

Side Discharge Series Heat Pump & Cooling Only



NEW
Fashion Design

R-410A

DC Inverter

Features

Wide Application Range

Wide range of outdoor units

		8	10	12	14	16	17.5	20	22.4	26	28	33.5	40	45
kW														
kBtu/h		27.3	35.8	40.9	47.8	52.9	60	68.2	76.4	88.7	95.5	114.3	136.5	153.5
Air Cooled - Heat Pump	Super XS series 380-415V/3Ph/50(60)Hz							●	●	●	●	●		
	Mini H series 380-415V/3Ph/50(60)Hz							●	●	●	●	●	●	●
	Mini H series 220-240V/1 Ph/50Hz or 208-230V/1 Ph/60Hz	●	●	●	●	●	●							
	Super XS series 220-240V/1Ph/50(60)Hz	●	●	●	●	●								
Air Cooled - Cooling Only	Super XS series 380-415V/3Ph/50 or 60 Hz							●	●	●	●			
	220-240V/1Ph/50Hz & 208-230V/1Ph/60Hz	●	●		●	●								

● Single unit

Flexible indoor units connection

Mini VRF with intelligent control gives you independent zoning control with maximum flexibility. A single outdoor unit supports up to nine indoor units, freeing up considerable space outside. Use your backyard more wisely with much more space available created by less number of outdoor units.

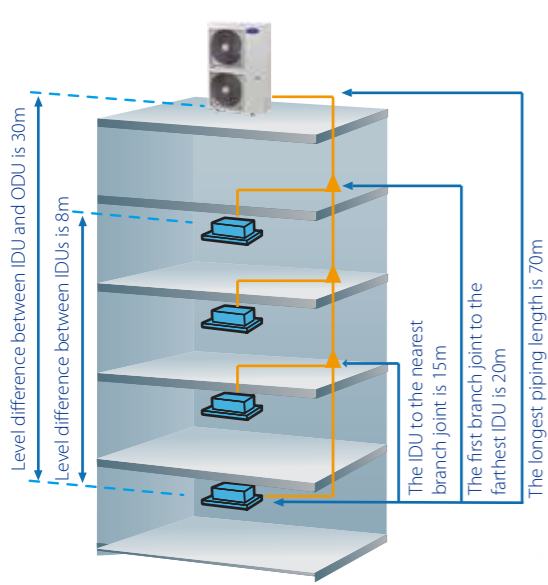
- Max. 7 indoor units for a 15.5kW(52,900Btu/h) outdoor unit installation
- Max. 6 indoor units for a 14kW(47,800Btu/h) outdoor unit installation
- Max. 6 indoor units for a 12kW(40,900Btu/h) outdoor unit installation
- Max. 5 indoor units for a 10.5kW(35,800Btu/h) outdoor unit installation
- Max.4 indoor units for a 8kW(27,300Btu/h outdoor unit installation)



* For 20-45KW unit, please check the information in the specifications.

Flexible piping design

The Mini VRF provides a total piping length possibility of 250m, a maximum height difference between outdoor and indoor units of 30m. The height difference between indoors unit can be up to 8m. These generous allowances facilitate an extensive array of system designs.



Mini H VRF piping capability

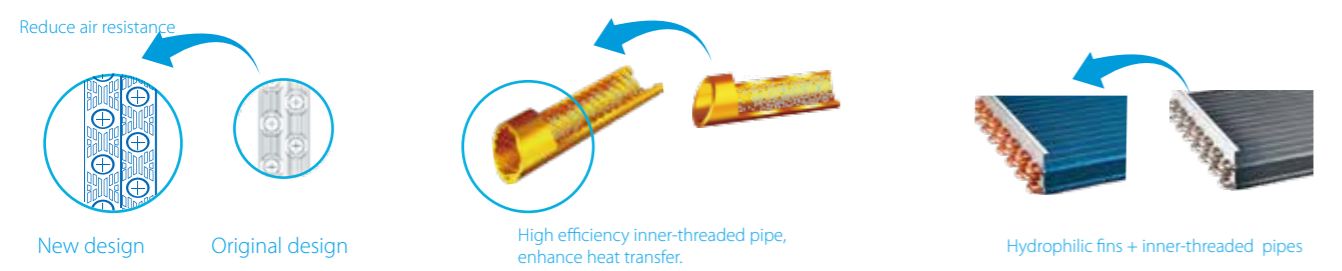
Permitted value		8/10.5kW (27.3/35.8kBtu/h)	12/14/15.5/17.5kW (40.9/47.8/ 52.9/60.6kBtu/h)	20/22.4/26/28/33.5kW (68.2/76.4/88.7/95.9/ 114.3kBtu/h)	40/45kW 136.5/153.5kBtu/h
Piping length	Total piping length (Actual)	100m	100m	120m	250m
	Longest piping (L)	Actual length: 45m Equivalent length: 50m	60m 70m	60m 70m	100m 120m
Level difference	Equivalent piping length (from the farthest IDU to the first indoor branch joint)	20m	20m	20m	40m
	Level difference between IDU-ODU	Outdoor unit up: 30m Outdoor unit down: 20m	30m 20m	30m 20m	30m 20m
	Level difference between IDU-IDU	8m	8m	8m	8m

1 Total pipe length is equal to all the liquid pipe or all the gas pipe length.
2 When the total equivalent pipe length of liquid side plus gas side is more than 90m(295.2ft), it needs to meet the specific conditions according to the installation part of the technical manual.

Super XS piping capability

Items	Capability(m)							
Capacity(kW)	7.2	9/12.2	14/15.5	20	22.4	26	28.5	33.5
Capacity(kBtu/h)	24.6	30.7/40.9	47.8/52.9	68.2	76.8	88.7	97.2	114.3
Total piping length	50	65	100	150				
Longest piping length-actual (equivalent)	35 (40)	45 (50)	60 (70)	100(110)				
Longest piping length after first branch	20			40				
Largest level difference between IDUs and ODU-ODU up (down)	10 (10)	20 (20)	30 (20)	50(40)				
Largest level difference between IDUs	8	8	8	15				

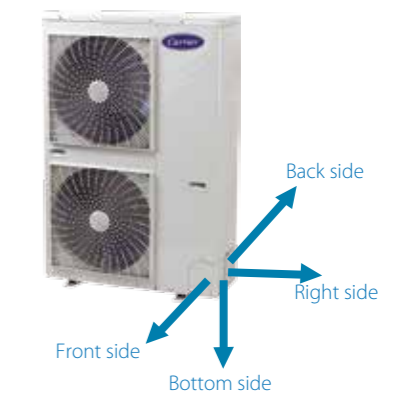
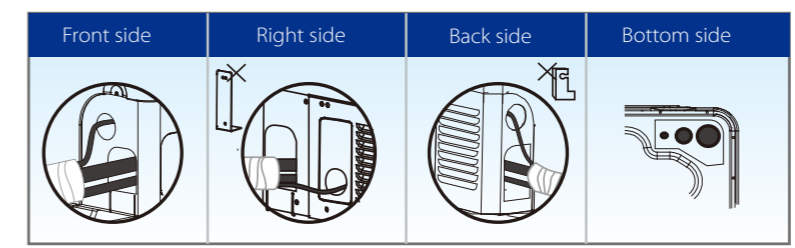
High performance heat exchanger



- The new designed window fins enlarge the heat-exchanging area, decrease the air resistance, save more power and enhance heat exchange performance.
- Hydrophilic film fins and inner-threaded copper pipes optimize heat exchange efficiency.
- The specially coated blue fins enhance durability and protect against corrosion from air, water and other corrosive agents, assures a longer coil service life.

More convenience in installation

A four-direction space is available for connecting pipes and wiring in various installation sites.



More convenient piping connector - branch box

Easier and safer installation thanks to a branch box that simplifies piping work and the adoption of screw connection.

Both left and right pipe flare connection from outdoor unit to branch box is reserved, which greatly simplifies field installation.

Two sets of pipe size converter are packed with branch box to transfer the pipe size from $\Phi 6.35\text{mm}$ to $\Phi 9.53\text{mm}$ and from $\Phi 12.7\text{mm}$ to $\Phi 15.9\text{mm}$.

Low noise

The branch pipe is linear expansion design regulates the flow of refrigerant and reduces the noise. By locating the branch box in the ceiling or outside, noise generated by the branch box can be kept clear of living spaces, thus makes noise level to a minimum.



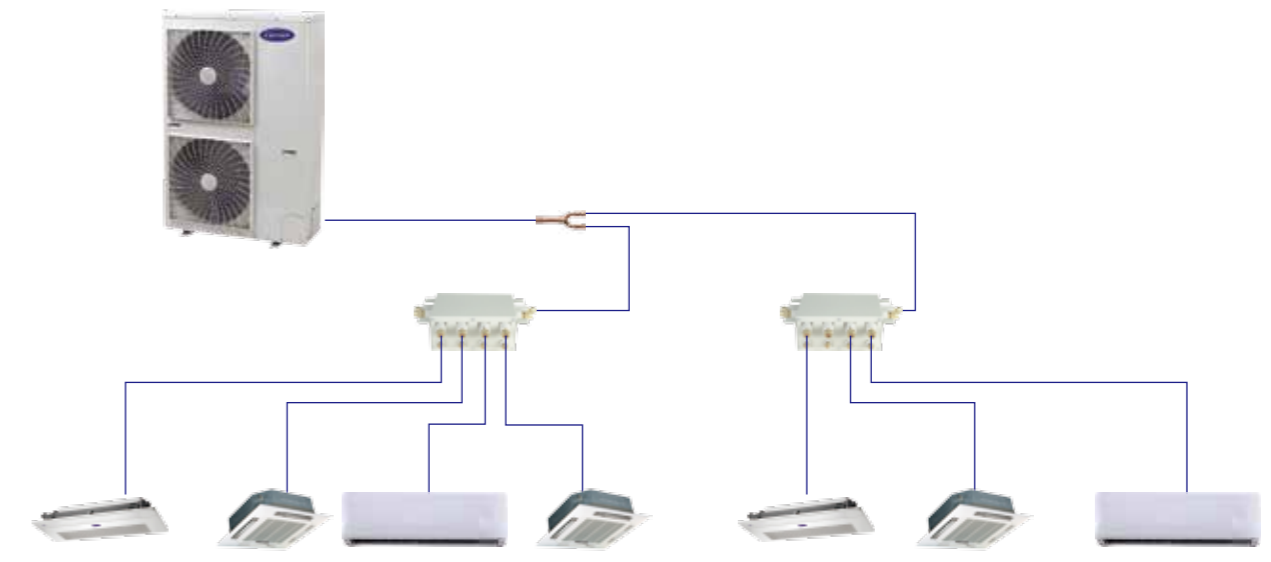
Brazing-free quick installation

All the piping leading to and from the branch box is connected using screw joints, which can be installed quickly and easily.

Indoor installation

The branch box can be installed in the ceiling rather than outside. Removing the side and bottom covers provides easy access for maintaining inner components such as circuit boards.

New piping connection design

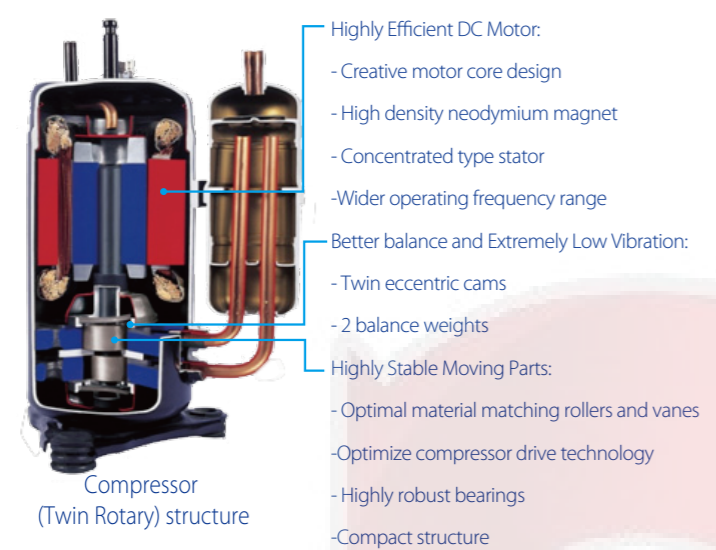


*40/45KW unit can not connect branch box

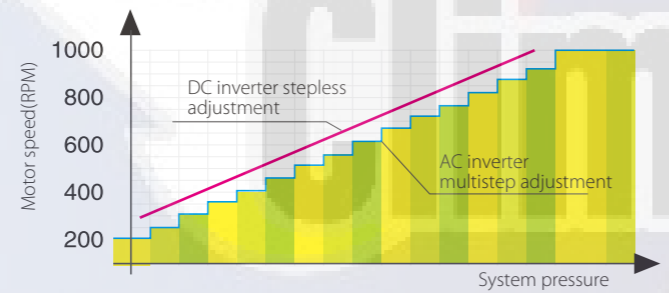
Advanced Technologies

Full DC inverter technology

At the heart of our system is a highly intelligent inverter driven compressor. This advanced technology enables the output of the outdoor unit to be modulated by the cooling or heating demands of the zone that it controls. This advanced system ensures precise temperature regulation and highly efficient energy usage, making a significant contribution to the limiting the impact on the environment.

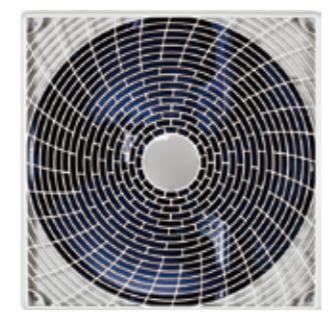
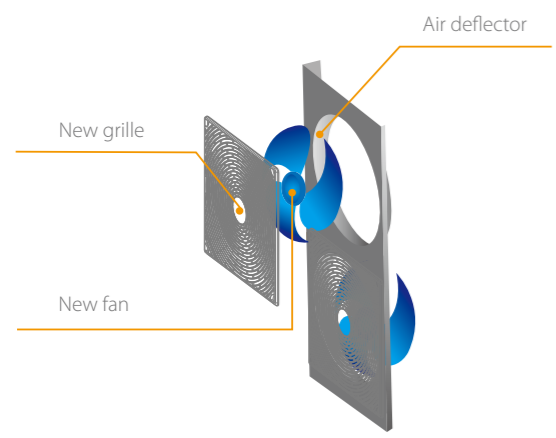


High efficiency DC fan motor saved power up to 50%.

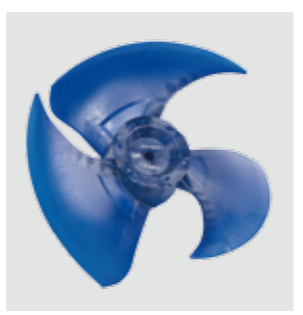


Noise reducing design

Optimally designed fan shape and air discharge grille increases air volume and reduces running noise.



Newly Designed Fan Guard



Powerful Large Propeller

Mini H Series – Heat Pump 3 Phase



380/415V-3Ph~60Hz	220V 3N~60Hz	380-415V 3N~ 50Hz		
38VR004H118010	38VR008H11701S	38VR004H119010	38VR007H119010	38VR012H11901S
38VR005H118010	38VR010H11701S	38VR005H119010	38VR008H11901S	38VR014H11901S
38VR006H118010		38VR006H119010	38VR010H11901S	38VR016H11901S

Specifications 60Hz

Sales Model			38VR004H118010	38VR005H118010	38VR006H118010	38VR008H11701S	38VR010H11701S
Power supply		V-Ph-Hz	380/415V-3Ph~60Hz	380/415V-3Ph~60Hz	380/415V-3Ph~60Hz	220V 3N~60Hz	220V 3N~60Hz
Cooling	Capacity	kW	12	14	15.5	25.2	28
		RT	3.4	4.0	4.4	7.1	7.95
	Input	kW	3.25	3.95	4.52	6.8	7.8
	EER	KBtu/h/kW	12.59	12.08	11.70	12.65	12.24
Heating	Capacity	kW	13.2	15.4	17	27	31.5
		RT	3.8	4.4	4.9	7.7	8.95
	Input	kW	3.47	4.16	4.77	6.4	7.6
	COP	KBtu/h/kW	12.97	12.62	12.15	14.4	14.12
Outdoor sound level (*3)		dB(A)	57	57	57	58	60
Pipe connections	Liquid side	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas side	mm	Φ15.9	Φ15.9	Φ19.1	Φ22.2	Φ22.2
Connectable	Total capacity	%	50-130%	50-130%	50-130%	50-130%	50-130%
	Max.quantity		6	6	7	11	12
Compressor	Type		Rotary	Rotary	Rotary	Rotary	Rotary
	Brand		mitsubishi	mitsubishi	mitsubishi	mitsubishi	mitsubishi
	Capacity	kW	9.8	9.8	14	17.1	17.1
	Crankcase	W	27	27	25	25	25
	Refrigerant oil	Type	FV50S	FV50S	FV50S	FV50S	FV50S
	Refrigerant oil	ml	870	870	1400	1700+1500	1700+1500
	Type		DC motor	DC motor	DC motor	DC motor	DC motor
Fan Motor	Quantity		2	2	2	2	2
	Output	W	2 x85	2 x85	2 x 85	200(up)/150(down)	200(up)/150(down)
	Airflow	CFM	4100	3824	3530	6173	6173
m³/h		6983	6500	6000	10494	10494	
Outdoor unit	Dimension(W x H x D)	mm	900 x 1327 x 400	900 x 1327 x 400	900 x 1327 x 400	1120 x 1558 x 528	1120 x 1558 x 528
	Packing (W x H x D)	mm	1030 x 1456 x 435	1030 x 1456 x 435	1030 x 1456 x 435	1270 x 1720 x 565	1270 x 1720 x 565
	Net/Gross weight	kg	92/106	95/106	102/113	146.5/162.5	147/163
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Charged volume	g	3300	3900	3900	3100	3100
Throttle type			EXV				
Design pressure		MPa	4.4/2.6				
Ambient temp	Cooling	°C	-15~43			-5-48	
	Heating	°C	-15~27			-15-24	

Note:

- The cooling conditions: indoor temp.: 27°C DB, 19 °C WB outdoor temp.: 35°C DB equivalent pipe length: 5m drop length: 0m.
- The heating conditions: indoor temp.: 20°C DB, 15°C WB outdoor temp.: 7 °C DB equivalent pipe length: 5m drop length: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of *m(1m for 105 model, 1.2m for 120~160model). During actual operation, these values might be higher as a result of ambient conditions.
- The above data may be changed without notice for future improvement on quality and performance.

Specifications 50Hz

Sale Model			38VR004H119010	38VR005H119010	38VR006H119010	38VR007H119015
Power supply		V-Ph-Hz	380-415V-3N~50Hz	380-415V-3N~50Hz	380-415V-3N~50Hz	380-415V-3N~50Hz
Cooling	Capacity	kW	12.3	14	15.5	17.5
		RT	3.5	4.0	4.4	4.9
	Input	kW	3.25	3.95	4.52	5.3
	EER	KBtu/h/kW	12.90	12.08	11.70	11.26
Heating	Capacity	kW	13.2	15.4	17	19
		RT	3.8	4.4	4.9	5.4
	Input	kW	3.47	4.16	4.77	5.0
	COP	KBtu/h/kW	12.97	12.62	12.15	13.0
Connectable indoor unit	Total capacity	%	50-130%	50-130%	50-130%	50-130%
	Max.quantity		6	6	7	7
Outdoor sound level (sound pressure level)		dB(A)	57	57	57	59
Refrigerant Pipe	Liquid side	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas side	mm	Φ15.9	Φ15.9	Φ19.1	Φ19.1
Compressor	Type		Rotary	Rotary	Rotary	Rotary
	Brand		mitsubishi	mitsubishi	mitsubishi	mitsubishi
	Capacity	Btu/h	33720	33720	47700	47700
	Crankcase	W	27	27	25	25
	Refrigerant oil	ml	FV50S 870ml	FV50S 870ml	FV50S 1400ml	FV50S 1400ml
Fan motor	Quantities		2	2	2	2
	Type		DC motor	DC motor	DC motor	DC motor
	Air flow rate	m ³ /h	6000	6000	6000	6800
		CFM	3529	3529	3529	4000
Outdoor unit	Dimension(W*H*D)	mm	900*1327*400	900*1327*400	900*1327*400	900*1327*400
	Packing (W*H*D)	mm	1030*1456*435	1030*1456*435	1030*1456*435	1030*1456*435
	Net/Gross weight	kg	95/106	95/106	102/113	107/118
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charged volume	g	3300	3900	3900	4500
Throttle type			EXV	EXV	EXV	EXV
Design pressure		MPa	4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6
Ambient temp	Cooling	°C	-15~43			
	Heating		-15~27			

Note:

- The cooling conditions: indoor temp.: 27°C DB, 19 °C WB outdoor temp.: 35°C DB equivalent pipe length: 5m drop length: 0m.
- The heating conditions: indoor temp.: 20°C DB, 15°C WB outdoor temp.: 7 °C DB equivalent pipe length: 5m drop length: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.2m. During actual operation, sound level might be affected by ambient conditions.
- The above data may be changed without notice for future improvement on quality and performance.

Specifications 50Hz

Sales Model			38VR007H119010	38VR008H119015	38VR010H119015	38VR012H119015	38VR014H119015	38VR016H119015
Power supply		V-Ph-Hz	380-415V-3N~50Hz	380-415V-3N~50Hz	380-415V-3N~50Hz	380-415-3N~50Hz	380-415-3N~50Hz	380-415-3N~50Hz
Cooling	Capacity	kW	20	22.4	26	33.5	40	45
		RT	5.7	6.4	7.4	9.5	11.4	12.9
	Input	kW	6.1	6.8	7.6	9.85	11.9	13.6
	EER	KBtu/h/kW	11.19	11.23	11.67	11.6	11.43	11.33
Heating	Capacity	kW	22	24.5	28.5	33.5	45	50
		RT	6.29	7	8.1	9.5	12.86	14.3
	Input	kW	6.1	5.9	6.8	8.38	11.1	12.7
	COP	KBtu/h/kW	12.32	14.16	14.30	13.65	13.82	13.41
Outdoor sound level(*3)		dB(A)	59	59	60	62	62	62
Pipe connections	Liquid side	mm	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ12.7
	Gas side	mm	Φ19.1	Φ19.1	Φ22.2	Φ22.2	Φ22.2	Φ25.4
Connectable	Total capacity	%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%
	Max.quantity		10	11	12	13	14	15
Compressor	Type		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
	Brand		mitsubishi	mitsubishi	mitsubishi	mitsubishi	mitsubishi	mitsubishi
	Capacity	Btu/h	13980	16860	16860	57526	13980x2	16860x2
	Crankcase	W	25	25	25	5.2	25x2	25x2
	Refrigerant oil	Type	FV50S	FV50S	FV50S	FV50S	FV50S	FV50S
	Refrigerant oil	ml	1400+1300	1700+1500	1700+1500	1700+1500	1400x2+2500	1700x2+3600
Fan Motor	Type		DC motor	DC motor	DC motor	DC	DC+AC	DC+AC
	Quantity		2	2	2	2	1+1	1+1
	Output	W	210/160	200/150	200/150	220+180	560/320	560/320
		CFM	6470	6173	6173	6374	9750	9750
Outdoor unit	Dimension(WxHxD)	mm	1120x1558x528	1120x1558x528	1120x1558x528	1120x1558x528	1360x1650x540	1460x1650x540
		mm	1270x1720x565	1270x1720x565	1270x1720x565	1270x1720x565	1450x1785x560	1550x1785x560
	Net/Gross weight	kg	137/153	146.5/162.5	147/163	157/173	240/260	275/290
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A
	Charged volume	g	4800	6200	6200	3750	9000	12000
Throttle type			EXV					
Design pressure		MPa	4.4/2.6					
Ambient temp	Cooling	°C	-15~46	-15~46	-15~46	-5~48	-5~48	-5~48
	Heating		-15~24	-15~24	-15~24	-15~24	-15~24	-15~24

Note:

- The cooling conditions: indoor temp.: 27°C DB, 19 °C WB outdoor temp.: 35°C DB equivalent pipe length: 5m drop length: 0m.
- The heating conditions: indoor temp.: 20°C DB, 15°C WB outdoor temp.: 7 °C DB equivalent pipe length: 5m drop length: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.2m. During actual operation, sound level might be affected by ambient conditions.
- The above data may be changed without notice for future improvement on quality and performance.

Mini H Series - Heat Pump 1 Phase



208/230V~1Ph~60Hz

38VR004H11301S
38VR004H113010
38VR005H113010
38VR006H113010

220-240V/1Ph~50Hz

38VR003H112010 38VR005H112010
38VR004H11201S 38VR006H112010
38VR004H112010

Specifications 60Hz

Sole Model			38VR004H11301S	38VR004H113010	38VR005H113010	38VR006H113010
Power supply		V-Ph-Hz	208/230V-1Ph~60Hz	208/230V-1Ph~60Hz	208/230V-1Ph~60Hz	208/230V-1Ph~60Hz
Cooling	Capacity	kW	10.5	12	14	15.5
		RT	3	3.4	4.0	4.4
	Input	kW	2.68	3.25	3.95	4.52
	EER	KBtu/h/kW	13.38	12.59	12.08	11.70
Heating	Capacity	kW	11.5	13.2	15.4	17
		RT	3.3	3.8	4.4	4.9
	Input	kW	2.9	3.47	4.16	4.77
Coneectable indoor unit	COP	KBtu/h/kW	13.55	12.97	12.62	12.15
	Total capacity	%	50-130%	50-130%	50-130%	50-130%
Outdoor sound level (*3)	Max.quantity		5	6	6	7
	dB(A)		57	57	57	57
Pipe connections	Liquid side	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas side	mm	Φ15.9	Φ15.9	Φ15.9	Φ19.1
Compressor	Type		Rotary	Rotary	Rotary	Rotary
	Brand		mitsubishi	mitsubishi	mitsubishi	mitsubishi
	Capacity	Btu/h	24330	33710	33710	47713
	Input	W	2200	3010	3010	4240
	Crankcase	W	25	27	25	20
	Refrigerant oil	Type		FV50S	FV50S	FV50S
ml			670	870	870	1400
Fan Motor	Type		DC motor	DC motor	DC motor	DC motor
	Quantity		1	2	2	2
	Output	W	170	2 x 85	2 x 85	2 x 85
	Air floor rate	CFM		3000	3531	3531
m ³ /h			5100	6000	6000	6000
Outdoor unit	Dimension(WxHxD)	mm	1075x966x396	900x1327x400		
	Packing (W x H x D)	mm	1120x1100x435	1030x1456x435		
	Net/Gross weight	kg	78/85	95/106	95/106	102/113
Refrigerant	Type		R410a			
	Charged volume	kg	3	3.3	3.9	3.9
Throttle type			EXV	EXV	EXV	EXV
Design pressure		MPa	4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6
Ambient temperature range	Cooling	°C	-15~43			
	Heating	°C	-15~27			

Note:

- The cooling conditions: indoor temp.: 27°C DB, 19°C WB outdoor temp.: 35°C DB equivalent pipe length: 5m drop length: 0m.
- The heating conditions: indoor temp.: 20°C DB, 15°C WB outdoor temp.: 7°C DB equivalent pipe length: 5m drop length: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.2m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- The above data may be changed without notice for future improvement on quality and performance.

Specifications 50Hz

Model			38VR003H112010	38VR004H11201S	38VR004H112010	38VR005H112010	38VR006H112010
Power supply		V-Ph-Hz	220-240V/1Ph~50Hz	220-240V/1Ph~50Hz	220-240V/1Ph~50Hz	220-240V/1Ph~50Hz	220-240V/1Ph~50Hz
Cooling	Capacity	kW	7.2 (1.5-8.0)	9.0 (2.0-10.0)	12.3	14	15.5
		RT	2.3	3.0	3.5	4.0	4.4
	Input	kW	1.85	2.30	3.25	3.95	4.52
	EER	KBtu/h/kW	13.31	13.38	12.90	12.08	11.70
Heating	Capacity	kW	7.2(1.6-8.4)	9.0(2.1-10.5)	13.2	15.4	17
		RT	2.6	3.3	3.8	4.4	4.9
	Input	kW	1.79	2.27	3.47	4.16	4.77
Coneectable indoor unit	COP	KBtu/h/kW	13.72	13.55	12.97	12.62	12.15
	Total capacity	%	50-130%	50-130%	50-130%	50-130%	50-130%
Outdoor sound level (sound pressure level)	Max.quantity		4	5	6	6	7
	dB(A)		56	57	57	57	57
Refrigerant Pipe	Liquid side	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas side	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.1
Compressor	Type		Rotary	Rotary	Rotary	Rotary	Rotary
	Brand		mitsubishi	mitsubishi	mitsubishi	mitsubishi	mitsubishi
	Capacity	Btu/h	24334	24334	33642	33642	47700
	Crankcase	W	25	25	25	25	25
	Refrigerant oil	ml	FV50S 670ml+200ml	FV50S 670ml+200ml	FV50S 870ml+630ml	FV50S 870ml+630ml	FV50S 1400ml+250ml
	Quantities		1	1	2	2	2
Fan motor	Type		DCmotor	DCmotor	DCmotor	DCmotor	DCmotor
	Brand		Panasonic	Panasonic	Panasonic	Panasonic	Panasonic
	Output	W	170	170	2*85	2*85	2*85
	Air flow rate	m ³ /h		5500	5500	6000	6000
CFM			3235	3235	3529	3529	3529
Outdoor unit	Dimension(W*H*D)	mm	1075*966*396	1075*966*396	900*1327*400	900*1327*400	900*1327*400
	Packing (W*H*D)	mm	1120x1100x435	1120*1100*435	1030*1456*435	1030*1456*435	1030*1456*435
	Net/Gross weight	kg	75.5/85.5	75.5/85.5	95/106	95/106	100/111
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Charged volume	g	2800	3000	3300	3900	3900
Throttle type			EXV	EXV	EXV	EXV	EXV
Design pressure		MPa	4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6
Ambient temp	Cooling	°C	-15~43				
	Heating	°C	-15~27				

Mini H Series-Cooling Only 1 Phase

■ Specifications 50/60Hz

Model name	38VR003C11A010	38VR004C11A01S	38VR004C11A010	38VR005C11A010	38VR006C11A010		
Power supply	V-Ph-Hz	1-phase, 220-240V, 50Hz 1-phase, 208-230V, 60Hz					
Cooling ¹	Capacity	kW	7.2	9.2	11	14.5	17
	Power input	kW	1.64	2.13	2.75	3.57	4.24
	EER		4.39	4.32	4	4.06	4.26
Connected indoor units	Total capacity	45-130% of outdoor unit capacity					
	Maximum quantity		4	5	6	8	9
Compressor	Type	DC inverter					
	Quantity	1					
Fan motor	Motor Type	DC					
	Quantity	1					
Refrigerant	Type	R410A					
	Factory charging	kg	1.4	1.4	1.4	2.6	2.6
Pipe connections	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Airflow rate	m ³ /h	3400	3400	3400	5100	5100	
Sound pressure level ²	dB(A)	54	54	54	55	55	
Net dimensions (WxHxD)	mm	973x862x302	973x862x302	973x862x302	1053x865x523	1053x865x523	
Packed dimensions (WxHxD)	mm	1025x910x410	1025x910x410	1025x910x410	1120x890x560	1120x890x560	
Net weight	kg	58	58	58	85	85	
Gross weight	kg	63	63	63	92	92	
Operating temperature range	°C	Cooling: -5 to 48					

Notes:

- Indoor air temperature 27°C (80.6 °F) DB, 19°C (66.2 °F) WB; outdoor air temperature 35°C (95 °F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Sound pressure level is measured at a position 1m (3.28ft.) in front of the unit and 1.3m (4.26ft.) above the floor in a semi-anechoic chamber.
- For a system with more than one IDU, to ensure even distribution of refrigerant, the capacity of each indoor unit should not exceed 8kW.

Super XS Series - Heat Pump 1 Phase

■ Specifications 50/60Hz

HP	3		4		4.5	
Model	38VR003H112016		38VR0S4H112016		38VR004H112016	
Power supply	V/N/Hz	220-240/1/ 50(60)				
Cooling ¹	Capacity	kW	8.0	10.0	12.0	
		kBtu/h	27.3	34.1	40.9	
	Power input	kW	2	2.55	3.1	
	EER		4	3.92	3.87	
Heating ²	Capacity	kW	9.0	12.0	14.0	
		kBtu/h	30.7	40.9	47.8	
	Power input	kW	1.95	2.97	3.45	
	COP		4.62	4.04	4.06	
Connectable indoor unit	Total capacity	45~130% of outdoor unit capacity				
	Max. quantity		4	6	7	
Compressor	Type	DC inverter				
	Quantity	1				
Fan motor	Type	DC				
	Quantity	1				
Refrigerant	Type	R410A				
	Factory charge	kg	2.2	2.35	3	
Pipe connections ³	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ15.9			
Airflow rate	m ³ /h	3700	5200	5000		
Sound pressure level	dB(A)	54	54	56		
Net dimensions (WxHxD)	mm	982x712x440	950x840x426			
Packed dimensions (WxHxD)	mm	1048x810x485	1025x950x510			
Net weight	kg	53	71.5	83		
Gross weight	kg	57.5	81	92		
Operating temperature range	°C	Cooling: -5~55, Heating: -15~27				

HP	5		6	
Model	38VR005H112016		38VR006H112016	
Power supply	V/N/Hz	220-240/1/ 50(60)		
Cooling ¹	Capacity	kW	14.0	15.5
		kBtu/h	47.8	52.9
	Power input	kW	3.75	4.8
	EER		3.73	3.23
Heating ²	Capacity	kW	16.0	18.0
		kBtu/h	54.6	61.4
	Power input	kW	3.85	4.65
	COP		4.16	3.87
Connectable indoor unit	Total capacity	45~130% of outdoor unit capacity		
	Max. quantity		8	9
Compressor	Type	DC inverter		
	Quantity	1		
Fan motor	Type	DC		
	Quantity	1		
Refrigerant	Type	R410A		
	Factory charge	kg	3.4	3.8
Pipe connections ³	Liquid pipe	mm	Φ9.53	
	Gas pipe	mm	Φ15.9	
Airflow rate	m ³ /h	5400	5200	
Sound pressure level	dB(A)	56	56	
Net dimensions (WxHxD)	mm	1040x865x523		
Packed dimensions (WxHxD)	mm	1120x980x560		
Net weight	kg	90.4	94.4	
Gross weight	kg	100.4	104.4	
Operating temperature range	°C	Cooling: -5~55, Heating: -15~27		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

Super XS Series-Heat Pump 3 Phase

■ Specifications 50/60Hz

HP			7	8	9	10	12	
Model			38VR007H119016	38VR008H119016	38VR009H119016	38VR010H119016	38VR012H119016	
Power supply	V/N/Hz	380-415/3/50(60)						
Cooling ¹	Capacity	kW	20	22.4	26	28.5	33.5	
		kBtu/h	68.2	76.4	88.7	97.2	114.3	
	Power input	kW	5.6	6.3	7.6	8.4	9.2	
	EER		3.57	3.56	3.42	3.39	3.64	
Heating ² (Nominal)	Capacity	kW	20	22.4	26	28.5	33.5	
		kBtu/h	68.2	76.4	88.7	97.2	114.3	
	Power input	kW	4.7	5.3	6.6	7.3	8.1	
	COP		4.26	4.23	3.94	3.9	4.14	
Heating ² (Max)	Capacity	kW	22.5	25	28.5	31.5	37.5	
		kBtu/h	76.8	85.3	97.2	107.5	128.0	
	Power input	kW	5.4	6	7.3	8.1	9.2	
	COP		4.17	4.17	3.9	3.89	4.08	
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity						
	Maximum quantity		11	13	15	16	20	
Compressor	Type	DC inverter						
	Quantity	1						
Fan motors	Type	DC						
	Quantity	2						
Refrigerant	Type	R410A						
	Factory charge	kg	6.5	6.5	6.5	6.5	8	
Pipe connections ³	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ12.7	
	Gas pipe	mm	Φ19.1	Φ19.1	Φ22.2	Φ22.2	Φ25.4	
Airflow rate	m ³ /h	9000	9000	10000	11000	11300		
Sound pressure level ⁴	dB(A)	58	58	59	60	61		
Net dimensions (WxHxD)	mm	1120x1558x528						
Packed dimensions (WxHxD)	mm	1270x1720x565						
Net weight	kg	143	144	144	144	157		
Gross weight	kg	159	160	160	160	173		
Operating temperature range	Cooling	°C	-5 to 55					
	Heating	°C	-20 to 24					

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

Super XS Series – Cooling Only 3 Phase

■ Specifications 50/60Hz

HP			7	8	9	10		
Model			38VR007C119016	38VR008C119016	38VR009C119016	38VR010C119016		
Power supply	V/N/Hz	380-415/3/50						
Cooling ¹	Capacity	kW	20.0	22.4	26.0	28.0		
		kBtu/h	68.2	76.4	88.7	95.5		
	Power Input	kW	5.13	5.93	7.43	8.24		
EER		3.9	3.78	3.5	3.4			
Connected indoor unit	Total Capacity	50-130% of outdoor unit capacity						
	Maximum Quantity		10	13	15	16		
Compressor	Type	DC inverter						
	Quantity	1						
Fan	Type	AC						
	Quantity	2						
Refrigerant	Type	R410A						
	Factory charging	kg	3.9					
Pipe connections	Liquid pipe	mm	Φ9.53					
	Gas pipe	mm	Φ19.1					
Airflow rate	m ³ /h	7150						
Sound pressure level ²	dB(A)	57	57	58	59			
Net dimensions (WxHxD)	mm	902x1327x370						
Packed dimensions (WxHxD)	mm	1030x1456x435						
Net weight	kg	115						
Gross weight	kg	125						
Operating temperature range	°C	-5 ~ 55						

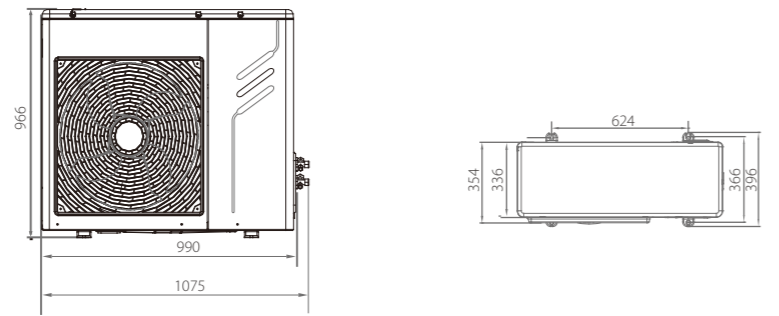
HP			7	8	9	10		
Model			38VR007C118016	38VR008C118016	38VR009C118016	38VR010C118016		
Power supply	V/N/Hz	380-415/3/60						
Cooling ¹	Capacity	kW	20.0	22.4	26.0	28.0		
		kBtu/h	68.2	76.4	88.7	95.5		
	Power Input	kW	5.13	5.93	7.43	8.24		
EER		3.9	3.78	3.5	3.4			
Connected indoor unit	Total Capacity	50-130% of outdoor unit capacity						
	Maximum Quantity		10	13	15	16		
Compressor	Type	DC inverter						
	Quantity	1						
Fan	Type	AC						
	Quantity	2						
Refrigerant	Type	R410A						
	Factory charging	kg	3.9					
Pipe connections	Liquid pipe	mm	Φ9.53					
	Gas pipe	mm	Φ19.1					
Airflow rate	m ³ /h	7150						
Sound pressure level ²	dB(A)	58	58	59	60			
Net dimensions (WxHxD)	mm	902x1327x370						
Packed dimensions (WxHxD)	mm	1030x1456x435						
Net weight	kg	115						
Gross weight	kg	125						
Operating temperature range	°C	-5 ~ 55						

Notes:

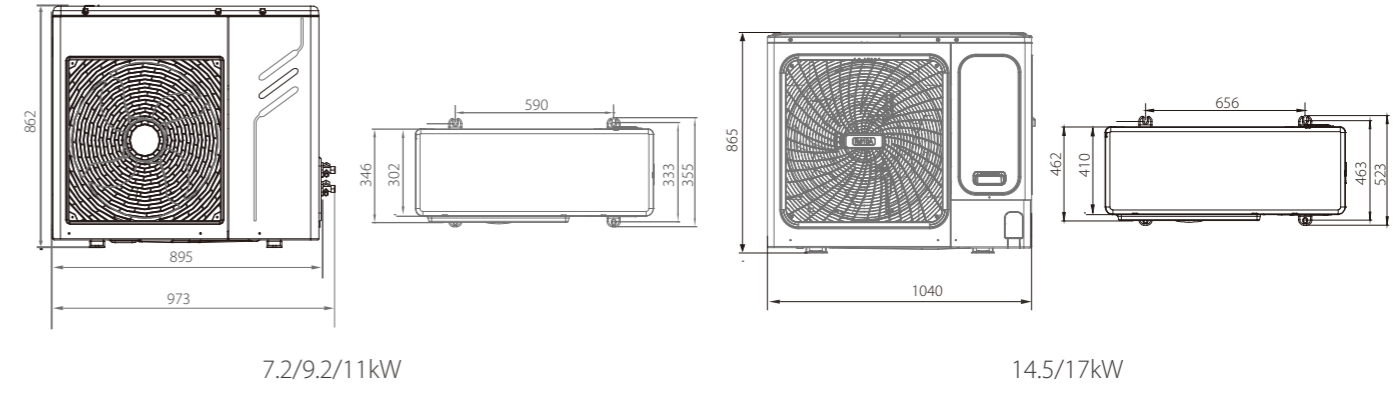
- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

Dimension

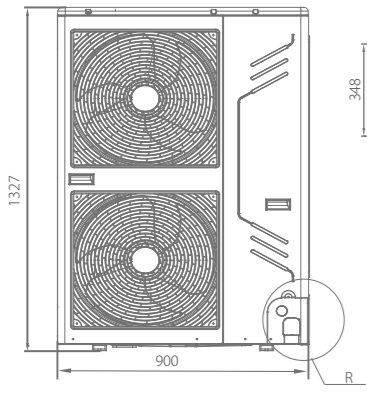
Mini H Series unit Heat Pump 8/10.5kW



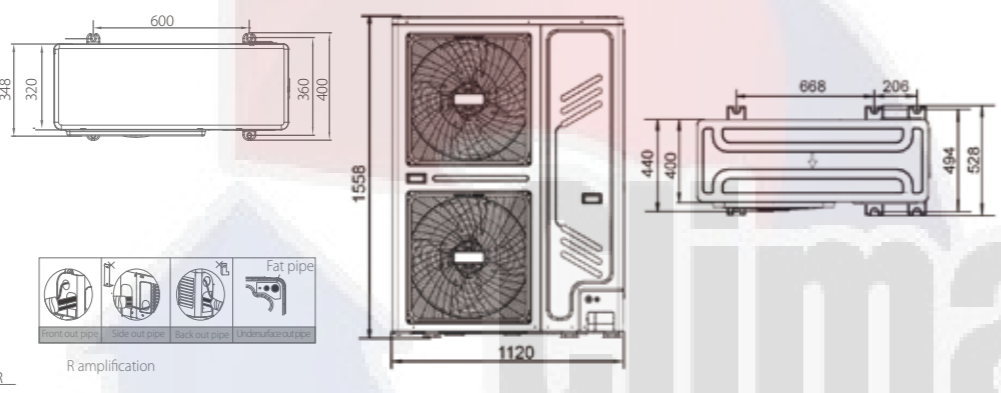
Mini H Series-Cooling Only



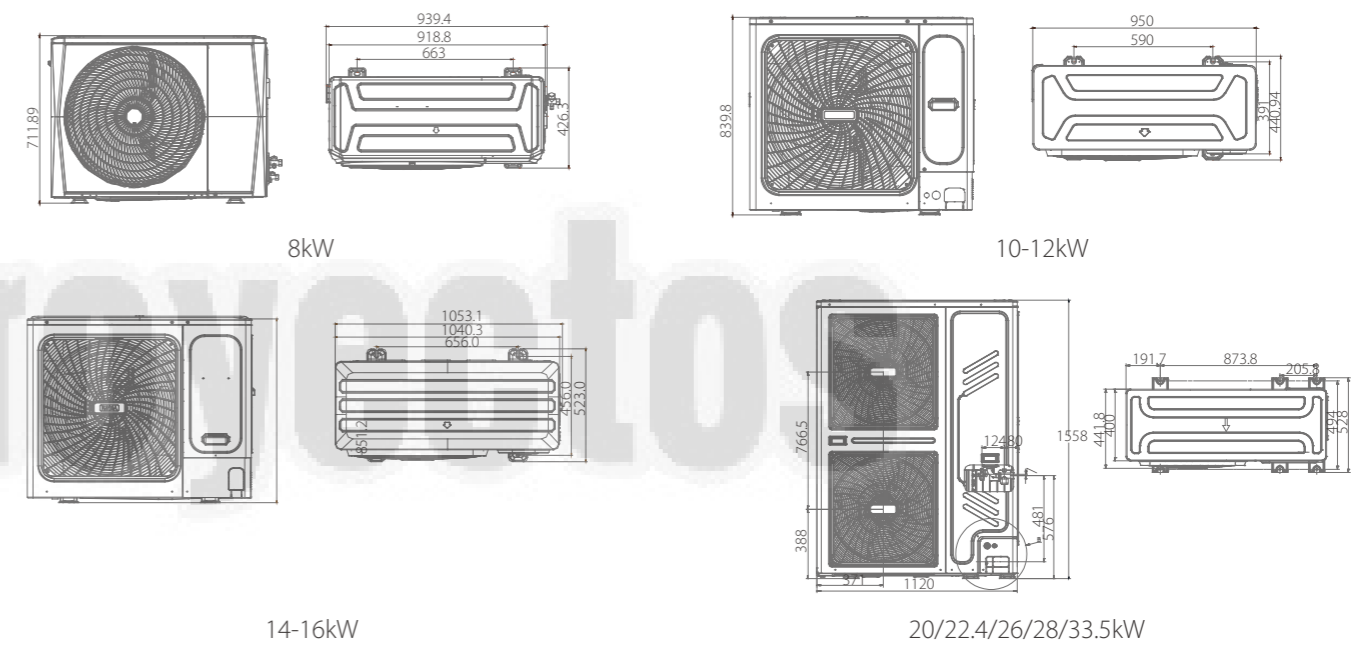
12/14/15.5/17.5kW



20/22.4/26/28/33.5kW



Super XS-Heat Pump



40/45kW

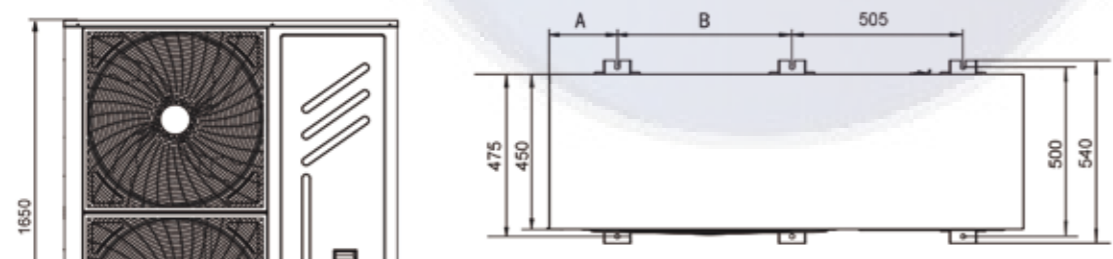


Table 4-1

Model	Size	A	B	C
40kW		175	505	1360
45kW		225	555	1460

Super XS-Cooling Only

