

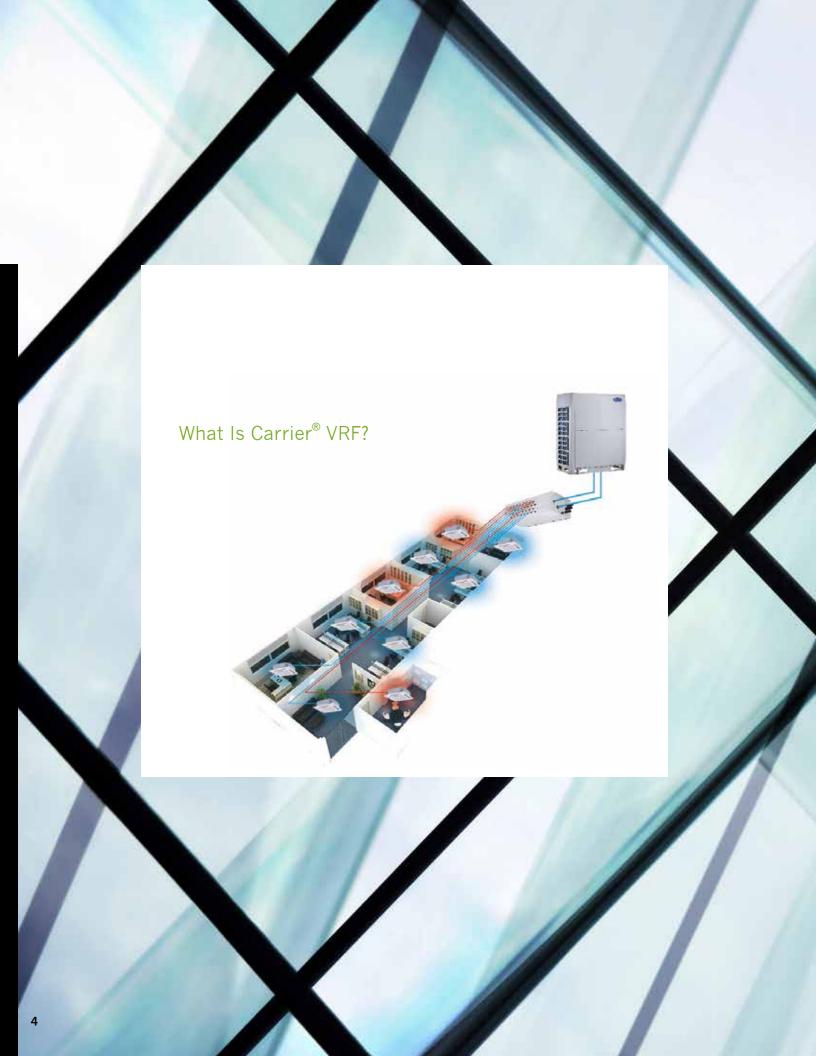




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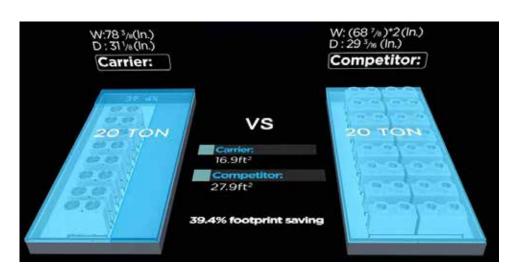




Revolutionary Design

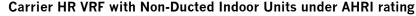
Smaller Footprint

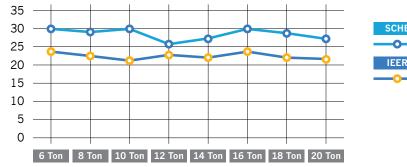
VRF systems provide several installation advantages by eliminating the need to install large distribution fans, water pumps and large pipes. VRF systems do not require dedicated maintenance rooms or service shafts, freeing up valuable real estate space in the buildings where they're installed. The Carrier® VRF heat recovery 20-ton system is 40 percent smaller compared to other VRF outdoor units in the marketplace.



High Efficiency

Carrier VRF achieves high efficiency in cooling and heating by utilizing all DC Inverter compressors, all DC fan motors and high-efficiency heat exchangers. The cooling IEER is 24.7, and heating SCHE is up to 30.0.

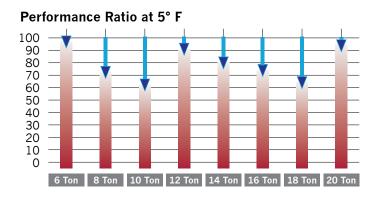






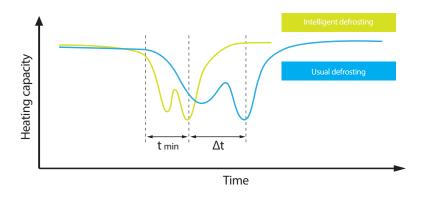
High Heating Performance

The Carrier® VRF system provides heating down to -13° F with up to 70% of the rated heating capacity. This is just one more way we deliver comfort solutions for any indoor space, anytime of the year.



Enhanced Defrost Control

The enhanced defrost control can adjust the defrosting cycle time based on system operating environments. This reduces heat loss due to unnecessary defrost operation and maintains indoor heating consistency by using hot gas through bottom of coil in the outdoor unit.



Advanced Technology

Compressor

Occupants enjoy balanced, consistent comfort because the operating sequence of the outdoor units and the individual compressors are rotated to spread operating hours evenly. Because the compressors are all Inverter-driven, inrush currents are eliminated. There is no on/off power surge as the system adjusts to the demands of the occupant or system. And, the use of Inverter compressors reduces the risk of compressor failure, more common in standard non-Inverter systems. The outdoor unit provides greater backup capability in case of a compressor failure. If that happens, the failed compressor can be easily isolated while the system continues to operate, maintaining comfort until the faulty compressor is repaired or addressed.





Carrier® VRF Scroll Compressor

Asymmetric scroll compressor design reduces compression losses while increasing energy efficiency and reliability. The compression losses are minimized by applying fluid dynamic design principles. The compressors are equipped with cutting-edge DC Inverter technology and advanced permanent magnet DC motors, making them stable and robust.

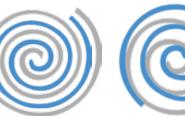
Carrier® VRF compressors are Inverter-driven, meaning they are capable of precisely matching the building's cooling and heating demands. Compressors operate the majority of the time within the most efficient frequency range, 50 ~ 80Hz.







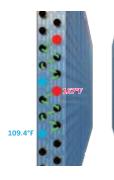
Symmetric scroll wrap





High Performance Heat Exchanger

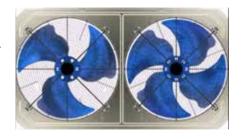
The advanced heat exchanger design enlarges the heat-exchange area, decreasing the air resistance while the hydrophilic fins and inner-threaded copper pipes optimize heat-exchange efficiency.





Advanced Silent Technology with Fan Blade Design

The outlet grille and shape of the fan blade decrease the running noise and lower down airflow resistance and vibration. Paired with the DC Inverter compressor, the condenser is extremely quiet with operation as low as 58.4 dB(A).



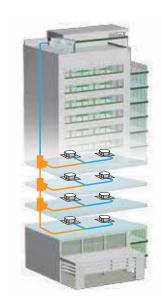
Hinged Electrical and Control Design

The electric control box can be rotated by a maximum of 150 degrees to make it much easier to dismount the control box and convenient for pipeline inspection or servicing.



Flexibility

Smaller equipment footprints matched with longer pipe lengths means there's a Carrier® VRF configuration for virtually any commercial or large residential application. Carrier VRF systems provide flexibility on reconfiguration of space for future use and can seamlessly adapt to building changes. Changing space can be easily accommodated with the different styles of indoor units without compromising the comfort level.



Reliabilty

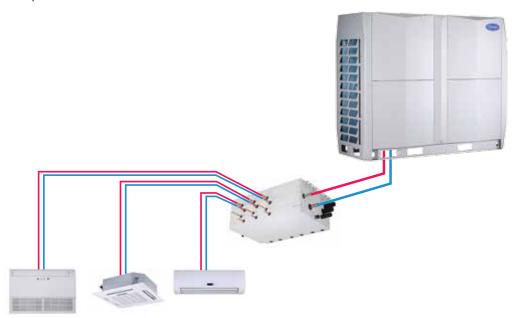
The operating sequence of the individual compressors is rotated, balancing their operating hours and distributing load evenly. Inverters reduce the risk of compressor failure and eliminate on/off power surges.



Installation Made Simple

Reduce Piping Connections

Two-pipe heat recovery system with innovative MDC provides simultaneous cooling and heating while reducing refrigerant pipe connections by reducing the number of joints between the outdoor unit and MDC. The centrally located MDC allows for the use of soft copper line sets, making installation simpler and faster.



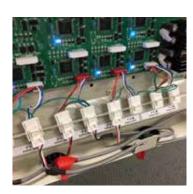
Single-Chassis Design (Heat Recovery Only)

The single-chassis design not only reduces the footprint of the outdoor unit, but also reduces electrical connections by proving a single-point power connection. Because of the non-modular design, there is no need to twin outdoor units together in the field, which reduces the amount of piping work that has to be done on site.



Controls Quick Connects

All indoor units and MDCs are provided with a quick-connect controls system. This allows for the use of accessory wire with preinstalled connectors or the use of field-provided wiring with the included terminal accessory. This makes the wiring of controls faster and helps to reduce miswiring during installation.



Controls Wiring Method/Design

The control wiring method was designed to more closely follow the piping arrangement. Heat pump systems use a daisy chain control wire configuration, while heat recovery systems use a hub and spoke design wiring from the outdoor unit to the MDC and then from the MDC to each indoor unit. This arrangement allows the control wire to follow the piping design, making it more intuitive for the contractor to install.



There is no need to try to access tight spaces above a ceiling to adjust rotary dials or dip switches to address and set functions on indoor units. All functions can be set up from a handheld wireless remote control with all of the functions written in an easy-to-understand format, which greatly reduces the time needed for system setup and startup.

Heat Recovery Benefits

Heat Recovery and Simultaneous Heating & Cooling

Carrier® VRF heat recovery utilizes a 2-pipe system that allows for simultaneous heating and cooling. Heat recovery and flexible refrigerant flow make it possible to heat and cool



different zones on a single refrigerant piping system at any given time. The system can increase efficiency by recovering energy that might otherwise be wasted from one zone, like a sunlit lobby, and reusing it in another cooler part of the building. The Carrier VRF heat recovery outdoor unit lineup is a single module up to 28 tons, which saves space compared to the competition. There are three different cabinet sizes available for this product line. Heat recovery boosts efficiency and green scores, making it ideal for regions with Energy Building Certification™ incentives or requirements.

Multi-port Distribution Controller (MDC)

The heat recovery system uses a multi-port distribution controller which acts as a central location. This allows better refrigerant distribution to all indoor units. The multi-port distribution control can connect up to 32 different indoor units. These systems typically take less piping and connections to configure between outdoor unit, multi-port distribution and indoor units.





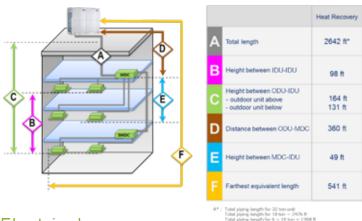
Operating Ranges

The operating ranges for Carrier® VRF heat recovery systems provide heating down to -13 degrees with cooling up to 125 degrees Fahrenheit.



Piping Length and Height Difference

The Carrier VRF heat recovery system includes the multi-port distribution controller that can be used as main or sub for greater piping flexibility. The main multi-port distribution controller can connect up to two sub multi-port distribution controllers to provide longer piping runs. A smaller equipment footprint matched with longer piping lengths allows delivery up to 2,642 feet, making it easier for design.



Electrical

Single-heat recovery system means single-point electrical connection. There is a tremendous amount of savings when you start comparing triple module units vs. single module units for the same tonnage. Servicing of the unit becomes easier as you only have one disconnect to switch off and lock out.

Heat Pump Benefits

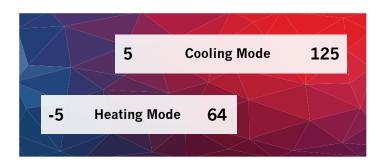
Heat Pump

Carrier® VRF heat pumps boast variable speed technology with multiple inverter compressors. This significantly improves system efficiency and reliability. Carrier VRF heat pump capacity ranges from 6 tons up to 36 tons in a modular design, available as single, double or triple module. Heat pump systems are great for applications that do not require heating and cooling at the same time, such as a big auditorium.



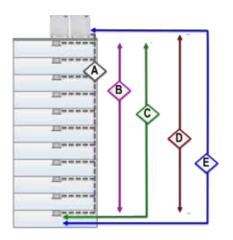
Operating Ranges

The operating ranges for Carrier® VRF heat pump systems provide heating down to -5 degrees with cooling up to 125 degrees Fahrenheit.



Piping Length and Height Difference

Carrier VRF heat pumps can deliver piping lengths of up to 3,280 feet. This leads to fewer limitations, making it much easier to design for floors with many small rooms, or for tenants who often rearrange their floor layouts. Y-shaped branching joints on the gas pipes between outdoor units ensure that refrigerant flow is equalized to each branch for enhanced system reliability.



		Heat Pump
Α	Total length	3280 ft
В	Height between IDU-IDU	98 ft
С	Farthest pipe from 1 st branch	295 ft
D	Height between ODU-IDU - outdoor unit above - outdoor unit below	164 ft 131 ft
E	Farthest equivalent length	738 ft



Outdoor Unit	ts				
Tono	Lloot Doggvery	Lloot Duman Cingle phage		Lloot Duman	
Tons	Heat Recovery	Heat Pump Single-phase		Heat Pump	
Combo	1 Module	1 Module	1	2	3
3		3			
4		4			
5		5			
6	6		6		
8	8		8		
10	10		10		
12	12		12		
14	14			8 + 6	
16	16			8 + 8	
18	18			10 + 8	
20	20			10 + 10	
22				12 + 10	
24				12 + 12	
26					10 + 8 + 8
28					10 + 10 + 8
30	·				10 + 10 + 10
32	·				12 + 10 + 10
34					12 + 12 + 10
36					12 + 12 + 12



Indoor Units

	Cooling Capacity kBtu/h (Ton)	4-Way Cassette	Compact 4-Way Cassette	High Wall	Underceiling / Floor Console (Exposed)	Floor Console (Recessed)
<u> </u>	7,000		✓	✓		✓
 	9,000	✓	✓	✓		✓
Models	12,000	✓	✓	✓	✓	✓
1	15,000	✓	✓	✓	✓	✓
0	18,000	✓		✓	✓	✓
Ducted	24,000	✓		✓	✓	✓
⊼	30,000	✓		✓	✓	
ے ا	36,000	✓			✓	
<u>8</u>	48,000	✓			✓	
~	53,500					
	72,000					
	96,000					

	Cooling Capacity kBtu/h (Ton)	Low Static Duct (Slim Profile)	Medium Static Duct	High Static Duct	Vertical AHU	Outside Air Duct
	7,000	✓	✓			
<u>s</u>	9,000	✓	✓			
Models	12,000	✓	✓			
<u> </u>	15,000	✓	✓			
	18,000	✓	✓		✓	
l ed	24,000	✓	✓	✓	✓	
Ducted	30,000		✓	✓	✓	
	36,000		✓	✓	✓	✓
	48,000		✓	✓	✓	✓
	53,500			✓	✓	✓
	72,000			√	·	√
	96,000			✓		✓

38VMR Heat Recovery Outdoor Unit 208/230V-3-60

Appearance				
Nominal Tons	6	8	10	
Model name	38VMA072RDS5-1	38VMA096RDS5-1	38VMA120RDS5-1	

Single Module					Technical	Specifications	
Outdoor unit mo	del name			38VMA072RDS5-1	38VMA096RDS5-1	38VMA120RDS5-	
Nominal tons			Ton	6	8	10	
Cooling capacity		Nominal	kBtu/h	72	96	120	
(with non-ducted units/ducted)	indoor	Rated	kBtu/h	69	92	114	
leating capacity		Nominal	kBtu/h	80	108	126	
with non-ducted inits/ducted)	indoor	Rated	kBtu/h	77	103	120	
Vith non-ducted	Power supply	(*2)			208/230V, 3-Phase, 60Hz		
ndoor units	Oli	Power consumption	kW	4.2	6.2	9.3	
lectrical	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	24.6	23.7	22.8	
characteristics	Hooting	Power consumption	kW	4.4	7.2	9.5	
	Heating	SCHE (Simultaneous Cooling & Heating Efficiency)	Btu/W	30.0	30.0	30.0	
/ith ducted	Power supply	(*2)			208/230V, 3-Phase, 60Hz		
indoor units	Cooling	Power consumption	kW	5.0	7.1	9.5	
Electrical	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	24.2	24.3	23.2	
characteristics	Heating	Power consumption	kW	5.7	8.0	9.8	
Nominal) (*1)	пеанну	SCHE (Simultaneous Cooling & Heating Efficiency)	Btu/W	27.4	27.7	26.7	
		Height	in	64-3/8			
External Iimensions		Width	in		52-3/4		
		Depth	in	31·1/8			
otal weight	Unit		lb		672		
ompressor	Type/Quanity	/		Inv	erter-Driven Hermetic Scrol	1/1	
an unit	Air volume		cfm	6,900	7,600	8,100	
Refrigerant (*3) (Charged refrigera	ant amount)	lb	26.5	26.5	26.5	
lectrical	Unit	MCA (*4)	Α	43	45	46	
pecifications	Offic	Recommended fuse size	А	45	50	50	
Refrigerant	Connecting	Gas side (main pipe) (brazing)	in	3/4	7/8	1-1/8	
piping	port diameter	Liquid side (main pipe) (brazing)	in	5/8	3/4	3/4	
peration temper	rature range	Cooling	°F DB		5 to 125		
peration temper	ature range	Heating	°F WB		–13 to 64		
laximum externa	al static pressure	;	in WG		0.24		
laximum numbe	er of connected i	ndoor units		15	20	24	
/laximum capaci	ty of combined i	ndoor units			50% to 150%		
Sound pressure level cooling/heating (*5)			dB(A)	58.4	61.7	62.7	

Specifications subject to change.

(*1) Rated conditions. Cooling: Indoor air temperature 80 °F dry bulb/67 °F wet bulb, outdoor air temperature 95 °F dry bulb. Heating: Indoor air temperature 70 °F dry bulb, outdoor air temperature 47 °F dry bulb/43 °F wet bulb.

^(*2) The source voltage must not fluctuate more than +/–10%.

^(*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

^(*4) Select wire size based on larger value of MCA.

MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).

^(*5) These values, measured in anechoic chamber, at a point 1m in front of the unit at a height of 1.4m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.



38VMR Heat Recovery Outdoor Unit 208/230V-3-60H

Appearance	100 to 10				
Nominal Tons	12	14	16	18	20
Model name	38VMA144DL5-1	38VMA168DS5-1	38VMA192DS5-1	38VMA216DS5-1	38VMA240DS5-1

Outdoor unit mo	del name			38VMA144DL5-1	38VMA168DS5-1	38VMA192DS5-1	38VMA216DS5-1	38VMA240DS5-		
Nominal tons			Ton	12	14	16	18	20		
Cooling capacity	(*1)	Nominal	kBtu/h	144	168	192	216	234		
(with non-ducted units/ducted)		Rated	kBtu/h	136	158	182	204	220		
Heating capacity		Nominal	kBtu/h	160	188	215	243	257		
(with non-ducted units/ducted)	indoor	Rated	kBtu/h	150	180	204	222	236		
With non-ducted	Power supp	oly (*2)			208	3/230V, 3-Phase, 6	0Hz			
indoor units	Cooling	Power consumption	kW	9.0	11.9	14.7	16.8	19.7		
Electrical	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	24.4	23.1	23.9	23.0	22.4		
characteristics	Heating	Power consumption	kW	9.6	13.3	16.2	18.0	20.2		
(Nominal) (*1)	пеанну	SCHE (Simultaneous Cooling & Heating Efficiency)	Btu/W	26.5	27.0	28.2	27.3	27.0		
With ducted	Power supply (*2)			208/230V, 3-Phase, 60Hz						
indoor units	Cooling	Power consumption	kW	10.6	13.3	15.9	17.9	20.4		
Electrical	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	24.0	22.9	23.6	21.7	21.0		
characteristics	Heating	Power consumption	kW	11.8	14.4	17.4	19.1	20.9		
(Nominal) (*1)		SCHE (Simultaneous Cooling & Heating Efficiency)	Btu/W	26.5	25.2	25.5	26.5	26.5		
F 1		Height	in		64-3/8					
External Dimensions		Width	in			78-3/8				
Dimensions		Depth	in			31-1/8				
Total weight	Unit		lb			1137				
Compressor	Туре				Inverte	-Driven Hermetic	Scroll/2			
Fan unit	Air volume		cfm	10,100	10,100	11,300	12,300	12,300		
Refrigerant (*3) (Charged refr	igerant amount)	lb	44.2	44.2	44.2	44.2	44.2		
Electrical	Unit	MCA (*4)	Α	70	70	71	81	81		
specifications	UIIIL	Recommended fuse size	Α	80	80	80	90	90		
Refrigerant	Connecting	Gas side (main pipe) (brazing)	in	1-1/8	1-1/8	1-1/8	1-1/8	1-3/8		
piping	port diameter	Liquid side (main pipe) (brazing)	in	7/8	7/8	7/8	1-1/8	1-1/8		
Operation tempe	rature range	Cooling	∘F DB			5 to 125				
operation tempe	i a care range	Heating	∘F WB	–13 to 64						
Maximum extern	al static pres	ssure	in WG			0.24				
Maximum numbe	er of connecte	ed indoor units		29	34	39	44	49		
Maximum capaci	ty of combin	ed indoor units				50% to 150%				
C	loval appling	heating (*5)	dB(A)	63.3	63.3	64.9	67.1	67.1		

38VMR Heat Recovery Outdoor Unit 460V-3-60

Appearance			
Nominal Tons	6	8	10
Model name	38VMA072RDS6-1	38VMA096RDS6-1	38VMA120RDS6-1

Single Module					Technical	Specifications	
Outdoor unit mod	lel name			38VMA072RDS6-1	38VMA096RDS6-1	38VMA120RDS6-1	
Nominal tons			Ton	6	8	10	
Cooling capacity (*1)		Nominal	kBtu/h	72	96	120	
(with non-ducted units/ducted)	indoor	Rated	kBtu/h	69	92	114	
Heating capacity		Nominal	kBtu/h	80	108	126	
(with non-ducted units/ducted)	indoor	Rated	kBtu/h	77	103	120	
With non-ducted	Power supply	(*2)			460V, 3-Phase, 60Hz		
ndoor units	Cooling	Power consumption	kW	4.2	6.2	9.3	
Electrical	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	24.6	23.7	22.8	
	I I a a bi a a	Power consumption	kW	4.4	7.2	9.5	
	Heating	SCHE (Simultaneous Cooling & Heating Efficiency)	Btu/W	30.0	30.0	30.0	
With ducted	Power supply	(*2)			460V, 3-Phase, 60Hz		
indoor units	Cooling	Power consumption	kW	5.0	7.1	9.6	
Electrical	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	24.2	24.3	23.2	
characteristics	Heating	Power consumption	kW	5.7	8.0	9.8	
(Nominal) (*1)	пеанну	SCHE (Simultaneous Cooling & Heating Efficiency)	Btu/W	27.4	27.7	26.7	
		Height	in	64-3/8			
External dimensions		Width	in		52-3/4		
annononono		Depth	in		31-1/8		
Total weight	Unit		lb		672		
Compressor	Type/Quanity	1		Inve	erter-Driven Hermetic Scrol	1/1	
an unit	Air volume		cfm	6,900	7,600	8,100	
Refrigerant (*3) (0	Charged refrigera	ant amount)	lb	26.5	26.5	26.5	
Electrical	Unit	MCA (*4)	Α	20	22	22	
specifications	UIIIL	Recommended fuse size	Α	25	25	25	
Refrigerant	Connecting	Gas side (main pipe) (brazing)	in	3/4	7/8	1.1/8	
oiping	port diameter	Liquid side (main pipe) (brazing)	in	5/8	3/4	3/4	
Operation temper	aturo rango	Cooling	°F DB		5 to 125		
pperation temper	ature range	Heating	°F WB		–13 to 64		
Maximum externa	l static pressure		in WG		0.24		
Maximum numbe	r of connected i	ndoor units		15	20	24	
Maximum capacit	y of combined i	ndoor units			50% to 150%		
Sound pressure le	evel cooling/heat	ting (*5)	dB(A)	58.4	61.7	62.7	

Specifications subject to change.

(*1) Rated conditions. Cooling: Indoor air temperature 80 °F dry bulb/67 °F wet bulb, outdoor air temperature 95 °F dry bulb. Heating: Indoor air temperature 30 °F dry bulb, outdoor air temperature 47 °F dry bulb/43 °F wet bulb.

(*2) The source voltage must not fluctuate more than +/–10%.

^(*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length. (*4) Select wire size based on larger value of MCA.

MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).

^(*5) These values, measured in anechoic chamber, at a point 1m in front of the unit at a height of 1.4m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.



38VMR Heat Recovery Outdoor Unit 460V-3-60

Appearance						
Nominal Tons	12	14	16	18	20	
Model name	38VMA144DL6-1	38VMA168DL6-1	38VMA192DL6-1	38VMA216DL6-1	38VMA240DL6-1	

							ınical Speci [.]				
Outdoor unit mo	del name			38VMA144RDL6-1	38VMA168RDL6-1	38VMA192RDL6-1	38VMA216RDL6-1	38VMA240RDL6-1			
Nominal tons			Ton	12	14	16	18	20			
Cooling capacity		Nominal	kBtu/h	144	168	192	216	236			
(with non-ducted indoor units/ducted)		Rated	kBtu/h	136	158	182	204	220			
Heating capacity		Nominal	kBtu/h	160	188	215	243	257			
(with non-ducted units/ducted)	indoor	Rated	kBtu/h	150	180	204	222	236			
With non-ducted	Power supp	ly (*2)			4	60V, 3-Phase, 60H	Ηz				
indoor units	Cooling	Power consumption	kW	9.0	11.9	14.7	16.8	19.7			
Electrical	Cooming	IEER (Integrated Energy Efficiency Ratio)	Btu/W	24.4	23.1	23.9	23.0	22.4			
characteristics	Heating	Power consumption	kW	9.6	13.3	16.2	18.0	20.2			
(Nominal) (*1)	пеання	SCHE (Simultaneous Cooling & Heating Efficiency)	Btu/W	26.5	27.0	28.2	27.3	27.0			
With ducted	Power supp	ly (*2)			460V, 3-Phase, 60Hz						
indoor units	Cooling	Power consumption	kW	10.6	13.3	15.9	17.9	20.4			
Electrical	Cooming	IEER (Integrated Energy Efficiency Ratio)	Btu/W	24.0	22.9	23.6	21.7	21.0			
characteristics	Heating	Power consumption	kW	11.8	14.4	17.4	19.1	20.9			
(Nominal) (*1)	пеання	SCHE (Simultaneous Cooling & Heating Efficiency)	Btu/W	26.5	25.2	25.5	26.5	26.5			
F. dawal		Height	in		64-3/8						
External Dimensions		Width	in		78-3/8						
211110110110110		Depth	in			31-1/8					
Total weight	Unit		lb			1,137					
Compressor	Туре				Inverte	r-Driven Hermetic	Scroll/2				
Fan unit	Air volume		cfm	10,100	10,100	11,300	12,300	12,300			
Refrigerant (*3)	(Charged refr	igerant amount)	lb	44.2	44.2	44.2	44.2	44.2			
Electrical	Unit	MCA (*4)	Α	35	35	35	38	38			
specifications	Offic	Recommended fuse size	Α	40	40	40	40	40			
Refrigerant	Connecting	Gas side (main pipe) (brazing)	in	1-1/8	1-1/8	1-1/8	1-1/8	1-3/8			
piping	port diameter	Liquid side (main pipe) (brazing)	in	7/8	7/8	7/8	1-1/8	1-1/8			
Operation tempe	rature range	Cooling	∘F DB			5 to 125					
operation tempe	peration temperature range Heating		∘F WB			–13 to 64					
Maximum external static pressure			in WG			0.24					
Maximum numbe	Maximum number of connected indoor units			29	34	39	44	49			
Maximum capaci	ity of combine	ed indoor units				50% to 150%					
Sound pressure	level cooling/	heating (*5)	dB(A)	63.3	63.3	64.9	67.1	67.1			

40VMD Multi-port Distribution Controller for Heat Recovery

Appearance	87			
Multi-ports	6	8	10	16
Model name	40VMD006M3	40VMD008M3	40VMD010M3	40VMD016M3

The Carrier® VRF multi-port distribution controller (MDC) allows you to connect from 6 to 16 indoor units based on number of ports. The main multi-port distribution controller can connect up to two sub multi-port distribution controllers.

Main MDC				Technic	al Specifications			
Unit 40VMD		40VMD006M3	40VMD008M3	40VMD010M3	40VMD016M3			
Power supply (V-Ph-H:	z)	208/230-1-60						
Number of ports		6	8	10	16			
	Unit dimensions, W x H x D (in)		46-1/2 x 12-3/4 x 22-5/8					
Jnit	Packing dimensions, W x H x D (in)		53-7/8 x 18 x 33-1/8					
	Net/gross weight (lb)	132/205	137/209	143/216	190/269			
Design pressure, hig	h/low (psig)	580/320						
0	Power wiring	Sized	Per NEC and Local Codes Ba	sed on Nameplate Electric	al Data			
Connecting wiring	Signal wiring	2-	Core Stranded Shielded Twis	ted Pair Cable 20AWG-16A	WG			
Condensate pipe diameter, OD (in)		1						
MCA (A)		0.73	0.89	1.05	1.54			
Capacity per port	Kbtu	54						

Sub MDC				Technic	al Specifications			
11 11 40 440		40)/140,000	40/4450000		•			
Unit 40VMD		40VMD006S3	40VMD008S3	40VMD010S3	40VMD016S3			
Power supply (V-Ph-H	<u>z</u>)	208/230-1-60						
Number of ports		6	8	10	16			
	Unit dimensions, W x H x D (in)			46-1/2 x 12-3/4 x 22-5/8				
Jnit	Packing dimensions, W x H x D (in)			53-7/8 x 18 x 33-1/8				
	Net/gross weight (lb)	126/168	130/203	137/209	183/262			
Design pressure, hig	h/low (psig)	580/320						
0	Power wiring	Sized Per NEC and Local Codes Based on Nameplate Electrical Data						
Connecting wiring	Signal wiring	2-	Core Stranded Shielded Twis	sted Pair Cable 20AWG-16A	WG			
Condensate pipe diameter, OD (in)		1						
MCA (A)		0.69	0.85	1.01	1.49			
Capacity per port	Kbtu	54 max						



38VMH Single-phase Heat Pump Outdoor Unit 208/230V-1-60

Appearance				
Nominal Tons	3	4	5	
Model name	38VMA036HDS3-1	38VMA048HDS3-1	38VMA060HDS3-1	

					Technical	Specifications		
Outdoor unit mod	lel name			38VMA036HDS3-1	38VMA048HDS3-1	38VMA060HDS3-1		
Nominal tons			Ton	3	4	5		
Cooling capacity (Nominal	kBtu/h	36	48	60		
(with non-ducted units/ducted)	indoor	Rated	kBtu/h	36	48	60		
Heating capacity		Nominal	kBtu/h	40	52.5	66		
(with non-ducted units/ducted)	indoor	Rated	kBtu/h	40	52.5	66		
With non-ducted	Power supply	(*2)			208/230V, 1-Phase, 60Hz			
ndoor units		Power consumption	kW	3.1	4.6	6.1		
T1==+:==1	Cooling	SEER (Seasonal Energy Efficiency Ratio)	Btu/W	18.0	18.0	18.6		
Electrical characteristics		Power consumption	kW	3.1	4.3	5.8		
(Nominal) (*1)	Heating	HSPF (Heating Seasonal Performace Factor)	Btu/W	9.2	9.2	9.6		
With ducted	Power supply	(*2)		208/230V, 1-Phase, 60Hz				
indoor units	Castini	Power consumption	kW	2.9	4.7	6.1		
Electrical	Cooling	SEER (Seasonal Energy Efficiency Ratio)	Btu/W	17.8	17.8	18.6		
characteristics	I I a a bi a a	Power consumption	kW	3 .0	4.2	5.7		
(Nominal) (*1)	Heating	HSPF (Heating Seasonal Performace Factor)	Btu/W	9.6	9.6	10.0		
Height		in		52-1/4				
External dimensions		Width	in	35-1/2				
annonsions		Depth	in	15-3/4				
Total weight	Unit		lb		220			
Compressor	Type/Quanity	/		Inverter-Driven Hermetic Rotary/1				
Compressor	Motor output		kW		13			
Ton unit	Motor output		W		90+90			
Fan unit	Air volume		cfm		4,100			
Refrigerant (*3) (0	Charged refrigera	ant amount)	lb		8.6			
Electrical	Linit	MCA (*4)	Α	36	38	40		
specifications	Unit	Recommended fuse size	Α	40	40	45		
Refrigerant	Connecting	Gas side (main pipe) (brazing)	in	5,	/8	3/4		
piping	port diameter	Liquid side (main pipe) (brazing)	in		3/8			
Operation temper	aturo rango	Cooling	°F DB		5 to 118			
operation temper	ature range	Heating	°F WB	-13 to 64				
Maximum numbe	r of connected in	ndoor units		5	5 7			
Maximum capacit	y of combined i	ndoor units			50 to 130%			
Sound pressure level cooling/heating (*5)			dB(A)	58.7	60.1	60.7		

Specifications subject to change. (*1) Rated conditions.

Cooling: Indoor air temperature 80 °F dry bulb/67 °F wet bulb, outdoor air temperature 95 °F dry bulb.

Heating: Indoor air temperature 70 °F dry bulb, outdoor air temperature 47 °F dry bulb/43 °F wet bulb.

^(*2) The source voltage must not fluctuate more than +/-10%.

^(*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

^(*4) Select wire size based on larger value of MCA.

MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).

^(*5) These values, measured in anechoic chamber, at a point 1m in front of the unit at a height of 1.4m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

38VMH Heat Pump Outdoor Unit 230V-3-60

Appearance				
Nominal Tons	6	8	10	12
Model name	38VMA072HDS5-1	38VMA096HDS5-1	38VMA120HDS5-1	38VMA144HDS5-1

Single Module						Technical Spe	cifications		
Outdoor unit mod	el name			38VMA072HDS5-1	38VMA096HDS5-1	38VMA120HDS5-1	38VMA144HDS5		
Nominal tons			Ton	6	8	10	12		
Cooling capacity (Nominal	kBtu/h	72	96	120	144		
(with non-ducted i units/ducted)	ndoor	Rated	kBtu/h	69	92	112	136		
Heating capacity (Nominal	kBtu/h	80	108	126	160		
(with non-ducted i units/ducted)	ndoor	Rated	kBtu/h	77	103	120	150		
With non-ducted	Power supply	y (*2)		208/230V, 3-Phase, 60Hz					
indoor units	0 1:	Power consumption	kW	4.1	6.2	8.8	12.1		
Electrical	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	22.5	23.5	22.5	19.5		
characteristics	11	Power consumption	kW	4.5	7.2	9.0	12.1		
(Nominal) (*1)	Heating	COP (Coefficient of Performance)	W/W	4.3	3.8	3.6	3.4		
With ducted	Power supply	y (*2)			208/230V, 3-Phase, 60Hz				
indoor units	0	Power consumption	kW	5.1	7.5	9.6	12.3		
Electrical	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	23.6	23.0	21.9	19.5		
characteristics	I I a a 4 i a a	Power consumption	kW	5.6	8.0	9.8	12.6		
(Nominal) (*1)	Heating	COP (Coefficient of Performance)	W/W	3.9	3.6	3.5	3.4		
Height			in		64-	3/8			
External dimensions		Width	in		52-	3/4			
annonsions		Depth	in	31-1/8					
Total weight	Unit		lb	659	659	659	780		
Compressor	Type/Quanit	у		Invert	Inverter Driven Hermetic Scroll/1 Hel Co				
Fan unit	Air volume		cfm	7,650	7,650	8,250	8,830		
Refrigerant (*3) (C	harged refriger	ant amount)	lb	37.5	37.5	37.5	37.5		
Electrical	11.21	MCA (*4)	А	45	46	46	70		
specifications	Unit	Recommended fuse size	Α	50	50	50	80		
	Connecting	Gas side (main pipe) (brazing)	in	7/8	7/8	1-1/8	1-1/8		
Refrigerant piping	port	Liquid side (main pipe) (brazing)	in	3/8	3/8	1/2	1/2		
piping	diameter	Balance pipe (brazing)	in	1/4	1/4	1/4	1/4		
Operation temperature range Cooling Heating			°F DB		5 to	125			
			°F WB		–5 t	o 64			
laximum external static pressure in					0.	24			
Maximum number	of connected i	ndoor units		13	16	20	26		
Maximum capacity	y of combined	indoor units			50% to	135%			
Sound pressure le	vel cooling/hea	ting (*5)	dB(A)	62.5	63	63	65.5		

Specifications subject to change.

^(*1) Rated conditions.

Cooling: Indoor air temperature 80 °F dry bulb/67 °F wet bulb, outdoor air temperature 95 °F dry bulb. Heating: Indoor air temperature 70 °F dry bulb, outdoor air temperature 47 °F dry bulb/43 °F wet bulb.

^(*2) The source voltage must not fluctuate more than +/-10%.

^(*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

^(*4) Select wire size based on larger value of MCA.

MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).

^(*5) These values, measured in anechoic chamber, at a point 1m in front of the unit at a height of 1.4m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.



38VMH Heat Pump Outdoor Unit 208/230V-3-60

Appearance								
Nominal Tons	14	16	18	20	22	24		
Model name	38VMA164HDS5-1	38VMA192HDS5-1	38VMA216HDS5-1	38VMA240HDS5-1	38VMA264HDS5-1	38VMA288HDS5-1		

								nical Specif			
Combination mod	lel number			38VMA168HDS5-1	38VMA192HDS5-1	38VMA216HDS5-1	38VMA240HDS5-1	38VMA264HDS5-1	38VMA288HDS5-		
Combination unit	s			38VMA096HDS5-1 38VMA072HDS5-1	38VMA096HDS5-1 38VMA096HDS5-1	38VMA120HDS5-1 38VMA096HDS5-1	38VMA120HDS5-1 38VMA120HDS5-1	38VMA144HDS5-1 38VMA120HDS5-1			
Nominal tons			Ton	14	16	18	20	22	24		
Cooling capacity	(*1)	Nominal	kBtu/h	168	192	216	240	264	288		
(with non-ducted in units/ducted)	ndoor	Rated	kBtu/h	156	176	196	214	246	270		
Heating capacity		Nominal	kBtu/h	188	216	234	252	286	320		
(with non-ducted units/ducted)	indoor	Rated	kBtu/h	180	206	224	240	270	300		
•	Power supp	oly (*2)				208/230V, 3	-Phase, 60Hz				
With non-ducted		Power consumption	kW	11.0	12.9	15.3	18.6	23.9	27.0		
indoor units	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	22.0	21.5	20.5	20.0	19.0	18.0		
Electrical characteristics		Power consumption	kW	12.4	14.7	16.7	18.4	22.8	26.0		
(Nominal) (*1)	Heating	COP (Coefficient of Performance)	W/W	3.8	3.8	3.6	3.5	3.3	3.2		
	Power supp	oly (*2)			208/230V, 3-Phase, 60Hz						
With ducted		Power consumption	kW	12.4	14.5	16.6	18.7	24.2	27.4		
indoor units Electrical	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	22.0	22.0	21.3	20.6	19.0	18.0		
characteristics		Power consumption	kW	13.9	16.1	17.8	19.5	23.8	26.4		
(Nominal) (*1)	Heating	COP (Coefficient of Performance)	W/W	3.6	3.6	3.5	3.5	3.2	3.2		
		Height	in	64-3/8	64-3/8	64-3/8	64-3/8	64-3/8	64-3/8		
External Dimensi	ons	Width	in	52-3/4 x 2	52-3/4 x 2						
		Depth	in	31-1/8	31-1/8	31-1/8	31-1/8	31-1/8	31-1/8		
Total weight	Unit		lb	659 x 2	659 x 2	659 x 2	659 x 2	780 + 659	780 + 780		
Compressor	Type/Quani	ty			Inverter-Driven H	lermetic Scroll/2		Inverter-Driven Hermetic Scroll/3	Inverter-Driven Hermetic Scroll/4		
Fan unit	Air volume		cfm	7,650 x 2	7,650 x 2	8,250 + 7650	8,250 x 2	8,830 + 8,250	8,830 x 2		
Refrigerant (*3) (Charged refri	gerant amount)	lb	37.5 x 2	37.5 x 2						
Electrical	Unit	MCA (*4)	Α	46 + 45	46 + 46	46 + 46	46 + 46	70 + 46	70 + 70		
specifications	Offic	Recommended fuse size	Α	50 + 50	50 + 50	50 + 50	50 + 50	80 + 50	80 + 80		
	Connecting	Gas side (main pipe) (brazing)	in	1-1/8	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8		
Refrigerant piping	port	Liquid side (main pipe) (brazing)	in	5/8	5/8	5/8	5/8	3/4	3/4		
	didiffictor	Balance pipe (brazing)	in	1/4	1/4	1/4	1/4	1/4	1/4		
Operation temperature range					125						
		Heating	∘F WB			–5 t					
Maximum externa			in WG				24				
Maximum numbe				29	33	36	39	46	50		
Maximum capacit	•					50% to	, -				
Sound pressure le	evel cooling/h	neating (*5)	dB(A)	65	65	65	65	66.5	67.5		

Specifications subject to change.

(*1) Rated conditions.

Cooling: Indoor air temperature 80 °F dry bulb/67 °F wet bulb, outdoor air temperature 95 °F dry bulb.

Heating: Indoor air temperature 70 °F dry bulb, outdoor air temperature 47 °F dry bulb/43 °F wet bulb.

^(*2) The source voltage must not fluctuate more than +/-10%.

^(*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

^(*4) Select wire size based on larger value of MCA.

MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).

^(*5) These values, measured in anechoic chamber, at a point 1m in front of the unit at a height of 1.4m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

38VMH Heat Pump Outdoor Unit 208/230V-3-60

Appearance						
Nominal Tons	26	28	30	32	34	36
Model name	38VMA312HDS5-1	38VMA336HDS5-1	38VMA360HDS5-1	38VMA384HDS5-1	38VMA408HDS5-1	38VMA432HDS5-1

Combination mod	lel number			38VMA312HDS5-1	38VMA336HDS5-1	38VMA360HDS5-1	38VMA384HDS5-1	38VMA408HDS5-1	38VMA432HDS5-
Combination unit	s			38VMA120HDS5-1 38VMA096HDS5-1 38VMA096HDS5-1	38VMA120HDS5-1 38VMA120HDS5-1 38VMA096HDS5-1	38VMA120HDS5-1 38VMA120HDS5-1 38VMA120HDS5-1	38VMA144HDS5-1 38VMA120HDS5-1 38VMA120HDS5-1	38VMA144HDS5-1 38VMA144HDS5-1 38VMA120HDS5-1	38VMA144HDS5- 38VMA144HDS5-
Nominal tons			Ton	26	28	30	32	34	36
Cooling capacity	(*1)	Nominal	kBtu/h	312	336	360	384	408	432
(with non-ducted in units/ducted)	` '	Rated	kBtu/h	284	304	326	356	380	400
Heating capacity	(*1)	Nominal	kBtu/h	342	360	378	412	446	480
(with non-ducted units/ducted)	indoor	Rated	kBtu/h	320	338	354	384	410	440
units/ ducted)	Power supp	nlv (*2)				208/230V 3	-Phase, 60Hz	-	
With non-ducted		Power consumption	kW	24.1	27.0	30.5	34.9	38.6	40.7
indoor units	Cooling	IEER (Integrated Energy	Btu/W	20.0	19.0	17.5	18.0	17.5	17.0
Electrical		Efficiency Ratio)							
characteristics	Heating	Power consumption	kW	25.9	28.5	31.0	33.7	36.1	38.9
(Nominal) (*1)	Heating	COP (Coefficient of Performance)	W/W	3.4	3.31	3.2	3.2	3.2	3.2
	Power supp	oly (*2)				208/230V, 3	-Phase, 60Hz		
With ducted indoor units	0 1:	Power consumption	kW	25.7	27.4	29.9	35.9	38.3	40.3
	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	20.5	19.2	18.0	18.0	17.5	17.0
Electrical characteristics		Power consumption	kW	27.3	29.2	31.0	33.6	35.9	38.5
(Nominal) (*1)	Heating	COP (Coefficient of Performance)	W/W	3.3	3.3	3.2	3.2	3.2	3.2
		Height	in	64-3/8	64-3/8	64-3/8	64-3/8	64-3/8	64-3/8
External Dimensi	ons	Width	in	52-3/4 x 3	52-3/4 x 3				
		Depth	in	31-1/8	31-1/8	31-1/8	31-1/8	31-1/8	31-1/8
Total weight	Unit		lb	659 x 3	659 x 3	659 x 3	780 + 659 x 2	780 x 2 + 659	780 x 3
Compressor	Type/Quani	ty		Inverte	r-Driven Hermetic S	Scroll/3	Inverter-Driven Hermetic Scroll/4	Inverter-Driven Hermetic Scroll/5	Inverter-Driven Hermetic Scroll/6
Fan unit	Air volume		cfm	8,250 + 7,650 x 2	8,250 x 2 + 7,650	8,250 x 3	8,830 + 8,250 x 2	8,830 x 2 + 8,250	8,830 x 3
Refrigerant (*3) (Charged refri	gerant amount)	lb	37.5 x 3	37.5 x 3				
Electrical	11.3	MCA (*4)	Α	46 + 46 + 46	46 + 46 + 46	46 + 46 + 46	70 + 46 + 46	70 + 70 + 46	70 + 70 + 70
specifications	Unit	Recommended fuse size	Α	50 + 50 + 50	50 + 50 + 50	50 + 50 + 50	80 + 50 + 50	80 + 80 + 50	80 + 80 + 80
	C	Gas side (main pipe) (brazing)	in	1-3/8	1-3/8	1-3/8	1-3/8	1-3/8	1-3/8
Refrigerant piping	Connecting port diameter	Liquid side (main pipe) (brazing)	in	3/4	3/4	3/4	3/4	3/4	3/4
	ularrieter	Balance pipe (brazing)	in	1/4	1/4	1/4	1/4	1/4	1/4
Operation temperature range Cooling °F DB				5 to	125				
Operation temper	ature range	Heating	∘F WB			–5 t	o 64		
Maximum externa	al static press	sure	in WG			0.	24		
Maximum numbe	r of connecte	d indoor units		53	56	59	63	64	64
Maximum capaci	ty of combine	d indoor units				50% to	135%		
Sound pressure le	evel cooling/h	neating (*5)	dB(A)	66.5	66.5	66.5	67	68.5	69

Specifications subject to change.

(*1) Rated conditions.

Cooling: Indoor air temperature 80 °F dry bulb/67 °F wet bulb, outdoor air temperature 95 °F dry bulb. Heating: Indoor air temperature 70 °F dry bulb, outdoor air temperature 47 °F dry bulb/43 °F wet bulb.

^(*2) The source voltage must not fluctuate more than +/-10%.

^(*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

^(*4) Select wire size based on larger value of MCA.

MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).

^(*5) These values, measured in anechoic chamber, at a point 1m in front of the unit at a height of 1.4m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.



38VMH Heat Pump Outdoor Unit 460V-3-60

Appearance				
Nominal Tons	6	8	10	12
Model name	38VMA072HDS6-1	38VMA096HDS6-1	38VMA120HDS6-1	38VMA144HDS6-1

Single Module						Technical Spe	ecifications	
Outdoor unit mod	lel name			38VMA072HDS6-1	38VMA096HDS6-1	38VMA120HDS6-1	38VMA144HDS6-1	
Nominal tons			Ton	6	8	10	12	
Cooling capacity (Nominal	kBtu/h	72	96	120	144	
(with non-ducted i units/ducted)	ndoor	Rated	kBtu/h	69	92	112	136	
Heating capacity (Nominal	kBtu/h	80	108	126	160	
(with non-ducted i units/ducted)	ndoor	Rated	kBtu/h	77	103	120	150	
With non-ducted	Power supply	v (*2)		460V, 3-Phase, 60Hz				
indoor units		Power consumption	kW	4.1	6.2	8.8	12.1	
	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	22.5	23.5	22.5	19.5	
Electrical characteristics		Power consumption	kW	4.5	7.2	9.0	12.1	
(Nominal) (*1)	Heating	COP (Coefficient of Performance)	W/W	4.3	3.8	3.6	3.4	
With ducted	Power supply	v (*2)				nase, 60Hz		
indoor units	door units Power consumption			5.1	7.5	9.6	12.3	
	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	23.6	23.0	21.9	19.5	
Electrical characteristics		Power consumption	kW	5.6	8.0	9.8	12.6	
(Nominal) (*1)		COP (Coefficient of Performance)	W/W	3.9	3.6	3.5	3.4	
		Height	in		64-	3/8		
External dimensions		Width	in	52-3/4				
unnensions		Depth	in	31-1/8				
Total weight	Unit		lb	659 659 659			772	
Compressor	Type/Quanity	,		Inver	ter-Driven Hermetic Sci	roll/1	Inverter-Driven Hermetic Scroll/2	
Fan unit	Air volume		cfm	7,650	7,650	8,250	8,830	
Refrigerant (*3) (C	Charged refrigera	ant amount)	lb	37.5	37.5	37.5	37.5	
Electrical	11-14	MCA (*4)	Α	22	25	25	33	
specifications	Unit	Recommended fuse size	Α	25	30	30	35	
	Connecting	Gas side (main pipe) (brazing)	in	7/8	7/8	1-1/8	1-1/8	
Refrigerant piping	port	Liquid side (main pipe) (brazing)	in	3/8	3/8	1/2	1/2	
hihing	diameter	Balance pipe (brazing)	in	1/4	1/4	1/4	1/4	
Cooling		Cooling	°F DB		5 to 125			
Operation tempera	peration temperature range Heating			–5 to 64				
Maximum externa	laximum external static pressure			0.24				
Maximum number of connected indoor units				13 16 20 26				
Maximum capacit	eximum capacity of combined indoor units			50% to 135%				
Sound pressure level cooling/heating (*5)				62.5	63	63	65.5	

 $Specifications \ subject \ to \ change.$

(*1) Rated conditions. Cooling: Indoor air temperature 80 °F dry bulb/67 °F wet bulb, outdoor air temperature 95 °F dry bulb. Heating: Indoor air temperature 70 °F dry bulb, outdoor air temperature 47 °F dry bulb/43 °F wet bulb.

^(*2) The source voltage must not fluctuate more than +/-10%.

^(*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

^(*4) Select wire size based on larger value of MCA.

MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).

^(*5) These values, measured in anechoic chamber, at a point 1m in front of the unit at a height of 1.4m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

38VMH Heat Pump Outdoor Unit 460V-3-60

Appearance						
Nominal Tons	14	16	18	20	22	24
Model name	38VMA168HDS6-1	38VMA192HDS6-1	38VMA216HDS6-1	38VMA240HDS6-1	38VMA264HDS6-1	38VMA288HDS6-1

Combination mod	lel number			38VMA168HDS6-1	38VMA192HDS6-1	38VMA216HDS6-1	38VMA240HDS6-1	38VMA264HDS6-1	38VMA288HDS6-1
Combination unit	s			38VMA096HDS6-1 38VMA072HDS6-1	38VMA096HDS6-1 38VMA096HDS6-1	38VMA120HDS6-1 38VMA096HDS6-1	38VMA120HDS6-1 38VMA120HDS6-1	38VMA144HDS6-1 38VMA120HDS6-1	38VMA144HDS6-38VMA144HDS6-3
Nominal tons			Ton	14	16	18	20	22	24
Cooling capacity	(*1)	Nominal	kBtu/h	168	192	216	240	264	288
(with non-ducted indoor units/ducted)		Rated	kBtu/h	156	176	196	214	246	270
Heating capacity	(*1)	Nominal	kBtu/h	188	216	234	252	286	320
(with non-ducted units/ducted)	indoor	Rated	kBtu/h	180	206	224	240	270	300
umis/ audiou)	Power supp	olv (*2)				460V. 3-PI	nase, 60Hz		
With non-ducted		Power consumption	kW	11.0	12.9	15.3	18.6	23.9	27.0
indoor units	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	22.0	21.5	20.5	20.0	19.0	18.0
Electrical characteristics		Power consumption	kW	12.4	14.7	16.7	18.4	22.8	26.0
(Nominal) (*1)	Heating	COP (Coefficient of Performance)	W/W	3.8	3.8	3.6	3.5	3.3	3.2
	Power supp	oly (*2)				460V, 3-PI	nase, 60Hz		
With ducted		Power consumption	kW	12.4	14.5	16.6	18.7	24.2	27.4
indoor units Electrical characteristics	Cooling	IEER (Integrated Energy Efficiency Ratio)	Btu/W	22.0	22.0	21.3	20.6	19.0	18.0
		Power consumption	kW	13.9	16.1	17.8	19.5	23.8	26.4
(Nominal) (*1)	Heating	COP (Coefficient of Performance)	W/W	3.6	3.6	3.5	3.5	3.2	3.2
		Height	in	64-3/8	64-3/8	64-3/8	64-3/8	64-3/8	64-3/8
External Dimensi	ons	Width	in	52-3/4 x 2	52-3/4 x 2				
		Depth	in	31-1/8	31-1/8	31-1/8	31-1/8	31-1/8	31-1/8
Total weight	Unit		lb	659 x 2	659 x 2	659 x 2	659 x 2	772 + 659	772 + 772
Compressor	Type/Quar	nity			Inverter-Driven H	lermetic Scroll/2		Inverter-Driven Hermetic Scroll/3	Inverter-Driven Hermetic Scroll/4
Fan unit	Air volume		cfm	7,650 x 2	7,650 x 2	8,250 + 7,650	8,250 x 2	8,250 + 8,830	8,830 x 2
Refrigerant (*3) (Charged refri	gerant amount)	lb	37.5 x 2	37.5 x 2				
Electrical	Unit	MCA (*4)	Α	25 + 22	25 + 25	25 + 25	25 + 25	33 + 25	33 + 33
specifications	Onit	Recommended fuse size	Α	30 + 25	30 + 30	30 + 30	30 + 30	35 + 30	35 + 35
	Connecting	Gas side (main pipe) (brazing)	in	1-1/8	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8
Refrigerant piping	port	Liquid side (main pipe) (brazing)	in	5/8	5/8	5/8	5/8	3/4	3/4
	diarrictor	Balance pipe (brazing)	in	1/4	1/4	1/4	1/4	1/4	1/4
Operation temperature range		∘F DB				125			
	Heating %F WB					o 64			
Maximum externa	•		in WG	_	_		24		
Maximum numbe				29	33	36	39	46	50
Maximum capacit			ID (A)	65	65	/-	135%	66.5	67.5
Sound pressure le	evel cooling/h	neating (*5)	dB(A)	65	65	65	65	66.5	67.5

Specifications subject to change.

Cooling: Indoor air temperature 80 °F dry bulb/67 °F wet bulb, outdoor air temperature 95 °F dry bulb. (*1) Rated conditions. Heating: Indoor air temperature 70 °F dry bulb, outdoor air temperature 47 °F dry bulb/43 °F wet bulb.

^(*2) The source voltage must not fluctuate more than +/-10%.

^(*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

^(*4) Select wire size based on larger value of MCA.

MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).

^(*5) These values, measured in anechoic chamber, at a point 1m in front of the unit at a height of 1.4m. During actual operation these values are normally somewhat higher as a result of ambient conditions.



38VMH Heat Pump Outdoor Unit 460V-3-60

Appearance			## P P P P P P P P P P P P P P P P P P			
Nominal Tons	26	28	30	32	34	36
Model name	38VMA312HDS6-1	38VMA336HDS6-1	38VMA360HDS6-1	38VMA384HDS6-1	38VMA408HDS6-1	38VMA432HDS6

Triple Module	, (COTTION	104)					Techr	nical Specif	ications
Combination mod	lel number			38VMA312HDS6-1	38VMA336HDS6-1	38VMA360HDS6-1	38VMA384HDS6-1	38VMA408HDS6-1	38VMA432HDS6
Combination unit	S			38VMA120HDS6-1 38VMA096HDS6-1	38VMA120HDS6-1 38VMA120HDS6-1		38VMA144HDS6-1 38VMA120HDS6-1	38VMA144HDS6-1 38VMA144HDS6-1	38VMA144HDS6 38VMA144HDS6
				38VMA096HDS6-1			38VMA120HDS6-1	38VMA120HDS6-1	
Nominal tons			Ton	26	28	30	32	34	36
Cooling capacity		Nominal	kBtu/h	312	336	360	384	408	432
(with non-ducted in units/ducted)	ndoor	Rated	kBtu/h	284	304	326	356	380	400
Heating capacity		Nominal	kBtu/h	342	360	378	412	446	480
(with non-ducted units/ducted)	indoor	Rated	kBtu/h	320	338	354	384	410	440
	Power supp	oly (*2)				460V, 3-PI	nase, 60Hz		
With non-ducted		Power consumption	kW	24.1	27.0	30.5	34.9	38.6	40.7
indoor units	Cooling	IEER (IntegratedEnergy Efficiency Ratio)	Btu/W	20.5	19.2	18.0	18.0	17.5	17.0
Electrical characteristics		Power consumption	kW	25.9	28.5	31.0	33.7	36.1	38.9
(Nominal) (*1)	hinal (*1) Heating OOD		W/W	3.4	3.3	3.2	3.2	3.2	3.2
	Power supp	Power supply (*2)			460V, 3-Phase, 60Hz				
With ducted	Power consumption		kW	25.7	27.4	29.9	35.9	38.3	40.3
indoor units Cooling	IEER (IntegratedEnergy Efficiency Ratio)	Btu/W	20.0	19.0	17.5	18.0	17.5	17.0	
Electrical characteristics	Power consumption	kW	27.3	29.2	31.0	33.6	35.9	38.5	
(Nominal) (*1)	Heating	COP (Coefficient of Performance)	W/W	3.3	3.3	3.2	3.2	3.2	3.2
		Height	in	64-3/8	64-3/8	64-3/8	64-3/8	64-3/8	64-3/8
External Dimensi	ons	Width	in	52-3/4 x 3	52-3/4 x 3	52-3/4 x 3	52-3/4 x 3	52-3/4 x 3	52-3/4 x 3
		Depth	in	31-1/8	31-1/8	31-1/8	31-1/8	31-1/8	31-1/8
Total weight	Unit		lb	659 x 3	659 x 3	659 x 3	772 + 659 x 2	772 x 2 + 659	772 x 3
Compressor	Type/Quani	ty		Inverte	r-Driven Hermetic S	Scroll/3	Inverter-Driven Hermetic Scroll/4	Inverter-Driven Hermetic Scroll/5	Inverter-Driver Hermetic Scroll/6
Fan unit	Air volume		cfm	8,250 + 7,650 x 2	8,250 x 2 + 7,650	8,250 x 3	8,830 + 8,250 x 2	8,250 x 2 + 8,830	8,830 x 3
Refrigerant (*3) (Charged refri	gerant amount)	lb	37.5 x 3	37.5 x 3	37.5 x 3	37.5 x 3	37.5 x 3	37.5 x 3
Electrical	Unit	MCA (*4)	Α	25 + 25 + 25	25 + 25 + 25	25 + 25 + 25	33 + 25 + 25	33 + 33 + 25	33 + 33 + 33
specifications	Offic	Recommended fuse size	Α	30 + 30 + 30	30 + 30 + 30	30 + 30 + 30	35 + 30 + 30	35 + 35 + 30	35 + 35 + 35
	Connecting	Gas side (main pipe) (brazing)	in	1-3/8	1-3/8	1-3/8	1-3/8	1-3/8	1-3/8
Refrigerant piping	port	Liquid side (main pipe) (brazing)	in	3/4	3/4	3/4	3/4	3/4	3/4
	diameter	Balance pipe	in	1/4	1/4	1/4	1/4	1/4	1/4
Operation temperature range						125			
· · · · · · · · · · · · · · · · · · ·	Heating of WB		∘F WB						
	aximum external static pressure in WG					24			
Maximum numbe				53	56	59	63	64	64
Maximum capacit	,		ID (A)	66.5	66.5	, , , ,	135%	66.5	60
Sound pressure le	evel cooling/f	neating (*5)	dB(A)	66.5	66.5	66.5	67	68.5	69

Specifications subject to change.

Cooling: Indoor air temperature 80 °F dry bulb/67 °F wet bulb, outdoor air temperature 95 °F dry bulb. Heating: Indoor air temperature 70 °F dry bulb, outdoor air temperature 47 °F dry bulb/43 °F wet bulb. (*1) Rated conditions.

^(*2) The source voltage must not fluctuate more than +/-10%.

 ^(*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.
 (*4) Select wire size based on larger value of MCA.
 MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).
 (*5) These values, measured in anechoic chamber, at a point 1 m in front of the unit at a height of 1.4m. During actual operation, these values are appropriate computed for a point of the unit at a height of 1.4m. these values are normally somewhat higher as a result of ambient conditions.



40VMF 4-Way Cassette

The Carrier® VRF 4-Way Cassette provides supreme comfort by delivering conditioned airflow in four directions to customize the airflow control based on user comfort preferences.

- Integrated condensate lift up to 30"
- Panel accessory required, model number 40VMF00---

							Technica	al Specific	cations			
Unit 40VMF		40VMF0093	40VMF0123	40VMF0153	40VMF0183	40VMF0243	40VMF0303	40VMF0363	40VMF048			
Power supply (V-Ph-	Hz)				208/23	30-1-60						
Cooling capacity (Bt	tuh)	9,000	12,000	15,000	18,000	24,000	30,000	36,000	48,000			
Heating capacity (Bt	tuh)	10,000	13,500	17,000	21,000	27,000	34,000	40,000	54,000			
	Туре				D	С						
ndoor fan motor	Input (W)	16	5.5	23	35	4	5	75	100			
	Low	35	50	400	400	460	560	700	780			
ndoor airflow (cfm)	Medium	40	00	460	500	560	650	850	950			
,omi	High	46	50	560	650	725	780	950	1,100			
	Low	31.3	32.6	32.4	31.3	35	34.1	39.9	43.1			
ndoor unit sound level dB(A)	Medium	32.6	33	34	35.2	38.8	37.1	43.9	47.9			
ound level ab(i)	High	34.4	35.2	37.3	40.8	44.2	40.8	46.7	49.3			
Unit dimension, W x H x D (in)		33·1/8 x 9 x 33·1/8 33·1/8 x 11·3/4 x 33·1/8										
Unit Panel/grille o	Panel/grille dimension, W x H x D (in)	37-3/8 x 1-3/4 x 37-3/8										
	Total weight (lb)	13.2/20										
Refrigeration type					R4:	l0a						
Expansion device					Ε>	(V						
Design pressure, h	igh/low (psig)				580/	′320						
Refrigerant	Liquid side, OD (Flare)		1/4				3/8					
oiping (in)	Suction side, OD (Flare)		1/2				5/8					
Connecting wiring	Power wiring		Sized	Per NEC and	Local Codes Ba	ased on Namep	olate Electrical	Data				
Connecting wiring Signal wiring			2	Core Strande	d Shielded Twis	sted Pair Cable	18AWG-16AW	G				
Condensate drain j	pipe diameter, OD (in)				1-1	/4						
The atriant date	MCA (A)			0.98				2.08				
Electrical data	MOPD (A)				1	5						





40VMC Compact 4-Way Cassette

The Carrier® VRF Compact 4-Way Cassette provides supreme comfort by delivering conditioned airflow in four directions while fitting in a standard T grid ceiling.

- Integrated condensate lift up to 24"
- Panel accessory required, model number 40VMC001---

				Technica	al Specification			
Unit 40VMC		40VMC0073	40VMC0093	40VMC0123	40VMC0153			
Power supply (V-Ph-Hz)			208/23	0-1-60				
Cooling capacity (Btuh)		7,000	9,000	12,000	15,000			
Heating capacity (Btuh))	8,000	10,000	13,000	17,000			
Indoor fan motor	Туре		DO					
illuoor lali filotor	Input (W)	16	5	2	4			
	Low	22	9	2	53			
Indoor airflow (cfm)	Medium	28	2	30	06			
	High	30	6	3.	59			
	Low	34.	.7	38	3.1			
Indoor unit sound level dB(A)	Medium	38.	5	42	2.3			
004.14 10101 42(1)	High	40.	.4	45.5				
	Unit dimension, W x H x D (in)		24-7/8 x 10-1	/4 x 22-7/16				
lpit F	Panel/grille dimension, W x H x D (in)							
	Total weight (lb)	5.5/9.9						
Refrigeration type			R41	0a				
Expansion device			EX	V				
Design pressure, high	/low (psig)		580/	320				
Refrigerant piping (in)	Liquid side, OD (Flare)		1/	4				
ven Reigir hihing (III)	Suction side, OD (Flare)		1/	2				
Power wiring		Sized F	er NEC and Local Codes Ba	sed on Nameplate Electrica	al Data			
Connecting wiring Signal wiring		2-Core Stranded Shielded Twisted Pair Cable 18AWG-16AWG						
Condensate drain pipe diameter, OD (in)			1					
Electrical data	MCA (A)	0.3	8	0.	53			
Electrical data	MOPD (A)		15	5				



40VMW High Wall Unit

The Carrier® VRF High Wall unit mounts on the wall providing conditioned air to fit any type of space.

- Condensate pump is accessory
- Filter is washable

						Techr	nical Speci [.]	fications
Unit 40VMW		40VMW0073	40VMW0093	40VMW0123	40VMW0153	40VMW0183	40VMW0243	40VMW0303
Power supply (V-Ph-Hz)					208/230-1-60			
Cooling capacity (Btuh)		7,500	9,500	12,000	15,000	18,000	24,000	30,000
Heating capacity (Btuh)		8,500	10,900	13,500	17,000	21,000	27,000	34,000
Indoor fan motor	Туре		DC					
illuoor lali illotor	Input (W)	2	25	30	35	45	75	85
	Low	24	45	250	380	440	460	480
Indoor airflow (cfm)	Medium	2	70	280	420	470	530	600
	High	3:	20	360	480	560	650	770
	Low	31.2	31.8	32.8	38.4	38.9	36.8	38.1
Indoor unit sound level dB(A)	Medium	32.2	32.6	34.6	39.6	40.2	42	43.6
	High	34	34.5	36.4	41.7	41.8	43.2	48.3
	Unit dimension, W x H x D (in)		36 x 11-3/8 x 9		42·1/4 x	12-3/8 x 9	47 x 13-1/	′2 x 10·1/8
O.III.	Total weight (lb)		28/35		32/40.5		38/	50.5
Refrigeration type					R410a			
Expansion device					EEV			
Design pressure, high	/low (psig)				580/320			
Refrigerant piping (in)	Liquid side, OD (Flare)		1	/4			3/8	
ivenigerant bibling (iii)	Suction side, OD (Flare)		1	/2			5/8	
Connecting wiring	Power wiring	Sized Per NEC and Local Codes Based on Nameplate Electrical Data						
Connecting wiring	Signal wiring	wiring 2-Core Stranded Shielded Twisted Pair Cable 18AWG-16AWG		16AWG				
Condensate drain pipe	e diameter, OD (in)				3/4			
MCA (A)				0.45			0.	86
Electrical data	MOPD (A)				15			





40VMU Underceiling Unit – Floor Console (Exposed)

The Carrier® VRF Underceiling unit can be installed exposed below the ceiling or floor standing as an exposed Floor Console unit.

- Condensate pump is accessory
- Filter is washable

						Techr	nical Speci [.]	fications
Unit 40VMU		40VMU0123	40VMU0153	40VMU0183	40VMU0243	40VMU0303	40VMU0363	40VMU0483
Power supply (V-Ph-Hz)					208/230-1-60			
Cooling capacity (Btuh)		12,000	15,000	18,000	24,000	30,000	36,000	48,000
Heating capacity (Btuh)		13,500	17,000	21,000	27,000	34,000	40,000	54,000
	Туре	DC Motor						
Indoor fan motor	Input (W)	24	47	53	80	107	67 x 2	115 x 2
	Low	259	359	394	494	624	906	929
Indoor airflow (cfm)	Medium	294	412	424	529	676	976	1,000
	High	335	441	471	571	729	1,094	1,353
	Low	35.8	41.7	44.1	50.2	50.4	48.4	50.6
Indoor unit sound level dB(A)	Medium	37.7	45.4	46.5	52	52.1	50.3	52.3
ound level ub(A)	High	40.5	47.2 48.5		53.8	53.9	53	59.8
Unit	Unit dimension, W x H x D (in)		39 x 2	26 x 8		50-1/2 x 26 x 8	66 x 2	27 x 10
Offic	Total weight (lb)	57/71		62/75		77/90	106	/128
Refrigeration type	'		ı		R410a	1	1	
Expansion device					EXV			
Design pressure, high	/low (psig)				580/320			
Refrigerant piping (in)	Liquid side, OD (Flare)	1	/4			3/8		
Keirigerant piping (iii)	Suction side, OD (Flare)	1	/2			5/8		
Connecting wiring	Power wiring		Sized Per	NEC and Local	Codes Based on	Nameplate Elec	trical Data	
Signal wiring			2-Core	e Stranded Shie	lded Twisted Pai	r Cable 18AWG-	16AWG	
Condensate drain pipe	e diameter, OD (in)				5/8			
Electrical data	MCA (A)	0.44	0.73	0.87	1.2	1.4	1.8	2.8
Electrical data	MOPD (A)				15			



40VMR Floor Console (Recessed)

The Carrier® VRF Floor Console (recessed) units can be installed inside a wall or custom-built cabinet to match interior space design. Adjustable filter rack 1"–2".

- Condensate pump is accessory
- Filter is washable
- External static pressure up to 0.15

						Technical Sp	ecifications
Unit 40VMR		40VMR0073	40VMR0093	40VMR0123	40VMR0153	40VMR0183	40VMR0243
Power supply (V-Ph-Hz)				20	08/230-1-60		
Cooling capacity (Btuh)		7,000	9,000	12,000	15,000	18,000	24,000
Heating capacity (Btuh)		8,000	10,000	13,000	17,000	20,000	27,000
L. d 6 l	Туре				DC		
Indoor fan motor	Input (W)	1	9	25	41	27	79
	Low	25	53	271	347	365	553
Indoor airflow (cfm)	Medium	2	76	335	424	418	635
	High	30	00	400	500	488	776
Indoor external static pressure	in. wg						
	Low	35.7	35.8	32.5	36.8	32.8	42.5
ndoor unit sound level dB(A)	Medium	38.2	37.9	36.3	41.7	35.5	45.2
	High	39.9	39.8	40.3	45.3	39	49.9
Unit	Unit dimension, W x H x D (in)	35-1/4 x 2	35·1/4 x 24 x 8·3/8 43·1/8 x 24			55 x 24	1 x 8-3/8
Ome	Total weight (lb)	48.9	9/80	59.1	/91.5	69.2	/102.1
Refrigeration type	<u>'</u>				R410a		
Expansion device					EEV		
Defrigarent pining (in)	Liquid side, OD (Flare)			1/4		3	3/8
Refrigerant piping (in)	Suction side, OD (Flare)			1/2		Ę	5/8
Connecting wiring	Power wiring		Sized Per N	EC and Local Code	es Based on Name	plate Electrical Data	
Connecting wiring	Signal wiring		2-Core	Stranded Shielded	Twisted Pair Cable	e 20AWG-16AWG	
Condensate drain pipe diameter, OD (in)					5/8		
Flootrical data	MCA (A)	0.	55	0.63	0.83	0.72	1.38
Electrical data	MOPD (A)				15		
External static pressure	in. wg	0.15					





40VML Low Static Duct (Slim Profile)

The Carrier® VRF Slim Duct (low static) unit is only 8-1/4" in height, making it an ideal candidate for narrow soffit space applications. Air return can be rear or bottom, but rear is default.

- Integrated condensate lift up to 28"
- Filter is washable

						Technical Sp	ecifications			
Unit 40VML		40VML0073	40VML0093	40VML0123	40VML0153	40VML0183	40VML0243			
Power supply (V-Ph-Hz)				20	8/230-1-60					
Cooling capacity (Btuh)		7,000	9,000	12,000	15,000	18,000	24,000			
Heating capacity (Btuh)		8,000	10,000	13,500	17,000	21,000	27,000			
Indoor fan motor	Туре				DC					
indoor fan motor	Input (W)	25		32	43	56	68			
	Low	2:	24	236	306	353	471			
Indoor airflow (cfm)	Medium	2!	53	294	367	424	565			
	High	28	33	353	459	530	701			
Indoor external static pressure	in. wg				0.20					
	Low	31.4	31	33	33.2	36	37			
Indoor unit sound level dB(A)	Medium	32	32	34.6	35.2	38	38.8			
	High	34	34.5	37	36.7	40.2	41.3			
Unit	Unit dimension, W x H x D (in)	30)-3/4 x 8·1/4 x 19	0-3/4	39-1/4 x 8	-1/4 x 19-3/4	48 x 8-1/4 x 19-3/4			
	Total weight (lb)		41/48.5		48.5	.5/57.5 59.5/71.5				
Refrigeration type					R410a					
Expansion device					EEV					
D. C	Liquid side, OD (Flare)			1/4		5	3/8			
Refrigerant piping (in)	Suction side, OD (Flare)			1/2		Ę	5/8			
0	Power wiring		Sized Per N	EC and Local Code	ind Local Codes Based on Nameplate Electrical Data					
Connecting wiring	Signal wiring	2-Core Stranded Shielded Twisted Pair Cable 18AWG-16AWG								
Condensate drain pipe	e diameter, OD (in)				1					
	MCA (A)	0	.5	0.6	0.8	0.95	1.18			
Electrical data	MOPD (A)				15		•			



40VMM Medium Static Duct

The Carrier® VRF Medium Static Duct unit is ideal for single room hideaway or ducted applications. Air return can be rear or bottom, but rear is default.

- Integrated condensate lift up to 28"
- Filter is washable

								Technical	Specific	ations	
Unit 40VMM		40VMM0073	40VMM0093	40VMM0123	40VMM0153	40VMM0183		40VMM0303			
Power supply (V-Ph-	·Hz)					208/230-1-60	ı		ı		
Cooling capacity (B	tuh)	7,000	9,000	12,000	15,000	19,000	24,000	30,000	38,000	48,000	
Heating capacity (B	tuh)	8,000	10,000	13,500	17,000	21,000	27,000	34,000	42,000	54,000	
Indoor fan motor	Туре			DC					,		
	Input (W)	50		115	140	155	195	260	310	430	
	Low	230		250	326	376	501	626	751	1,001	
Indoor airflow (cfm)	Medium	271		294	385	444	592	740	888	1,184	
(Cilli)	High	312		375	462	565	707	908	1,117	1,366	
Indoor external static pressure	in. wg	0.3	32		0.6						
	Low	28.1	29.3	30	31.9	35.5	36.4	40.8	39.2	44.7	
Indoor unit sound level dB(A)	Medium	29.3	30.9	32	34.5	38.2	38.6	43.7	42.6	47.5	
	High	31.3	32.2	36.1	38.5	41.1	41.8	46.9	46.2	50.8	
Unit	Unit dimension, W x H x D (in)	39-1/4 x 8-1/4 x 19-3/4		39-3/4 x 10-5/8 x 25		25	5 48-1/2 x 10-5/8 x 30-1/2		50-3/4 x 11-7/8 x 34-1/8		
	Total weight (lb)	48.5/57.5		76/88		97/115	99/117		124/143		
Refrigeration type		R410a									
Expansion device		EXV									
Design pressure, h	nigh/low (psig)					580/320					
Refrigerant	Liquid side, OD (Flare)		1	/4		3/8					
piping (in)	Suction side, OD (Flare)		1	/2		5/8					
Connecting wiring	Power wiring	Sized Per NEC and Local Codes Based on Nameplate Electrical Data									
	Signal wiring	2-Core Stranded Shielded Twisted Pair Cable 18AWG-16AWG									
Condensate drain pipe diameter, OD (in)		1				3/4					
Electrical del	MCA (A)	1.:	25			3.13				5	
Electrical data	MOPD (A)					15					





40VMH High Static Duct

The Carrier® VRF High Static Ducted indoor units can handle higher static to support longer ductwork for a given space and are ideal for hideaway applications serving multiple zones.

- Integrated condensate lift up to 28", for sizes up to 54
- For sizes 72 and 96, condensate pump is an accessory

						Techr	nical Speci	fications		
Unit 40VMH		40VMH0243	40VMH0303	40VMH0363	40VMH0483	40VMH0543	40VMH0723	40VMH0963		
Power supply (V-Ph-Hz)					208/230-1-60					
Cooling capacity (Btuh)		24,000	30,000	36,000	48,000	53,500	72,000	96,000		
Heating capacity (Btuh)		27,000	34,000	40,000	54,000	60,000	81,000	108,000		
Indoor fan motor	Туре	DC Motor								
indoor fan motor	Input (W)	81	140	190	220	420	245*2	395*2		
	Low	524	647	882	1,041	1,412	1,559	2,076		
Indoor airflow (cfm)	Medium	600	753	1,029	1,200	1,618	1,794	2,400		
	High	735	971	1,188	1,429	1,835	2,235	2,824		
Indoor external static pressure	in. wg		0.8					1		
	Low	44.7	43.3	49.1	48.3	52	48.7	52.4		
Indoor unit	Medium	47.8	46.9	52.8	51.8	55.7	52.2	54.7		
sound level dB(A)	High	50.9	51.2	55.5	54.9	58.1	55.9	56.4		
Unit	Unit dimension, W x H x D (in)	37·1/2 x 16·1/2 x 27·1/4			51-1/4 x 16-	1/2 x 27-1/4	56-3/4 x 20 x 36-1/2			
Offic	Total weight (lb)	110/168.4	114.6	5/171	159.2/231.5		254.2/342.8			
Refrigeration type		R410a								
Expansion device					EXV					
Design pressure, high/low (psig)		580/320								
Defricerent nining (in)	Liquid side, OD (Flare)	3/8								
Refrigerant piping (in)	Suction side, OD (Flare)			7/8						
O	Power wiring	Sized per NEC and Local Codes based on Nameplate Electrical Data								
Connecting wiring	Signal wiring	2-core stranded shielded twisted pair cable 18AWG-16AWG								
Condensate drain pipe diameter, OD (in)				1			1-9	1-5/8		
Electrical data	MCA (A)	5.7	7.1	7.3	7.6	7.8	9.7	10.2		
	MOPD (A)	15								



40VMV Vertical AHU

The Carrier® VRF Vertical Air Handling unit is a multi-positional unit – vertical and horizontal – ideal for closet applications. Comes standard with a constant CFM ECM motor to ensure you always get the air flow you need.

· Constant CFM motor

						Technical Sp	ecificatio <u>ns</u>			
Unit 40VMV		40VMV0183	40VMV0243	40VMV0303	40VMV0363	40VMV0483	40VMV0543			
Power supply (V-Ph-Hz)				20	08/230-1-60					
Cooling capacity (Btuh)		18,000	24,000	30,000	36,000	48,000	53,500			
Heating capacity (Btuh)		21,000	27,000	34,000	40,000	54,000	60,000			
	Туре	DC								
Indoor fan motor	Input (W)	60	100	151	187	355	466			
	Low	420	560	700	840	1,120	1,260			
ndoor airflow (cfm)	Medium	510	680	850	1,020	1,360	1,530			
	High	600	800	1,000	1,200	1,600	1,800			
ndoor external static pressure	in. wg		0.8							
	Low	34.4	37.9	44.4	39.3	43.8	47.9			
ndoor unit sound level dB(A)	Medium	37.1	42.3	48.4	44.1	48.5	52.6			
304.14 1010. 42(1.)	High	41.6	46.2	52.2	46.9	53	57.1			
Jnit	Unit dimension, W x H x D (in)	19-	5/8 x 46-1/2 x 20		22 x 54·1/2 x 24					
	Total weight (lb)		123/147		163/189					
Refrigeration type		R410a								
Expansion device		EXV								
Design pressure, high	/low (psig)	580/320								
Refrigerant piping (in)	Liquid side, OD (Flare)	3/8								
	Suction side, OD (Flare)	5/8								
Na	Power wiring	Sized Per NEC and Local Codes Based on Nameplate Electrical Data								
Connecting wiring	Signal wiring	2-Core Stranded Shielded Twisted Pair Cable 18AWG-16AWG								
Condensate drain pipe	e diameter, OD (in)				3/4 NPT					
	MCA (A)	3.8				7.2				
Electrical data	MOPD (A)				15					





40VMA Outside Air Duct

The Carrier® Outside Air unit draws in ventilation air into the space to provide fresh air. The units are installed in plenum and can be connected to a heat pump system along with other styles of indoor unit.

• Discharge temperature control

				Technical Specifications					
Unit 40VMA		40VMA0363	40VMA0483	40VMA0543	40VMA0723	40VMA0963			
Power supply (V-Ph-Hz)				208/230-1-60	1				
Cooling capacity (Btuh)		36,000	48,000	12,000	15,000	96,000			
Heating capacity (Btuh))	24,000	30,000	13,500	17,000	59,000			
	Type	DC Motor							
Indoor fan motor	Input (W)	64	71	87	60*2	80*2			
	Low	441	471	529	882	1,029			
Indoor airflow (cfm)	Medium	529	559	647	971	1,176			
	High	588	647	765	1,059	1,294			
Indoor external static pressure	in. wg		0.8	1					
	Low	43.8	43.4	43.9	48.5	47.7			
Indoor unit sound level dB(A)	Medium	47.8	47.8	47.8	50	50.8			
oodiid lovel ab(//)	High	49.5	50.4	51.4	52.1	53.5			
Unit dimension W x H x D (in)		Ę	51-1/4 x 16-1/2 x 27-1/4	56-3/4 x 20 x 36-1/2					
	Total weight (lb)		161.4/233.7	255.7/346.2					
Refrigeration type		R410a							
Expansion device		EXV							
Design pressure, high	/low (psig)			580/320					
Refrigerant piping (in)	Liquid side, OD (Flare)		3/8	3/8					
	Suction side, OD (Flare)		5/8	7/8					
Connecting wiring	Power wiring	Sized per NEC and Local Codes based on Nameplate Electrical Data							
Connecting wiring	Signal wiring		2-core stranded shi	ole 18AWG-16AWG					
Condensate drain pip	e diameter, OD (in)		1		1-5	5/8			
Electrical data	MCA (A)	5.7 6.3		6.9	8.5	10			
	MOPD (A)	15							

Individual Zone Controls



Wireless Remote Controller - 40VM900001

- Mode
- · Fan Speed
- · Set Point
- Swing
- ON/OFF
- Clock
- Timer
- Lock Function
- 1° F Temperature Indication
- Addressing Capability



Simple Wired Remote Controller - 40VM900002

- · Simple, Easy to Use
- Backlight
- ON/OFF
- Mode
- Fan Speed
- Set Point
- Swing
- Group Control (Max 16 indoor units)

- · Dual Set Point
- · Set Temperature Range Limiting
- · Room Temperature Display
- · Error Display
- 1° F Temperature Indication
- Addressing Capability



Scheduling Wired Remote Controller - 40VM900003

- Weekly Scheduling
- ON/OFF
- Mode
- Fan Speed
- Set Point
- Swing
- Backlight
- Group Control (Max 16 indoor units)

- · Dual Set Point
- Set Temperature Range Limiting
- Room Temperature Display
- Error Display
- 1° F Temperature Indication
- · Addressing Capability





Touchscreen Wired Remote Controller - 40VM900005

- Display Resolution Is 800*480
- Weekly Scheduling
- Touchscreen
- Backlight
- ON/OFF
- Mode
- Fan Speed
- Set Point
- Swing

- Group Control (Max 16 indoor units)
- Dual Set Point
- Set Temperature Range
- Room Temperature Display
- Error Display
- 1° F Temperature Indication
- Addressing Capability



24V Interface - 40VM900008

- · Works With All Indoor Units
- Allows Standard 24V Thermostat Connection
- Integration With Thermostat Features Including Wi-Fi[®],
 One Per Indoor Unit
- ON/OFF
- Mode
- Fan Speed
- Set Point
- Room Temperature Display





Côr® Thermostat



33CONNECTSTAT

Central Control



Schedule Central Controller - 40VM900004

- Group Control (Max 64 indoor units)
- Backlight
- ON/OFF
- Mode
- Fan Speed
- · Set Point
- Swing

- · Set Temperature Range Limiting
- · Room Temperature Display
- · Error Display

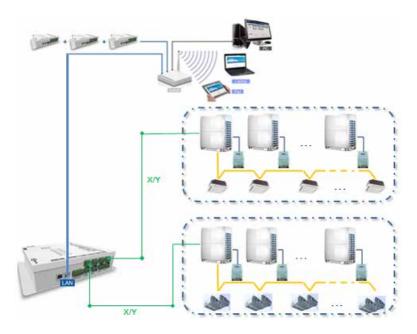


Touchscreen Central Controller - 40VM900006

- Group Control (Max 512 indoor units & 20 outdoor units)
- 10.1 Inch Screen, 1200*800 Resolution
- 3 Levels of Account Management, Can Set Up 20 Users
- Remote Access
- Alarm Notification Via Email Error Display
- Fire Alarm and Interacting Information
- · 4-path DI and DO

- · Recognize Units Automatically
- ON/OFF
- · Weekly Scheduling
- Mode
- Fan Speed
- · Set Point
- Swing
- · Dual Set Point
- · Set Temperature Range Limiting
- · Remote Access and Web Control

Building Automation

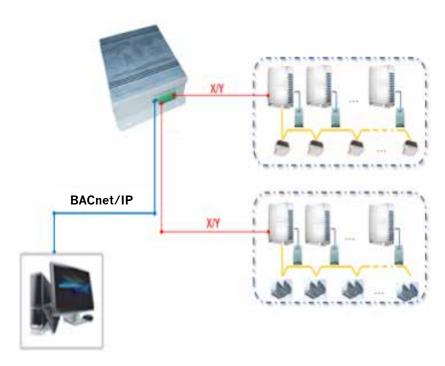


Intelligent Manager - 40VM900051

- · Manage 64 Refrigerant Systems (1,024 indoor units, 256 outdoor units)
- · Monitor Both Outdoor and Indoor **Unit Operation**
- Scheduling (Daily/Weekly)
- Energy-Saving Management:
 - Set Temperature Range Limiting
 - Lock Mode, Etc.
- Group Management
- · Export Software Log

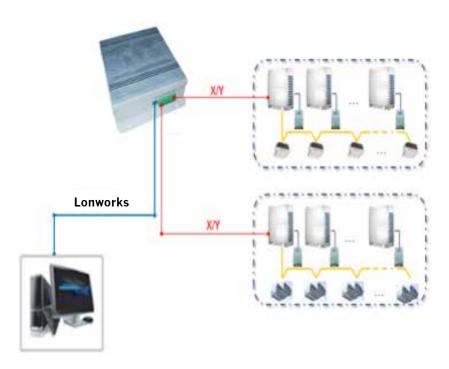
Building Automation





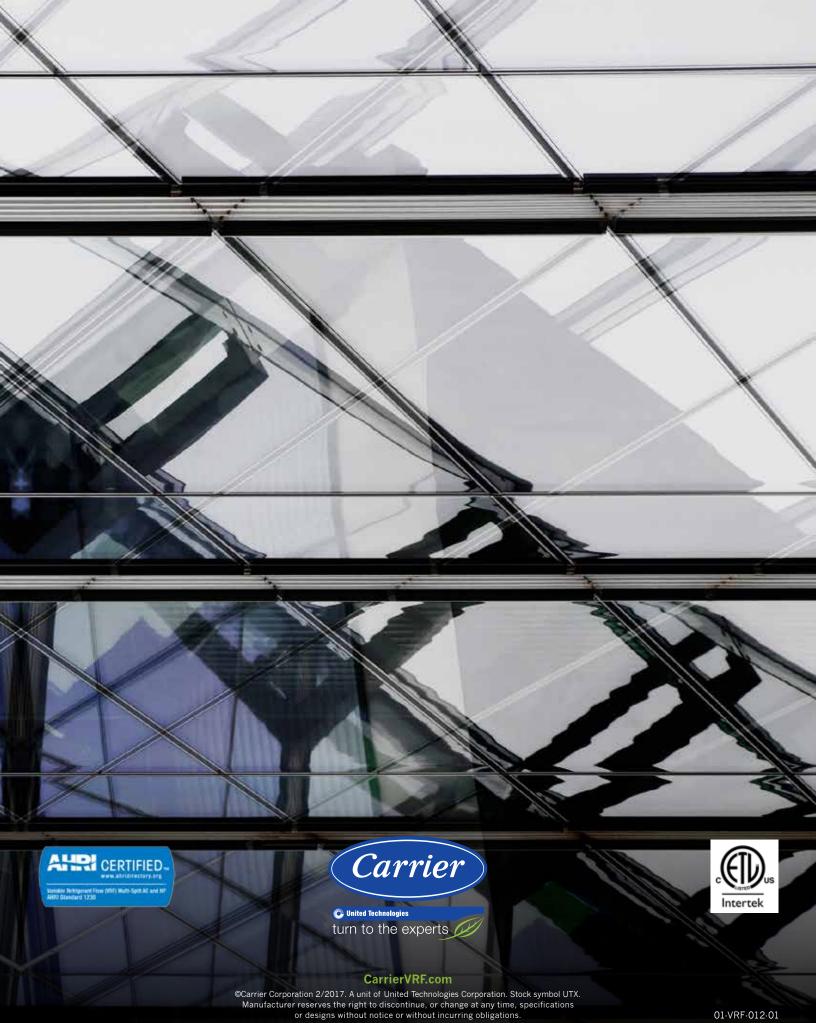
BACnet - 40VM900052

- Four 485 Ports, Each Port Can Access 64 Indoor Units or 8 Refrigeration Systems
- WEB Service Allows Log In Through Web
- Indoor Unit
 - Temperature Set
 - Indoor Temperature
 - Operate Mode
 - Error Code
 - Set Mode
- Outdoor Unit
 - Mode
 - Outdoor Temperature
 - Error Code



Lonworks - 40VM900053

- Supports 64 Indoor Units
- Indoor Unit
- Temperature Set
- Indoor Temperature
- Operate Mode
- Fault Code
- Outdoor Unit
 - Mode
 - Fault
 - Outdoor Temperature
 - Fault Code



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