



Turn to the experts



Outdoor



TOP DISCHARGE

Handles heating and cooling with incredible efficiency and ensures continuous comfort indoors

Outdoor



XCT7 Unit Special Features



One Button Trial Operation

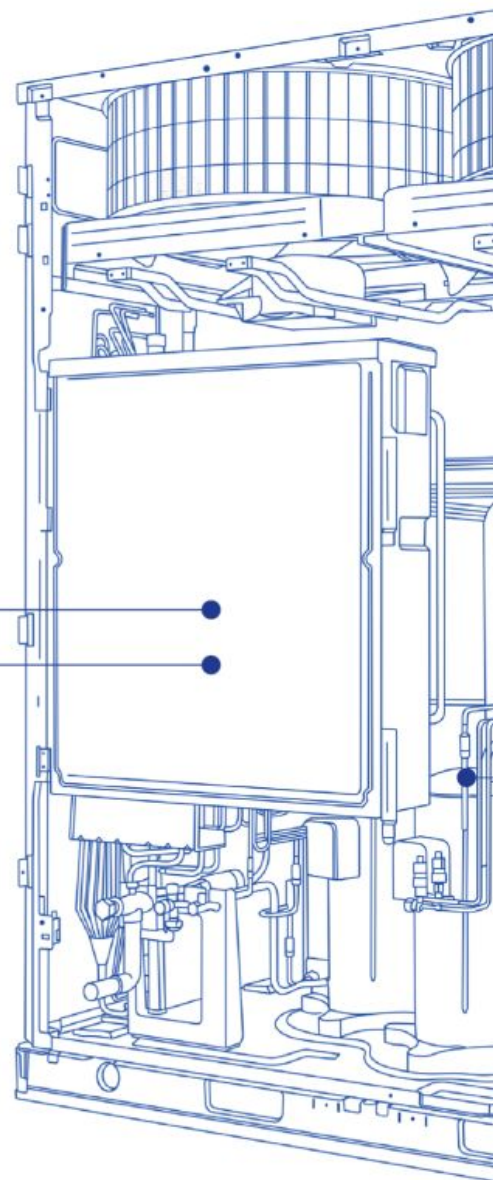
You only need to press the outdoor PCB button once to initiate the trial operation mode instead of starting indoor units one by one.

Save up to 10% of trial operation time with this unique function for both cooling/heating modes.



Less Brazing Refrigerant Accessories

The refrigerant piping accessories are pre-fitted with multiple diameters for you to simply cut depending on your needs.





High Efficiency Outdoor Fan & Dc Inverter Stepless Fan Motor

The fan adopts an aerodynamic design for low noise and high efficiency.

The outdoor fan motor adopts unique stepless inverter regulation technology, which coordinates with the stepless inverter compressor.



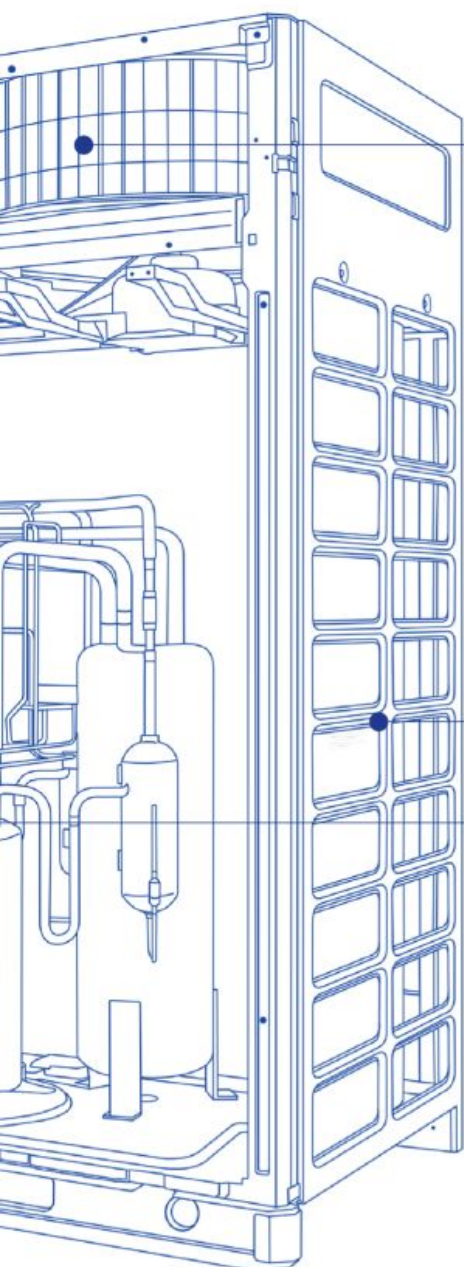
Advanced black-coated fin Technology

The unique advanced black-coated fin technology on the outdoor condenser enhances corrosion resistance and provides stronger protection from air pollution and salt contamination to achieve maximum system reliability.



Advanced Separator

Our advanced separator enhances heat exchanger performance, improves refrigerant distribution balance, and increases overall system efficiency.



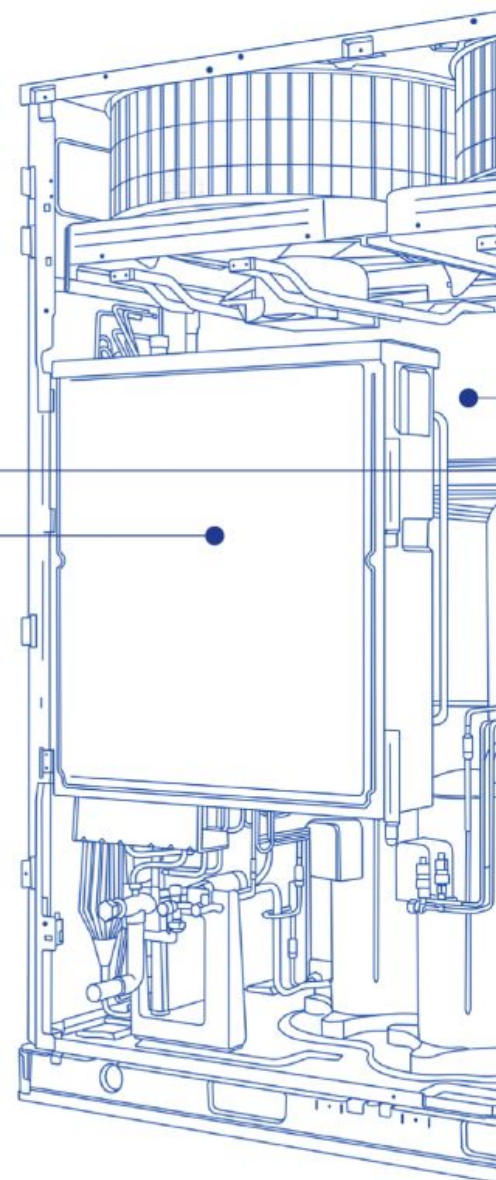
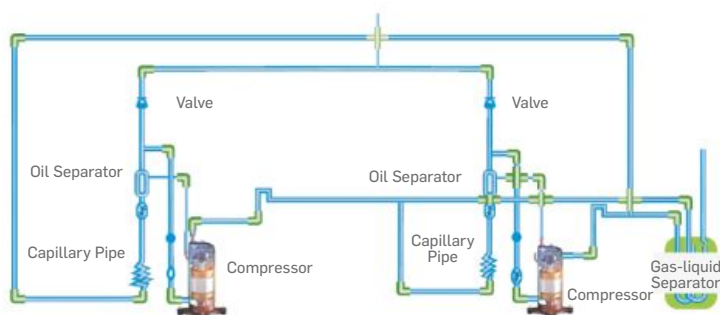


XCT7 Unit Special Features



Reliable Multi-layer Oil Return Technology

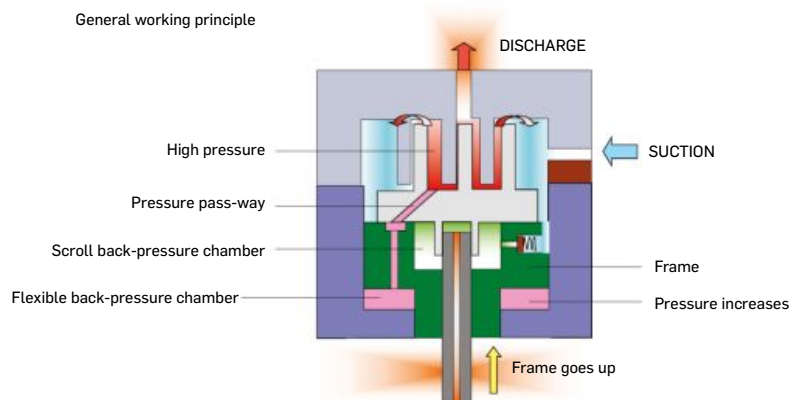
Our 10-stage oil return technology, as compared to the industry average of 5, ensures smooth lubricant oil supply to protect the compressor and system.



Advanced Compressor Anti-liquid shock Technology

With a soft scroll design, the anti-liquid shock technology ensures an effective unloading when the compressor's internal pressure is too large. It also assures reliable and efficient operation of the compressor by reducing friction and leakage loss and halving the liquid shock failure rate.

General working principle





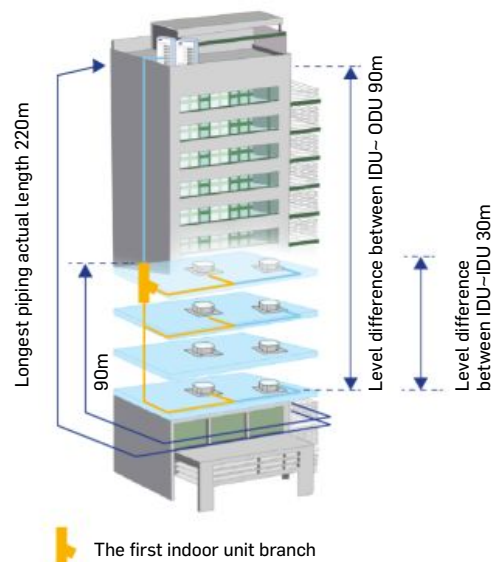
Easy Access

The design of the ODU is optimized to open to 120°, allowing complete access to internal system components.

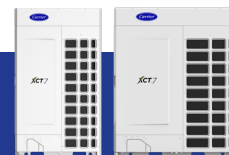


Flexible Long Piping Length

The piping can go up to 1000 m in length and a maximum of 110 m in height, thereby allowing you to easily serve in high rise buildings.



Specifications



Model			38VT008173HQEE	38VT010173HQEE	38VT012173HQEE	38VT014173HQEE	38VT016173HQEE
Capacity		HP	8	10	12	14	16
Capacity ⁽¹⁾	Cooling	kW	25,2	28,0	33,5	40,0	45,0
	Heating	kW	25,2	28,0	33,5	40,0	45,0
Cooling Efficiency ⁽¹⁾	EER	W/W	4,04	3,8	3,6	3,35	3,4
	SEER	/	7,25	7,09	6,69	6,6	6,36
	ηs	%	287	281	265	261	251
Heating Efficiency ⁽¹⁾	COP	W/W	4,4	4,3	4,22	4	4
	SCOP ⁽¹⁾	/	4,5	4,4	4,4	4,2	4
	ηs	%	177	173	173	165	157
Electrical Parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Rated power input (Cooling)	kW	6,24	7,37	9,31	11,94	13,24
	Rated power input (Heating)	kW	5,73	6,51	7,94	10,00	11,25
Dimensions (W/D/H)	External	mm	980/750/1690	980/750/1690	980/750/1690	980/750/1690	980/750/1690
	Shipping	mm	1070/850/1838	1070/850/1838	1070/850/1838	1070/850/1838	1070/850/1838
Weight	Net/Shipping	kg	224/250	224/250	224/250	244/270	244/270
Compressor	Type	/	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Motor power	W	6500	6500	6500	6500	7640
	Compressor quantity	/	1 INV	1 INV	1 INV	1 INV	1 INV
Fan	Air flow	m³/h	11000	11000	12000	13500	13500
Pressure Sound Level ⁽¹⁾	Cooling	dB(A)	56	56	59	59	60
	Heating	dB(A)	56	56	59	59	60
Power Sound Level ⁽¹⁾	Cooling	dB(A)	81	82	88	88	88
	Heating	dB(A)	81	82	88	88	88
Refrigerant	Type	/	R410A	R410A	R410A	R410A	R410A
	Charge	kg	8,5	8,5	8,5	10	10
Piping	Refrigerant liquid pipe (Ø)	mm	9,52	9,52	12,7	12,7	12,7
	Refrigerant gas pipe (Ø)	mm	19,05	22,22	25,4	25,4	28,58
	Total pipe length	m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (ODU Below/Above)	m	110/90	110/90	110/90	110/90	110/90
	Max drop between I.U.&I.U	m	30	30	30	30	30
Connectivity Ratio ⁽²⁾	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units	/	13	16	20	24	27
Operating Range	Cooling	°C	-5~50	-5~50	-5~50	-5~50	-5~50
	Heating	°C	-23~21	-23~21	-23~21	-23~21	-23~21



(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor temp is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; In heating, Indoor temp is 20°C DB, Outdoor temp is 7°C DB/6°C WB)
 CARRIER SCS participates in the ECP program for Comfort Air Conditioner (AC).
 Check ongoing validity of certificate www.eurovent-certification.com
 (2) The indoor and outdoor capacity ratio should be limited within 100% when all the indoor units are in operation to ensure the system cooling/heating performance.

Top Discharge Heat Pump 8-26 HP

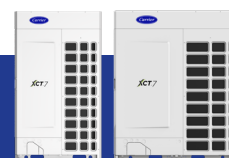


Model			38VT018173HQEE	38VT020173HQEE	38VT022173HQEE	38VT024173HQEE	38VT026173HQEE
Capacity		HP	18	20	22	24	26
Capacity ⁽¹⁾	Cooling	kW	50,4	56,0	61,5	68,0	73,5
	Heating	kW	50,4	56,0	61,5	68,0	73,5
Cooling Efficiency ⁽¹⁾	EER	W/W	3,21	3,37	3,36	3,1	2,97
	SEER	/	6,78	6,75	6,54	5,97	5,68
	ηs	%	268	267	259	236	224
Heating Efficiency ⁽¹⁾	COP	W/W	3,82	3,82	3,7	3,5	3,3
	SCOP ⁽¹⁾	/	4,23	4,29	4,3	4,25	3,8
	ηs	%	166,2	168,6	169	167	149
Electrical Parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Rated power input (Cooling)	kW	15,70	16,62	18,30	21,94	24,75
	Rated power input (Heating)	kW	13,19	14,66	16,62	19,43	22,27
Dimensions (W/D/H)	External	mm	1410/750/1690	1410/750/1690	1410/750/1690	1410/750/1690	1410/750/1690
	Shipping	mm	1515/850/1838	1515/850/1838	1515/850/1838	1515/850/1838	1515/850/1838
Weight	Net/Shipping	kg	287/317	370/400	370/400	370/400	370/400
Compressor	Type	/	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Motor power	W	8500	5250*2	6500*2	6500*2	7640*2
	Compressor quantity	/	1 INV	2 INV	2 INV	2 INV	2 INV
Fan	Air flow	m³/h	17000	17000	18000	18000	19000
Pressure Sound Level ⁽¹⁾	Cooling	dB(A)	61	61	61	62	62
	Heating	dB(A)	61	61	61	62	62
Power Sound Level ⁽¹⁾	Cooling	dB(A)	88	88	90	90	90
	Heating	dB(A)	88	88	90	90	90
Refrigerant	Type	/	R410A	R410A	R410A	R410A	R410A
	Charge	kg	10	10	10	10	10
Piping	Refrigerant liquid pipe (Ø)	mm	15,88	15,88	15,88	15,88	15,88
	Refrigerant gas pipe (Ø)	mm	28,58	28,58	28,58	28,58	28,58
	Total pipe length	m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (ODU Below/Above)	m	110/90	110/90	110/90	110/90	110/90
	Max drop between I.U.&I.U	m	30	30	30	30	30
Connectivity Ratio ⁽²⁾	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units	/	30	33	36	40	43
Operating Range	Cooling	°C	-5~50	-5~50	-5~50	-5~50	-5~50
	Heating	°C	-23~21	-23~21	-23~21	-23~21	-23~21



(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor temp is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; In heating, Indoor temp is 20°C DB, Outdoor temp is 7°C DB/6°C WB)
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 Check ongoing validity of certificate www.eurovent-certification.com
 (2) The indoor and outdoor capacity ratio should be limited within 100% when all the indoor units are in operation to ensure the system cooling/heating performance.

Specifications



Model			2 Modules						
Model Code			38VT028S73HQEE	38VT030S73HQEE	38VT032S73HQEE	38VT034S73HQEE	38VT036S73HQEE	38VT038S73HQEE	38VT040S73HQEE
Capacity	HP		28	30	32	34	36	38	40
Combination			14+14	14+16	16+16	16+18	18+18	18+20	20+20
Combination Model Codes			38VT014173HQEE	38VT014173HQEE	38VT016173HQEE	38VT016173HQEE	38VT018173HQEE	38VT018173HQEE	38VT020173HQEE
			38VT014173HQEE	38VT016173HQEE	38VT016173HQEE	38VT018173HQEE	38VT018173HQEE	38VT020173HQEE	38VT020173HQEE
			/	/	/	/	/	/	/
			/	/	/	/	/	/	/
Capacity	Cooling	kW	80,0	85,0	90,0	95,4	100,8	106,4	112,0
	Heating	kW	80,0	85,0	90,0	95,4	100,8	106,4	112,0
Cooling Efficiency	EER	W/W	3,35	3,38	3,40	3,30	3,21	3,29	3,37
	SEER		6,60	6,47	6,36	6,57	6,78	6,76	6,75
Heating Efficiency	COP	W/W	4,00	4,00	4,00	3,90	3,82	3,82	3,82
	SCOP	/	4,17	4,08	4,01	4,13	4,23	4,26	4,29
Maximum Number of Indoor Units			/	47	50	53	56	59	63

Model			3 Modules						
Model Code			38VT054S73HQEE	38VT056S73HQEE	38VT058S73HQEE	38VT060S73HQEE	38VT062S73HQEE	38VT064S73HQEE	38VT066S73HQEE
Capacity	HP		54	56	58	60	62	64	66
Combination			18+18+18	18+18+20	18+20+20	20+20+20	22+20+20	22+22+20	22+22+22
Combination Model Codes			38VT018173HQEE	38VT018173HQEE	38VT018173HQEE	38VT020173HQEE	38VT022173HQEE	38VT022173HQEE	38VT022173HQEE
			38VT018173HQEE	38VT018173HQEE	38VT020173HQEE	38VT020173HQEE	38VT020173HQEE	38VT022173HQEE	38VT022173HQEE
			38VT018173HQEE	38VT020173HQEE	38VT020173HQEE	38VT020173HQEE	38VT020173HQEE	38VT020173HQEE	38VT022173HQEE
			/	/	/	/	/	/	/
Capacity	Cooling	kW	151,2	156,8	162,4	168,0	173,5	179,0	184,5
	Heating	kW	151,2	156,8	162,4	168,0	173,5	179,0	184,5
Cooling Efficiency	EER	W/W	3,21	3,27	3,32	3,37	3,37	3,36	3,36
	SEER		6,78	6,76	6,75	6,75	6,67	6,60	6,54
Heating Efficiency	COP	W/W	3,82	3,82	3,82	3,82	3,78	3,74	3,70
	SCOP	/	4,23	4,25	4,27	4,29	4,29	4,29	4,30
Maximum Number of Indoor Units			/	64	64	64	64	64	64

Model			4 Modules						
Model Code			38VT080S73HQEE	38VT082S73HQEE	38VT084S73HQEE	38VT086S73HQEE	38VT088S73HQEE	38VT090S73HQEE	38VT092S73HQEE
Capacity	HP		80	82	84	86	88	90	92
Combination			20+20+20+20	20+20+20+22	20+20+22+22	20+22+22+22	22+22+22+22	24+22+22+22	24+24+22+22
Combination Model Codes			38VT020173HQEE	38VT020173HQEE	38VT020173HQEE	38VT020173HQEE	38VT022173HQEE	38VT024173HQEE	38VT024173HQEE
			38VT020173HQEE	38VT020173HQEE	38VT020173HQEE	38VT022173HQEE	38VT022173HQEE	38VT022173HQEE	38VT024173HQEE
			38VT020173HQEE	38VT020173HQEE	38VT022173HQEE	38VT022173HQEE	38VT022173HQEE	38VT022173HQEE	38VT022173HQEE
			38VT020173HQEE	38VT022173HQEE	38VT022173HQEE	38VT022173HQEE	38VT022173HQEE	38VT022173HQEE	38VT022173HQEE
Capacity	Cooling	kW	224,0	229,5	235,0	240,5	246,0	252,5	259,0
	Heating	kW	224,0	229,5	235,0	240,5	246,0	252,5	259,0
Cooling Efficiency	EER	W/W	3,37	3,37	3,36	3,36	3,36	3,29	3,22
	SEER		6,75	6,69	6,64	6,59	6,54	6,37	6,22
Heating Efficiency	COP	W/W	3,82	3,79	3,76	3,73	3,70	3,64	3,59
	SCOP	/	4,29	4,29	4,29	4,29	4,30	4,29	4,27
Maximum Number of Indoor Units			/	64	64	64	64	64	64

Top Discharge Heat Pump 28-104 HP



Model			2 Modules					
Model Code			38VT042S73HQEE	38VT044S73HQEE	38VT046S73HQEE	38VT048S73HQEE	38VT050S73HQEE	38VT052S73HQEE
Capacity	HP		42	44	46	48	50	52
Combination			20+22	22+22	22+24	24+24	24+26	26+26
Combination Model Codes			38VT020173HQEE	38VT022173HQEE	38VT022173HQEE	38VT024173HQEE	38VT024173HQEE	38VT026173HQEE
			38VT022173HQEE	38VT022173HQEE	38VT024173HQEE	38VT024173HQEE	38VT026173HQEE	38VT026173HQEE
			/	/	/	/	/	/
			/	/	/	/	/	/
Capacity	Cooling	kW	117,5	123,0	129,5	136,0	141,5	147,0
	Heating	kW	117,5	123,0	129,5	136,0	141,5	147,0
Cooling Efficiency	EER	W/W	3,36	3,36	3,22	3,10	3,03	2,97
	SEER		6,64	6,54	6,22	5,97	5,81	5,68
Heating Efficiency	COP	W/W	3,76	3,70	3,59	3,50	3,39	3,30
	SCOP	/	4,29	4,30	4,27	4,25	4,00	3,80
Maximum Number of Indoor Units			/	64	64	64	64	64

Model			3 Modules					
Model Code			38VT068S73HQEE	38VT070S73HQEE	38VT072S73HQEE	38VT074S73HQEE	38VT076S73HQEE	38VT078S73HQEE
Capacity	HP		68	70	72	74	76	78
Combination			22+22+24	22+24+24	24+24+24	26+24+24	26+26+24	26+26+26
Combination Model Codes			38VT022173HQEE	38VT022173HQEE	38VT024173HQEE	38VT026173HQEE	38VT026173HQEE	38VT026173HQEE
			38VT022173HQEE	38VT024173HQEE	38VT024173HQEE	38VT024173HQEE	38VT026173HQEE	38VT026173HQEE
			38VT024173HQEE	38VT024173HQEE	38VT024173HQEE	38VT024173HQEE	38VT024173HQEE	38VT026173HQEE
			/	/	/	/	/	/
Capacity	Cooling	kW	191,0	197,5	204,0	209,5	215,0	220,5
	Heating	kW	191,0	197,5	204,0	209,5	215,0	220,5
Cooling Efficiency	EER	W/W	3,26	3,18	3,10	3,05	3,01	2,97
	SEER		6,32	6,13	5,97	5,86	5,76	5,68
Heating Efficiency	COP	W/W	3,63	3,56	3,50	3,43	3,36	3,30
	SCOP	/	4,28	4,27	4,25	4,08	3,93	3,80
Maximum Number of Indoor Units			/	64	64	64	64	64

Model			4 Modules					
Model Code			38VT094S73HQEE	38VT096S73HQEE	38VT098S73HQEE	38VT100S73HQEE	38VT102S73HQEE	38VT104S73HQEE
Capacity	HP		94	96	98	100	102	104
Combination			24+24+24+22	24+24+24+24	26+24+24+24	26+26+24+24	26+26+26+24	26+26+26+26
Combination Model Codes			38VT024173HQEE	38VT024173HQEE	38VT026173HQEE	38VT026173HQEE	38VT026173HQEE	38VT026173HQEE
			38VT024173HQEE	38VT024173HQEE	38VT024173HQEE	38VT026173HQEE	38VT026173HQEE	38VT026173HQEE
			38VT024173HQEE	38VT024173HQEE	38VT024173HQEE	38VT024173HQEE	38VT026173HQEE	38VT026173HQEE
			38VT022173HQEE	38VT024173HQEE	38VT024173HQEE	38VT024173HQEE	38VT024173HQEE	38VT026173HQEE
Capacity	Cooling	kW	265,5	272,0	277,5	283,0	288,5	294,0
	Heating	kW	265,5	272,0	277,5	283,0	288,5	294,0
Cooling Efficiency	EER	W/W	3,16	3,10	3,06	3,03	3,00	2,97
	SEER		6,09	5,97	5,89	5,81	5,74	5,68
Heating Efficiency	COP	W/W	3,54	3,50	3,44	3,39	3,35	3,30
	SCOP	/	4,26	4,25	4,12	4,00	3,90	3,80
Maximum Number of Indoor Units			/	64	64	64	64	64



Turn to the experts



TOP DISCHARGE HEAT RECOVERY

Outdoor



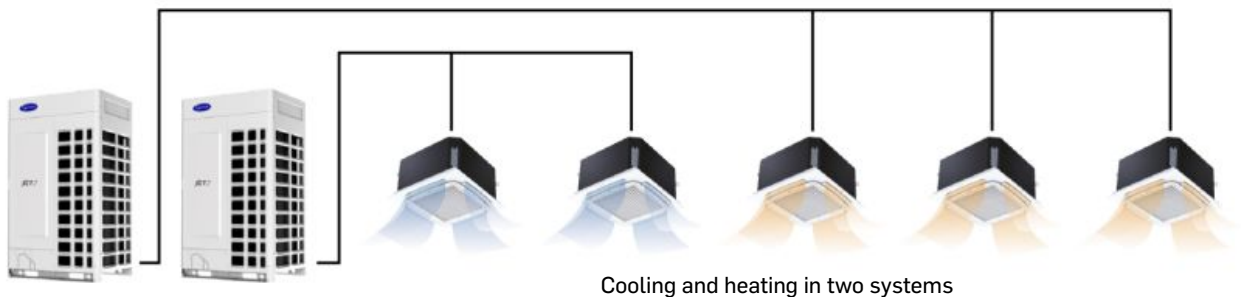
System Introduction



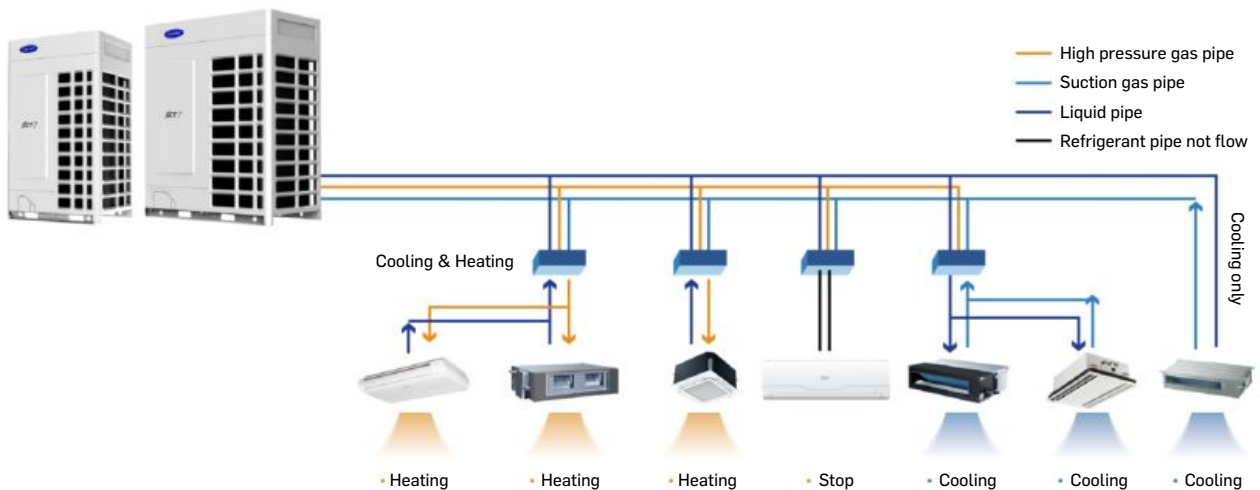
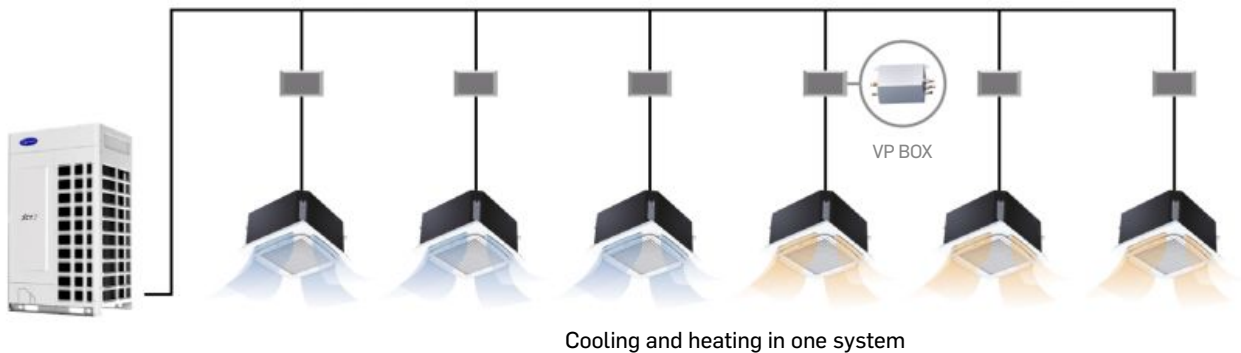
What are Heat Recovery VRF Units?

For the heat pump series, the units within one system can only work in the same mode. Now Carrier heat recovery series, due to heat recovery pipeline design of outdoor unit and the new valve box, can achieve cooling and heating simultaneously in one system. In addition, multiple indoor unit types are provided to meet various project demands.

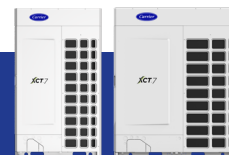
2-pipe system : Top Discharge Heat Pump



3-pipe system : Top Discharge Heat Recovery



Specifications



Model			38VT008173RQEE	38VT010173RQEE	38VT012173RQEE	38VT014173RQEE
Capacity		HP	8	10	12	14
Capacity ⁽¹⁾	Cooling	kW	22,4	28,0	33,5	40,0
	Heating	kW	22,4	28,0	33,5	40,0
Cooling Efficiency ⁽¹⁾	EER	W/W	3,98	3,65	3,50	3,25
	SEER	/	7,05	6,68	6,58	6,37
	ηs	%	279	264	260	252
Heating Efficiency ⁽¹⁾	COP	W/W	4,35	4,20	4,00	3,80
	SCOP ⁽¹⁾	/	4,02	3,94	4,08	3,86
	ηs	%	158	155	160	151
Electrical Parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Rated power input (Cooling)	kW	5,63	7,67	9,57	12,31
	Rated power input (Heating)	kW	5,15	6,67	8,38	10,53
Dimensions (W/D/H)	External	mm	980/750/1690	980/750/1690	980/750/1690	980/750/1690
	Shipping	mm	1070/850/1838	1070/850/1838	1070/850/1838	1070/850/1838
Weight	Net/Shipping	kg	246/271	246/271	257/282	257/282
Compressor	Type	/	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Motor power	W	6500	6500	7640	7640
	Compressor quantity	/	1 INV	1 INV	1 INV	1 INV
Fan	Air flow	m³/h	12000	12000	13500	13500
Pressure Sound Level ⁽¹⁾	Cooling	dB(A)	57	58	60	61
	Heating	dB(A)	57	58	60	61
Power Sound Level ⁽¹⁾	Cooling	dB(A)	81	82	88	88
	Heating	dB(A)	81	82	88	88
Refrigerant	Type	/	R410A	R410A	R410A	R410A
	Charge	kg	10	10	10	10
Piping	Refrigerant liquid pipe (Ø)	mm	9,52	9,52	12,7	12,7
	Refrigerant gas pipe (Ø)	mm	19,05	22,22	25,4	25,4
	Refrigerant high gas pipe (Ø)	mm	19,05	19,05	22,22	22,22
	Total pipe length	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (ODU Below/Above)	m	110/90	110/90	110/90	110/90
	Max drop between I.U.&I.U	m	30	30	30	30
Connectivity Ratio ⁽²⁾	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130
	Maximum number of indoor units	/	13	16	20	24
Operating Range	Cooling	°C	-5~50	-5~50	-5~50	-5~50
	Heating	°C	-23~21	-23~21	-23~21	-23~21



(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor temp is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; In heating, Indoor temp is 20°C DB, Outdoor temp is 7°C DB/6°C WB)

CARRIER SCS participates in the ECP program for Comfort Air Conditioner (AC).

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(2) The indoor and outdoor capacity ratio should be limited within 100% when all the indoor units are in operation to ensure the system cooling/heating performance.

Top Discharge Heat Recovery 8-22 HP



COOLING



HEATING

Model			38VT016173RQEE	38VT018173RQEE	38VT020173RQEE	38VT022173RQEE
Capacity		HP	16	18	20	22
Capacity ⁽¹⁾	Cooling	kW	45,0	50,0	56,0	60,0
	Heating	kW	45,0	50,0	56,0	60,0
Cooling Efficiency ⁽¹⁾	EER	W/W	3,20	3,10	3,25	3,00
	SEER	/	6,86	6,48	5,90	5,74
	ηs	%	271	256	233	227
Heating Efficiency ⁽¹⁾	COP	W/W	3,95	3,65	3,55	3,35
	SCOP ⁽¹⁾	/	4,21	3,99	3,93	3,76
	ηs	%	165	157	154	147
Electrical Parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Rated power input (Cooling)	kW	14,06	16,13	17,23	20,00
	Rated power input (Heating)	kW	11,39	13,70	15,78	17,91
Dimensions (W/D/H)	External	mm	1410/750/1690	1410/750/1690	1410/750/1690	1410/750/1690
	Shipping	mm	1485/850/1838	1485/850/1838	1485/850/1838	1485/850/1838
Weight	Net/Shipping	kg	366/395	366/395	375/404	375/404
Compressor	Type	/	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Motor power	W	5250 *2	5250 *2	7640 *2	7640 *2
	Compressor quantity	/	2 INV	2 INV	2 INV	2 INV
Fan	Air flow	m³/h	17000	17000	19000	19000
Pressure Sound Level ⁽¹⁾	Cooling	dB(A)	62	63	63	64
	Heating	dB(A)	62	63	63	64
Power Sound Level ⁽¹⁾	Cooling	dB(A)	88	88	88	90
	Heating	dB(A)	88	88	88	90
Refrigerant	Type	/	R410A	R410A	R410A	R410A
	Charge	kg	10	10	10	10
Piping	Refrigerant liquid pipe (Ø)	mm	12,7	15,88	15,88	15,88
	Refrigerant gas pipe (Ø)	mm	28,58	28,58	28,58	28,58
	Refrigerant high gas pipe (Ø)	mm	25,4	25,4	25,4	25,4
	Total pipe length	m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U (ODU Below/Above)	m	110/90	110/90	110/90	110/90
	Max drop between I.U.&I.U	m	30	30	30	30
Connectivity Ratio ⁽²⁾	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130
	Maximum number of indoor units	/	27	30	33	36
Operating Range	Cooling	°C	-5~50	-5~50	-5~50	-5~50
	Heating	°C	-23~21	-23~21	-23~21	-23~21



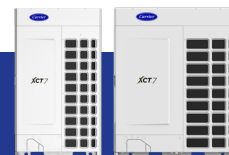
(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor temp is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; In heating, Indoor temp is 20°C DB, Outdoor temp is 7°C DB/6°C WB)

CARRIER SCS participates in the ECP program for Comfort Air Conditioner (AC).

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(2) The indoor and outdoor capacity ratio should be limited within 100% when all the indoor units are in operation to ensure the system cooling/heating performance.

Specifications



Model			2 Modules					
Model Code			38VT024S73RQEE	38VT026S73RQEE	38VT028S73RQEE	38VT030S73RQEE	38VT032S73RQEE	38VT034S73RQEE
Capacity	HP		24	26	28	30	32	34
Combination			12+12	12+14	14+14	14+16	16+16	16+18
Combination Model Codes			38VT012173RQEE	38VT012173RQEE	38VT014173RQEE	38VT014173RQEE	38VT016173RQEE	38VT016173RQEE
			38VT012173RQEE	38VT014173RQEE	38VT014173RQEE	38VT016173RQEE	38VT016173RQEE	38VT018173RQEE
Capacity	Cooling	kW	67,0	73,5	80,0	85,0	90,0	95,0
	Heating	kW	67,0	73,5	80,0	85,0	90,0	95,0
Cooling Efficiency	EER	W/W	3,50	3,36	3,25	3,22	3,20	3,15
	SEER		6,58	6,46	6,37	6,61	6,86	6,64
Heating Efficiency	COP	W/W	4,00	3,89	3,80	3,88	3,95	3,79
	SCOP	/	4,08	3,94	3,86	4,02	4,21	4,08
Maximum Number of Indoor Units			/	40	43	47	50	53

Model			3 Modules					
Model Code			38VT046S73RQEE	38VT048S73RQEE	38VT050S73RQEE	38VT052S73RQEE	38VT054S73RQEE	38VT056S73RQEE
Capacity	HP		46	48	50	52	54	56
Combination			14+16+16	16+16+16	16+16+18	16+18+18	18+18+18	18+18+20
Combination Model Codes			38VT014173RQEE	38VT016173RQEE	38VT016173RQEE	38VT016173RQEE	38VT018173RQEE	38VT018173RQEE
			38VT016173RQEE	38VT016173RQEE	38VT016173RQEE	38VT018173RQEE	38VT018173RQEE	38VT018173RQEE
			38VT016173RQEE	38VT016173RQEE	38VT018173RQEE	38VT018173RQEE	38VT018173RQEE	38VT020173RQEE
Capacity	Cooling	kW	130,0	135,0	140,0	145,0	150,0	156,0
	Heating	kW	130,0	135,0	140,0	145,0	150,0	156,0
Cooling Efficiency	EER	W/W	3,22	3,20	3,16	3,13	3,10	3,15
	SEER		6,70	6,86	6,70	6,58	6,48	6,25
Heating Efficiency	COP	W/W	3,90	3,95	3,84	3,74	3,65	3,61
	SCOP	/	4,08	4,21	4,12	4,05	3,99	3,97
Maximum Number of Indoor Units			/	64	64	64	64	64

Model			4 Modules					
Model Code			38VT068S73RQEE	38VT070S73RQEE	38VT072S73RQEE	38VT074S73RQEE	38VT076S73RQEE	38VT078S73RQEE
Capacity	HP		68	70	72	74	76	78
Combination			16+16+18+18	16+18+18+18	18+18+18+18	18+18+18+20	18+18+20+20	18+20+20+20
Combination Model Codes			38VT016173RQEE	38VT016173RQEE	38VT018173RQEE	38VT018173RQEE	38VT018173RQEE	38VT018173RQEE
			38VT016173RQEE	38VT018173RQEE	38VT018173RQEE	38VT018173RQEE	38VT018173RQEE	38VT020173RQEE
			38VT018173RQEE	38VT018173RQEE	38VT018173RQEE	38VT018173RQEE	38VT020173RQEE	38VT020173RQEE
			38VT018173RQEE	38VT018173RQEE	38VT018173RQEE	38VT020173RQEE	38VT020173RQEE	38VT020173RQEE
Capacity	Cooling	kW	190,0	195,0	200,0	206,0	212,0	218,0
	Heating	kW	190,0	195,0	200,0	206,0	212,0	218,0
Cooling Efficiency	EER	W/W	3,15	3,12	3,10	3,14	3,18	3,21
	SEER		6,64	6,55	6,48	6,30	6,15	6,02
Heating Efficiency	COP	W/W	3,79	3,72	3,65	3,62	3,60	3,57
	SCOP	/	4,08	4,04	3,99	3,98	3,96	3,94
Maximum Number of Indoor Units			/	64	64	64	64	64

Top Discharge Heat Recovery 24-88 HP



Model			2 Modules				
Model Code			38VT036S73RQEE	38VT038S73RQEE	38VT040S73RQEE	38VT042S73RQEE	38VT044S73RQEE
Capacity	HP		36	38	40	42	44
Combination			18+18	18+20	20+20	20+22	22+22
Combination Model Codes			38VT018173RQEE	38VT018173RQEE	38VT020173RQEE	38VT020173RQEE	38VT022173RQEE
			38VT018173RQEE	38VT020173RQEE	38VT020173RQEE	38VT022173RQEE	38VT022173RQEE
Capacity	Cooling	kW	100,0	106,0	112,0	116,0	120,0
	Heating	kW	100,0	106,0	112,0	116,0	120,0
Cooling Efficiency	EER	W/W	3,10	3,18	3,25	3,12	3,00
	SEER		6,48	6,15	5,90	5,81	5,74
Heating Efficiency	COP	W/W	3,65	3,60	3,55	3,44	3,35
	SCOP	/	3,99	3,96	3,93	3,83	3,76
Maximum Number of Indoor Units			/	59	63	64	64

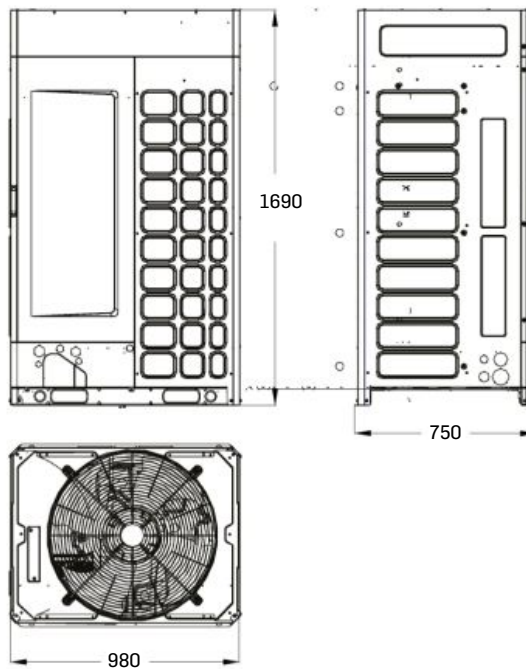
Model			3 Modules				
Model Code			38VT058S73RQEE	38VT060S73RQEE	38VT062S73RQEE	38VT064S73RQEE	38VT066S73RQEE
Capacity	HP		58	60	62	64	66
Combination			18+20+20	20+20+20	20+20+22	20+22+22	22+22+22
Combination Model Codes			38VT018173RQEE	38VT020173RQEE	38VT020173RQEE	38VT020173RQEE	38VT022173RQEE
			38VT020173RQEE	38VT020173RQEE	38VT020173RQEE	38VT022173RQEE	38VT022173RQEE
			38VT020173RQEE	38VT020173RQEE	38VT022173RQEE	38VT022173RQEE	38VT022173RQEE
Capacity	Cooling	kW	162,0	168,0	172,0	176,0	180,0
	Heating	kW	162,0	168,0	172,0	176,0	180,0
Cooling Efficiency	EER	W/W	3,20	3,25	3,16	3,08	3,00
	SEER		6,06	5,90	5,84	5,79	5,74
Heating Efficiency	COP	W/W	3,58	3,55	3,48	3,41	3,35
	SCOP	/	3,95	3,93	3,86	3,81	3,76
Maximum Number of Indoor Units			/	64	64	64	64

Model			4 Modules				
Model Code			38VT080S73RQEE	38VT082S73RQEE	38VT084S73RQEE	38VT086S73RQEE	38VT088S73RQEE
Capacity	HP		80	82	84	86	88
Combination			20+20+20+20	20+20+20+22	20+20+22+22	20+22+22+22	22+22+22+22
Combination Model Codes			38VT020173RQEE	38VT020173RQEE	38VT020173RQEE	38VT020173RQEE	38VT022173RQEE
			38VT020173RQEE	38VT020173RQEE	38VT020173RQEE	38VT022173RQEE	38VT022173RQEE
			38VT020173RQEE	38VT020173RQEE	38VT022173RQEE	38VT022173RQEE	38VT022173RQEE
			38VT020173RQEE	38VT022173RQEE	38VT022173RQEE	38VT022173RQEE	38VT022173RQEE
Capacity	Cooling	kW	224,0	228,0	232,0	236,0	240,0
	Heating	kW	224,0	228,0	232,0	236,0	240,0
Cooling Efficiency	EER	W/W	3,25	3,18	3,12	3,06	3,00
	SEER		5,90	5,86	5,81	5,77	5,74
Heating Efficiency	COP	W/W	3,55	3,50	3,44	3,40	3,35
	SCOP	/	3,93	3,88	3,83	3,79	3,76
Maximum Number of Indoor Units			/	64	64	64	64

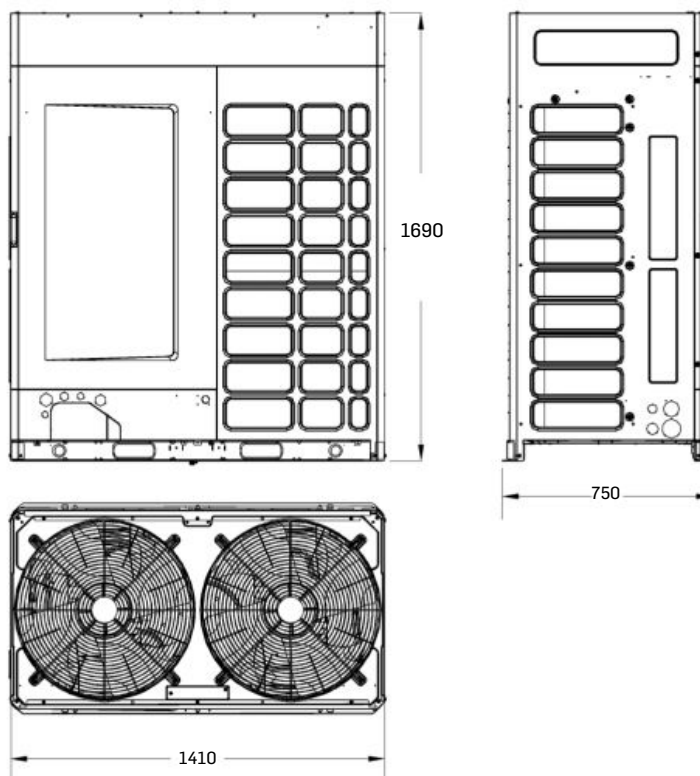


Dimensions (for all Top Discharge units)

Single Fan Heat Pump (8-16HP)
Single Fan Heat Recovery (8-14HP)



Dual Fan Heat Pump (18-26HP)
Dual Fan Heat Recovery (16-22HP)

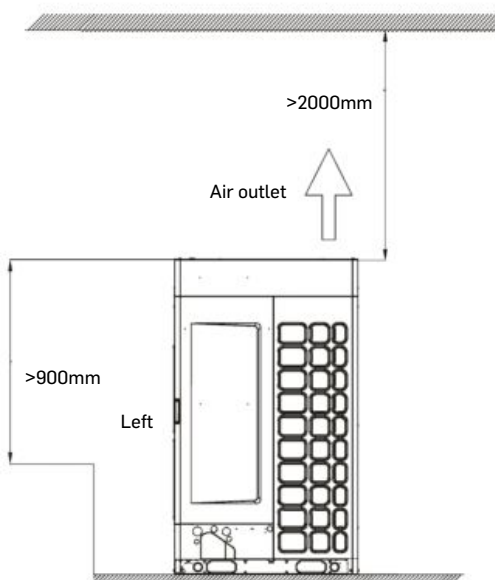




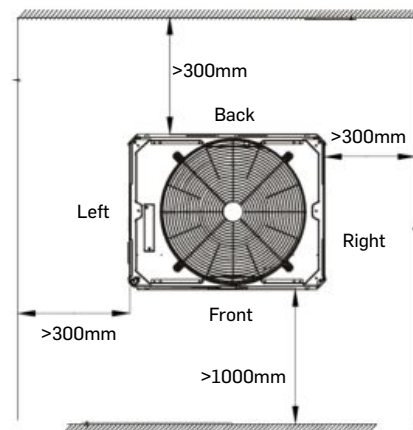
Combination Installation Dimensions

- There should be no obstacles within 2000 mm above the outdoor unit.
- Obstacles around the outdoor unit should be less than 900 mm to the bottom of unit.
- When multiple modules are installed, the outdoor unit should be ranked according to capacity,
- with the larger capacity closer to the main pipe.

Single Installation

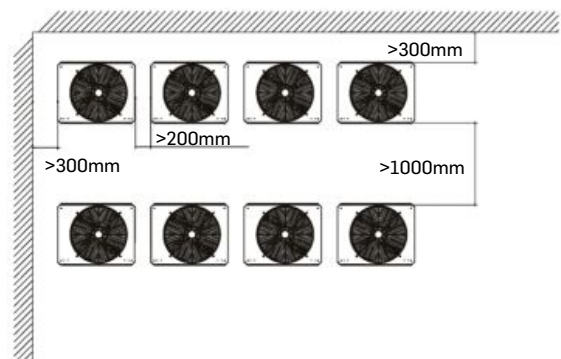
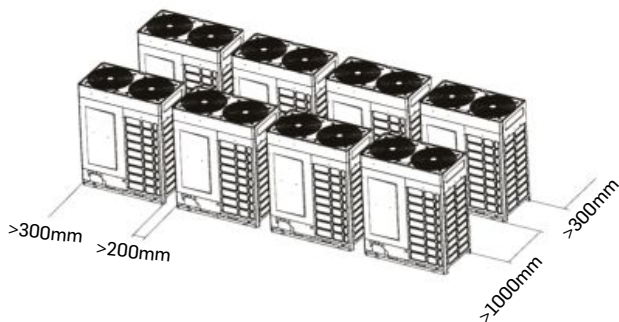


Single Fan Top Discharge



Combination Installation

Unit can be installed facing the same or opposite direction



Wall Higher Than The Outdoor Condensers

Place with air inlet hole

Notes:

- Fan speed V_s at air inlet is 1.5 m/s or below.
- Air outlet height $H_D = H - h$ and below 1 m.

