



# climaVAIR air conditioning multi systems



multi twin split range  
V-multi range

Air conditioning

# climaVAIR

## multi split systems



When it comes to creating the ideal living environment, Vaillant has it all under control. For more than 130 years, we have been setting the standards in the heating market, developing products that have revolutionised the industry. Today we are still Europe's No. 1 boiler manufacturer with an enviable reputation for performance, efficiency, quality and reliability. But staying on top requires constant innovation. So we continually invest in developing new energy efficient technologies for even better solutions - all designed to create the perfect climate at home and at work.

Take air conditioning for example. In an enclosed environment, air conditioning can improve the ambient by controlling the temperature and humidity. As well as cooling the air, our heat pump systems can efficiently heat the room during colder periods. This means you can enjoy a climate controlled environment all year round. Advanced filter solutions also bring good news for allergy sufferers with the air conditioning system cleaning the air as it circulates in the room. And, due to its high efficiency in heating mode, it's more environmentally friendly than a conventional heating system.



For over 10 years, Vaillant air conditioning systems have been the preferred choice for discerning domestic and commercial customers across mainland Europe. Now available in the UK, they have been tried, tested and proven in a huge variety of applications - and because all Vaillant systems incorporate heat pump technology to heat as well as cool, our systems offer genuine year round climate control. Furthermore, each unit has plenty of built-in convenience features representing unbeatable value.

All climaVAIR air conditioning units have high efficiency ratings and utilize zero ozone depleting potential (ODP) refrigerants.

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# climaVAIR performance

## wall mount multi twin split system



Outdoor unit



Remote control



Indoor unit

### High wall inverter multi twin split systems

Vaillant's climaVAIR performance multi heat pump range is ideal when more than one area requires air conditioning and there is limited room for the outdoor units. The range consists of 2 energy efficient inverter models of 5.0kW & 6kW. Each of these system consists of one outdoor unit which is connected to two individual indoor wall mounted units.

The multi twin split systems have all the features of the performance range such as DC inverter speed control compressors, high efficiency non-ozone depleting R410a refrigerant, three stage filtration, remote setting of horizontal and vertical louvres and simple to use multi-function infra red remote control as standard, which includes remote setting of:

- Temperature and operating mode
- Fan speed
- Louvre position
- Timer and sleep function
- Air quality settings

### climaVAIR performance high wall multi-split system models

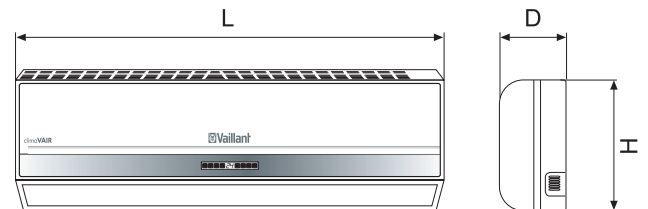
Mono inverter units:

A range of two models from 5.0kW to 6.0kW

# Dimensions and features

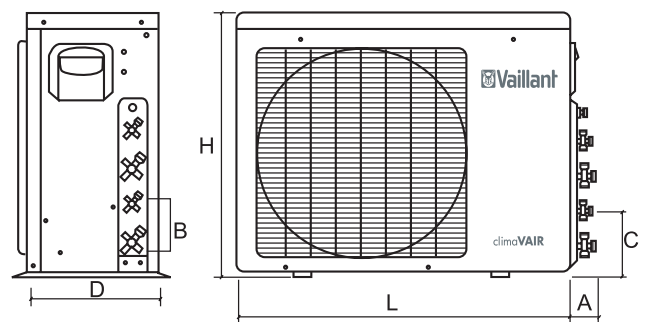
## Indoor unit dimensions

Model	H	L	D	Kg
V10-025 MNHI	285	760	185	8.6
V10-035 MNHI	285	760	185	8.6
























## Outdoor unit dimensions

Model	H	L	D	Kg
V10-050 M2NHO	915	699	325	42
V10-060 M2NHO	915	699	325	42



All climaVAIR performance high wall twin units have the following features

 <p><b>4 Modes</b> Cooling, heating, fan and dry mode.</p>	 <p><b>Turbo</b> Increases the air conditioning speed when faster room cooling/heating is required.</p>	 <p><b>DC inverter technology</b> Technology which significantly reduces energy and CO<sub>2</sub> output by matching compressor speed to cooling/heating requirement.</p>
 <p><b>Auto operation</b> Automatic activation in the appropriate mode (COOL - HEAT - DRY), by adjusting its operation to the ambient temperature. The user can also remotely select the desired airflow.</p>	 <p><b>Horizontal air swing</b> Enables the air direction to be adjusted horizontally for improved distribution.</p>	 <p><b>R410a</b> Energy efficient zero ozone depleting potential (ODP) refrigerant.</p>
 <p><b>Ionizer</b> Negative ion generator which as well as being beneficial for well-being and the environment, also neutralises odours, provides freshness and reduces contamination.</p>	 <p><b>Vertical air swing</b> Enables the air direction to be adjusted vertically for improved distribution.</p>	 <p><b>Scroll compressor</b> Scroll compressor technology for higher efficiency.</p>
 <p><b>Infra-red remote control</b> All functions controlled by infra-red remote control.</p>	 <p><b>Sleep function</b> Function which adapts the ambient temperature during sleep.</p>	 <p><b>Anti dust filter</b> Removes small particles of dust and debris from the circulated air.</p>
 <p><b>Hot start function</b> Only starts the internal fan when the heating coil is hot to prevent cool air discharge.</p>	 <p><b>24hr programmer</b> Programs the units so that they start or stop at user defined times.</p>	 <p><b>Anti-germ</b> Filter with special coating to neutralise bacteria and germs.</p>
 <p><b>Auto restart function</b> After power cut this function ensures the system restarts with the same settings (as those in force prior to power supply interruption).</p>	 <p><b>Outdoor valve protector</b> Protects the valves on the outdoor unit from exposure to the elements.</p>	 <p><b>Activated carbon filter</b> Filter with special coating to provide anti-odour and sterilisation of the circulated air to remove harmful smells and odours.</p>
 <p><b>Silent operation</b> Lowers the internal fan speed to provide reduced noise levels.</p>	 <p><b>Defrost</b> Prevents the outdoor unit from freezing in the winter months.</p>	
	 <p><b>Anti-rust outdoor</b> Outdoor unit made of galvanised steel and anti-rust materials. Even resistant in environments with high saline content.</p>	

# climaVAIR

## performance V-Multi split system



Outdoor unit



Remote control

Cassette unit



### V-Multi-split systems

Vaillant's versatile climaVAIR V-Multi heat pump range is ideal when there is a need to cool or heat a number of rooms. Each outdoor unit can connect to up to four indoor units which can be a combination of wall mount, cassette or ducted type units.

The range consists of 3 energy efficient inverter outdoor units ranging of 5.0kW & 10.5kW.

Each of the indoor units has all the features of the mono performance range. Infra red remote control is standard for the wall mount and cassette units with the ducted unit having a wired remote controller.

Functions include remote setting of:

- Temperature and operating mode
- Fan speed
- Louvres (wall and cassette only)
- Timer and sleep function
- Air quality settings (wall mount only)

### climaVAIR V-Multi-split system models

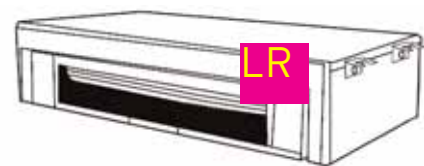
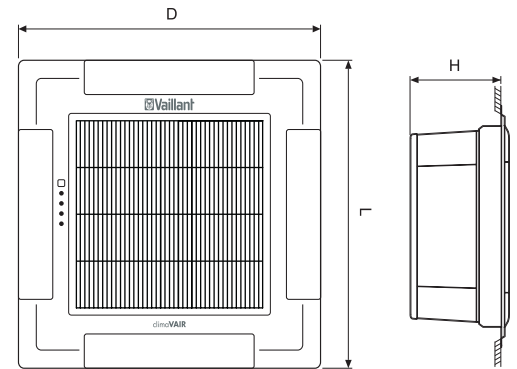
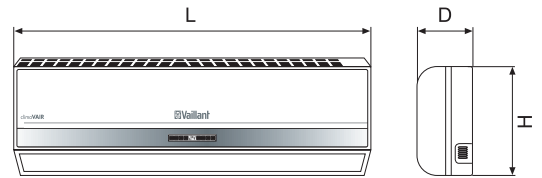
Mono inverter units:

A range of three outdoor units models from 5.0kW 10.5kW

- Three wall mounted units from 2.0 to 3.5kW
- Two cassette units of 3.5kW and 5.0kW
- Two ducted units of 3.5 and 5.0kW



# Dimensions and features



## Indoor unit dimensions

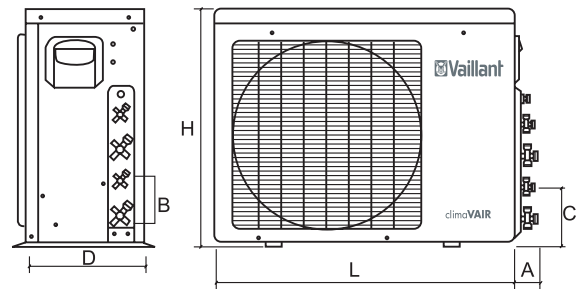
Model	H	L	D	Kg
VA6-020 MXNHI	285	760	182	8.5
VA6-025 MXNHI	285	760	182	8.5
VA6-035 MXNHI	285	760	182	8.5

Model	H	L	D	Kg
VA6 - 035 MXNHKI	260	570	570	17
VA6 - 050 MXNHKI	260	580	580	17





















Model	H	L	D	Kg
VA6 - 035 MXNHDI	290	610	550	14
VA6 - 050 MXNHDI	290	1090	500	25

## Outdoor unit dimensions

Model	H	L	D	Kg
VA6 - 050 MXNHO	928	680	288	54
VA6 - 085 MXNHO	840	1068	340	74
VA6 - 105 MXNHO	840	1068	340	74



All climaVAIR V-Multi units have the following features

 <p><b>4 Modes</b> Cooling, heating, fan and dry mode.</p>	 <p><b>Auto restart function</b> After power cut this function ensures the system restarts with the same settings (as those in force prior to power supply interruption).</p>	 <p><b>Outdoor valve protector</b> Protects the valves on the outdoor unit from exposure to the elements.</p>
 <p><b>Auto operation</b> Automatic activation in the appropriate mode (COOL - HEAT - DRY), by adjusting its operation to the ambient temperature. The user can also select the desired airflow.</p>	 <p><b>Silent operation</b> Lowers the internal fan speed to provide reduced noise levels.</p>	 <p><b>Energy class 'A'</b> Many unit combinations achieve 'A' rated energy efficiency.</p>
 <p><b>Ionizer (wall mount only)</b> Negative ion generator which as well as being beneficial for well-being and the environment, also neutralises odours, provides freshness and reduces contamination.</p>	 <p><b>Turbo</b> Increases the air conditioning speed when faster room cooling/heating is required.</p>	 <p><b>Defrost</b> Prevents the outdoor unit from freezing in the winter months.</p>
 <p><b>Infra-red remote control</b> All functions controlled by infra-red remote control.</p>	 <p><b>Horizontal air swing</b> (Cassette and high wall only) Enables the air direction to be adjusted horizontally for improved distribution.</p>	 <p><b>Anti-rust outdoor</b> Outdoor unit made of galvanised steel and anti-rust materials. Even resistant in environments with high saline content.</p>
 <p><b>Hot start function</b> Only starts the internal fan when the heating coil is hot to prevent cool air discharge.</p>	 <p><b>Vertical air swing</b> (High wall units only) Enables the air direction to be adjusted vertically for improved distribution.</p>	 <p><b>DC inverter technology</b> Technology which provides energy saving in comparison to conventional on/off systems.</p>
 <p><b>Single phase supply</b> All climaVAIR multi units operate on a single phase supply.</p>	 <p><b>Sleep function</b> Function which adapts the ambient temperature during sleep.</p>	 <p><b>R410a</b> Energy efficient zero ozone depleting potential (ODP) refrigerant.</p>
 <p><b>24h programmer</b> Programs the units so that they start or stop at user defined times.</p>	 <p><b>Twin rotary</b> Twin rotating cylinders provide improved efficiency and reduced vibration in comparison with single types.</p>	

# Technical specification

System reference	climaVAIR performance multi inverter heat pump		
		V10-050 M2N	V10-060 M2N
Cooling capacity	kW	5.42	5.47
Min ~ max	kW	1.25 - 6.00	1.3 - 6.1
Heating capacity	kW	6.32	6.44
Min ~ max	kW	1.62 - 6.8	1.72 - 6.96
Power input cooling/heating	kW	1.63/1.63	1.64/1.77
Operating current cooling/heating	A	7.5/8.8	7.8/7.4
EER/COP		3.33/3.87	3.33/3.64
Energy level class		A/A	A/A
Annual consumption <sup>1</sup>	kWh	813	821
<b>Indoor unit (1) Indoor unit (2)</b>		<b>V10-025 MNHI + V10-025 MNHI</b>	<b>V10-025 MNHI + V10-035 MNHI</b>
Air flow volume (unit 1) low/med/high	m <sup>3</sup> /h	500/440/380	500/440/380
Air flow volume (unit 2) low/med/high	m <sup>3</sup> /h	500/440/380	500/440/380
Remote control		Infra red	Infra red
Sound pressure level (unit 1 - unit 2) min/max <sup>2</sup>	dB(A)	26/38 - 26/38	26/38 - 28/40
Dimensions HxLxD (unit 1)	mm	285x760x185	285x760x185
Dimensions HxLxD (unit 1)	mm	285x760x185	285x760x185
Weight	Kg	8.6	8.6
<b>Outdoor unit</b>		<b>V10-050 M2NHO</b>	<b>V10-060 M2NHO</b>
Air flow volume	m <sup>3</sup> /h	2800	2800
Sound pressure level <sup>3</sup>	dB(A)	52	52
Refrigerant		R410a	R410a
Refrigerant charge heat pump	gr	1800	1800
Compressor type		DC scroll	DC scroll
Dimensions HxLxD	mm	915x699x325	915x699x325
Weight	Kg	42	42
<b>Installation</b>			
Power supply	V.Ph.Hz	230/1/50	230/1/50
Max operating current	A	10.3	10.4
Recommended fuse size (Type D)	A	16	16
Interconnecting cores (indoor to outdoor)		3 core + Earth (to each indoor)	3 core + Earth (to each indoor)
Supply to		Outdoor	Outdoor
Pipe connection liq/gas (Units 1&2)	inches	1/4-3/8	1/4-3/8
Max. Piping length (each circuit)	m	15	15
Max. height differential indoor to outdoor	m	10	10
Chargeless length	m	10	10
Additional charge per metre	gr	20g	20g

<sup>1</sup> Based on 500 hours operating at maximum load

<sup>2</sup> Sound pressure level IU: directivity 3 dB(A) distance 2.2 m.

<sup>3</sup> Sound pressure level OU: directivity 3 dB(A) distance 1.8 m.

<sup>4</sup> Minimum operating temperature cooling/heating 18°C/-7°C

Nominal cooling capacities based on indoor temperatures of 27°CDB/19°CWB -- outdoor temperatures 35°CDB/24°CWB.

# Technical specification

System reference		Indoor units						
		VA10 - 020 MXNHI	VA10 - 025 MXNHI	VA10 - 035 MXNHI	VA6 - 035 MXNHKI	VA6 - 050 MXNHKI	VA6 - 035 MXNHDI	VA6 - 050 MXNHDI
Cooling capacity	kW	2.00	2.50	3.50	3.24	5.03	3.61	5.15
Heating capacity	kW	2.30	2.90	3.80	3.45	5.47	3.85	5.65
Net dimensions HxLxD	mm	285x760x182	285x760x182	285x760x182	260x570x570	260x580x580	290x610x550	290x1090x500
Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Air flow volume high/med/low	m <sup>3</sup> /h	450/400/370	500/450/400	600/550/500	630/530/450	670/600/550	[550/]500/ 450/400	[1270/]1160/ 1020/900
Sound pressure level min/max <sup>2</sup>	dB(A)	32/43	32/43	32/43	37/44	37/44	35/40	38/44
Pipe connection liq/gas	in	1/4-3/8	1/4-3/8	1/4-3/8	1/4-3/8	1/4-1/2*	1/4-3/8	1/4-1/2*
Net weight	Kg	8.6	8.6	8.6	17.0	19.0	14.0	25.0
Recommended MCB size (type D)	A	10.0	10.0	10.0	10.0	10.0	10.0	10.0

System reference		Outdoor units		
		VA6 - 050 MXNHO	VA6 - 085 MXNHO	VA6 - 105 MXNHO
Nominal cooling capacity <sup>1</sup>	kW	5.55	8.20	10.27
(Min-max)	kW	1.80-6.3	1.5-10.25	1.5-11.0
Nominal heating capacity <sup>1</sup>	kW	6.65	9.86	11.11
(Min-max)	kW	1.8-7.5	1.8-11.5	1.8-11.5
Nominal power input cooling/heating <sup>1</sup>	kW	1.72/1.76	2.47/2.69	3.27/3.14
Operating current cooling/heating	A	8.60/9.34	12.30/11.90	16.37/14.00
EER/COP		3.23/3.78	3.31/3.67	3.14/3.53
Nominal energy label cooling/heating <sup>1</sup>		A/A	A/A	B/B
Compressor type		Inverter DC twin rotary	Inverter DC twin rotary	Inverter DC twin rotary
Max. power input	kW	2.30	3.80	4.00
Air flow volume high/med/low	m <sup>3</sup> /h	3200/2300/1600	4000/3200/2300	4300/3500/2600
Sound pressure level (max) <sup>3</sup>	dB(A)	53	53	55
Dimensions HxLxD	mm	928x288x680	840x1068x340	840x1068x340
Net weight	Kg	54	74	75
<b>Installation</b>				
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50
Maximum operating current	A	10.20	16.60	18.10
Power to:		Outdoor + indoor	Outdoor + indoor	Outdoor + indoor
Interconnecting wiring		2 core sheathed data	2 core sheathed data	2 core sheathed data
Recommended fuse rating (type D)	A	16	20	20
Pipe connection liq/gas	in	1/4-3/8	1/4-3/8	1/4-3/8
Max. piping length (longest single pipe circuit)	m	25	25	25
Max. total pipe length of all circuits added together	m	45	60	60
Max. height IU under OU	m	10	10	10
Max. height OU under IU	m	15	15	15
Chargeless length (total for all circuits)	m	30	40	40
Additional charge per meter	gr	20	20	20

<sup>1</sup> Actual ratings dependent on system components.

<sup>2</sup> Sound pressure level indoor unit: directivity 3 dB(A) distance 2.2m.

<sup>3</sup> Sound pressure level external unit: directivity 3 dB(A) distance 1.8m.

Nominal cooling capacities based on indoor temperatures of 27°CDB/19°CWB -- outdoor temperatures 35°CDB/24°CWB

\* adaptor supplied.

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