air conditioning systems

Model			EU-OV3224TS2	EU-OV3280TS2	EU-OV3335TS2
Capacity			8 HP	10 HP	12 HP
Cooling capacity		kW	22.4	28	33.5
Heating capacity		kW	24	30	35
EER		kW/kW	3.66	3.60	3.50
COP		kW/kW	4.90	4.90	4.90
Power Supply			380V 3Ph~50/60 Hz		
Air Flow		m³/h	8.000	11.000	11.000
Max Current		A	20	25	32
Rated Power	Cooling	kW	6.12	7.78	9.57
	Heating	kW	4.9	6.12	7.14
Max. No. of Indoor Units			13	17	20
Refrigerant			R410A	R410A	R410A
Refrigerant Charge Amount		kg	5.5	7.1	8
Sound Pressure Level		dB(A)	60	62	63
Connecting Pipe	Gas	mm	Ø19.05	Ø22.2	Ø25.4
	Liquid	mm	Ø9.52	Ø9.52	Ø12.7
Unit Dimensions (WxDxH)	Net	mm	940x320x1.430	940x460x1.615	940x460x1.615
	Gross	mm	1.038x438x1.580	1.038x578x1.765	1.038x578x1.765
Net Weight		kg	133	166	177
Gross Weight		kg	144	183	194
Load ratio of indoor and outdoor units			%50 - %135	%50 - %135	%50 - %135

*: Simultaneous connection of the high static pressure duct unit and AHU kit of the air chamber is allowed in the common system, while the connection of the duct unit for fresh air is not allowed in the same system
Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOClima SLIM

Cooling capacity: 10 HP - 12 HP New Generation

Advantages of Vitoclima SLIM VRF

New Generation:

- Horizontal airflow and the unit slimness allow flexibility in the installation of each floor of the building
- With DC Inverter technology developed specifically for the Vitoclima 444, optimal energy efficiency is ensured
- 28 kW - 33.5 kW (10HP - 12HP) are the cooling capacities in the range of these products.
- Thanks to the new CAN Bus communication language noise-free and reliable communication is provided.
- Flexible piping provides easy installation.
Total pipe length: 300 m
Maximum pipe length: 120 m
Indoor-outdoor unit height difference: 40 * m
- Operation outdoor temperature limits:
Cooling -5 °C~52 °C
Heating -20 °C~27 °C.

*: If outdoor unit is mounted above indoor unit, level difference is 50 meters



VITOClima SLIM VRF air conditioning systems

Model			EU-OV4280TS1	EU-OV4335TS1
Capacity			10 HP	12 HP
Cooling capacity		kW	28	33.5
Heating capacity		kW	28	33.5
EER		kW/kW	2.67	2.91
COP		kW/kW	3.41	3.35
SEER		kW/kW	7.31	7.87
SCOP		kW/kW	5.19	5.50
Power Supply			380V 3Ph~50Hz	380V 3Ph~50Hz
Air Flow		m³/h	11.000	11.000
Max Current		A	22.5	24.5
Rated Power	Cooling	kW	11.67	13.89
	Heating	kW	8.0	10.49
Max. No. of Indoor Units			17	20
Refrigerant			R410A	R410A
Refrigerant Charge Amount		kg	7.1	8.5
Sound Pressure Level		dB(A)	63	64
Connecting Pipe	Gas	mm	Ø22.2	Ø25.4
	Liquid	mm	Ø9.52	Ø12.7
Unit Dimensions (WxDxH)	Net	mm	940x460x1.615	940x460x1.615
	Gross	mm	1.038x578x1.765	1.038x578x1.765
Net Weight		kg	163	174
Gross Weight		kg	174	187
Load ratio of indoor and outdoor units			%50 - %135	%50 - %135

*: Simultaneous connection of the high static pressure duct unit and AHU kit of the air chamber is allowed in the common system, while the connection of the duct unit for fresh air is not allowed in the same system
Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOClima VRF air conditioning systems

Model			OV4224T1	OV4280T1	OV4335T1	OV4400T1
Capacity			8 HP	10 HP	12 HP	14 HP
Cooling capacity	kW		22.4	28	33.5	40
Heating capacity	kW		25	31.5	37.5	45
EER	kW/kW		4.48	4.52	4.35	4.35
COP	kW/kW		5.21	5.34	4.81	4.74
Power Supply			380~415V 3Ph~50/60Hz			
Air Flow	m³/h		9.750	10.500	11.100	13.500
Max Current / fuse	A		19.9/20	22.4/25	23.3/25	27.3/32
Rated Power	Cooling	kW	5.0	6.2	7.7	9.2
	Heating	kW	4.8	5.9	7.8	9.5
Max. No. of Indoor Units			13	16	19	23
Refrigerant			R410A	R410A	R410A	R410A
Refrigerant Charge Amount	kg		5.5	5.5	5.7	7.0
Sound Pressure Level		dB(A)	56	57	59	59
Connecting Pipe	Gas	mm	Ø19.05	Ø22.2	Ø25.40	Ø25.40
	Liquid	mm	Ø9.52	Ø9.52	Ø12.7	Ø12.7
	Oil balancing	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52
Unit Dimensions (WxDxH)	Net	mm	930x775x1.690	930x775x1.690	930x775x1.690	1.340x775x1.690
	Gross	mm	1.000x830x1.855	1.000x830x1.855	1.000x830x1.855	1.400x830x1.855
Net Weight	kg		215	215	220	290
Gross Weight	kg		225	225	230	305
External static pressure	Pa		110	110	110	110
Load ratio of indoor and outdoor units			%50 - %135	%50 - %135	%50 - %135	%50 - %135

Model			OV4450T1	OV4504T1	OV4560T1	OV4615T1	OV4680T1
Capacity			16 HP	18 HP	20 HP	22 HP	24 HP
Cooling capacity	kW		45	50.4	56	61.5	68
Heating capacity	kW		50	56.5	63	69	76.5
EER	kW/kW		4.17	4.10	4.06	3.80	3.32
COP	kW/kW		4.67	4.38	4.81	4.08	3.81
Power Supply			380~415V 3Ph~50/60Hz				
Air Flow	m³/h		15.400	16.000	16.500	16.500	18.350
Max Current / fuse	A		30.2/32	31/40	38.9/40	42/50	47.3/50
Rated Power	Cooling	kW	10.80	12.30	13.80	16.20	20.5
	Heating	kW	10.70	12.90	13.10	16.90	20.1
Max. No. of Indoor Units			26	29	33	36	39
Refrigerant			R410A	R410A	R410A	R410A	R410A
Refrigerant Charge Amount	kg		7.5	8.0	8.0	8.3	8.3
Sound Pressure Level		dB(A)	60	61	62	63	64
Connecting Pipe	Gas	mm	Ø28,60	Ø28,60	Ø28,60	Ø28,60	Ø28,60
	Liquid	mm	Ø12,7	Ø15,9	Ø15,9	Ø15,9	Ø15,9
	Oil balancing	mm	Ø9,52	Ø9,52	Ø9,52	Ø9,52	Ø9,52
Unit Dimensions (WxDxH)	Net	mm	1.340x775x1.690	1.340x775x1.690	1.340x775x1.690	1.340x775x1.690	1.340x775x1.690
	Gross	mm	1.400x830x1.855	1.400x830x1.855	1.400x830x1.855	1.400x830x1.855	1.400x830x1.855
Net Weight	kg		290	295	350	350	355
Gross Weight	kg		305	310	365	365	370
External static pressure	Pa		110	110	110	110	110
Load ratio of indoor and outdoor units			%50 - %135	%50 - %135	%50 - %135	%50 - %135	%50 - %135

* Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

Vitoclima ALL DC INVERTER VRF Outdoor Unit Program

Combinations for the installation of standard two-pipe systems

Model	Capacity	OV4224T1 (8 HP)	OV4280T1 (10 HP)	OV4335T1 (12 HP)	OV4400T1 (14 HP)	OV4450T1 (16HP)	OV4504T1 (18 HP)	OV4560T1 (20 HP)	OV4615T1 (22 HP)	OV4680T (24 HP)
OV4224T1	8 HP	•								
OV4280T1	10 HP		•							
OV4335T1	12 HP			•						
OV4400T1	14 HP				•					
OV4450T1	16 HP					•				
OV4504T1	18 HP						•			
OV4560T1	20 HP							•		
OV4615T1	22 HP								•	
OV4680T1	24 HP									•
OV4730T1	26 HP			•	•					
OV4785T1	28 HP			•		•				
OV4839T1	30 HP			•			•			
OV4895T1	32 HP		•						•	
OV4960T1	34 HP			•					•	
OV41015T1	36 HP				•				•	
OV41065T1	38 HP						•	•		
OV41130T1	40 HP						•		•	
OV41184T1	42 HP							•	•	
OV41230T1	44 HP								••	
OV41295T1	46 HP								•	•
OV41360T1	48 HP									••
OV41410T1	50 HP			•			•	•		
OV41465T1	52 HP		•					•	•	
OV41519T1	54 HP		•						••	
OV41575T1	56 HP			•					••	
OV41640T1	58 HP						••		•	
OV41695T1	60 HP						•	•	•	
OV41745T1	62 HP						•		••	
OV41810T1	64 HP							•	••	
OV41864T1	66 HP								•••	
OV41910T1	68 HP								••	•
OV41975T1	70 HP								•	••
OV42040T1	72 HP									•••
OV42090T1	74 HP			•			•		••	
OV42145T1	76 HP					•	•	•	•	
OV42199T1	78 HP				•			•	••	
OV42255T1	80 HP				•				•••	
OV42320T1	82 HP							•••	•	
OV42375T1	84 HP							••	••	
OV42425T1	86 HP						•		••	•
OV42490T1	88 HP							•	••	•
OV42544T1	90 HP								•••	•
OV42600T1	92 HP								••	••
OV42655T1	94 HP								•	•••
OV42720T1	96 HP									••••

VITOCLIMA VRF air conditioning systems

Model Capacity			OV4730T1 26 HP	OV4785T1 28 HP	OV4839T1 30 HP	OV4895T1 32 HP	OV4960T1 34 HP
Cooling capacity		kW	73	78.5	83.9	89.5	96
Heating capacity		kW	81.5	87.5	94	100.5	108
Rated Power	Cooling	kW	17	18.5	20	22.4	26.7
	Heating	kW	16.6	18.5	20.7	22.8	26
EER		kW/kW	4.29	4.24	4.20	4.00	3.60
COP		kW/kW	4.91	4.73	4.54	4.41	4.15
Current	Cooling	A	30.4	33.1	35.8	40.1	47.7
	Heating	A	29.6	33.0	37.0	40.7	46.4
Max. No. of Indoor Units			43	46	50	53	56
Air Flow		m ³ /h	25.900	26.500	27.100	27.000	28.850
Sound Pressure Level		dB(A)	61	63	64	64	65
Dimensions (WxDxH)		mm	(930x775x1.690)+ (1.340x775x1.690)	(930x775x1.690)+ (1.340x775x1.690)	(930x775x1.690)+ (1.340x775x1.690)	(930x775x1.690)+ (1.340x775x1.690)	(930x775x1.690)+ (1.340x775x1.690)
Pipe Connection Diameter	Gas	mm	Ø31.8	Ø31.8	Ø31.8	Ø31.8	Ø31.8
	Liquid	mm	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05
Weight		kg	505	510	515	565	570

Model Capacity			OV41015T1 36 HP	OV41065T1 38 HP	OV41130T1 40 HP	OV41184T1 42 HP	OV41230T1 44 HP
Cooling capacity		kW	101.5	106.5	113	118.4	123
Heating capacity		kW	114	119	126.5	133	138
Rated Power	Cooling	kW	28.2	27	31.3	32.8	32.4
	Heating	kW	27.9	27.6	30.8	33	33.8
EER		kW/kW	3.60	3.94	3.61	3.61	3.80
COP		kW/kW	4.09	4.31	4.11	4.03	4.08
Current	Cooling	A	50.4	48.3	55.9	58.6	58.0
	Heating	A	49.8	49.3	55.0	59.0	60.4
Max. No. of Indoor Units			59	63	64	64	64
Air Flow		m ³ /h	29.450	31.900	33.750	34.350	33.000
Sound Pressure Level		dB(A)	66	65	66	66	67
Dimensions (WxDxH)		mm	2x(1.340x775x1.690)	2x(1.340x775x1.690)	2x(1.340x775x1.690)	2x(1.340x775x1.690)	2x(1.340x775x1.690)
Pipe Connection Diameter	Gas	mm	Ø38.1	Ø38.1	Ø38.1	Ø38.1	Ø38.1
	Liquid	mm	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05
Weight		kg	575	640	645	650	700

* Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB/ 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOClima VRF air conditioning systems

Model			OV41295T1	OV41360T1	OV41410T1	OV41465T1	OV41519T1
Capacity			46 HP	48 HP	50 HP	52 HP	54 HP
Cooling capacity		kW	129.5	136	141	146.5	151.9
Heating capacity		kW	145.5	153	158	164	170.5
Rated Power	Cooling	kW	36.7	41	37.5	39	40.5
	Heating	kW	37.0	40.2	36.7	38.6	40.8
EER		kW/kW	3.53	3.32	3.76	3.76	3.75
COP		kW/kW	3.93	3.81	4.31	4.25	4.18
Current	Cooling	A	65.6	73.2	67.0	69.7	72.4
	Heating	A	66.1	71.8	65.5	68.9	72.9
Max. No. of Indoor Units			64	64	66	69	71
Air Flow		m ³ /h	34.850	36.700	44.250	44.850	45.450
Sound Pressure Level		dB(A)	67	68	67	67	68
Dimensions (WxDxH)		mm	2x(1.340x775x1.690)	2x(1.340x775x1.690)	(930x775x1.690)+ 2x(1.340x775x1.690)	(930x775x1.690)+ 2x(1.340x775x1.690)	(930x775x1.690)+ 2x(1.340x775x1.690)
Connecting Pipe	Gas	mm	Ø38.1	Ø38.1	Ø41.3	Ø41.3	Ø41.3
	Liquid	mm	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05
Weight		kg	705	710	860	865	870

Model			OV41575T1	OV41640T1	OV41695T1	OV41745T1	OV41810T1
Capacity			56 HP	58 HP	60 HP	62 HP	64 HP
Cooling capacity		kW	157.5	164	169.5	174.5	181
Heating capacity		kW	177	184.5	190.5	195.5	203
Rated Power	Cooling	kW	42.9	47.2	48.7	47.5	51.8
	Heating	kW	42.9	46.1	48	47.7	50.9
EER		kW/kW	3.67	3.47	3.48	3.67	3.49
COP		kW/kW	4.13	4.00	3.97	4.10	3.99
Current	Cooling	A	76.7	84.3	87.0	84.9	92.5
	Heating	A	76.6	82.3	85.7	85.2	90.9
Max. No. of Indoor Units			74	77	80	80	80
Air Flow		m ³ /h	45.350	47.200	47.800	50.250	52.100
Sound Pressure Level		dB(A)	68	69	69	68	69
Dimensions (WxDxH)		mm	(930x775x1.690)+ 2x(1.340x775x1.690)	(930x775x1.690)+ 2x(1.340x775x1.690)	3x(1.340x775x1.690)	3x(1.340x775x1.690)	3x(1.340x775x1.690)
Connecting Pipe	Gas	mm	Ø41.3	Ø41.3	Ø41.3	Ø41.3	Ø41.3
	Liquid	mm	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05
Weight		kg	920	925	930	995	1.000

* Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions: Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB/ 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOClima VRF air conditioning systems

Model			OV41864T1	OV41910T1	OV41975T1	OV42040T1	OV42090T1
Capacity			66HP	68HP	70HP	72HP	74HP
Cooling capacity		kW	186.4	191	197.5	204	209
Heating capacity		kW	209.5	214.5	222	229.5	234.5
Rated Power	Cooling	kW	53.3	52.9	57.2	61.5	58
	Heating	kW	53.1	53.9	57.1	60.3	56.8
EER		kW/kW	3.50	3.61	3.45	3.32	3.60
COP		kW/kW	3.95	3.98	3.89	3.81	4.13
Current	Cooling	A	95.2	94.6	102.2	109.8	103.6
	Heating	A	94.9	96.3	102	107.7	101.4
Max. No. of Indoor Units			80	80	80	80	80
Air Flow		m ³ /h	52.700	51.350	53.200	55.050	62.600
Sound Pressure Level		dB(A)	69	69	70	70	70
Dimensions (WxDxH)		mm	3x(1.340x775x1.690)	3x(1.340x775x1.690)	3x(1.340x775x1.690)	3x(1.340x775x1.690)	(930x775x1.690)+ 3x(1.340x775x1.690)
Connecting Pipe	Gas	mm	Ø41,3	Ø44,5	Ø44,5	Ø44,5	Ø44,5
	Liquid	mm	Ø19,05	Ø22,2	Ø22,2	Ø22,2	Ø22,2
Weight		kg	1.005	1.055	1.060	1.065	1.215

Model			OV42145T1	OV42199T1	OV42255T1	OV42320T1	OV42375T1
Capacity			76HP	78HP	80HP	82HP	84HP
Cooling capacity		kW	214.5	219.9	225.5	232	237.5
Heating capacity		kW	240.5	247	253.5	261	267
Rated Power	Cooling	kW	59.5	61	63.4	67.7	69.2
	Heating	kW	58.7	60.9	63.0	66.2	68.1
EER		kW/kW	3.61	3.60	3.56	3.43	3.43
COP		kW/kW	4.10	4.06	4.02	3.94	3.92
Current	Cooling	A	106.3	109	113.3	120.9	123.6
	Heating	A	104.8	108.8	112.5	118.2	121.6
Max. No. of Indoor Units			80	80	80	80	80
Air Flow		m ³ /h	63.200	63.800	63.700	65.550	66.150
Sound Pressure Level		dB(A)	70	70	71	71	71
Dimensions (WxDxH)		mm	4x(1.340x775x1.690)	4x(1.340x775x1.690))	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)
Connecting Pipe	Gas	mm	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5
	Liquid	mm	Ø22.2	Ø22.2	Ø22.2	Ø22.2	Ø22.2
Weight		kg	1.220	1.225	1.275	1.280	1.285

VITOCLIMA VRF air conditioning systems

Model			OV42425T1	OV42490T1	OV42544T1	OV42600T1	OV42655T1	OV42720T1
Capacity			86 HP	88 HP	90 HP	92 HP	94 HP	96 HP
Cooling capacity	kW		242.5	249	254.4	260	265.5	272
Heating capacity	kW		272	279.5	286	292.5	298.5	306
Rated Power	Cooling	kW	68	72.3	73.8	75.3	77.7	82
	Heating	kW	67.8	71	73.2	73.4	77.2	80.4
EER		kW/kW	3.57	3.44	3.45	3.45	3.42	3.32
COP		kW/kW	4.01	3.94	3.91	3.99	3.87	3.81
Current	Cooling	A	121.5	129.1	131.8	134.5	138.8	146.4
	Heating	A	121.1	126.8	130.8	131.1	137.9	143.6
Max. No. of Indoor Units			80	80	80	80	80	80
Air Flow		m ³ /h	68.600	70.450	71.050	71.550	71.550	73.400
Sound Pressure Level		dB(A)	71	71	71	71	71	72
Dimensions (WxDxH)		mm	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)
Connecting Pipe	Gas	mm	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5
	Liquid	mm	Ø22.2	Ø22.2	Ø22.2	Ø22.2	Ø22.2	Ø22.2
Weight		kg	1.350	1.355	1.360	1.415	1.415	1.420

Notes:

- Nominal cooling capacity conditions: indoor 27 °C DB / 19 °C WB, outdoor 35 °C DB; connection pipe length: 5m, the level difference between indoor and outdoor units is zero
- Nominal heating capacity conditions: indoor 20 °C DB, outdoor 7 °C DB/ 6 °C WB; connection pipe length: 5m, the level difference between indoor and outdoor unit is zero
- The ratio of the total capacity of the indoor unit to the total capacity of the outdoor unit should be between 50% ~ 135%.
- The above parameters are given for standard lengths of pipe connections. Parameters for projects with long pipe connections should be updated in accordance with the capacity correction tables.

Combinations of "high efficiency" models

Model	Capacity	OV4224T1 (8 HP)	OV4280T1 (10 HP)	OV4335T1 (12 HP)	OV4400T1 (14 HP)	OV4450T1 (16 HP)	OV4504T1 (18 HP)	OV4560T1 (20 HP)	OV4615T1 (22 HP)	OV4680T1 (24 HP)
OV4224T1	8 HP	•								
OV4280T1	10 HP		•							
OV4335T1	12 HP			•						
OV4400T1	14 HP				•					
OV4450T1	16 HP					•				
OV4504T1	18 HP						•			
OV4560T1	20 HP							•		
OV4615T1	22 HP								•	
OV4680T1	24 HP									•
OV4730T1	26 HP	••	•							
OV4785T1	28 HP	•	••							
OV4839T1	30 HP		•••							
OV4895T1	32 HP	••••								
OV4960T1	34 HP	•••	•							
OV41015T1	36 HP	••	••							
OV4106T1	38 HP	•	•••							
OV4113T1	40 HP		••••							
OV41184T1	42 HP		•••	•						
OV41230T1	44 HP		•••		•					
OV41295T1	46 HP		••	•	•					
OV41360T1	48 HP		••		••					
OV41410T1	50 HP		•	•	••					
OV41465T1	52 HP		•		•••					
OV41519T1	54 HP			•	•••					
OV41575T1	56 HP				••••					
OV41640T1	58 HP				•••	•				
OV41695T1	60 HP				•••		•			
OV41745T1	62 HP				•••			•		
OV41810T1	64 HP				••	•		•		
OV41864T1	66 HP				••		•	•		
OV41910T1	68 HP				••			••		
OV41975T1	70 HP				•	•		••		
OV42040T1	72 HP				•		•	••		
OV42090T1	74 HP				•			•••		
OV42145T1	76 HP					•		•••		
OV42199T1	78 HP						•	•••		
OV42255T1	80 HP							••••		
OV42320T1	82 HP							•••	•	
OV42375T1	84 HP							••	••	
OV42425T1	86 HP							•	•••	
OV42490T1	88 HP							•	••	•
OV42544T1	90 HP								•••	•
OV42600T1	92 HP								••	••
OV42655T1	94 HP								•	•••
OV42720T1	96 HP									••••

VITOCLIMA ALL DC INVERTER

Technical chart for the combination of "high efficiency" units

Power supply: 380~450V, 3Ph~50/60Hz

VITOCLIMA VRF air conditioning systems

Model			OV4730T1	OV4785T1	OV4839T1	OV4895T1	OV4960T1	OV41015T1
Capacity			26 HP	28 HP	30 HP	32 HP	34 HP	36 HP
Cooling capacity		kW	72.8	78.4	84	89.6	95.2	100.8
Heating capacity		kW	81.5	88	94.5	100	106.5	113
Rated Power	Cooling	kW	16.2	17.4	18.6	20	21.2	22.4
	Heating	kW	15.5	16.6	17.7	19.2	20.3	21.4
EER		kW/kW	4.49	4.51	4.52	4.48	4.49	4.50
COP		kW/kW	5.26	5.30	5.34	5.21	5.25	5.28
Current	Cooling	A	28.9	31.1	33.3	35.6	37.8	40.0
	Heating	A	27.7	29.6	31.5	34.4	36.3	38.2
Max. No. of Indoor Units			43	46	50	53	56	59
Air Flow		m ³ /h	30.000	30.750	31.500	39.000	39.750	40.500
Sound Pressure Level		dB(A)						
Dimensions (WxDxH)		mm	3x(930x775x1.690)	3x(930x775x1.690)	3x(930x775x1.690)	4x(930x775x1.690)	4x(930x775x1.690)	4x(930x775x1.690)
Connecting Pipe	Gas	mm	Ø31.8	Ø31.8	Ø31.8	Ø31.8	Ø31.8	Ø38.1
	Liquid	mm	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05
Weight		kg	645	645	645	860	860	860

Model			OV41065T1	OV41130T1	OV41184T1	OV41230T1	OV41295T1	OV41360T1
Capacity			38 HP	40 HP	42 HP	44 HP	46 HP	48 HP
Cooling capacity		kW	106.4	112	117.5	124	129.5	136
Heating capacity		kW	119.5	126	132	139.5	145.5	153
Rated Power	Cooling	kW	23.6	24.8	26.3	27.8	29.3	30.8
	Heating	kW	22.5	23.6	25.5	27.2	29.1	30.8
EER		kW/kW	4.51	4.52	4.47	4.46	4.42	4.42
COP		kW/kW	5.31	5.34	5.18	5.13	5.00	4.97
Current	Cooling	A	42.2	44.4	47.1	49.7	52.4	55.0
	Heating	A	40.1	42	45.4	48.5	51.9	55
Max. No. of Indoor Units			63	64	64	64	64	64
Air Flow		m ³ /h	41.250	42.000	42.600	45.000	45.600	48.000
Sound Pressure Level		dB(A)						
Dimensions (WxDxH)		mm	4x(930x775x1.690)	4x(930x775x1.690)	4x930x775x1.690	3x(930x775x1.690)+ (1.340x775x1.690)	3x(930x775x1.690)+ (1.340x775x1.690)	2x(930x775x1.690)+ 2x(1.340x775x1.690)
Connecting Pipe	Gas	mm	Ø38.1	Ø38.1	Ø38.1	Ø38.1	Ø38.1	Ø41.3
	Liquid	mm	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05
Weight		kg	860	860	865	935	940	1.010

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOCLIMA VRF air conditioning systems

Model			OV41410T1	OV41465T1	OV41519T1	OV41575T1	OV41640T1	OV41695T1
Capacity			50 HP	52 HP	54 HP	56 HP	58 HP	60 HP
Cooling capacity		kW	141.5	148	153.5	160	165	170.4
Heating capacity		kW	159	166.5	172.5	180	185	191.5
Rated Power	Cooling	kW	32.3	33.8	35.3	36.8	38.4	39.9
	Heating	kW	32.7	34.4	36.3	38	39.2	41.4
EER		kW/kW	4.38	4.38	4.35	4.35	4.30	4.27
COP		kW/kW	4.86	4.84	4.75	4.74	4.72	4.63
Current	Cooling	A	57.7	60.3	63	65.6	68.5	71.2
	Heating	A	58.4	61.5	64.9	68.0	70.1	74.1
Max. No. of Indoor Units			66	69	71	74	77	80
Air Flow		m ³ /h	48.600	51.000	51.600	54.000	55.900	56.500
Sound Pressure Level		dB(A)						
Dimensions (WxDxH)		mm	2x(930x775x1.690) + 2x(1.340x775x1.690)	(930x775x1.690) + 3x(1.340x775x1.690)	(930x775x1.690) + 3x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)
Connecting Pipe	Gas	mm	Ø41.3	Ø41.3	Ø41.3	Ø41.3	Ø41.3	Ø41.3
	Liquid	mm	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05
Weight		kg	1.015	1.085	1.090	1.160	1.160	1.165

Model			OV41745T1	OV41810T1	OV41864T1	OV41910T1	OV41975T1	OV42040T1
Capacity			62 HP	64 HP	66 HP	68 HP	70 HP	72 HP
Cooling capacity		kW	176	181	186.4	192	197	202.4
Heating capacity		kW	198	203	209.5	216	221	227.5
Rated Power	Cooling	kW	41.4	43	44.5	46	47.6	49.1
	Heating	kW	41.6	42.8	45	45.2	46.4	48.6
EER		kW/kW	4.25	4.21	4.19	4.17	4.14	4.12
COP		kW/kW	4.76	4.74	4.66	4.78	4.76	4.68
Current	Cooling	A	73.9	76.8	79.5	82.2	85.1	87.8
	Heating	A	74.4	76.5	80.5	80.8	82.9	86.9
Max. No. of Indoor Units			80	80	80	80	80	80
Air Flow		m ³ /h	57.000	58.900	59.500	60.000	61.900	62.500
Sound Pressure Level		dB(A)						
Dimensions (WxDxH)		mm	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)
Connecting Pipe	Gas	mm	Ø41.3	Ø41.3	Ø44.5	Ø44.5	Ø44.5	Ø44.5
	Liquid	mm	Ø19.05	Ø19.05	Ø22.2	Ø22.2	Ø22.2	Ø22.2
Weight		kg	1.220	1.220	1.225	1.280	1.280	1.285

VITOCLIMA VRF air conditioning systems

Model			OV42090T1	OV42145T1	OV42199T1	OV42255T1	OV42320T1	OV42375T1
Capacity			74 HP	76 HP	78 HP	80 HP	82 HP	84 HP
Cooling capacity		kW	208	213	218.4	224	229.5	235
Heating capacity		kW	234	239	245.5	252	258	264
Rated Power	Cooling	kW	50.6	52.2	53.7	55.2	57.6	60
	Heating	kW	48.8	50	52.2	52.4	56.2	60
EER		kW/kW	4.11	4.08	4.07	4.06	3.98	3.92
COP		kW/kW	4.80	4.78	4.70	4.81	4.59	4.40
Current	Cooling	A	90.5	93.4	96.1	98.8	103.1	107.4
	Heating	A	87.2	89.3	93.3	93.6	100.4	107.2
Max. No. of Indoor Units			80	80	80	80	80	80
Air Flow		m³/h	63.000	64.900	65.500	66.000	66.000	66.000
Sound Pressure Level		dB(A)						
Dimensions (WxDxH)		mm	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)
Connecting Pipe	Gas	mm	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5
	Liquid	mm	Ø22.2	Ø22.2	Ø22.2	Ø22.2	Ø22.2	Ø22.2
Weight		kg	1.340	1.340	1.345	1.400	1.400	1.400

Model			OV42425T1	OV42490T1	OV42544T1	OV42600T1	OV42655T1	OV42720T1
Capacity			86 HP	88 HP	90 HP	92 HP	94 HP	96 HP
Cooling capacity		kW	247	252.5	259	265.5	272	272
Heating capacity		kW	277.5	283.5	291	298.5	306	306
Rated Power	Cooling	kW	66.7	69.1	73.4	77.7	82	82
	Heating	kW	67	70.8	74	77.2	80.4	80.4
EER		kW/kW	3.70	3.65	3.53	3.42	3.32	3.32
COP		kW/kW	4.14	4.00	3.93	3.87	3.81	3.81
Current	Cooling	A	119.3	123.6	131.2	138.8	146.4	146.4
	Heating	A	119.7	126.5	132.2	137.9	143.6	143.6
Max. No. of Indoor Units			80	80	80	80	80	80
Air Flow		m³/h	67.850	67.850	69.700	71.550	73.400	73.400
Sound Pressure Level		dB(A)						72
Dimensions (WxDxH)		mm	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)	4x(1.340x775x1.690)
Connecting Pipe	Gas	mm	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5
	Liquid	mm	Ø22.2	Ø22.2	Ø22.2	Ø22.2	Ø22.2	Ø22.2
Weight		kg	1.405	1.405	1.410	1.415	1.420	1.420

Napomene:

- Nominal cooling capacity conditions: indoor 27 °C DB / 19 °C WB, outdoor 35 °C DB; connection pipe length: 5m, the level difference between indoor and outdoor units is zero
- Nominal heating capacity conditions: indoor 20 °C DB, outdoor 7 °C DB / 6 °C WB; connection pipe length: 5m, the level difference between indoor and outdoor unit is zero
- The ratio of the total capacity of the indoor unit to the total capacity of the outdoor unit should be between 50% ~ 135%.
- The above parameters are given for standard lengths of pipe connections. Parameters for projects with long pipe connections should be updated in accordance with the capacity correction tables.

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

Advantages of Vitoclima VRF system with heat recovery

- One independent system simultaneously provides heating and cooling and, regardless of the season, provides optimal air conditioning conditions.
- It uses DC inverter technology specially developed for Vitoclima devices.
- With a portfolio of 5 outdoor units, multiple combinations can be chosen, and a wide range of products provides a capacity of 64HP.
- Operation outdoor temperature limits:
Cooling -5 °C ~ 52 °C
Heating -20 °C ~ 24 °C
Heat recuperation mode: -10 °C ~ 20 °C.
- Operation outdoor temperature limits for all indoor units which use fresh air:
Cooling 16 °C ~ 45 °C
Heating -7 °C ~ 16 °C














VITOClima VRF air conditioning systems with heat recovery

Model			OVHR3224T1	OVHR3280T1	OVHR3335T1	OVHR3400T1	OVHR3450T1
Capacity			8 HP	10 HP	12 HP	14 HP	16 HP
Cooling capacity		kW	22.4	28	33.5	40	45
Heating capacity		kW	25	31.5	37.5	45	50
EER		kW/kW	4.1	4.06	4.09	3.77	3.72
COP		kW/kW	4.72	4.32	4.31	4.17	4.0
Air Flow		m³/h	11400	11400	14000	14000	14000
Outdoor static pressure		Pa	82	82	82	82	82
Power Supply			380~415V 3Ph~50/60Hz				
Max. Current / fuse		A	16,3/20	20,9/25	24,7/32	28,8/40	33,2/40
Rated Power	Cooling	kW	5.2	6.9	8.2	10.6	12.1
	Heating	kW	5.3	7.2	8.7	10.8	12.5
Max. No. of Indoor Units			13	16	19	23	26
Refrigerant			R410A	R410A	R410A	R410A	R410A
Refrigerant Charge Amount		kg	6.2	7.1	9.6	11.1	11.6
Sound Pressure Level		dB(A)	60	61	63	63	63
Connecting Pipe	Gas	mm	Ø15,9	Ø19,05	Ø19,05	Ø22,2	Ø22,2
	Liquid	mm	Ø9,52	Ø9,52	Ø12,7	Ø12,7	Ø12,7
	Gas - AB	mm	Ø19,05	Ø22,2	Ø25,4	Ø25,4	Ø28,6
Unit Dimensions (WxDxH)	Net	mm					
	Gross	mm					
Net Weight		kg	233	233	302	346	346
Gross Weight		kg	243	243	317	361	361

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

Outdoor unit program

Model		Capacity	OVHR3224T1 (8 HP)	OVHR3280T1 (10 HP)	OVHR3335T1 (12 HP)	OVHR3400T1 (14 HP)	OVHR3450T1 (16 HP)
	OVHR3224T1	8 HP	•				
	OVHR3280T1	10 HP		•			
	OVHR3335T1	12 HP			•		
	OVHR3400T1	14 HP				•	
	OVHR3450T1	16 HP					•
	OVHR3504T1	18 HP	•	•			
	OVHR3560T1	20 HP		• •			
	OVHR3615T1	22 HP		•	•		
	OVHR3680T1	24 HP		•		•	
	OVHR3730T1	26 HP		•			•
	OVHR3785T1	28 HP			•		•
	OVHR3850T1	30 HP				•	•
	OVHR3900T1	32 HP					• •
	OVHR3960T1	34 HP		• •		•	
	OVHR31010T1	36 HP		• •			•
	OVHR31065T1	38 HP		•	•		•
	OVHR31130T1	40 HP		•		•	•
	OVHR31180T1	42 HP		•			• •
	OVHR31235T1	44 HP			•		• •
	OVHR31300T1	46 HP				•	• •
	OVHR31350T1	48 HP					• • •
	OVHR31410T1	50 HP		• •		•	•
	OVHR31460T1	52 HP		• •			• •
	OVHR31515T1	54 HP		•	•		• •
	OVHR31580T1	56 HP		•		•	• •
	OVHR31630T1	58 HP		•			• • •
	OVHR31685T1	60 HP			•		• • •
	OVHR31750T1	62 HP				•	• • •
	OVHR31800T1	64 HP					• • • •

Technical chart for outdoor unit combinations

Model			OVHR3504T1	OVHR3560T1	OVHR3615T1	OVHR3680T1	OVHR3730T1
Capacity			18 HP	20 HP	22 HP	24 HP	26 HP
Cooling capacity		kW	50.4	56	61.5	68	73
Heating capacity		kW	56.5	62.5	69	76.5	81.5
Sound Pressure Level		db(A)	64	64	64	65	65
Rated Power	Cooling	kW	12.1	13.8	15.1	17.5	19
	Heating	kW	12.6	14.6	16	18.1	19.8
Current	Cooling	A	21.8	25	27.5	31.5	35.1
	Heating	A	22.8	26	29.1	32.8	36.2
Air Flow		m³/h	2x 11 400	2x 11 400	11 400+14 000	11 400+14 000	11 400+14 000
Max. No. of Indoor Units			29	32	35	39	42
Dimensions (WxDxH)		mm	2x(930x765x1605)	2x(930x765x1605)	(930x765x1605)+ (1340x765x1605)	(930x765x1605)+ (1340x765x1605)	(930x765x1605)+ (1340x765x1605)
Connecting pipe	High Pressure Gas	mm	Ø25,4	Ø25,4	Ø25,4	Ø25,4	Ø28,6
	Low Pressure Gas	mm	Ø28,6	Ø28,6	Ø28,6	Ø28,6	Ø31,8
	Liquid	mm	Ø15,9	Ø15,9	Ø15,9	Ø15,9	Ø19,05
Weight		kg	466	466	535	579	579

Model			OVHR3785T1	OVHR3850T1	OVHR3900T1	OVHR3960T1	OVHR31010T1
Capacity			28 HP	30 HP	32 HP	34 HP	36 HP
Cooling capacity		kW	78.5	85	90	96	101
Heating capacity		kW	87.5	95	100	108	113
Sound Pressure Level		db(A)	66	66	66	67	67
Rated Power	Cooling	kW	20.3	22.7	24.2	24.4	25.9
	Heating	kW	21.2	23.3	25	25.4	27.1
Current	Cooling	A	37.6	41.6	45.2	44	47.6
	Heating	A	39.3	43	46.4	45.8	49.2
Air Flow		m³/h	2x 14 000	2x 14 000	2x 14 000	2x 11 400+14 000	2x 11 400+14 000
Max. No. of Indoor Units			46	49	52	55	58
Dimensions (WxDxH)		mm	2x(1340x765x1605)	2x(1340x765x1605)	2x(1340x765x1605)	2x(930x765x1605)+ (1340x765x1605)	2x(930x765x1605)+ (1340x765x1605)
Connecting pipe	High Pressure Gas	mm	Ø28,6	Ø28,6	Ø28,6	Ø28,6	Ø31,8
	Low Pressure Gas	mm	Ø31,8	Ø31,8	Ø31,8	Ø31,8	Ø38,1
	Liquid	mm	Ø19,05	Ø19,05	Ø19,05	Ø19,05	Ø19,05
Weight		kg	648	692	692	812	812

VITOClima with heat recovery

Cooling capacity: 8 HP - 64 HP

Technical chart for outdoor units

Model			OVHR31065T1	OVHR31130T1	OVHR31180T1	OVHR31235T1	OVHR31300T1
Capacity			38 HP	40 HP	42 HP	44 HP	46 HP
Cooling capacity		kW	106.5	113	118	123.5	130
Heating capacity		kW	119	126.5	131.5	137.5	145
Sound Pressure Level		db(A)	67	67	67	68	68
Rated Power	Cooling	kW	27.2	29.6	31.1	32.4	34.8
	Heating	kW	28.5	30.6	32.3	33.7	35.8
Current	Cooling	A	50.1	54.1	57.7	60.2	64.2
	Heating	A	52.3	56	59.4	62.5	66.2
Air Flow		m³/h	11 400 +2x 14 000	11 400 + 2x 14 000	11 400+2x14 000	3x14 000	3x14 000
Max. No. of Indoor Units			62	65	68	72	75
Dimensions (WxDxH)		mm	(930x765x1605)+ 2x(1340x765x1605)	(930x765x1605)+ 2x(1340x765x1605)	(930x765x1605)+ 2x(1340x765x1605)	3x(1340x765x1605)	3x(1340x765x1605)
Connecting pipe	High Pressure Gas	mm	Ø31,8	Ø31,8	Ø31,8	Ø31,8	Ø31,8
	Low Pressure Gas	mm	Ø38,1	Ø38,1	Ø38,1	Ø38,1	Ø38,1
	Liquid	mm	Ø19,05	Ø19,05	Ø19,05	Ø19,05	Ø19,05
Weight		kg	881	925	925	994	1038

Model			OVHR31350T1	OVHR31410T1	OVHR31460T1	OVHR31515T1	OVHR31580T1
Capacity			48 HP	50 HP	52 HP	54 HP	56 HP
Cooling capacity		kW	135	141	146	151.5	158
Heating capacity		kW	150	158	163	169	176.5
Sound Pressure Level		db(A)	68	69	69	69	69
Rated Power	Cooling	kW	36.3	36.5	38	39.3	41.7
	Heating	kW	37.5	37.9	39.6	41	43.1
Current	Cooling	A	67.8	66.6	70.2	72.7	76.7
	Heating	A	69.6	69	72.4	75.5	79.2
Air Flow		m³/h	3x14 000	2x 11 400+2x 14 000	2x 11 400+2x 14 000	11 40 0+3x 14 000	11 400+ 3x14 000
Max. No. of Indoor Units			78	80	80	80	80
Dimensions (WxDxH)		mm	3x(1340x765x1605)	2x(930x765x1605)+ 2x(1340x765x1605)	2x(930x765x1605)+ 2x(1340x765x1605)	(930x765x1605)+ 3x(1340x765x1605)	(930x765x1605)+ 3x(1340x765x1605)
Connecting pipe	Hight Pressure gas	mm	Ø31,8	Ø38,1	Ø38,1	Ø38,1	Ø38,1
	Low Pressure Gas	mm	Ø41,3	Ø41,3	Ø41,3	Ø41,3	Ø44,5
	Liquid	mm	Ø19,05	Ø19,05	Ø19,05	Ø19,05	Ø22,2
Weight		kg	1038	1158	1158	1227	1271




Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 ° C DB / 19 ° C WB, outdoor temperature 35 ° C DB. Heating, indoor temperature 20 ° C DB, outdoor temperature 7 ° C DB/ 6 ° C WB. Pipe length 7.5 m, height difference is zero.

Technical chart for outdoor units

Model			OVHR31630T1	OVHR31685T1	OVHR31750T1	OVHR31800T1
Capacity			58 HP	60 HP	62 HP	64 HP
Cooling capacity		kW	163	168.5	175	180
Heating capacity		kW	181.5	187.5	195	200
Sound Pressure Level		db(A)	69	70	70	70
Rated Power	Cooling	kW	43.2	44.5	46.9	48.4
	Heating	kW	44.8	46.2	48.3	50
Current	Cooling	A	80.3	82.8	86.8	90.4
	Heating	A	82.6	85.7	89.4	92.8
Air Flow		m³/h	11 400+3x14 000	4x14 000	4x14 000	4x14 000
Max. No. of Indoor Units			80	80	80	80
Dimensions (WxDxH)		mm	3x(1340x765x1605)	2x(930x765x1605)+ 2x(1340x765x1605)	2x(930x765x1605)+ 2x(1340x765x1605)	(930x765x1605)+ 3x(1340x765x1605)
Connecting pipe	High Pressure Gas	mm	Ø38,1	Ø38,1	Ø38,1	Ø38,1
	Low Pressure Gas	mm	Ø41,3	Ø41,3	Ø41,3	Ø44,5
	Liquid	mm	Ø19,05	Ø19,05	Ø19,05	Ø22,2
Weight		kg	1271	1340	1384	1384

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB/ 6 °C WB. Pipe length 7.5 m, height difference is zero.

HR boxes, VITOCLIMA VRF air conditioning systems with "heat recovery"

Model			VHRNCHS1C	VHRNCHS4C	VHRNCHS8C
					
Max. No. of Indoor Units			1	4	8
Number of indoor units that can be connected to each port			8	8	8
Max. number of indoor units that can be connected			8	32	64
Maximum capacity for each port		kW	14.2	14.2	14.2
Maximum capacity of all connected indoor units		kW	14.2	45	68
Power Supply			220~240V 1Ph~50/60Hz	220~240V 1Ph~50/60Hz	220~240V 1Ph~50/60Hz
Indoor unit pipe connection	Liquid	mm	Ø9,52	Ø9,52	Ø9,52
	Gas	mm	Ø15,9	Ø15,9	Ø15,9
Outdoor unit pipe connection	High Pressure Gas	mm	Ø15,9	Ø22,2	Ø22,2
	Liquid	mm	Ø9,52	Ø12,7	Ø15,9
	Low Pressure Gas	mm	Ø22,2	Ø28,6	Ø28,6

VITOClima WATER with water-cooled condenser

Cooling capacity: 8 HP - 48 HP





Outstanding features of Vitoclima WATER water-cooled air conditioning systems

- VRF air conditioning systems with water-cooled condensers, in addition to high cooling and heating efficiency regardless of outdoor conditions, provide energy savings, comfort and flexibility of application. Installation inside the building.
- It offers a wide range of products with 3 different outdoor unit modules and with a large selection of combinations and a capacity of up to 48 HP.
- Suitable solution for tall buildings and buildings where long piping is required.
- Since the units are placed inside the building, the external aesthetics of the buildings is not disturbed.
- Operation temperature range in cooling and heating mode; For water side 10 °C~50 °
- Total piping distance: 300 m
The actual pipe length between the outdoor unit and the indoor unit at the farthest distance from the outdoor unit is 120 m. The maximum height difference between outdoor and indoor unit is 40* meters.

*: The difference is 50 m for the conditions where the outdoor unit is installed above



Outdoor unit program

Model		Capacity	OVW3224T1 (8 HP)	OVW3280T1 (10 HP)	OVW3335T1 (12 HP)
	OVW3224T1	8 HP	•		
	OVW3280T1	10 HP		•	
	OVW3335T1	12 HP			•
	OVW3448T1	16 HP	• •		
	OVW3504T1	18 HP	•	•	
	OVW3560T1	20 HP		• •	
	OVW3615T1	22 HP		•	•
	OVW3670T1	24 HP			• •
	OVW3728T1	26 HP	• •	•	
	OVW3784T1	28 HP	•	• •	
	OVW3784T1	28 HP	•	• •	
	OVW3840T1	30 HP		• • •	
	OVW3895T1	32 HP		• •	•
	OVW3950T1	34 HP		•	• •
	OVW31005T1	36 HP			• • •
	OVW31064T1	38 HP	•	• • •	
	OVW31120T1	40 HP		• • • •	
	OVW31175T1	42 HP		• • •	•
	OVW31230T1	44 HP		• •	• •
	OVW31285T1	46 HP		•	• • •
	OVW31340T1	48 HP			• • • •

VITOClima WATER, water-cooled VRF air conditioning systems

Model Capacity			OVW3224T1 8 HP	OVW3280T1 10 HP	OVW3335T1 12 HP
Cooling capacity		kW	22.4	28	33.5
Heating capacity		kW	25	31.5	37.5
EER		W/W	5.74	4.91	4.24
COP		W/W	6.25	5.83	5.10
Water flow		m³/h	4.8	6	7.2
Sound Pressure Level		dB(A)	50	52	52
Refrigerant			R410A	R410A	R410A
Power Supply			380V~41 5V 3Ph, 50/60Hz		
Rated Power	Cooling	kW	3.9	5.7	7.9
	Heating	kW	4.0	5.4	7.35
Variable Refrigerant Pipe Connections	Gas	mm	Ø22.2	Ø22.2	Ø25.4
	Liquid	mm	Ø9.52	Ø9.52	Ø12.7
Water Pipe Connections	Input	mm	DN32	DN32	DN32
	Output	mm	DN32	DN32	DN32
Unit Dimensions (WxDxH)	net	mm	780x550x1000	780x550x1000	780x550x1000
Net Weight		kg	162	162	162

Model Capacity			OVW3448T1 16 HP	OVW3504T1 18 HP	OVW3560T1 20 HP	OVW3615T1 22 HP	OVW3670T1 24 HP
Module 1			OVW3224T1	OVW3224T1	OVW3280T1	OVW3280T1	OVW3335T1
Module 2			OVW3224T1	OVW3280T1	OVW3280T1	OVW3335T1	OVW3335T1
Capacity	Cooling	kW	44.8	50.4	56.0	61.5	67.0
	Heating	kW	50.0	54.0	63.0	69.0	75.0
Sound Pressure Level		dB(A)	53	54	55	55	55
Water Flow		m³/h	9.6	10.8	12.0	13.2	14.4
Power Supply			380V~415V 3Ph, 50/60Hz				
Rated Power	Cooling	kW	3.9+3.9	3.9+5.7	5.7+5.7	5.7+7.9	7.9+7.9
	Heating	kW	4.0+4.0	4.0+5.4	5.4+5.4	5.4+7.35	7.35+7.35
Unit Dimensions (WxDxH)	Net	mm	2x(780x550x1000)	2x(780x550x1000)	2x(780x550x1000)	2x(780x550x1000)	2x(780x550x1000)
Piping	Gas	mm	Ø28.6	Ø28.6	Ø28.6	Ø28.6	Ø28.6
	Liquid	mm	Ø12.7	Ø15.9	Ø15.9	Ø15.9	Ø15.9
Net Weight		kg	162+162	162+162	162+162	162+162	162+162

VITOCLIMA WATER with water-cooled condenser

Cooling capacity: 8 HP - 48 HP

VITOCLIMA WATER, water-cooled VRF air conditioning systems

Model			OVW3728T1	OVW3784T1	OVW3840T1	OVW3895T1
Capacity			26 HP	28 HP	30 HP	32 HP
Module 1			OVW3224T1	OVW3224T1	OVW3280T1	OVW3280T1
Module 2			OVW3224T1	OVW3280T1	OVW3280T1	OVW3280T1
Module 3			OVW3280T1	OVW3280T1	OVW3280T1	OVW3335T1
Capacity	Cooling	kW	72.8	78.4	84.0	89.5
	Heating	kW	81.5	88.0	94.5	100.5
Sound Pressure Level		dB(A)	56	57	57	57
Water Flow		m³/h	15.6	16.8	18.0	19.2
Power Supply			380V~415V 3Ph, 50/60Hz			
Rated Power	Cooling	kW	3.9+3.9+5.7	3.9+5.7+5.7	5.7+5.7+5.7	5.7+5.7+7.9
	Heating	kW	4.0+4.0+5.4	4.0+5.4+5.4	5.4+5.4+5.4	5.4+5.4+7.35
Unit Dimensions (WxDxH)		Net mm	3x(780x550x1000)	3x(780x550x1000)	3x(780x550x1000)	3x(780x550x1000)
Piping	Gas	mm	Ø31.8	Ø31.8	Ø31.8	Ø31.8
	Liquid	mm	Ø19.05	Ø19.05	Ø19.05	Ø19.05
Net Weight		kg	162+162+162	162+1 62+162	162+1 62+162	162+1 62+162

Model			OVW3950T1	OVW31005T1	OVW31064T1	OVW31120T1
Capacity			34 HP	36 HP	38 HP	40 HP
Module 1			OVW3280T1	OVW3335T1	OVW3224T1	OVW3280T1
Module 2			OVW3335T1	OVW3335T1	OVW3280T1	OVW3280T1
Module 3			OVW3335T1	OVW3335T1	OVW3280T1	OVW3280T1
Module 4			-	-	OVW3280T1	OVW3280T1
Capacity	Cooling	kW	95.0	100.5	106.4	112.0
	Heating	kW	106.5	112.5	119.5	126.0
Sound Pressure Level		dB(A)	57	57	58	59
Water Flow		m³/h	20.4	21.6	22.8	24.0
Power Supply			380V~415V 3Ph, 50/60Hz			
Rated Power	Cooling	kW	5.7+7.9+7.9	7.9+7.9+7.9	3.9+5.7+5.7+5.7	5.7+5.7+5.7+5.7
	Heating	kW	5.4+7.35+7.35	7.35+7.35+7.35	4.0+5.4+5.4+5.4	5.4+5.4+5.4+5.4
Unit Dimensions (WxDxH)		Net mm	3x(780x550x1000)	3x(780x550x1000)	4x(780x550x1000)	4x(780x550x1000)
Piping	Gas	mm	Ø31.8	Ø38.1	Ø38.1	Ø38.1
	Liquid	mm	Ø19.05	Ø19.05	Ø19.05	Ø19.05
Net Weight		kg	162+162+162	162+162+162	162+162+162+162	162+162+162+162

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOClima WATER, water-cooled VRF air conditioning systems

Model			OVW3175T1	OVW31230T1	OVW31285T1	OVW31340T1
Capacity			42 HP	44 HP	46 HP	48 HP
Module 1			OVW3280T1	OVW3280T1	OVW3280T1	OVW3335T1
Module 2			OVW3280T1	OVW3280T1	OVW3335T1	OVW3335T1
Module 3			OVW3280T1	OVW3335T1	OVW3335T1	OVW3335T1
Module 4			OVW3335T1	OVW3335T1	OVW3335T1	OVW3335T1
Capacity	Cooling	kW	117.5	123.0	128.5	134.0
	Heating	kW	132.0	138.0	144.0	150.0
Sound Pressure Level		dB(A)	59	59	59	59
Water Flow		m³/h	25.2	26.4	27.6	28.8
Power Supply			380V~415V 3Ph, 50/60Hz			
Rated Power	Cooling	kW	5.7+5.7+5.7+7.9	5.7+5.7+7.9+7.9	5.7+7.9+7.9+7.9	7.9+7.9+7.9+7.9
	Heating	kW	5.4+5.4+5.4+7.35	5.4+5.4+7.35+7.35	5.4+7.35+7.35+7.35	7.35+7.35+7.35+7.35
Unit Dimensions (WxDxH)		Net mm	4x(780x550x1000)	4x(780x550x1000)	4x(780x550x1000)	4x(780x550x1000)
Piping	Gas	mm	Ø38.1	Ø38.1	Ø38.1	Ø38.1
	Liquid	mm	Ø19.05	Ø19.05	Ø19.05	Ø19.05
Net Weight		kg	162+162+162+162	162+162+162+162	162+162+162+162	162+162+162+162

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB/ 6 °C WB. Pipe length 7.5m, height difference is zero.

VITOClima Indoor unit program products

Indoor units		2,2	2,5	2,8	3,2	3,6	4	4,5	5	5,6	6,3	7,1	8	9	10	11,2	12,5	14	16	22,4	28	45
Wall-mounted indoor units		•		•		•		•	•	•	•	•	•	•								
	 Shine products	•		•		•		•	•	•	•	•										
Ceiling concealed duct type indoor unit	 High static pressure	•		•		•		•		•	•	•	•	•	•	•	•	•	•	•	•	
	 High static pressure-power	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	 Low static pressure	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
	 Slim products	•	•	•	•	•	•	•	•	•	•	•										
Cassette type indoor units	 4-way			•		•		•	•	•	•	•	•	•	•	•	•	•	•			
	 4-way compact	•		•		•		•	•	•												
	 2-way			•		•		•	•	•	•	•										
	 one-way	•		•		•		•	•													
Concealed duct type indoor unit		•		•		•		•		•	•	•										
Floor-ceiling indoor unit				•		•			•		•	•		•		•	•	•				
Floor standing indoor unit															•			•				
Fresh air duct indoor unit																		•		•	•	•

Note: Not all products from the indoor unit program are available. Contact your sales representative for information.

General Features

- Homogeneous air distribution with wider angle of discharge
- Better air cleaning with triple filter
- Cold air prevention operation - HOT START function
- Standard wireless controller



VRCYAP1F6
Standard Wireless
Remote Controller



VRCXK46
Optional Wired
Remote Controller



VITOCLIMA VRF wall-mounted indoor unit

Model			WV3022M2	WV3028M2	WV3036M2	WV3045M2	WV3050M2
Cooling capacity	kW		2.2	2.8	3.6	4.5	5.0
Heating capacity	kW		2.5	3.2	4.0	5.0	5.6
Air Flow	m³/h		500/440/300	500/440/300	630/460/320	850/580/500	850/580/500
Sound Pressure Level	dB(A)		35/33/30	35/33/30	38/35/31	43/40/37	43/40/37
Power Supply			220~240V 1Ph~50/60Hz				
Rated Power	Cooling	W	20	20	25	35	35
	Heating	W	20	20	25	35	35
Connecting pipe	Gas	mm	Ø9.52	Ø9.52	Ø12.7	Ø12.7	Ø12.7
		inch	3/8"	3/8"	1/2"	1/2"	1/2"
	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35
		inch	1/4"	1/4"	1/4"	1/4"	1/4"
Drain pipe	Out. diameter	mm	Ø20	Ø20	Ø20	Ø20	Ø20
	Thickness	mm	1.5	1.5	1.5	1.5	1.5
Unit Dimensions (WxDxH)	Net	mm	845x209x289	845x209x289	845x209x289	970x300x224	970x300x224
	Gross	mm	976x281x379	976x281x379	976x281x379	1.096x383x320	1.096x383x320
Weight	Net	kg	10.5	10.5	10.5	12.5	12.5
	Gross	kg	12.5	12.5	12.5	15.5	15.5

Model			WV3056M2	WV3063M2	WV3071M2	WV3080M2	WV3090M2
Cooling capacity	kW		5.6	6.3	7.1	8.0	9.0
Heating capacity	kW		6.3	7.1	7.5	9.0	10.0
Air Flow	m³/h		1.100/850/650	1.100/850/650	1.200/850/650	1.550x1050x800	1.550/1050/800
Sound Pressure Level	dB(A)		43/41/37	43/41/37	44/41/37	49/46/40	49/49/40
Power Supply			220~240V 1Ph~50/60Hz				
Rated Power	Cooling	W	50	50	65	80	80
	Heating	W	50	50	65	80	80
Connecting pipe	Gas	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9	Ø15.9
		inch	5/8"	5/8"	5/8"	5/8"	5/8"
	Liquid	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
		inch	3/8"	3/8"	3/8"	3/8"	3/8"
Drain pipe	Out. diameter	mm	Ø20	Ø20	Ø20	Ø20	Ø20
	Thickness	mm	1.5	1.5	1.5	1.5	1.5
Unit Dimensions (WxDxH)	Net	mm	1.078x325x246	1.078x325x246	1.078x325x246	1.350x258x326	1.350x258x326
	Gross	mm	1.203x413x350	1.203x413x350	1.203x413x350	1.496x421x369	1.496x421x369
Weight	Net	kg	16.0	16.0	16.0	18.5	18.5
	Gross	kg	19.0	19.0	19.0	23.5	23.5

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOCLIMA

Wall-mounted indoor units with black panel "shine"

Cooling capacity: 2,2 kW - 7,1 kW

General Features

- Homogeneous air distribution with wider angle of discharge
- Better air cleaning with triple filter
- Cold air prevention operation - HOT START function
- Standard wireless controller
- Aesthetic design of the SHINE series



VRCYAP1F6
Standards Wireless
Remote Controller



VRCXK46
Optional Wired
Remote Controller



VITOCLIMA VRF wall-mounted indoor unit, SHINE series

Model			WV3022M4	WV3028M4	WV3036M4	WV3045M4
Cooling capacity	kW		2.2	2.8	3.6	4.5
Heating capacity	kW		2.5	3.2	4.0	5.0
Air Flow	(max/nom/min) m³/h		500/440/300	500/440/300	630/460/320	850/580/500
Sound Pressure Level	(max/nom/min) dB(A)		35/33/30	35/33/30	38/35/31	43/40/37
Power Supply			220~240V 1Ph~50/60Hz			
Rated Power	Cooling	W	20	25	35	35
	Heating	W	20	25	35	35
Connecting pipe	Gas	mm	Ø9.52	Ø9.52	Ø12.7	Ø12.7
		inch	3/8"	3/8"	1/2"	1/2"
	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35
		inch	1/4"	1/4"	1/4"	1/4"
Drain pipe	Out. diameter	mm	Ø20	Ø20	Ø20	Ø20
	Thickness	mm	1.5	1.5	1.5	1.5
Unit Dimensions (WxDxH)	Net	mm	845x209x289	845x209x289	845x209x289	970x300x224
	Gross	mm	976x281x379	976x281x379	976x281x379	1.096x383x320
Weight	Net	kg	10.5	10.5	10.5	12.5
	Gross	kg	12.5	12.5	12.5	15.5

Model			WV3050M4	WV3056M4	WV3063M4	WV3071M4
Cooling capacity	kW		5.0	5.6	6.3	7.1
Heating capacity	kW		5.6	6.3	7.1	7.5
Air Flow	(max/nom/min) m³/h		850/580/500	1.100/850/650	1.100/850/650	1.200/850/650
Sound Pressure Level	(max/nom/min) dB(A)		43/40/37	43/41/37	43/41/37	44/41/37
Power Supply			220~240V 1Ph~50/60Hz			
Rated Power	Cooling	W	35	50	50	65
	Heating	W	35	50	50	65
Connecting pipe	Gas	mm	Ø12.7	Ø15.9	Ø15.9	Ø15.9
		inch	1/2"	5/8"	5/8"	5/8"
	Liquid	mm	Ø6.35	Ø9.52	Ø9.52	Ø9.52
		inch	1/4"	3/8"	3/8"	3/8"
Drain pipe	Out. diameter	mm	Ø20	Ø30	Ø30	Ø30
	Thickness	mm	1.5	1.5	1.5	1.5
Unit Dimensions (WxDxH)	Net	mm	970x300x224	1.078x325x246	1.078x325x246	1.078x325x246
	Gross	mm	1.096x383x320	1.203x413x350	1.203x413x350	1.203x413x350
Weight	Net	kg	12.5	16.0	16.0	16.0
	Gross	kg	15.5	19.0	19.0	19.0

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

General Features:

- Comfortable and even air distribution
- Washable long life filter
- Drain pump is able to pump the condensate up to 1 m.
- Standard wireless control



VRCYAP1F6
Standars Wireless
Remote Controller



VRCXK46
Optional Wired
Remote Controller

VITOCLIMA VRF One-way cassette type indoor units

Model			CV1E3022M2	CV1E3028M2	CV1E3036M2	CV1E3045M2	CV1E3050M2	CV1E3056M2
Cooling capacity	kW		2.2	2.8	3.6	4.5	5.0	5.6
Heating capacity	kW		2.5	3.2	4.0	5.0	5.6	6.3
Air Flow	(max/nom/min) m³/h		600/500/450	600/500/450	600/500/450	830/600/500	830/600/500	890
Sound pressure level	(max/nom/min) dB(A)		36/32/28	36/32/28	36/32/28	40/35/30	40/35/30	41
Power Supply			220~240V 1Ph~50/60Hz					
Rated Power	Cooling	W	30	30	30	45	45	45
	Heating	W	30	30	30	45	45	45
Connecting pipe	Gas	mm	Ø9.52	Ø9.52	Ø12.7	Ø12.7	Ø12.7	Ø15.9
		inch	3/8	3/8	1/2	1/2	1/2	5/8
	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52
		inch	1/4	1/4	1/4	1/4	1/4	3/8
Drain Pipe	Out.diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	987x385x178	987x385x178	987x385x178	987x385x178	987x385x178	987x385x178
	Gross	mm	1.307x501x310	1.307x501x310	1.307x501x310	1.307x501x310	1.307x501x310	1.307x501x310
Panel Dimensions (WxDxV)	Net	mm	1.200x460x55	1.200x460x55	1.200x460x55	1.200x460x55	1.200x460x55	1.200x460x55
	Gross	mm	1.265x536x118	1.265x536x118	1.265x536x118	1.265x536x118	1.265x536x118	1.265x536x118
Net Weight	Unit	kg	21	21	21	22	22	22
	Panel	kg	4.2	4.2	4.2	4.2	4.2	4.2
Gross Weight	Unit	kg	27	27	27	27	27	27
	Panel	kg	6	6	6	6	6	6

Note 1: Not all units from the indoor program are available. Contact your sales representative for information. Note 2: The height of the suspended ceiling should be 220 mm.

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB/ 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOCLIMA

Two-way cassette type indoor units

Cooling capacity: 2,8 kW - 7,1 kW

General Features:

- Comfortable and even air distribution
- Washable long life filter
- Drain pump is able to pump the condensate up to 1 m.
- Standard wireless control
- Modern design



VRCYAP1F6
Standars Wireless
Remote Controller



VRCXK46
Optional Wired
Remote Controller

VITOCLIMA VRF Two-way cassette type indoor units

Model			CV2E3028M1	CV2E3036M1	CV2E3045M1	CV2E3050M1	CV2E3056M1	CV2E3063M1	CV2E3071M1
Cooling capacity	kW		2.8	3.6	4.5	5.0	5.6	6.3	7.1
Heating capacity	kW		3.2	4.0	5.0	5.6	6.3	7.1	8.0
Air Flow	(max/nom/min) m³/h		830/600/530	830/600/530	830/600/530	830/600/530	1.100/820/760	1.100/820/760	1.100/820/760
Sound Pressure Level	(max/nom/min) dB(A)		35/33/31	35/33/31	35/33/31	35/33/31	39/37/35	39/37/35	39/37/35
Power Supply			220~240V 1Ph~50/60Hz						
Rated Power	Cooling	W	55	55	55	55	103	103	103
	Heating	W	55	55	55	55	103	103	103
Connecting pipe	Gas	mm	Ø9.52	Ø12.7	Ø12.7	Ø12.7	Ø15.9	Ø15.9	Ø15.9
		inch	3/8	1/2	1/2	1/2	5/8	5/8	5/8
	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52	Ø9.52	Ø9.52
		inch	1/4	1/4	1/4	1/4	3/8	3/8	3/8
Drain pipe	Out. diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	1.200x520x340	1.200x520x340	1.200x520x340	1.200x520x340	1.200x520x340	1.200x520x340	1.200x520x340
	Gross	mm	1.520x655x415	1.520x655x415	1.520x655x415	1.520x655x415	1.520x655x415	1.520x655x415	1.520x655x415
Panel dimensions (WxDxH)	Net	mm	1.443x630x33	1.443x630x33	1.443x630x33	1.443x630x33	1.443x630x33	1.443x630x33	1.443x630x33
	Gross	mm	1.575x765x105	1.575x765x105	1.575x765x105	1.575x765x105	1.575x765x105	1.575x765x105	1.575x765x105
Net Weight	Unit	kg	40.5	40.5	40.5	40.5	43	43	43
	Panel	kg	7	7	7	7	7	7	7
Gross Weight	Unit	kg	52.5	52.5	52.5	52.5	55	55	55
	Panel	kg	11	11	11	11	11	11	11

Note 1: Not all units from the indoor program are available. Contact your sales representative for information.

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

General Features:

- Comfortable and even air distribution
- Washable long life filter
- Drain pump is able to pump the condensate up to 1 m.
- Standard wireless control
- Easy installation in small spaces thanks to its compact dimensions.



VRCYAP1F6
Standars Wireless
Remote Controller



VRCXK46
Optional Wired
Remote Controller

VITOCLIMA Four-way cassette type indoor unit, panel 650x650 mm, compact series

Model			CV4E3022M1	CV4E3028M1	CV4E3036M1	CV4E3045M1	CV4E3050M1	CV4E3056M1
Cooling capacity	kW		2.2	2.8	3.6	4.5	5.0	5.6
Heating capacity	kW		2.5	3.2	4.0	5.0	5.6	6.3
Air Flow	(max/nom/min) m³/h		600/500/400	600/500/400	600/500/400	700/600/480	700/600/480	700/600/480
Sound Pressure Level	(max/nom/min) dB(A)		41/39/35	41/39/35	41/39/35	45/43/38	45/43/38	45/43/38
Power Supply			220~240V 1Ph~50/60Hz					
Rated Power	Cooling	W	35	35	35	45	45	45
	Heating	W	35	35	35	45	45	45
Connecting pipe	Gas	mm	Ø9.52	Ø9.52	Ø12.7	Ø12.7	Ø12.7	Ø15.9
		inch	3/8	3/8	1/2	1/2	1/2	5/8
	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52	Ø9.52
		inch	1/4	1/4	1/4	1/4	3/8	3/8
Drain pipe	Out. diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	596x596x240	596x596x240	596x596x240	596x596x240	596x596x240	596x596x240
	Gross	mm	733x733x300	733x733x300	733x733x300	733x733x300	733x733x300	733x733x300
Panel dimensions (WxDxH)	Net	mm	650x650x50	650x650x50	650x650x50	650x650x50	650x650x50	650x650x50
	Gross	mm	763x763x105	763x763x105	763x763x105	763x763x105	763x763x105	763x763x105
Net weight	Unit	kg	20.5	20.5	20.5	20.5	20.5	20.5
	Panel	kg	3.5	3.5	3.5	3.5	3.5	3.5
Gross weight	Unit	kg	25.5	25.5	25.5	25.5	25.5	25.5
	Panel	kg	5	5	5	5	5	5

Note 1: Not all units from the indoor program are available. Contact your sales representative for information.

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOCLIMA

Four-way cassette type indoor unit, panel 650x650 mm, standard series

Cooling capacity: 2,8 kW - 16 kW

General Features:

- Four-way air flow with comfortable and even air distribution
- Washable long life filter
- Drain pump is able to pump the condensate up to 1 m.
- Standard wired control
- High efficiency and ultra low noise thanks to the fan with DC motor.



VRCYAP1F6
Standars Wireless
Remote Contoller



VRCXK46
Optional Wired
Remote Controller

VITOCLIMA VRF Four-way cassette type indoor unit, standard series

Model			CV43028M1	CV43036M1	CV43045M1	CV43050M1	CV43056M1
Cooling capacity	kW		2.8	3.6	4.5	5.0	5.6
Heating capacity	kW		3.2	4.0	5.0	5.6	6.3
Air Flow	(max/nom/min)	m³/h	750/650/550	750/650/550	750/650/550	830/650/550	1.000/900/750
Sound Pressure Level	(max/nom/min)	dB(A)	36/34/31	36/34/31	36/34/31	36/34/31	37/35/32
Power Supply			220~240V 1Ph~50/60Hz				
Rated Power	Cooling	W	48	48	48	50	59
	Heating	W	48	48	48	50	59
Connecting pipe	Gas	mm	Ø9.52	Ø12.7	Ø12.7	Ø12.7	Ø15.9
		inch	3/8	1/2	1/2	1/2	5/8
	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52
		inch	1/4	1/4	1/4	1/4	3/8
Drain pipe	Out. diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	840x840x190	840x840x190	840x840x190	840x840x190	840x840x240
	Gross	mm	963x963x272	963x963x272	963x963x272	963x963x272	963x963x325
Panel Dimensions (WxDxH)	Net	mm	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65
	Gross	mm	1.033x1.038x133	1.033x1.038x133	1.033x1.038x133	1.033x1.038x133	1.033x1.038x133
Net weight	Unit	kg	25	25	25	25	30
	Panel	kg	7	7	7	7	7
Gross weight	Unit	kg	29.5	29.5	29.5	29.5	34.5
	Panel	kg	11	11	11	11	11

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 ° C DB / 19 ° C WB, outdoor temperature 35 ° C DB. Heating, indoor temperature 20 ° C DB, outdoor temperature 7 ° C DB/ 6 ° C WB. Pipe length 7.5 m, height difference is zero.

VITOClima VRF Four-way cassette type indoor unit, standard series

Model			CV43063M1	CV43071M1	CV43080M1	CV43090M1	CV43100M1
Cooling capacity		kW	6.3	7.1	8.0	9.0	10.0
Heating capacity		kW	7.1	8.0	9.0	10.0	11.2
Air Flow	(max/nom/min)	m³/h	1.000/900/750	1.180/950/850	1.180/950/850	1.500/1.350/1.100	1.500/1.350/1.100
Sound Pressure Level	(max/nom/min)	dB(A)	37/35/32	38/36/33	38/36/33	40/37/35	40/37/35
Power Supply			220~240V 1Ph~50/60Hz				
Rated Power	Cooling	W	59	68	68	98	98
	Heating	W	59	68	68	98	98
Connecting pipe	Gas	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9	Ø15.9
		inch	5/8	5/8	5/8	5/8	5/8
	Liquid	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
		inch	3/8	3/8	3/8	3/8	3/8
Drain pipe	Out. diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	840x840x240	840x840x240	840x840x240	840x840x320	840x840x320
	Gross	mm	963x963x325	963x963x325	963x963x325	963x963x409	963x963x409
Panel Dimensions(WxDxH)	Net	mm	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65
	Gross	mm	1.033x1.038x133	1.033x1.038x133	1.033x1.038x133	1.033x1.038x133	1.033x1.038x133
Net Weight	Unit	kg	30	30	30	35	35
	Panel	kg	7	7	7	7	7
Gross Weight	Unit	kg	34.5	34.5	34.5	40	40
	Panel	kg	11	11	11	11	11

VITOClima VRF Four-way cassette type indoor unit, standard series

Model			CV43112M1	CV43125M1	CV43140M1	CV43160M1
Cooling capacity		kW	11.2	12.5	14.0	16.0
Heating capacity		kW	12.5	14.0	16.0	17.5
Air Flow	(max/nom/min)	m³/h	1.700/1.400/1.100	1.860/1.500/1.150	1.860/1.500/1.150	2.100/1.700/1.400
Sound Pressure Level	(max/nom/min)	dB(A)	41/38/36	43/41/38	43/41/38	47/44/42
Power Supply			220~240V 1Ph~50/60Hz			
Rated Power	Cooling	W	110	110	110	135
	Heating	W	110	110	110	135
Connecting pipe	Gas	mm	Ø15.9	Ø15.9	Ø15.9	Ø19.05
		inch	5/8	5/8	5/8	3/4
	Liquid	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52
		inch	3/8	3/8	3/8	3/8
Drain pipe	Out diameter	mm	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	840x840x320	840x840x320	840x840x320	910x910x293
	Gross	mm	963x963x409	963x963x409	963x963x409	1.023x993x375
Panel Dimensions (WxDxH)	Net	mm	950x950x65	950x950x65	950x950x65	1.040x1.040x65
	Gross	mm	1.033x1.038x133	1.033x1.038x133	1.033x1.038x133	1.137x1.137x140
Net Weight	Unit	kg	35	35	35	45
	Panel	kg	7	7	7	7.5
Gross Weight	Unit	kg	40	40	40	56.5
	Panel	kg	11	11	11	11.5

Note 1: Not all units from the indoor program are available. Contact your sales representative for information.

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOCLIMA

Ceiling concealed duct type indoor units, low static pressure, slim type
Cooling capacity: 2,2 kW - 7,1 kW

General Features:

- High efficiency DC Inverter motor
- Silent
- Standard wired control
- Slim & small unit design
(200 mm height & 450 mm depth)



VITOCLIMA VRF Ceiling concealed duct indoor units, slim type

Model			DVS3022M1	DVS3025M1	DVS3028M1	DVS3032M1	DVS3036M1	DVS3040M1
Cooling capacity	kW		2.2	2.5	2.8	3.2	3.6	4.0
Heating capacity	kW		2.5	2.8	3.2	3.6	4.0	4.5
Air Flow	(max/nom/min) m³/h		450/400/320	450/400/320	450/400/320	550/450/340	550/450/340	750/660/540
External static pressure	Pa		0/0~15	0/0~15	0/0~15	0/0~15	0/0~15	0/0~15
Sound Pressure Level	(max/nom/min) dB(A)		30/28/22	30/28/22	30/28/22	31/29/25	31/29/25	33/30/27
Power Supply			220~240V 1Ph~50/60Hz					
Rated Power	Cooling	W	25	25	25	30	30	35
	Heating	W	25	25	25	30	30	35
Connecting pipe	Gas	mm	Ø9.52	Ø9.52	Ø9.52	Ø12.7	Ø12.7	Ø12.7
		inch	3/8	3/8	3/8	1/2	1/2	1/2
	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35
		inch	1/4	1/4	1/4	1/4	1/4	1/4
Drain pipe	Out.diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	710x450x200	710x450x200	710x450x200	710x450x200	710x450x200	1.010x450x200
	Gross	mm	1.003x551x285	1.003x551x285	1.003x551x285	1.003x551x285	1.003x551x285	1.303x551x285
Weight	Net	kg	18.5	18.5	18.5	19.5	19.5	23.5
	Gross	kg	22	22	22	23	23	28

Model			DVS3045M1	DVS3050M1	DVS3056M1	DVS3063M1	DVS3071M1
Cooling capacity	kW		4.5	5.0	5.6	6.3	7.2
Heating capacity	kW		5.0	5.6	6.3	7.1	8.0
Air Flow	(max/nom/min) m³/h		750/660/540	750/660/540	850/700/610	850/700/610	1.100/800/640
External static pressure	Pa		0/0~15	0/0~15	0/0~15	0/0~15	0/0~15
Sound Pressure Level	(max/nom/min) dB(A)		33/30/27	33/30/27	35/33/29	35/33/29	37/34/30
Power Supply			220~240V 1Ph~50/60Hz				
Rated Power	Cooling	W	35	35	45	45	50
	Heating	W	35	35	45	45	50
Connecting pipe	Gas	mm	Ø12.7	Ø12.7	Ø15.9	Ø15.9	Ø15.9
		inch	1/2	1/2	5/8	5/8	5/8
	Liquid	mm	Ø6.35	Ø6.35	Ø9.52	Ø9.52	Ø9.52
		inch	1/4	1/4	3/8	3/8	3/8
Drain pipe	Out diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	1.010x450x200	1.010x450x200	1.010x450x200	1.010x450x200	1.310x450x200
	Gross	mm	1.303x551x285	1.303x551x285	1.303x551x285	1.303x551x285	1.303x551x285
Weight	Net	kg	23.5	23.5	24.5	24.5	30.5
	Gross	kg	28	28	29	29	36

Note 1: Not all units from the indoor program are available. Contact your sales representative for information.

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero..

VITOCLIMA

Ceiling concealed duct type indoor units C series, low static pressure

Cooling capacity: 2,2 kW - 7,1 kW

General Features:

- Low noise level due to low static pressure
- Standard wired control
- Easy and fast installation in small spaces thanks to its small dimensions.
- Height 200 mm
- Standard 1 m condensate suction pump and air filter



VRCYAP1F6
Optional wireless controller



VRCXK46
Standard wired controller



VITOCLIMA VRF Ceiling concealed duct type indoor units C series, low static pressure

Model			DVL3022M2	DVL3028M2	DVL3032M2	DVL3036M2	DVL3045M2
Cooling capacity	kW		2.5	2.8	3.2	3.6	4.5
Heating capacity	kW		2.8	3.2	3.6	4.0	5.0
Air Flow	(max/nom/min)	m³/h	450/350/200	450/350/200	550/400/300	550/400/300	750/550/400
External static pressure		Pa	15/0~30	15/0~30	15/0~30	15/0~30	15/0~30
Sound Pressure Level	(max/nom/min)	dB(A)	30/25/22	30/25/22	31/27/25	31/27/25	33/29/27
Power Supply			220~240V 1Ph~50/60Hz				
Rated Power	Cooling	W	28	28	37	37	40
	Heating	W	25	25	30	30	35
Connecting pipe	Gas	mm	Ø9.52	Ø9.52	Ø12.7	Ø12.7	Ø12.7
		inch	3/8	3/8	1/2	1/2	1/2
	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35
		inch	1/4	1/4	1/4	1/4	1/4
Drain pipe	Out. diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	710x462x200	710x462x200	710x462x200	710x462x200	1.010x462x200
	Gross	mm	1.008x568x275	1.008x568x275	1.008x568x275	1.008x568x275	1.308x568x275
Weight	Net	kg	18.5	18.5	19	19	25
	Gross	kg	23.5	23.5	24	24	31

Model			DVL3050M2	DVL3056M2	DVL3063M2	DVL3071M2
Cooling capacity	kW		5.0	5.6	6.3	7.1
Heating capacity	kW		5.6	6.3	7.1	8.0
Air Flow	(max/nom/min)	m³/h	850/700/550	850/700/550	850/700/550	1.100/850/650
External static pressure		Pa	15/0~30	15/0~30	15/0~30	15/0~50
Sound Pressure Level	(max/nom/min)	dB(A)	35/31/29	35/31/29	35/31/29	37/32/30
Power Supply			220~240V 1Ph~50/60Hz			
Rated Power	Cooling	W	55	55	55	55
	Heating	W	45	45	45	50
Connecting pipe	Gas	mm	Ø12.7	Ø15.9	Ø15.9	Ø15.9
		inch	1/2	5/8	5/8	5/8
	Liquid	mm	Ø6.35	Ø9.52	Ø9.52	Ø9.52
		inch	1/4	3/8	3/8	3/8
Drain pipe	Out. diameter	mm	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	1.010x462x200	1.010x462x200	1.010x462x200	1.310x462x200
	Gross	mm	1.308x568x275	1.308x568x275	1.308x568x275	1.608x568x275
Weight	Net	kg	25	25	25	31
	Gross	kg	31	31	31	38

Note 1: Not all units from the indoor program are available. Contact your sales representative for information.

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

VRF Air Conditioning Systems

VITOCLIMA Ceiling concealed duct type indoor units, high static pressure Cooling capacity: 5,6 kW - 28 kW

General Features:

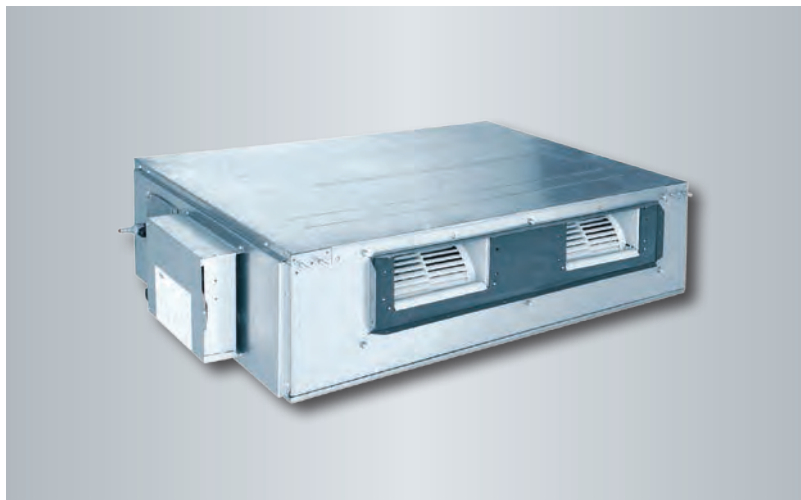
- High static pressure up to 200 Pa allows a more comfortable installation and a long ventilation duct for air distribution
- Standard wired control
- Easy installation
- Easy maintenance
- Standard 1 m condensate suction pump for the models up to 14 kW capacity
- Standard filter at the suction side



VRCYAP1F6
Optional Wireless Controller



VRCXK46
Standard Wired Controller



VITOCLIMA VRF Ceiling concealed duct type indoor units, high static pressure

Model			DVH3056M1	DVH3063M1	DVH3071M1	DVH3080M1	DVH3090M1	DVH3100M1
Cooling Capacity	kW		5.6	6.3	7.1	8.0	9.0	10.0
Heating Capacity	kW		6.3	7.1	8.0	9.0	10.0	11.2
Air Flow	(max/nom/min) m³/h		1.100/900/700	1.100/900/700	1.100/900/700	1.100/900/700	1.700/1450/1.100	1.700/1450/1.100
External static pressure	Pa		70/0~100	70/0~100	70/0~100	70/0~100	70/0~100	70/0~100
Sound Pressure Level	dB(A)		44/40/36	44/40/36	45/41/37	45/41/37	46/44/42	46/44/42
Power Supply			220~240V 1Ph~50/60Hz					
Rated Power	Cooling	W	120	120	130	130	200	200
	Heating	W	120	120	130	130	200	200
Connecting Pipe	Gas	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9	Ø15.9	Ø15.9
		inch	5/8	5/8	5/8	5/8	5/8	5/8
	Liquid	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
		inch	3/8	3/8	3/8	3/8	3/8	3/8
Drain Pipe	Out. diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Unit Dimensions	Net	mm	1.271x558x268	1.271x558x268	1.271x558x268	1.271x558x268	1.229x775x290	1.229x775x290
	Gross	mm	1.348x597x283	1.348x597x283	1.348x597x283	1.348x597x283	1.338x877x305	1.338x877x305
Weight	Net	kg	35	35	35	35	47	47
	Gross	kg	40	40	40	40	54	54

Model			DVH3112M1	DVH3125M1	DVH3140M1	DVH3160M1	DVH3224T1	DVH3280T1
Cooling capacity	kW		11.2	12.5	14.0	16.0	22.4	28.0
Heating capacity	kW		12.5	14.0	16.0	17.0	25.0	31.0
Air Flow	(max/nom/min) m³/h		1.700/1.450/1.100	2.000/1.550/1.200	2.000/1.550/1.200	2.650	4.000/3.600/3.200	4.400/4.000/3.600
External static pressure	Pa		70/0~100	70/0~100	70/0~100	70/0~150	150/50~200	150/50~200
Sound Pressure Level	dB(A)		46/44/42	48/45/42	48/45/42	50/48/46	54/52/49	55/52/50
Power Supply			220~240V 1Ph~50/60Hz					
Rated Power	Cooling	W	200	220	220	560	800	900
	Heating	W	200	220	220	560	800	900
Connecting Pipe	Gas	mm	Ø15.9	Ø15.9	Ø15.9	Ø19.05	Ø19.05	Ø22.2
		inch	5/8	5/8	5/8	3/4	3/4	7/8
	Liquid	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
		inch	3/8	3/8	3/8	3/8	3/8	3/8
Drain Pipe	Out. diameter	mm	Ø25	Ø25	Ø25	Ø20	Ø30	Ø30
	Thickness	mm	2.5	2.5	2.5	1.2	1.5	1.5
Unit Dimensions	Net	mm	1.229x775x290	1.229x775x290	1.229x775x290	1.340x750x350	1.483x791x385	1.686x870x450
	Gross	mm	1.338x877x305	1.338x877x305	1.338x877x305	1.423x837x455	1.758x883x470	1.788x988x580
Weight	Neto	kg	47	47	47	60	82	105
	Gross	kg	54	54	54	71	104	140

Note 1: Not all units from the indoor program are available. Contact your sales representative for information.

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOCLIMA

Ceiling concealed duct type indoor units, extra-high static pressure-power Cooling capacity: 2,2 kW - 16 kW

General Features:

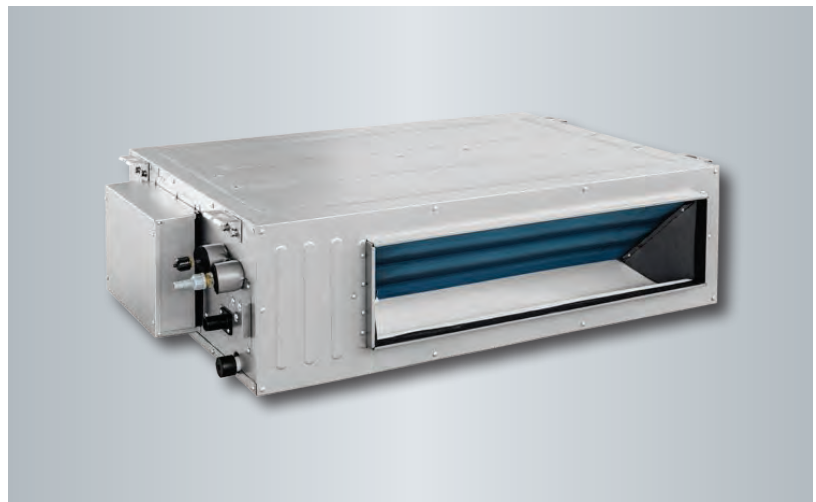
- High static pressure up to 200 Pa allows a more comfortable installation and a long ventilation duct for air distribution
- Standard wired control
- Easy installation
- Easy maintenance
- Standard 1 m condensate suction pump



VRCYAP1F6
Optional Wireless Controller



VRCXK46
Standard Wired Controller



Vitoclima VRF Ceiling concealed duct type indoor units, extra-high static pressure-power

Model			DVHP3022M1	DVHP3025M1	DVHP3028M1	DVHP3032M1	DVHP3036M1	DVHP3040M1
Cooling Capacity	kW		2.20	2.50	2.80	3.20	3.60	4.00
Heating Capacity	kW		2.50	2.80	3.20	3.60	4.00	4.50
Air Flow	(max/nom/min) m³/h		550/480/400	550/480/400	550/480/400	600/500/420	600/500/420	850/700/600
External Static Pressure	Pa		60/0~150	60/0~150	60/0~150	60/0~150	60/0~150	60/0~150
Sound Pressure Level	(max/nom/min) db(A)		35/33/31	35/33/31	35/33/31	36/34/32	36/34/32	40/37/34
Power Supply			220~240V 1Ph~50/60Hz					
Rated Power	Cooling	W	55	55	55	65	65	85
	Heating	W	55	55	55	65	65	85
Connecting Pipe	Gas	mm	Ø9.52	Ø9.52	Ø9.52	Ø12.7	Ø12.7	Ø12.7
		inch	3/8	3/8	3/8	1/2	1/2	1/2
	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35
		inch	1/4	1/4	1/4	1/4	1/4	1/4
Drain Pipe	Out. diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	700x700x300	700x700x300	700x700x300	700x700x300	700x700x300	700x700x300
	Gross	mm	897x808x362	897x808x362	897x808x362	897x808x362	897x808x362	897x808x362
Weight	Net	kg	32	32	32	32	32	34
	Gross	kg	38	38	38	38	38	40

Model			DVHP3045M1	DVHP3050M1	DVHP3056M1*	DVHP3063M1*	DHP3071M1*	DVHP3080M1*
Cooling Capacity	kW		4.50	5.00	5.60	6.30	7.10	8.00
Heating Capacity	kW		5.00	5.60	6.30	7.10	8.00	9.00
Air Flow	(max/nom/min) m³/h		850/700/600	850/700/600	1.000/800/700	1.000/800/700	1.250/1.050/950	1.250/1.050/950
External Static Pressure	Pa		60/0~150	60/0~150	90/0~200	90/0~200	90/0~200	90/0~200
Sound Pressure Level	(max/nom/min) db(A)		40/37/34	40/37/34	42/38/35	42/38/35	43/39/35	43/39/35
Power Supply			220~240V 1Faz~50/60Hz					
Rated Power	Cooling	W	85	85	90	90	100	100
	Heating	W	85	85	90	90	100	100
Connecting Pipe	Gas	mm	Ø12.7	Ø12.7	Ø15.9	Ø15.9	Ø15.9	Ø15.9
		inch	1/2	1/2	5/8	5/8	5/8	5/8
	Liquid	mm	Ø6.35	Ø6.35	Ø9.52	Ø9.52	Ø9.52	Ø9.52
		inch	1/4	1/4	3/8	3/8	3/8	3/8
Drain Pipe	Out. diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	700x700x300	700x700x300	1.000x700x300	1.000x700x300	1.000x700x300	1.000x700x300
	Gross	mm	897x808x362	897x808x362	1.205x813x360	1.205x813x360	1.205x813x360	1.205x813x360
Weight	Net	kg	34	34	43	43	43	43
	Gross	kg	40	40	49	49	38	49

Note: Products marked with * are ordered on a project basis.

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

VRF Air Conditioning Systems

VITOCLIMA Ceiling concealed duct type indoor units, extra- high static pressure-power Cooling capacity: 2,2 kW - 16 kW

VITOCLIMA VRF Ceiling concealed duct type indoor units, extra- high static pressure-power

Model			DVHP3090M1*	DVHP3100M1*	DVHP3112M1*	DVHP3125M1*	DVHP3140M1*	DVHP3160M1*
Cooling capacity	kW		9.00	10.00	11.20	12.50	14.00	16.00
Heating capacity	kW		10.00	11.20	12.50	14.00	16.00	18.00
Air Flow	(max/nom/min)	m³/h	1.800/1.450/1.250	1.800/1.450/1.250	2.000/1.600/1.400	2.000/1.600/1.400	2.350/1.900/1.650	2.500/2.000/1.750
		Pa	90/0~200	90/0~200	90/0~200	90/0~200	90/0~200	90/0~200
Sound Pressure Level	(max/nom/min)	dB(A)	44/41/38	44/41/38	45/42/40	45/42/40	46/43/41	47/44/42
Power Supply			220~240V 1Faz~50/60Hz					
Rated Power	Cooling	W	140	140	160	160	220	230
	Heating	W	140	140	160	160	220	230
Connecting Pipe	Gas	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9	Ø15.9	Ø15.9
		inch	5/8	5/8	5/8	5/8	5/8	5/8
	Liquid	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
		inch	3/8	3/8	3/8	3/8	3/8	3/8
Drain Pipe	Out. diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	1.400x700x300	1.400x700x300	1.400x700x300	1.400x700x300	1.400x700x300	1.400x700x300
	Gross	mm	1.601x813x360	1.601x813x360	1.601x813x360	1.601x813x360	1.601x813x360	1.601x813x360
Weight	Net	kg	57	57	57	57	58	58
	Gross	kg	64	64	64	64	67	67

Note 1: Not all units from the indoor program are available. Contact your sales representative for information. Products marked with * are ordered on a project basis.

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB/ 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOCLIMA

Fresh air indoor units

Cooling capacity: 14 kW - 45 kW

General Features:

- It is connected to standard outdoor units with upper air exhaust.
- If there is a mixture of fresh and recirculated air, it regulates the temperature of the pressurized air.
- Standard wired control
- Operating temperature range:
Cooling: 16 °C ~ 45 °C
Heating: -7 °C ~ 16 °C
- Indoor unit models FAV3140M1, FAV3224T1 and FAV3280T1 can be connected to VRF outdoor units and other indoor units if the following conditions are met:

- The total capacity of indoor units of VRF air conditioning with fresh air should be between 50% and 100% of the capacity of the outdoor unit. The capacity of indoor units with fresh air should not exceed 30% of the capacity of the outdoor unit.

- Independent indoor units with fresh air can be connected to outdoor units, provided that the capacity of indoor units with fresh air should be in the range of 50% - 100% in relation to the outdoor units to which they are connected.



- The FAV3280T2 and FAV3450T1 can only be connected directly to the outdoor unit. The FAV3280T2 can be connected to the Vitoclima 444-S OV3280T1 and the FAV3450T1 to the Vitoclima 444-S OV3450T1.



VRCYAP1F6
Optional Wireless Controller



VRCXK46
Standard Wired Controller

VITOCLIMA VRF Fresh air indoor units

Model			FAV3140M1	FAV3224T1	FAV3280T1	FAV3280T2	FAV3450T1
Cooling capacity		kW	14.0	22.4	28.0	28.0	45.0
Heating capacity		kW	10.0	16.0	20.0	20.0	32.0
Air Flow		m³/h	1.200	2.000	2.500	3.000	4.000
External static pressure	Standard	Pa	150	200	200	200	200
	Optional	Pa	200	300	300	300	300
Sound Pressure Level		dB(A)	42	47	48	51	58
Power Supply			220~240V 1Ph~50Hz	380~415V 3Ph~50Hz	380~415V 3Ph~50Hz	380~415V 3Ph~50Hz	380~415V 3Ph~50Hz
Rated Power	Cooling	W	360	740	760	1060	1240
	Heating	W	360	740	760	1060	1240
Connecting Pipe	Gas	mm	Ø15.9	Ø19.05	Ø22.2	Ø22.2	Ø28.6
		inch	5/8	3/4	7/8	7/8	9/8
	Liquid	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø12.7
		inch	3/8	3/8	3/8	3/8	1/2
Drain Pipe	Out. diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	1.463x756x300	1.500x1.000x500	1.500x1.000x500	1.500x1.000x500	1.700x1.100x650
	Gross	mm	1.154x785x360	1.840x1.200x673	1.840x1.200x673	1.840x1.200x673	1.890x1.460x835
Weight	Net	kg	63.5	130	134	134	208
	Gross	kg	71	182	188	188	266

Note 1: Not all units from the indoor program are available. Contact your sales representative for information.

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

General Features:

- Multifunctional unit with the possibility of installation on the floor and ceiling.
- Wide capacity range
- Wireless remote controller included as a standard



VRCYAP1F6
Standard Wireless
Controller



VRCXK46
Optional Wired
Controller



VITOCLIMA VRF Floor-ceiling indoor units

Model			FCV3028M1	FCV3036M1	FCV3050M1	FCV3063M1	FCV3071M1
Cooling capacity		kW	2.8	3.6	5.0	6.3	7.1
Heating capacity		kW	3.2	4.0	5.6	7.1	8.0
Air Flow	(max/nom/min)	m³/h	650/580/500	650/580/500	950/850/700	1.400/1.150/1.000	1.400/1.150/1.000
Sound Pressure Level	(max/nom/min)	dB(A)	36/34/32	36/34/32	42/38/33	44/42/39	44/42/39
Power Supply			220~240V 1Ph~50/60Hz				
Rated Power	Cooling	W	40	40	50	75	75
	Heating	W	40	40	50	75	75
Connecting Pipe	Gas	mm	Ø9.52	Ø12.7	Ø12.7	Ø15.9	Ø15.9
		inch	3/8	1/2	1/2	5/8	5/8
	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø9.52	Ø9.52
		inch	1/4	1/4	1/4	3/8	3/8
Drain Pipe	Out. diameter	mm	Ø17	Ø17	Ø17	Ø17	Ø17
	Thickness	mm	1.5	1.5	1.5	1.5	1.5
Unit Dimensions (WxDxH)	Net	mm	1.220x700x225	1.220x700x225	1.220x700x225	1.420x700x245	1.420x700x245
	Gross	mm	1.343x823x315	1.343x823x315	1.343x823x315	1.548x828x315	1.548x828x315
Weight	Net	kg	40	40	40	50	50
	Gross	kg	49	49	49	58	58

Model			FCV3090M1	FCV3112M1	FCV3125M1	FCV3140M1
Cooling capacity		kW	9.0	11.2	12.5	14.0
Heating capacity		kW	10.0	12.5	14.0	16.0
Air Flow	(max/nom/min)	m³/h	1.60 /1.400/1.200	2.000/1.800/1.450	2.000/1.800/1.450	2.000/1.800/1.450
Sound Pressure Level	(max/nom/main)	dB(A)	50/47/43	52/49/45	52/49/45	52/49/45
Power Supply			220~240V 1Ph~50/60Hz			
Rated Power	Cooling	W	140	160	160	160
	Heating	W	140	160	160	160
Connecting Pipe	Gas	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9
		inch	5/8	5/8	5/8	5/8
	Liquid	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52
		inch	3/8	3/8	3/8	3/8
Drain Pipe	Out. diameter	mm	Ø17	Ø17	Ø17	Ø17
	Thickness	mm	1.5	1.5	1.5	1.5
Unit Dimensions (WxDxH)	Net	mm	1.420x700x245	1.700x700x245	1.700x700x245	1.700x700x245
	Gross	mm	1.548x828x315	1.828x828x345	1.828x828x345	1.828x828x345
Weight	Net	kg	50	60	60	60
	Gross	kg	58	68	68	68

Note 1: Not all units from the indoor program are available. Contact your sales representative for information.

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB/ 6 °C WB. Pipe length 7.5 m, height difference is zero.

VITOClima

Floor concealed type indoor units

Cooling capacity: 2,2 kW - 7,1 kW

General Features:

- It saves space, while providing high efficiency with 200 mm thick indoor units.
- Wide capacity range
- High efficiency due to DC motor
- The depth of the indoor unit provides the possibility of installation under windows in buildings such as schools, offices, hotels.



VRCYAP1F6
Wireless Remote
Controller



VRCXK46
Optional Wired
Controller



VITOClima VRF Floor concealed type indoor units

Model			CNL3022M1	CNL3028M1	CNL3036M1	CNL3045M1	CNL3056M1
Cooling capacity	kW		2.2	2.8	3.6	4.5	5.6
Heating capacity	kW		2.5	3.2	4.0	5.0	6.3
Air Flow	(max/nom/min)	m³/h	450/350/250	450/350/250	550/450/350	650/500/400	900/750/600
External static pressure	Pa		10/0~40	10/0~40	10/0~40	15/0~60	15/0~60
Sound Pressure Level	(max/nom/min)	dB(A)	30/28/25	30/28/25	33/31/28	33/31/28	35/33/30
Power Supply			220~240V 1Ph~50/60Hz				
Rated Power	Cooling	W	35	35	43	45	80
	Heating	W	35	35	43	45	80
Connecting Pipe	Gas	mm	Ø9.52	Ø9.52	Ø12.7	Ø12.7	Ø15.9
		inch	3/8"	3/8"	1/2"	1/2"	5/8"
	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52
		inch	1/4"	1/4"	1/4"	1/4"	3/8"
Drain Pipe	Out. diameter	mm	Ø25	Ø25	Ø25	Ø25	Ø25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	700x615x200	700x615x200	700x615x200	900x615x200	1.100x615x200
	Gross	mm	893x743x305	893x743x305	893x743x305	1.123x743x305	1.323x743x305
Weight	Net	kg	23	23	23	27	32
	Gross	kg	30	30	30	36	41

Model			CNL3063M1	CNL3071M1
Cooling capacity	kW		6.3	7.1
Heating capacity	kW		7.1	8.0
Air Flow	(max/nom/min)	m³/h	900/750/600	1.100/900/700
External static pressure	Pa		15/0~60	15/0~60
Sound Pressure Level	(max/nom/min)	dB(A)	35/33/30	37/35/33
Power Supply			220~240V 1Ph~50/60Hz	
Rated Power	Cooling	W	80	90
	Heating	W	80	90
Connecting Pipe	Gas	mm	Ø15.9	Ø15.9
		inch	5/8"	5/8"
	Liquid	mm	Ø9.52	Ø9.52
		inch	3/8"	3/8"
Drain Pipe	Out. diameter	mm	Ø25	Ø25
	Thickness	mm	2.5	2.5
Unit Dimensions (WxDxH)	Net	mm	1.100x615x200	1.100x615x200
	Gross	mm	1.323x743x305	1.323x743x305
Weight	Net	kg	32	32
	Gross	kg	41	41

Note 1: Not all units from the indoor program are available. Contact your sales representative for information.

Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB / 6 °C WB. Pipe length 7.5 m, height difference is zero.

General Features:

- Simple and comfortable solution for spacious places with high ceiling
- Modern design
- Standard wireless control
- Easy installation



VRCYB1FA
Standard Wireless
Remote Controller



VRCXK46
Optional Wired
Controller

















VITOCLIMA VRF Floor standing type indoor units

Model			FSV3100M1	FSV3140M1
Cooling capacity		kW	10.0	14.0
Heating capacity		kW	11.0	15.0
Air Flow	(max/nom/min)	m³/h	1.850/1.600/1.400	1.850/1.600/1.400
Sound Pressure Level	(max/nom/min)	dB(A)	50/48/46	50/48/46
Power Supply			220~240V 1Ph~50/60Hz	
Rated Power	Cooling	W	200	200
	Heating	W	200	200
Connecting Pipe	Gas	mm	Ø15.9	Ø15.9
		inch	5/8	5/8
	Liquid	mm	Ø9.52	Ø9.52
		inch	3/8	3/8
Drain Pipe	Out. diameter	mm	Ø31	Ø31
	Thickness	mm	4.5	4.5
Unit Dimensions (WxDxH)	Net	mm	580x400x1.870	580x400x1.870
	Gross	mm	735x530x2.080	735x530x2.080
Weight	Net	kg	54	57
	Gross	kg	73	73

Note 1: Not all units from the indoor program are available. Contact your sales representative for information.

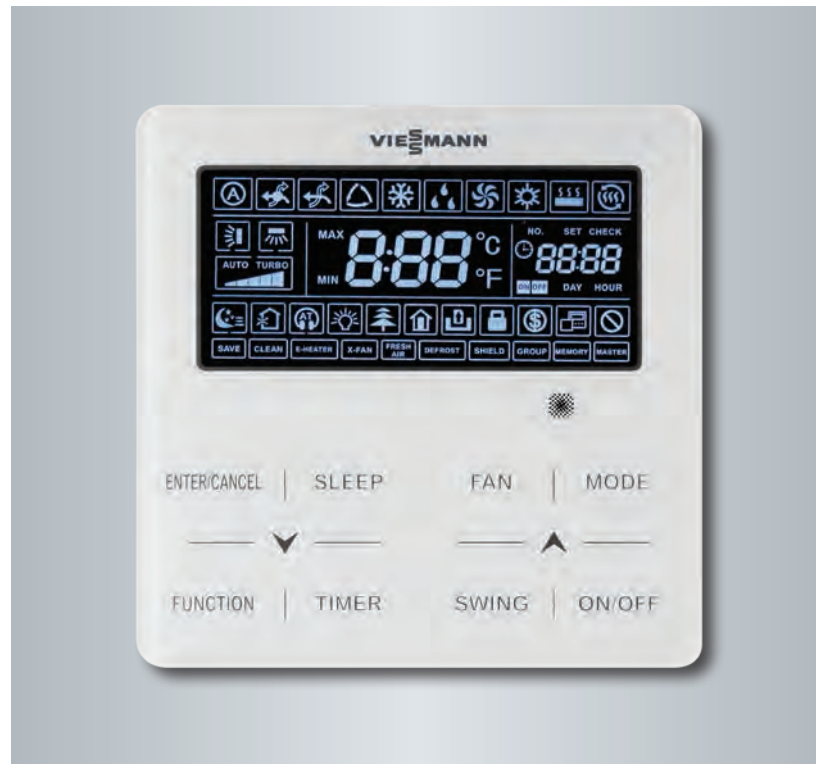
Notes: 1. The sound level was tested at 1 m in front of the device and 1.5 m in height. 2. The right to technical changes is reserved due to research and development. 3. Capacities are given according to the following project conditions. Cooling, indoor temperature 27 °C DB / 19 °C WB, outdoor temperature 35 °C DB. Heating, indoor temperature 20 °C DB, outdoor temperature 7 °C DB/ 6 °C WB. Pipe length 7.5 m, height difference is zero.

Control Systems			Indoor units					
			Cassette	Duct	Fresh air	Wall	Floor-ceiling	Floor standing
Wireless controller	VRCYAP1F		●	○	○	●	●	●
Wired Controller	VWRCXK46		○	●	●	○	○	○
	VWRCXK79		○	○	○	○	○	○
	VWRCXK55		○	○	○	○	○	○
	VRJS05 Signal receiver			○	○			
Central Controller	VCCCE52-24/F(C)		○	○	○	○	○	○
E-smart zone	VCCCE54-24/F(C)		○	○	○	○	○	○
Power Consumption Software (Software and Gateway)	VCCFE11-00/AD(B) VCCME30-24/D1(T)		○	○	○	○	○	○
PC control	VCCFE31-00/AD(BM)		○	○	○	○	○	○
Modbus gateway	VCMMME30-24/E5(M) VCMMME30-24/E6(M)		○	○	○	○	○	○
BACnet gateway control system	VCCME30-24D4(B)		○	○	○	○	○	○
KNX Gateway	VCCME30-24/F1(K)		○	○	○	○	○	○
Other	Converter VCGD02		○	○	○	○	○	○
	Repeater VRRS485-W		○	○	○	○	○	○

○ Optional ● Standard

Wired Remote Controller - VWRCXK46:

- Time can be displayed and set, 24 hour timer ON and OFF settings
- Automatic, heating, 3D heating, cooling, dry and fan modes
- Simultaneous control of several internal units can be set via the wired remote control by making master and slave settings
- Functions: Child lock function, dry, ventilation, turbo, sleep, I-feel, memory registration, filter cleaning reminder, energy saving etc.
- 7 fan speed settings with Up-Down, Right-Left swinging



Wired Remote Control, Hotel Application - VWRCXK79:

- Automatic, heating, cooling, dry and fan modes
- Simultaneous control of several internal units can be set via the wired remote control by making master and slavesettings
- 7 fan speed settings with Up-Down, Right-Left swinging
- System parameters can be displayed and function can be arranged
- It can be connected to a window contact, door contact and / or hotel card
- It can be used in dry contact applications



VITOClima

Control systems / Individual controls

Wired remote controller - VWRCXK55:

- Touch screen, elegant design
- Different time functions: three timers and one countdown timer can be set at the same time; mode, temperature and fan speed can be set in the weekly timer
- Automatic operation, heating, 3D heating, cooling, dry and fan modes
- All system functions; each function can be operated on a separate screen with an interactive interface
- It can receive signals from the wireless controller
- Settings such as light and brightness adjustment can be customized
- Functions can be displayed



Wireless remote controller (optional) - VRCYAP1F:

- Automatic operation, heating, cooling, dry and fan modes
- Turbo and 6 fan speed setting
- Functions: child/lock, dry mode, fan mode, turbo, sleep, I-feel, timer
- Clock, indoor-outdoor temperatures
- Up-down, right-left



E-smart Control - VCCCE54-24/F(C):

- One E-Smart Zone Control device can control 16 outdoor units and 32 indoor units.
- Central control, group management, program management and individual control (on/off, mode, temperature settings, fan speed, noise control etc.) can be set
- Units can be named, icons selected and individual parameters set (lighting, blinking, etc.)
- Individual power supply at 110 – 120 V
- Setting of project parameters, parameter overview, recording of malfunction parameters and access control functions
- Protection function at individual, group and all internal units (on/off, mode, temperature settings etc.)



Central Control - VCCCE52-24/F(C):

- 7-inch color LCD touch screen, 1280x 800 pixel resolution, modern design, 11 mm thick.
- Centralized control, group settings, programming and control can be performed (on / off mode, temperature setting, fan speed, vibration control).
- Units can be named, icons selected and individual parameters set (lighting, blinking, etc.)
- Central management for up to 256 indoor units
- Individual power supply at 110 – 120 V
- Setting of project parameters, parameter overview, recording of malfunction parameters and access control functions
- Protection function at individual, group and all internal units (on/off, mode, temperature settings etc.)



VITOClima

Control systems / Central controls

Modbus Gateway

Mini: VCMME30-24/E6(M)

Pro: VCMME30-24/E5(M)

The Viessmann Modbus Gateway acts as a bridge between the CANbus communication language related to the climate system and the Modbus communication language related to the monitoring system.

The Modbus gateway runs web based monitoring and control systems and building management system communication interface functions and provides remote control via realtime monitoring of air conditioning systems. In addition, the Modbus RTU protocol provides 5 digital inputs and 5 digital outputs. (A digital input is set for the fire alarm. The Modbus gateway stops the air conditioning system immediately when the fire alarm sounds.)

Application of Modbus Gateway BMS (Building management system):

Compatible with the Modbus standard protocol, the Modbus Gateway operates as a BMS (building management system) interface that provides remote monitoring and control in order to integrate the air conditioning system into the building management system. One building management system supports 255 Modbus gateways.

VCMME30-24/E5(M) Pro can support a maximum of 16 air conditioning systems and a total of up to 255 indoor units.

VCMME30-24/E6(M) Modbus mini gateway, a maximum of 16 air conditioning systems (each system can contain up to 4 outdoor units) and can support a total of up to 128 indoor units. CAN2: L2 represents CAN2, the communication between the Modbus gateway and the main outdoor unit.

CAN2 Network: In the CAN2 network, a maximum of 16 air conditioning systems and 255 indoor units can be connected to these systems. When the number of indoor units exceeds 255, one more Modbus Mini Gateway must be connected. In short, one CAN2 network can support a maximum of 2 Modbus gates, 16 air conditioning systems and a maximum of 255 indoor units.

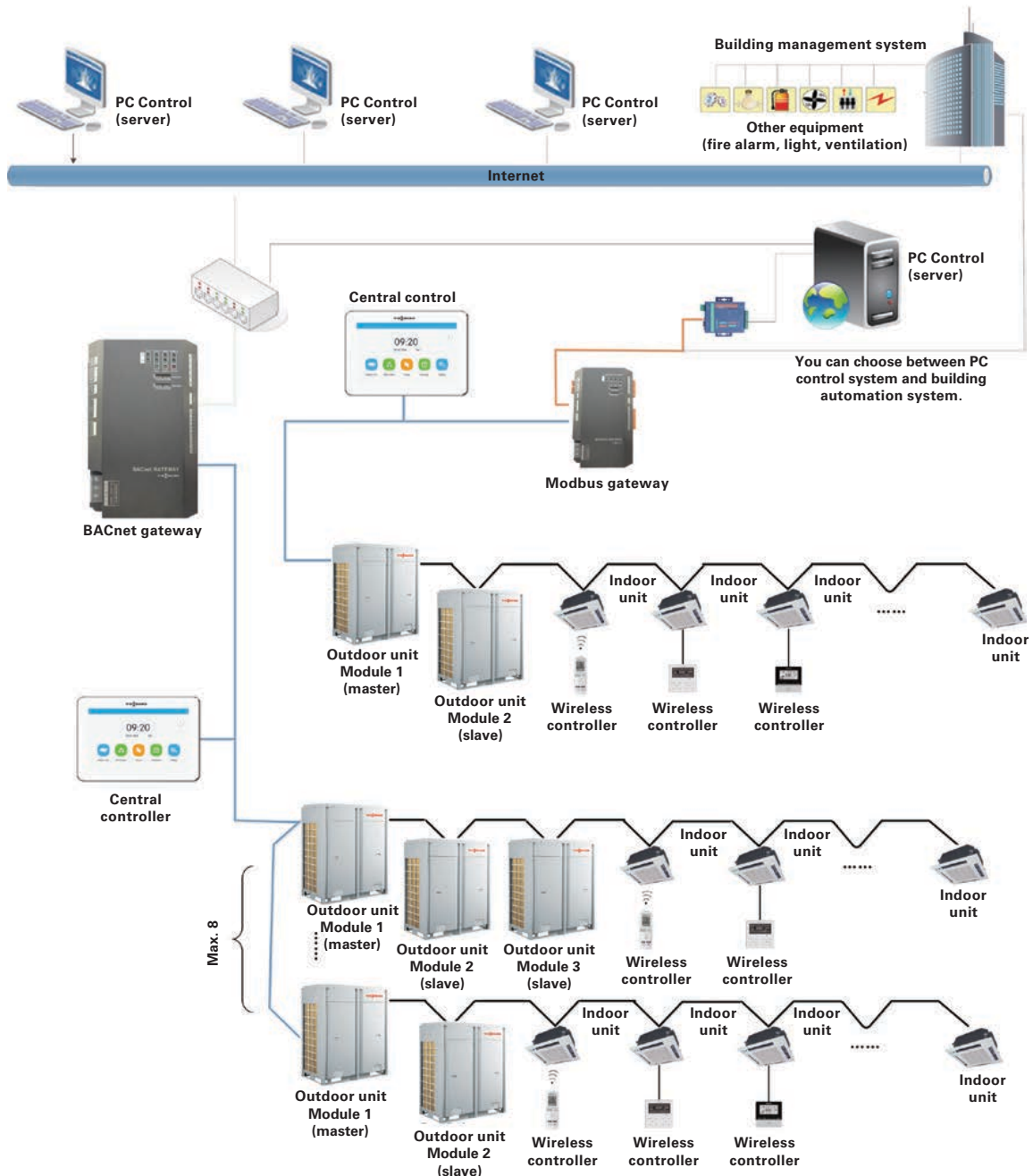


**The Viessmann web based remote monitoring and control system
or BMS (building management system)**



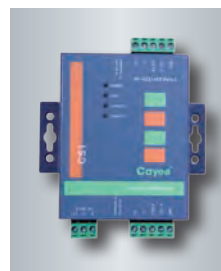
BACnet gateway (Building automation system and multiple control systems)

VCCME30-24D4 (B) BACnet gateway set provides data exchange between Vitoclima 444-S VRF air conditioning systems and automatic building management system. The Vitoclima 333-S has a multiple control system, and by providing a response for individual and central control at the same time, it provides the most suitable design solution.



Optoelectronic Converter

The optoelectronic converter is used to convert RS232 signals from the serial port of the computer to RS485 signals. This converter is only used in building management systems (BMS) using RS232 communication mode.



Optoelectronic Repeater

The optoelectronic repeater is used for protection against signal attenuation in projects with a communication distance of more than 800 m. It supports a maximum of 32 circuits and amplifies communication signals.

Power Consumption Software

The energy share meter equipment is comprised of a power consumption calculation software, gateway, wattmeter, current converter, router, etc. The power consumption calculation software and gateway are delivered by Viessmann. The wattmeter from ENTES, current converter and router have to be supplied locally. A gateway allows for calculating and remote monitoring the power consumption of 16 outdoor units and 255 indoor units connected to them.

Remote monitoring function:

It provides real time monitoring and control of the operating status of each indoor and outdoor unit.

Calculation function:

The power consumption of indoor and outdoor units within a project is calculated over the electrical power every end user consumes. Calculations are made 8 times a day.

Topological diagram details:

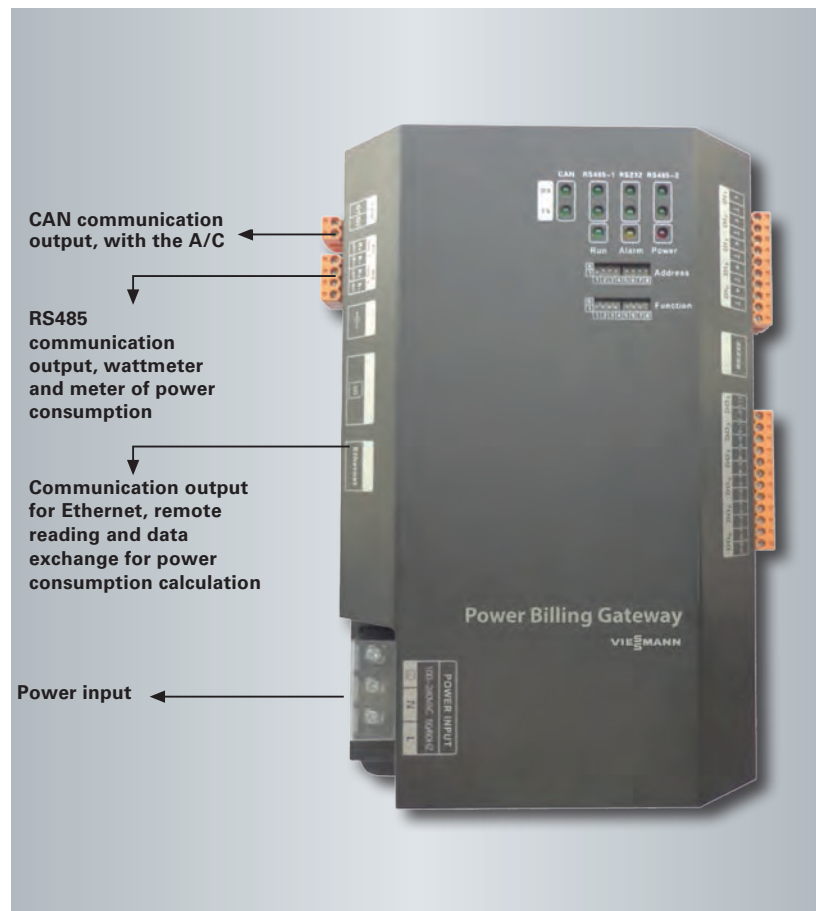
The L1 in the following diagram represents the RS485 data bus. RS485 is used for the communication between wattmeter and gateway. The distance L1 should not exceed 800 m. The number of wattmeters connected to the L1 should not exceed 16, that is, one on each system of outdoor units. The L2 in the following diagram represents the CAN2 data bus. It is comprised of CAN2, gateway and master outdoor unit. The total length of L2 should not exceed 500 m. The number of outdoor units should not exceed 16.

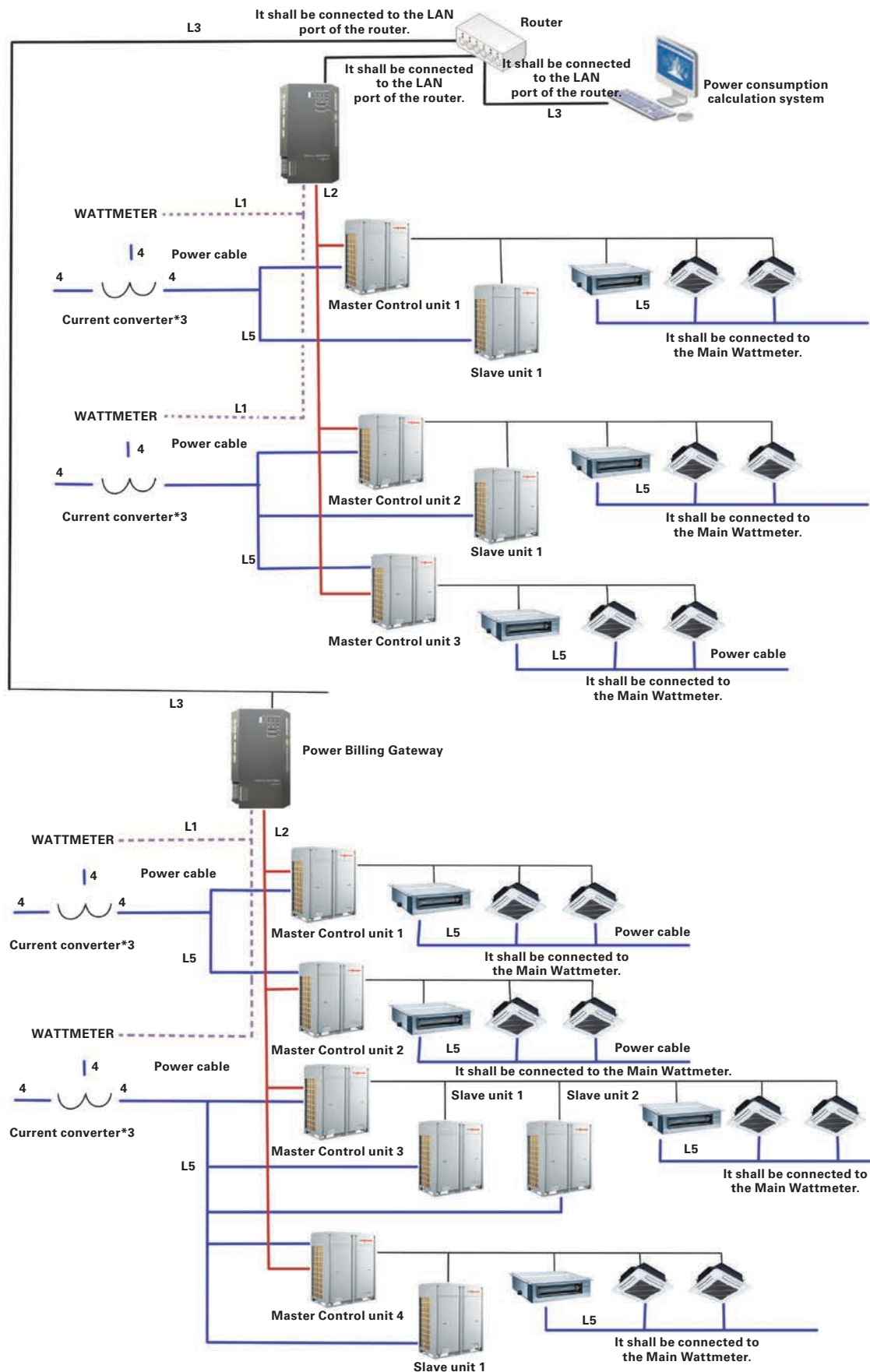
(excluding slave modules)

The L3 in the following diagram is the standard Ethernet connection line. The length of each network cable cannot exceed 80 m. All gateways and software should be connected to the LAN ports of the router.

The L5 in the following diagram represents the power cable. One wattmeter can only be connected up to two air conditioning systems. If the project includes more than 16 outdoor units or 255 indoor units, two CAN2 networks should be used.

One gateway can only be connected to one CAN2 network. One calculation software can support multiple gateways.







Air Handling Unit connection kits - AHU kit:

The air handling unit (air chamber) connection to the Vitoclima 444-S VRF outdoor unit is enabled by the AHU kit. This unit can be connected to the outdoor unit as a standard indoor unit. Connection limits are specified by the outdoor unit. The AHU kit consists of an EXV box and a control box. There are 3 types of kits: AHU-N140U / BT can be connected to a capacity of 14 kW, AHU-N280U / BT can be connected to a capacity of 22.4 to 28 kW, while AHU-N560U / BT can be connected to a capacity of 45 , 50.4 and 56 kW.

Select the air handling unit according to the information in the table below. Failure to observe these limits may affect the service life of the outdoor unit, operating ranges or operating reliability. The air handling unit can be connected to the outdoor unit as a standard indoor unit. Connection limits are specified by the outdoor unit.

Model	Capacity (kW)	Max Allowed Exchanger Volume (dm ³)		Max Allowed Exchanger Capacity (kW)				Recommended Air Flow Rate (m ³ /h)	
		Min.	Max.	Cooling		Heating		Min.	Max.
AHU-N140U/B-T*	9	1.9	2.4	7.1	9.0	8.0	10.0	1.065	1.620
	11.2	2.4	2.99	9.0	11.2	10.0	12.5	1.350	2.015
	14.0	2.99	3.74	11.2	14.0	12.5	16.0	1.680	2.380
AHU-N280U/B-T*	22.4	3.74	5.98	14.0	22.4	16.0	25.0	2.100	3.810
	28.0	5.98	7.48	22.4	28.0	25.0	31.5	3.360	4.760
	33.5	7.48	8.94	28.0	33.5	31.5	37.5	4.200	5.695
	40.0	8.94	10.68	33.5	40.0	37.5	45.0	5.025	6.800
	45.0	10.68	12.02	40.0	45.0	45.0	50.0	6.000	7.650
AHU-N560U/B-T*	50.4	12.02	13.46	45.0	50.4	50.0	56.5	6.750	8.570
	56.0	13.46	14.95	50.4	56.0	56.5	63.0	7.560	9.520
	84.0	14.95	22.43	56.0	84.0	63.0	94.5	8.400	14.280
AHU-N140U/B-T +AHU-N-560U/B-T	98.0	22.43	26.17	84.0	98.0	94.5	110.5	12.600	16.660
AHU-N280U/B-T +AHU-N560U/B-T	112.0	26.17	29.9	98.0	112.0	110.5	126.0	14.700	19.040
AHU-N560U/B-T +AHU-N560U/B-T	140.0	29.9	37.38	112.0	140.0	126.0	157.5	16.800	23.800
	168.0	37.38	44.86	140.0	168.0	157.5	189.0	21.000	28.560

*The above AHU kit table also applies to the series A (AHU-N140U / B-T, AHU-N280U / B-T, AHU-N560U / B-T).

a) Exchanger capacity is specified under conditions given below:

Super heating (SH) = 5 °C and super cooling (SC) = 3 °C.

Cooling: Evaporation temperature = 6 °C, return air temperature = 27 °C (DB) / 19°C (WB).

Heating: Condensation temperature = 46°C, return air temperature = 20°C (DB).

b) The heat exchanger of the air handling unit is designed for R410A and has an operation pressure of 4.3 Mpa

c) Exchanger number of max. sequences: 4

d) The diameter of the copper pipe of the exchanger is max. 12.7 mm. Recommended diameter size is 9.52mm

e) Air intake temperature of the exchanger: cooling: 16~35 °C, heating: 10~27 °C.

AHU kit dimensions	AHU-N140U/B-T	AHU-N280U/B-T	AHU-N560U/B-T
EXV box (WxDxH)	203×326×85	203×326×85	246×500×120
Control box (WxDxH)	334×284×111	334×284×111	334×284×111
Transportation B dimensions (WxDxH)	539×461×247	539×461×247	759×645×180
Net weight	8.6	8.6	11.8

VITOCLIMA

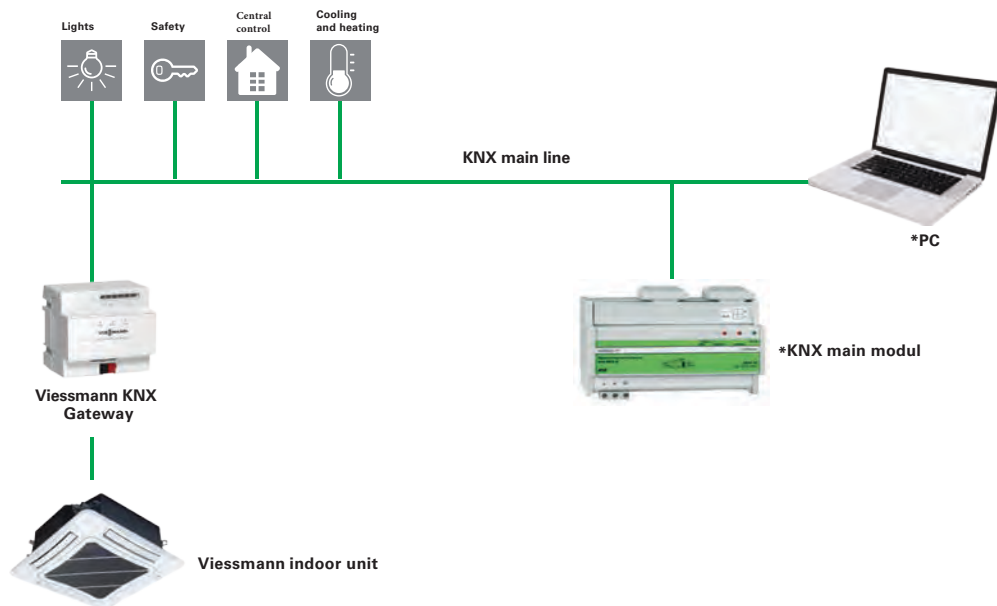
Other devices

Viessmann KNX Gateway


With the Viessmann KNX Gateway, you can control your air conditioner by integrating it with other home automation systems such as lighting, security, front door systems and control of everyday home appliances.

This way you can manage your home with flexible, smart and efficient solutions according to different needs. One KNX gateway should be used for each indoor unit.

* For KNX systems, Viessmann only provides the KNX Gateway. The main KNX and the main module for the computer should be provided by relevant automation company.



Y-Branches for VITOCLIMA VRF air conditioning systems

	Total indoor unit capacity from branch to the farthest indoor unit C (kW)	Model
	$C \leq 20,0$	VBJTRFQ0 1A/A
	$20,0 < C \leq 28,0$	VBJTRFQ0 1B/A
	$28,0 < C \leq 68,0$	VBJTRFQ02/A
	$68,0 \text{ kW} < C \leq 135,0$	VBJTRFQ03/A
	$135,0 < C$	VBJTRFQ04/A


HEADER for VITOCLIMA VRF air conditioning systems

Total indoor unit capacity from header to the farthest indoor unit C (kW) Model	Model
$C \leq 40$ (for up to 4 indoor units)	VTJTRFQ1 4H1
$C \leq 80$ (for up to 8 indoor units)	VTJTRFQ1 8H1
$80 < C$ (for up to 8 indoor units)	VTJTRFQ1 8H2


Y-Branches between HR-Boxes and outdoor unit for VITOCLIMA VRF heat recovery systems

Total Indoor Unit capacity X (kW)	Model
$X \leq 5.6$	VBJHRFQ0 1Na/A
$5.6 < X \leq 22.0$	VBJHRFQ02Na/A
$22.0 < X \leq 30.0$	VBJHRFQ03Na/A
$30.0 < X \leq 68.0$	VBJHRFQ04Na/A
$68.0 < X \leq 96.0$	VBJHRFQ05Na/A
$96.0 < X \leq 135.0$	VBJHRFQ06Na/A
$135 < X$	VBJHRFQ07Na/A

T-Branches for 2-pipe VRF systems/outdoor units for all capacities

	VBTRML01/A
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T-Branches, 3-pipe „heat recovery system“ for outdoor units

	$C \leq 95,0 \text{ kW}$	VBHRML01R
	$95,0 \text{ kW} < C$	VBHRML02R

Notes

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Viessmann d.o.o. Beograd

Pivljanina Baja 1

11000 Beograd

Serbia

Telephon: +381 11 3097887

Fax: +381 11 3097886

www.viessmann.rs

e-mail: viessmann.srb@sbb.rs