

2015 Products Guide



About Us

Established in 2005, Vicot Air Conditioning Co., Ltd is a high-tech corporation specialized in R&D, production, sales and service of renewable energy products.

The corporation has 1500 employees and 7 business divisions and 4 centers in China as following: Solar Thermal Energy Equipment Division, Vacuum Tube Division, Gas-fired Air Conditioning Division, Electrical Air Conditioning Division, Enterprise Management Center, Human Resource Center, Financial Center, Engineering Division, Domestic Sales Center, Export&Import Division, Administration Division.

The headquarters is located in Dezhou, the Solar City of China, covering an area of 150,000m² with modern workshops and office buildings of more than 80,000m². Manufacturing facilities and capability are as followings: 14 production lines for commercial & industrial electrical air conditioners; 7 production lines for gas-fired absorption chiller and heat pumps; More than 20 solar collector production lines and equipment; 6 vacuum tube production lines.

Not only state of the art technologies of renewable energies, but also global advanced ERP technique has been introduced into the corporation. Coupled with UPDI\WMS bar code storage system and ABC cost control system, the corporation realizes intensive integration of information, logistics and cash flow.

With the mission of "Same Breath, Saving Energy Together", Vicot realizes energy-saving and environmental protection by focusing on effective utilization of solar energy, air source energy, geothermal energy and other renewable energy in cooling and heating fields. In response to such appeal for clean energy and green earth, VICOT gas-fired absorption chiller and heat pumps was born after long-term joint effort from VICOT and Rocky research in US.





Air cooled water series

Mini type



1

Modular type



2

Screw type



4

Multi -function type



7

Air source
and
tem



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AHU-VAQ series

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Concealed fan coil

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European style fan coil

Terminal series

Water cooled heat pump series

Source water heater
and low ambient
temperature type



Sprayer enhanced
condenser type



Mini type



Modular type



Conventional screw
type



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12

13

15

19

30

28

25

24



Rooftop packaged unit



Ducted split units



Conventional screw
type



Modular type

DX series

Water cooled water chiller series

Mini Air Cooled Water Chiller/Heat Pump

V F S A / V F S N 20-45

VFSA: Cooling only packaged

VFSN: Heat pump packaged

Cooling capacity: 20-45kW

Heating capacity: 22-50kW



Cooling Only



Heat Pump



Air Cooled



Outdoor Inst



Scroll Compressor



Anti-freezing



R22



R407C



- ◆ Packaged design, including water pump & expansion water tank
- ◆ Fully automatic control
- ◆ Intelligent defrosting and anti-freezing
- ◆ Convenient operation

Optional accessories

- ◆ Electric heater ◆ Water flexible connector ◆ “Y” type filter ◆ Water pump ◆ Flow switch ◆ Scroll compressor
- ◆ Heat recovery ◆ Anti-corrosion ◆ Rubber isolator ◆ Electric expansion valve ◆ Remote control ◆ Flow switch

Specification

Model		VFS Series			
		VFSA020V VFSN020V	VFSA025V VFSN025V	VFSA030V VFSN030V	VFSA045V VFSN045V
Cooling Capacity	kW(R22)	20	25	30	45
Heating Capacity	kW(R22)	22	28	33	50
Cooling Capacity	kW(R407c)	19	24	29	43
Heating Capacity	kW(R407c)	21	27	31	48
Domestic Hot Water (Optional)	Heat Recovery	kW(R22)	6	7.5	9
		kW(R407c)	5.7	7.1	8.6
	Inlet Temp	°C	50		
	Outlet Temp	°C	55		
	Water Flow	m ³ /h	1.1	1.3	1.6
	Water Pipe Size	-	1 in	1 in	1 in
Compressor	Type	-	Hermetic Scroll Compressor		
	Power Input	kW	6.6	8.2	8.3
	Energy Steps	-	0-50-100%		
Fan	Type	-	Axial Type, Top Discharge		
	Power Input	kW	0.37*2	0.37*2	0.55*2
Water-Side Heat Exchanger	Type	-	Plate Type		
	Water Flow	m ³ /h	3.5	4.3	5.2
	Drop Water Side	kPa	28	30	32
Water Pump	Type	-	Cycle Pump		
	Power Input	kW	0.75	0.92	1.2
	Head	mH ₂ O	16	21	26
Refrigerant	Type	-	R22/R407c		
	Charge Amount	kg	5.8/5.8	6.8/6.8	7.6/7.6
	Expansion Device	-	Capillary		
Water pipe connection size			G 1-1/4		G 1-1/2
Power			3φ-380V-50Hz *		
Waterproof Class			IPX4		
Electric-Shock-Proof Class			I		
Total input	kW	8.09	9.86	10.6	14.8
Length	mm	1515	1515	1715	1715
Width	mm	915	915	1015	1015
Height	mm	1785	1785	1785	1785
Weight (net/operating)	Kg	450/470	480/500	530/550	580/600
Noise	dB(A)	67	67	68	69

Note: 1- Standard cooling work condition: Ambient Temp: DB 35°C, WB 24°C; cooling water inlet 12°C, outlet 7°C.

2- Standard heating work condition: Ambient Temp: DB 7°C, WB 6°C; heating water inlet 40°C, outlet 45°C.

3- The noise data is measured on the average of 1m far away from the unit.

4- Water site max. bearing pressure: 1.0 MPa.

* Various power supply are optional.

VMA / VMN65-130

VMA: Cooling Only

VMN: Heat Pump

Cooling capacity: 60-756kW

Heating capacity: 65-826kW

Modular Air Cooled Water Chiller/Heat Pump



- ◆ Modular design, huge application area, 100% failure free operation; Automatic energy adjustment, decrease idling energy consumption; increased operating efficiency, the operating cost is more than 15% lower than screw chiller.
- ◆ Multilevel parallel design, multilevel step-down start, low start current, more detailed cable configuration.
- ◆ Hermetical scroll compressor, the full load efficiency is 7% higher and the partial load is 15-20% higher than screw compressor.
- ◆ Microcomputer fuzzy defrosting design, through thousands of times of testing and adjustment, the defrosting parameter can reach the best defrosting effect.
- ◆ Heat recovery as an option, to achieve cooling, heating and domestic hot water function.

Air cooled
chillers series

Optional accessories

- ◆ Electric heater ◆ Water flexible connector ◆ "Y" type filter ◆ Water pump ◆ Flow switch ◆ Scroll compressor
- ◆ Heat recovery ◆ Anti-corrosion ◆ Rubber isolator ◆ Electric expansion valve ◆ Remote control ◆ Flow switch

Specification

Model			Modular Series							
			Economical type				Luxury type			
			VMA065V VMN065V		VMA130V VMN130V		VMA068M VMN068M		VMA108M VMN108M	
Refrigerant		-	R22	R407C	R22	R407C	R22	R407C	R22	R407C
Cooling Capacity		kW	65	62	130	124	68	65	108	103
Heating Capacity		kW	69	66	138	132	73	69	118	112
Domestic Hot Water (Optional)	Heat Recovery	kW	N/A		N/A		20.4	19.4	32.4	30.8
	Inlet temperature	°C					50	50	50	50
	Outlet temperature	°C					55	55	55	55
	Water Flow	m³/h					3.5	3.5	5.6	5.6
	Water Pipe Size	-					1 in	1 in	1 in	1 in
Compressor	Type	-	Hermetic scroll compressor							
	Power Input	kW	4.8*4	5.0*4	4.8*8	5.0*8	10.1*2	10.1*2	8.2*4	8.2*4
	Energy Steps		0-25-50-75-100%		0-12.5-25-37.5-50-62.5-75-87.5-100%		0-50-100%		0-25-50-75-100%	
Fan	Type		Axial Type, Top Discharge							
	Power Input	kW	0.6*2	0.6*2	0.6*4	0.6*4	0.55*2	0.55*2	1.3*2	1.3*2
	Air Flow	m³/h	24100	24100	48200	48200	28000	28000	40000	40000
Water-side Heat Exchanger	Type		Shell & Tube							
	Water Flow	m³/h	11	11	22	22	12	12	19	19
	Drop Water Side	kPa	40	40	40	40	42	42	43	43
	Water Pipe Size	-	DN50	DN50	DN50	DN50	DN50	DN50	DN50	DN50
Refrigerant Charge Amount		kg	4*3.5	4*3.5	8*3.5	8*3.5	14	16	21	26
Expansion Device		-	Capillary				Thermal Expansion Valve			
Power		-	380V/3Ph/50Hz [*]							
Total Power Input		kW	20.4	21.2	40.8	42.4	21.3	21.3	35.4	35.4
Dimension	Length	mm	2140	2140	2140	2140	2230	2230	2230	2230
	Width	mm	1010	1010	1905	1905	1290	1290	1570	1570
	Height	mm	1880	1880	1880	1880	2050	2050	2150	2150
Weight	Net	Kg	650	650	1250	1250	830	830	1380	1380
	Operating		720	720	1400	1400	880	880	1460	1460
Noise		dB(A)	68	68	68	68	71	71	73	73

Note: 1- Units above can realize 1-7 units' modular connection and can control energy-regulation automatically.

2- Standard cooling work condition: Ambient temperature DB 35°C, WB 24°C; Cooling water inlet 12°C, outlet 7°C.

3- Standard heating word condition: Ambient temperature DB 7°C, WB 6°C; Heating water inlet 40°C, outlet 45°C.

4- The noise data is measured on the average of 1m far away from the unit.

5- Water site max. bearing pressure: 1.0 MPa.

^{*} Various power supply are optional.

Modular Air Cooled Water Chiller/Heat Pump

VMA/VMN180-380

VMA: Cooling Only

VMN: Heat Pump

Cooling capacity: 180-2660kW

Heating capacity: 188-2450kW



Cooling Only



Heat Pump



Air Cooled



Outdoor Inst



Scroll Compressor



Anti-Freezing



R-22



R-407C



Air cooled chillers series

- ◆ Modular design, huge application area, 100% failure free operation; Automatic energy adjustment, decrease idling energy consumption; increased operating efficiency, the operating cost is more than 15% lower than screw chiller.
- ◆ Multilevel parallel design, multilevel step-down start, low start current, more detailed cable configuration.
- ◆ Hermetical scroll compressor, the full load efficiency is 7% higher and the partial load is 15-20% higher than screw compressor.
- ◆ Microcomputer fuzzy defrosting design, through thousands of times of testing and adjustment, the defrosting parameter can reach the best defrosting effect.
- ◆ Heat recovery as an option, to achieve cooling, heating and domestic hot water function.

Optional accessories

- ◆ Electric heater ◆ Water flexible connector ◆ "Y" type filter ◆ Water pump ◆ Flow switch ◆ Scroll compressor
- ◆ Heat recovery ◆ Anti-corrosion ◆ Rubber isolator ◆ Electric expansion valve ◆ Remote control ◆ Flow switch

Specification III - Modular Air Cooled Water Chiller

Model			Modular Series								
			VMA180M VMN180M		VMA250M VMN250M		VMA320M VMN320M		VMA380M		
Refrigerant		-	R22	R407C	R22	R407C	R22	R407C	R22	R407C	
Cooling Capacity		kW	180	171	250	238	320	304	380	361	
Heating Capacity		kW	198	188	275	261	350	333	-	-	
Total Power Input		kW	56.8	57.2	73	73.4	92.8	93.2	114.4	114.8	
Compressor	Type	-	Parallel Hermetic Scroll Compressor								
	Input Power x Qty	kW	12.4*4	12.5*4	(12.4+20.5)*2	(12.5+20.6)*2	20.5*4	20.6*4	25.0*4	25.1*4	
	Energy Steps	-	0-25-50-75-100%								
Fan	Type	-	Axial Type, Vertical Discharge								
	Input Power x Qty	kW	1.8*4		1.8*4		1.8*6		1.8*8		
	Air Flow	m³/h	92000		92000		138000		184000		
Water-Side Heat Exchange	Type	-	Shell & Tube		Shell & Tube		Shell & Tube		Shell & Tube		
	Water Flow	m³/h	31	29.4	43	41.7	55	52.2	66	62.7	
	Drop Water Side	kPa	40		40		40		40		
	Connection Pipe Size	-	DN80		DN80		DN100		DN100		
Refrigerant	Charge Amount	kg	60		80		110		125		
	Expansion Device	-	Thermal Expansion Valve								
Power		-	3Φ-380V-50Hz [*]								
Dimension	Length	mm	2290		3270		4020		4750		
	Width	mm	2190		2190		2190		2190		
	Height	mm	2480		2480		2480		2480		
Weight	Net	kg	2050		2400		2800		3500		
	Operating	kg	2250		2620		3050		3750		
Noise		dB(A)	73		73		75		77		

Note:1- Standard cooling work condition: Ambient Temp: DB 35°C, WB 24°C; cooling water inlet 12°C, outlet 7°C.

2- Standard heating work condition: Ambient Temp: DB 7°C, WB 6°C; heating water inlet 40°C, outlet 45°C.

3- The noise data is measured on the average of 1m far away from the unit.

4- Reserve the right to change the parameter without prior notice.

5- Water side max. bearing pressure: 1.0 MPa.

* Various power supply are optional.

VMA/VMN180-860

VMA: Cooling Only

VMN: Heat pump

Cooling capacity: 180-3440kW

Heating capacity: 198-3840kW



- ◆ Single unit can meet the requirement of large space. It can also be modular combined.
- ◆ Easy installation, no need of cooling tower or plant room, less initial cost.
- ◆ High COP, low energy consumption and operation cost.
- ◆ With cooling, heating and domestic hot water function, three functions in one unit.
- ◆ intelligent defrosting, intelligent anti-freezing.
- ◆ Micro computer fuzzy defrosting, defrost completely, multi field parameter design, to meet the local weather.

Air cooled
chillers series

Optional accessories

- ◆ Electric heater ◆ Water flexible connector ◆ “Y” type filter ◆ Water pump ◆ Flow switch ◆ Scroll compressor
- ◆ Heat recovery ◆ Anti-corrosion ◆ Rubber isolator ◆ Electric expansion valve ◆ Remote control ◆ Flow switch

Specification I - Single Compressor

Model		Air Cooled Screw Chiller															
		VMA180L VMN180L			VMA250L VMN250L			VMA320L VMN320L			VMA380L VMN380L			VMA430L VMN430L			
Refrigerant	-	R22	R407C	R134a	R22	R407C	R134a	R22	R407C	R134a	R22	R407C	R134a	R22	R407C	R134a	
Cooling Capacity	kW	180	171	164	250	238	218	320	304	290	380	361	330	430	409	386	
Heating Capacity	kW	198	188	-	275	261	-	350	333	-	430	409	-	480	456	-	
Total Power Input	kW	67.1	67.3	61.2	87.6	87.8	71.2	114	114.4	98.6	135.8	136.2	112.3	143	143.4	128.4	
Domestic Hot Water (Optional)	Capacity	kW	54	51.3	49.2	75	71.4	65.4	96	91.2	87	114	108.3	99	129	122.7	
	Water Flow	m³/h	9.4	9.0	8.6	13.1	12.5	11.4	16.8	15.9	15.2	19.9	18.9	17.3	22.5	21.4	
	Inlet Temp	°C	50			50			50			50			50		
	Outlet Temp	°C	55			55			55			55			55		
	Water Pipe Size	-	DN50			DN50			DN50			DN50			DN50		
Compressor	Type	-	Semi Hermetic Screw Compressor														
	Input Power x Qty	kW	59.9×1	60.1×1	54×1	76.8×1	77×1	60.4×1	103.2×1	103.6×1	87.8×1	121.4×1	121.8×1	97.9×1	128.6×1	129×1	110.4×1
	Energy Steps	-	25-50-75-100%														
Fan	Type	-	Axial Type, Vertical Discharge														
	Input Power x Qty	kW	1.8×4			1.8×6			1.8×6			1.8×8			1.8×8		
	Air Flow	m³/h	92000			138000			138000			184000			184000		
Water-Side Heat Exchange	Type	-	Shell & Tube			Shell & Tube			Shell & Tube			Shell & Tube			Shell & Tube		
	Water Flow	m³/h	31.5	29.9	28.7	43.7	41.6	38.1	55.9	53.1	50.7	66.4	63.1	57.7	75.1	71.5	57.5
	Drop Water Side	kPa	40			40			40			40			40		
	Connection Pipe Size	-	DN80			DN80			DN100			DN100			DN100		
Refrigerant	Charge Amount	kg	60			80			110			125			135		
	Expansion Device	-	Thermal Expansion Valve														
Power		-	3φ-380V-50Hz *														
Dimension	Length	mm	2290			3270			4020			4750			5250		
	Width	mm	2190			2190			2190			2190			2190		
	Height	mm	2480			2480			2480			2480			2480		
Weight	Net	kg	2050			2750			3200			3650			4000		
	Operating	kg	2150			2900			3350			3850			4200		
Noise	dB(A)		74			76			76			78			78		

Note:1- Standard cooling work condition: Ambient Temp: DB 35°C, WB 24°C; cooling water inlet 12°C, outlet 7°C.

2- Standard heating work condition: Ambient Temp: DB 7°C, WB 6°C; heating water inlet 40°C, outlet 45°C.

3- The noise data is measured on the average of 1m far away from the unit.

4- Reserve the right to change the parameter without prior notice.

5- Water side max. bearing pressure: 1.0 MPa.

* Various power supply are optional.

Air Cooled Screw Chiller/Heat Pump

Specification II - Single Compressor

Air cooled chillers series

Model		Air Cooled Screw Chiller																						
		VMA500L VMN500L			VMA570L VMN570L			VMA640L VMN640L			VMA700L VMN700L			VMA760L VMN760L			VMA810L VMN810L			VMA860L VMN860L				
Refrigerant		-	R22	R407C	R134a	R22	R407C	R134a	R22	R407C	R134a	R22	R407C	R134a	R22	R407C	R134a	R22	R407C	R134a	R22	R407C	R134a	
Cooling Capacity		kW	500	476	436	570	542	508	640	608	580	700	665	620	760	722	660	810	770	-	860	817	-	
Heating Capacity		kW	550	522	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total Power Input		kW	157.5	162.4	136.8	179	181	158.6	201	207	179.4	219	222	192	237.1	240	213	251.3	254.3	-	268.3	267.6	-	
Domestic Hot Water (Optional)	Capacity	kW	150	142.5	130.8	171	162.6	152.4	192	182.4	174	210	199.5	186	228	216.6	198	243	231	-	258	245.1	-	
	Water Flow	m³/h	26.2	24.9	22.9	29.9	28.4	16.6	33.6	31.9	30.4	36.7	34.9	32.5	39.8	37.8	34.6	42.5	40.4	-	45.1	42.8	-	
	Inlet Temp	°C	50			50			50			50			50			50			50			
	Outlet Temp	°C	55			55			55			55			55			55			55			
	Water Pipe Size	-	DN50			DN50			DN80			DN80			DN80			DN80			DN80			
Compressor	Type	-	Semi Hermetic Screw Compressor																					
	Input Power	kW	139.5	144.4	118.8	157.4	159.4	138	179.4	185.4	157.8	193.8	196.8	166.8	208.3	211.2	184.2	222.5	222.5	-	239.5	238.8	-	
	Energy Steps	-	25-50-75-100%																					
Fan	Type	-	Axial Type, Top Discharge																					
	Input Power x Qty	kW	1.8×12			1.8×12			1.8×12			1.8×14			1.8×16			1.8×16			1.8×16			
	Air Flow	m³/h	276000			276000			276000			322000			368000			368000			368000			
Water-Side Heat Exchange	Type	-	Shell & Tube			Shell & Tube			Shell & Tube			Shell & Tube			Shell & Tube			Shell & Tube			Shell & Tube			
	Water Flow	m³/h	87.4	83.2	76.2	99.6	94.7	88.8	111.8	106.3	101.4	122.3	116.2	108.3	132.8	126.2	115.3	141.6	134.6	-	150.2	142.8	-	
	Drop Water Side	kPa	40			43			43			44			44			44			44			
	Connection Pipe Size	-	DN125			DN125			DN150			DN150			DN150			DN150			DN150			
Refrigerant	Charge Amount	kg	145			155			170			180			190			200			210			
	Expansion Device	-	Electronic Expansion Valve																					
Power		-	3φ-380V-50Hz *																					
Dimension	Length	mm	6250			7885			8680			9360			10090			10590			11090			
	Width	mm	2190			2190			2190			2190			2190			2190			2190			
	Height	mm	2480			2480			2480			2480			2480			2480			2480			
Weight	Net	kg	4950			5400			5850			6300			6750			7100			7450			
	Operating		5250			5700			6150			6650			7150			7500			7850			
Noise		dB(A)	80			80			80			80			81			82			83			

Note: 1- Standard cooling work condition: Ambient Temp: DB 35°C, WB 24°C; cooling water inlet 12°C, outlet 7°C.

2- Standard heating work condition: Ambient Temp: DB 7°C, WB 6°C; heating water inlet 40°C, outlet 45°C.

3- The noise data is measured on the average of 1m far away from the unit.

4- Reserve the right to change the parameter without prior notice.

5- Water side max. bearing pressure: 1.0 MPa.

* Various power supply is optional.

Air Cooled Screw Chiller/Heat Pump

Specification II - Dual Compressors

Model		Air Cooled Screw Chiller																					
		VMA500L VMN500L			VMA570L VMN570L			VMA640L VMN640L			VMA700L VMN700L			VMA760L VMN760L			VMA810L VMN810L			VMA860L VMN860L			
Refrigerant		-	R22	R407C	R134a	R22	R407C	R134a	R22	R407C	R134a	R22	R407C	R134a	R22	R407C	R134a	R22	R407C	R134a	R22	R407C	R134a
Cooling Capacity		kW	500	475	436	570	542	508	640	608	580	700	665	620	760	722	660	810	770	716	860	817	772
Heating Capacity		kW	550	523	-	625	594	-	700	665	-	780	741	-	860	818	-	910	865	-	960	912	-
Total Power Input		kW	175.2	175.6	142.4	201.6	202.2	169.8	228	228.8	197.2	249.8	250.6	210.9	271.6	272.4	224.6	278.8	279.6	237.1	286	286.8	249.6
Domestic Hot Water (Optional)	Capacity	kW	150	142.8	130.8	171	162.6	152.4	192	182.4	174	210	199.5	186	228	216.6	198	243	231	214.8	258	245.4	231.6
	Water Flow	m³/h	26.2	24.9	22.9	29.9	28.4	26.6	33.6	31.9	30.4	36.7	34.9	32.5	39.8	37.9	34.6	42.5	40.4	37.5	45.1	42.8	40.5
	Inlet Temp	°C	50			50			50			50			50			50			50		
	Outlet Temp	°C	55			55			55			55			55			55			55		
	Water Pipe Size	-	DN80			DN80			DN80			DN80			DN80			DN80			DN80		
	Compressor	Type	-	Semi Hermetic Screw Compressor																			
Input Power		kW	76.8	77.0	60.4	76.8	77.0	60.4	103.2	103.6	87.8	103.2	103.6	87.8	121.4	121.8	97.9	121.4	121.8	97.9	128.6	129.0	110.4
			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Energy Steps		-	12.5-25-37.5-50-67.5-75-87.5-100%																				
Fan	Type	-	Axial Type, Top Discharge																				
	Input Power x Qty	kW	1.8×12			1.8×12			1.8×12			1.8×14			1.8×16			1.8×16			1.8×16		
	Air Flow	m³/h	276000			276000			276000			322000			368000			368000			368000		
Water-Side Heat Exchange	Type	-	Shell & Tube			Shell & Tube			Shell & Tube			Shell & Tube			Shell & Tube			Shell & Tube			Shell & Tube		
	Water Flow	m³/h	87.4	83.0	76.2	99.6	94.7	88.8	111.8	106.2	101.4	122.3	116.2	108.3	132.8	126.2	115.3	141.6	134.6	125.2	150.3	143	135
	Drop Water Side	kPa	43			43			43			43			44			44			44		
	Connection Pipe Size	-	DN125			DN125			DN150			DN150			DN150			DN150			DN150		
Refrigerant	Charge Amount	kg	160			190			220			235			250			260			270		
	Expansion Device	-	Thermal Expansion Valve															Electronic Expansion Valve					
Power		-	3φ-380V-50Hz *																				
Dimension	Length	mm	6530			7280			8030			8760			9490			9990			10490		
	Width	mm	2190			2190			2190			2190			2190			2190			2190		
	Height	mm	2480			2480			2480			2480			2480			2480			2480		
Weight	Net	kg	5450			5900			6350			6800			7250			7600			7950		
	Operating		5750			6200			6650			7150			7650			8000			8350		
Noise		dB(A)	81			81			81			82			83			84			85		

Note: 1- Standard cooling work condition: Ambient Temp: DB 35°C, WB 24°C; cooling water inlet 12°C, outlet 7°C.

2- Standard heating work condition: Ambient Temp: DB 7°C, WB 6°C; heating water inlet 40°C, outlet 45°C.

3- The noise data is measured on the average of 1m far away from the unit.

4- Reserve the right to change the parameter without prior notice.

5- Water side max. bearing pressure: 1.0 MPa.

* Various power supply is optional.

Multi -Function Air Cooled Water Chiller/Heat Pump

VH008 - 085

VH: Heat Pump

Cooling Capacity: 8-425kW

Heating Capacity: 7.5-400kW



Air cooled
chillers series



- ◆ Multi function integration unit, five functions in one unit: cooling, cooling + hot water, hot water, heating, heating + hot water.
- ◆ 24hours domestic hot water supply
- ◆ Adopt entire heat recovery in summer and heat pump principle in winter, the hot water production cost is only 40% of the common electrical heater.
- ◆ World famous brand scroll compressor, more stable and reliable.
- ◆ Patent heat exchanger startup washing technology, ensure the high efficiency operation.

Optional accessories

- ◆ Electric heater ◆ Water flexible connector ◆ “Y” type filter ◆ Water pump ◆ Flow switch ◆ Scroll compressor
- ◆ Heat recovery ◆ Anti-corrosion ◆ Rubber isolator ◆ Electric expansion valve ◆ Remote control ◆ Flow switch

Specification I -Radiation cooling and floor heating condition

Model			Multifunction Air Cooled Water Chiller and Heat Pump						
			VH008	VH012	VH015	VH035	VH045	VH075M	VH085M
Cooling Capacity	kW		8	12	15	38	43	75	85
Heating Capacity	kW		7.5	11	14.5	33	41	71	80
Hot Water	Hot Water Capacity	kW	9	13	16	38	48	80	90
	Hot Water Flow Rate (△t=5℃)	L/h	200	300	350	900	1100	1600	2000
	Inlet Temp.	℃	50						
	Outlet Temp.	℃	55						
	Water Flow (△t=5℃)	m³/h	1.8	2.2	2.5	6.2	8.1	11.1	14.3
	Resistance at Water Side	kPa	30	32	33	35	36	38	40
	Connection Pipe Size		1'	1'	1'	1-1/4'	1-1/4'	DN100	DN100
Compressor	Type		Hermetic Scroll Compressor						
	Input Power x Qty	kW	2.83x1	3.93x1	4.28x1	4.28x2	10.1x1	4.28x4	10.1x2
	Energy Steps		0-100%	0-100%	0-100%	0-50-100%	0-100%	0-25-50-75-100%	0-50-100%
Fan	Type		Axial						
	Input Power x Qty	kW	0.37x1	0.37x1	0.37x1	0.55x1	0.55x1	0.55x2	0.55x2
	Air Flow	m³/h	4000	4200	5250	10500	14000	21000	28000
Air-Conditioning Side Heat Exchanger	Water Flow	m³/h	1.6	2	2.4	6.1	7.8	9.7	12.2
	Resistance at Water Side	kPa	30	31	32	34	35	37	39
	Connection Pipe Size		1'	1'	1'	1-1/4'	1-1/4'	DN100	DN100
Refrigerant	Type		R410a			R22			
	Flow Control Mode		Capillary			Thermal Expansion Valve			
Noise	dB(A)		56	58	60	64	65	67	69
Dimension	Length	mm	1280			1650		2105	
	Width	mm	1000			1200		1425	
	Height	mm	1080			1950		2050	
Power	V/Ph/Hz		380V-3ph-50Hz *						
Total Power Input		kW	3.2	4.3	4.7	9.1	10.7	18.2	21.3

Multi-Function Air Cooled Water Chiller/Heat Pump

Note:

- 1- Radiation cooling work condition: Ambient Temp: DB 35°C, WB 24°C; cooling water inlet 20°C, outlet 15°C.
 - 2- Floor heating work condition: Ambient Temp: DB 7°C, WB 6°C; heating water inlet 30°C, outlet 35°C.
 - 3- Domestic hot water condition: Ambient Temp: DB 21°C, WB 15.5°C; heating water inlet 50°C, outlet 55°C.
 - 4- Domestic hot water volume is measured under condition of inlet 15°C and outlet 55°C.
 - 5- The noise data is measured on the average of 1m far away from the unit.
 - 6- Reserve the right to change the parameter without prior notice.
- * Various power supply is optional.

Specification II -Cooling and Heating Condition

Model			Multifunction Air Cooled Water Chiller and Heat Pump						
			VH008	VH012	VH015	VH035	VH045	VH075M	VH085M
Cooling Capacity	kW		6.5	10	12	28	36	60	68
Heating Capacity	kW		7	11	14	31	40	67	75
Hot Water	Hot Water Capacity	kW	9	13	16	38	48	80	90
	Hot Water Flow Rate (△t=5℃)	L/h	200	300	350	900	1100	1600	2000
	Inlet Temp.	℃	50						
	Outlet Temp.	℃	55						
	Water Flow (△t=5℃)	m³/h	1.8	2.2	2.5	6.2	8.1	11.1	14.3
	Resistance at Water Side	kPa	30	32	33	35	36	38	40
	Connection Pipe Size		1'	1'	1'	1-1/4'	1-1/4'	DN100	DN100
Compressor	Type		Hermetic Scroll Compressor						
	Input Power x Qty	kW	2.83x1	3.93x1	4.28x1	4.28×2	10.1×1	4.28×4	10.1×2
	Energy Steps		0-100%	0-100%	0-100%	0-50-100%	0-100%	0-25-50-75-100%	0-50-100%
Fan	Type		Axial						
	Input Power x Qty	kW	0.37x1	0.37x1	0.37x1	0.55×1	0.55×1	0.55×2	0.55×2
	Air Flow	m³/h	4000	4200	5250	10500	14000	21000	28000
Air-Conditioning Side Heat Exchanger	Water Flow	m³/h	1.6	2	2.4	6.1	7.8	9.7	12.2
	Resistance at Water Side	kPa	30	31	32	34	35	37	39
	Connection Pipe Size		1'	1'	1'	1-1/4'	1-1/4'	DN100	DN100
Refrigerant	Type		R410a			R22			
	Flow Control Mode		Capillary			Thermal Expansion Valve			
Noise	dB(A)		56	58	60	64	65	67	69
Dimension	Length	mm	1280			1650		2105	
	Width	mm	1000			1200		1425	
	Height	mm	1080			1950		2050	
Power	V/Ph/Hz		380V-3PH-50Hz *						
Total Power Input		kW	3.2	4.3	4.7	9.1	10.7	18.2	21.3

Note:

- 1- Standard cooling working condition: Ambient Temp: DB 35°C, WB 24°C; chilled water inlet: 12°C, outlet: 7°C.
 - 2- Standard heating working condition: Ambient Temp: DB 7°C, WB 6°C; hot water inlet: 40°C, outlet: 45°C.
 - 3- Domestic hot water condition: Ambient Temp: DB 21°C, WB 15.5°C; hot water inlet: 50°C, outlet: 55°C.
 - 4- Domestic hot water volume is measured under condition of inlet 15°C, outlet 55°C.
 - 5- The noise data is measured on the average of 1m far away from the unit.
 - 6- Reserve the right to change the parameter without prior notice.
- * Various power supply are optional.

Air Source Heat Pump Water Heater

VKRM700 - 2000

VKRM: Air Source Water Heater

Heating Capacity: 33-85kW

Hot Water Capacity: 700L/H - 2000L/H



Air cooled
chillers series



- ◆ Adopting high temperature enhanced vapor injection compressor.
- ◆ Modular design, parallel connection of 1-16 units providing hot water from 1100l/h to 32000l/h.
- ◆ High efficiency and energy-saving, COP > 4.0.
- ◆ High temperature hot water output, maximum temperature up to 55oC.
- ◆ Ultra-low temperature running, being able to produce heating and hot water under -20oC ambient temperature.
- ◆ Intelligent control, achieving automatic running yearly.
- ◆ Intelligent defrosting, consistent output temperature during the defrosting.

Specification I -Ambient temperature above 0 °C type

Model			Air Source Heat Pump Water Heater											
			VKRM700		VKRM800		VKRM1100		VKRM1600		VKRM2000			
Refrigerant		-	R410a	R407C	R410a	R407C	R410a	R407C	R410a	R407C	R22	R407C	R410a	
Heating Capacity		kW	33	34	37	38	50	52	75	78	85	83	72	
Hot Water	Production capacity	l/h	700	730	790	810	1070	1100	1600	1670	2000	1950	1700	
	Water flow	m³/h	5.7	5.8	6.4	6.5	8.6	8.9	12.9	13.4	14.0	13.7	13.0	
	Water side resistance	Kpa	28	28	30	30	32	32	40	40	42	40	42	
	Heat exchanger type	-	Plate Heat Exchanger						Shell&tube Heat Exchanger					
	Pipe connection	-	G1-1/4	G1-1/4	G1-1/4	G1-1/4	G1-1/4	G1-1/4	G1-1/2	G1-1/2	DN50	DN50	DN50	
	Maxium water temperature	℃	55	55	55	55	55	55	55	55	55	55	55	55
Compressor	Type		Hermetic Scroll Compressor											
	Energy Steps		0-50-100%		0-50-100%		0-50-100%		0-33-67-100%		0-25-50-75-100%			
Water pump	Type		Centrifugal type								N/A			
	Power input	kW	0.75		0.92		1.2		1.2					
	Head	m	16		16		16		16					
Fan	Type		Axial Type, Top Discharge											
	Input Power x Qty	kW	0.37x2		0.37x2		0.55x2		0.55x2		0.55*2			
Refrigerant	Charge amount	kg	3.5*2		4.0*2		4.2*2		4.2*3		3.5*4	3.5*4	4.0*4	
	Flow Control Mode		Thermal Expansion Valve											
Noise	dB(A)		65		65		67		67		64	64	69	
Dimension	Length	mm	1515		1515		1715		1715		2002			
	Width	mm	915		915		1015		1015		1170			
	Height	mm	1785		1785		1785		1785		1846			
Power	V/Ph/Hz		380V-3ph-50Hz *											
Total Power Input		kW	9.6	9.5	10.7	10.6	13.8	13.6	19.7	19.4	20.3	21.1	17.1	

Notes:

1. Standard working condition: ambient temperature DB 20°C, WB 15°C; hot water inlet 15°C, outlet 55°C.

2. For the operation ambient from 0 to 43°C.

3. For the operation ambient between 0 to 43°C.

* Various power supply are optional.

Air Source Heat Pump Water Heater

Specification II -Low ambient temperature type

Model			Air Source Heat Pump Water Heater			
			VKRM1100L		VKRM2000L	
Refrigerant		-	R22	R407C	R22	R407C
Heating Capacity		kW	48	46	85	83
Hot Water	Production capacity	l/h	1100	1080	2000	1950
	Water flow	m³/h	7.7	7.6	14.0	13.7
	Water side resistance	Kpa	30	30	40	40
	Pipe connection	-	DN40	DN40	DN65	DN65
	Maxium water temperature	°C	55	55	55	55
Compressor	Type		EVI Hermetic Scroll Compressor			
	Power input	kW	10.8	11.3	9.5*2	9.8*2
	Energy Steps		0-100%		0-50-100%	
Fan	Type		Axial Type, Top Discharge			
	Input Power x Qty	kW	0.7		0.65*2	
	Air flow	m³/h	13000		24000	
Refrigerant	Charge amount	kg	8.0		7.0*2	
	Flow Control Mode		Thermal Expansion Valve			
Noise	dB(A)		60		64	
Dimension	Length	mm	1340		2140	
	Width	mm	920		1010	
	Height	mm	1210		1880	
Power	V/Ph/Hz		380V-3ph-50Hz *			
Total Power Input		kW	11.5	12	20.3	20.9

Notes:

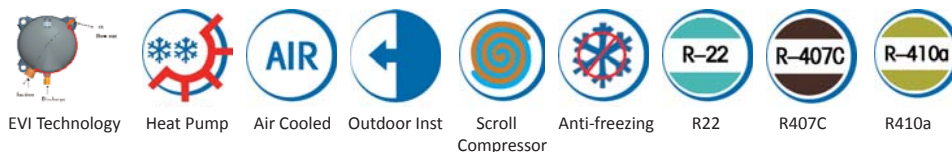
1. Units above can realize 1-16 units' modular connection and can control energy-regulation automatically.
2. Standard work condition: ambient temperature DB 20°C, WB 15°C; hot water inlet 20°C, outlet 55°C.
3. For the operation ambient between -20 to 43°C.

* Various power supply are optional.

VMNL: Heat Pump

Cooling Capacity: 10-1088kW

Heating Capacity: 10-1232kW



- ◆ Adopt international leading EVI (Enhanced Vapour Injection) high efficient compressor;
- ◆ Start/stop automatically according to operation condition;
- ◆ Heating capacity is improved by 15% compared with conventional unit and COP by 20%;
- ◆ Heating under -20°C ambient temperature;
- ◆ Heating capacity reduction is 15% less comparing conventional unit in the same condition;
- ◆ Microcomputer fuzzy defrosting technology, minimizing defrost time and energy consumption;
- ◆ Cloud service and IP intelligent protection.

Optional accessories

- ◆ Remote monitor
- ◆ Touch screen controller
- ◆ Flexible joint
- ◆ Flow switch
- ◆ Water pump
- ◆ Expansion tank
- ◆ Y-strainer

Specification

Model			Low Ambient Temperature Air Cooled Water Heat Pump					
			VMNL034VZ			VMNL068VZ		
Refrigerant	-	-	R22	R407C	R410a	R22	R407C	R410a
Cooling Capacity	-	kW	34	33	34	68	66	68
Cooling Power Input	-	kW	10.4	10.4	10.4	21.5	21.5	21.5
Heating Capacity	-	kW	39	38	39	77	75	77
Heating Power Input	-	kW	11.2	11.2	11.2	22.7	23.1	22.7
Compressor	Type	-	EVI Hermetic Scroll Compressor					
	Energy Steps	-	0 - 100%			0-50%-100%		
Domestic Hot Water (Optional)	Heat Recovery	kW	10			20		
	Inlet Temp.	°C	50			50		
	Outlet Temp.	°C	55			55		
	Airflow Rate	m³/h	1.8			3.5		
	Water Pipe Size	In	1			1		
Fan	Type	-	Axial Type, Top Discharge					
	Input Power * Qty	kW	0.55*2			0.65*2		
	Air Flow	m³/h	10500			28000		
Water Side Heat Exchanger	Type	-	Shell and Tube					
	Water Flow	m³/h	6	5.7	6	12	11.4	12
	Resistance at water side	kPa	40	40	40	42	42	44
	Connection Pipe Size	-	DN40	DN40	DN40	DN50	DN50	DN50
Built-in Water Pump	Power Input	kW	1.1			N/A		
	Head	m	28			N/A		
Refrigerant	Charge amount	kg	15.5	12	15.5	11.0*2	10.4*2	11.0*2
Noise	-	dB(A)	67			69		
Dimension	Length	mm	1715			2115		
	Width	mm	1015			1240		
	Height	mm	1785			1995		
Power	-	-	380V-3ph-50Hz *					
Weight	Net/Operating	kg	590/610			800/820		

Note:1- Standard cooling work condition: Ambient Temp: DB 35°C, WB 24°C; cooling water inlet 12°C, outlet 7°C.

2- Standard heating work condition: Ambient Temp: DB 7°C, WB 6°C; heating water inlet 40°C.

3- The noise data is measured on the average of 1m far away from the unit.

4- Reserve the right to change the parameter without prior notice.

5- Water side max. bearing pressure: 1.0 MPa.

* Various power supply are optional.

Sprayer Enhanced Condenser Series Air Cooled Water Chiller/Heat Pump

VMAE/VMNE065-430V/LZ

VMAE: Cooling Only

VMNE: Heat Pump

Cooling capacity: 62-3544kW

Heating capacity: 66-3955kW



Cooling Only



Heat Pump



Air Cooled



Outdoor Inst



Scroll/Screw Compressor



Anti-Freezing



R-22



R-407C



- ◆ Built-in sprayer cooling system, which is an auxiliary evaporative type cooling system of the condenser.
- ◆ The higher the ambient temperature, the more saving on electricity consumption.
- ◆ Increasing 10% cooling capacity and 20% of comprehensive energy-saving rate than conventional unit in hot summer.
- ◆ Reducing compressor's frequent startup and extending its lifetime
- ◆ Microcomputer fuzzy defrosting design

Air cooled
chillers series

Optional accessories

- ◆ Electric heater
- ◆ Rubber Absorber
- ◆ Flexible Joint
- ◆ Waterflow Switch
- ◆ Y-stainer
- ◆ Water Pump

Specification

Model			Sprayer Enhanced Condenser Series								
			Modular Type				Screw Type				
			VMAE065V VMNE065V		VMAE130V VMNE130V		VMAE180L VMNE180L	VMAE250L VMNE250L	VMAE320L VMNE320L	VMAE380L VMNE380L	VMAE430L VMNE430L
Refrigerant		-	R22	R407C	R22	R407C	R22/R407C	R22/R407C	R22/R407C	R22/R407C	R22/R407C
Cooling Capacity		kW	65	62	130	124	191.6/193.6	265.7/268.8	340/344	391.4/408.9	443/463.5
Heating Capacity		kW	69	66	136	132	203.9/193.6	283.2/268.8	360.5/343	443/421.3	494.4/469.7
Domestic Hot Water (Optional)	Heat Recovery	kW	19.5	18.6	39.0	37.2	59/56	82/78	105/100	125/119	142/135
	Inlet temperature	°C	50	50	50	50	50	50	50	50	50
	Outlet temperature	°C	55	55	55	55	55	55	55	55	55
	Water Flow	m³/h	3.4	3.3	6.6	6.3	10.2	14.2	18.1	21.6	24.4
	Water Pipe Size	-	1in	1in	1in	1in	DN40	DN40	DN40	DN50	DN50
Compressor	Type	-	Hermetic scroll compressor				Semi-hermetic screw compressor				
	Power Input	kW	3.92*4	4.09*4	3.92*8	4.09*8	52.7	67.6	90.8	106.8	113.2
	Energy Steps		0-25-50-75-100%		0-12.5-25-37.5-50-62.5-75-87.5-100%		0-25-50-75-100%				
Fan	Type		Axial Type, Top Discharge								
	Power Input	kW	0.55*2	0.55*2	0.55*4	0.55*4	1.8*4	1.8*6	1.8*6	1.8*8	1.8*8
	Air Flow	m³/h	24100	24100	48200	48200	92000	138000	138000	184000	184000
Sprayer	Power Input	kW	0.04*4	0.04*4	0.04*8	0.04*8	4	4	4	4	4
Water-side Heat Exchanger	Type		Shell & Tube								
	Water Flow	m³/h	11	11	22	22	34	47	60	73	81
	Drop Water Side	kPa	40	40	40	40	40	40	40	40	40
	Water Pipe Size	-					DN80	DN80	DN100	DN100	DN100
Refrigerant Charge Amount		kg	18	18	36	36	60	80	110	125	135
Expansion Device		-	Capillary				Thermal Expansion Valve				
Power		-	380V/3Ph/50Hz *								
Total Power Input		kW	16.9	17.6	33.9	35.2	63.9	82.4	105.6	125.2	131.6
Dimension	Length	mm	2189	2189	2189	2189	2290	3270	4020	4750	5250
	Width	mm	1255	1255	2135	2135	2190	2190	2190	2190	2190
	Height	mm	2050	2050	2050	2050	2480	2480	2480	2480	2480
Weight	Net	Kg	760	760	1500	1500	2050	2750	3200	3650	4000
	Operating		780	780	1540	1540	2150	2900	3350	3850	4200
Noise		dB(A)	68	68	68	68	74	76	76	78	78

Note: 1- Standard cooling work condition: Ambient temperature DB 35°C, WB 24°C; Cooling water inlet 12°C, outlet 7°C.

2- Standard heating word condition: Ambient temperature DB 7°C, WB 6°C; Heating water inlet 40°C.

2- The noise data is measured on the average of 1m far away from the unit.

4- Water site max. bearing pressure: 1.0 MPa.

* Various power supply are optional.

Mini Ground Source Heat Pump

VWSN008-040

VWMN:Heat Pump

Cooling Capacity: 8.5-40KW

Heating capacity: 11-48kW



- ◆ Packaged design, compacted with water pump, enable easy installation
- ◆ Maximum energy saving
- ◆ Safe and ecological

Optional accessories

- ◆ Heat recovery
- ◆ Anti-corrosion
- ◆ Rubber isolator
- ◆ Remote control

Specification-underground water loop condition

Model		VWSN008-P	VWSN012-P	VWSN015-P	VWSN020-P	VWSN030-P	VWSN040-P
Refrigerant	Type	R410a					
Cooling capacity	kW	8.5	12	15	20	31	40
Cooling power input	kW	1.7	2.1	2.6	3.2	6.2	6.7
Heating capacity	kW	11	15	18	23.5	36	47
Heating power input	kW	2.2	2.9	3.8	4.6	7.7	9.2
Power supply	V/Ph/Hz	220/1/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Compressor type		Fully-Hermetic scroll compressor					
Evaporator	Type	Plate heat exchanger					
Water resistance	kPa	20-50	20-50	20-50	20-50	20-50	20-50
Condenser	Type	Plate heat exchanger					
Water resistance	kPa	30-50	30-50	30-50	30-50	30-50	30-50
Standard bearing pressure	MPa	1.0	1.0	1.0	1.0	1.0	1.0
Fouling coefficient	m ² °C/W	0.086	0.086	0.086	0.086	0.086	0.086
Cooling mode							
Chilled water flow	m ³ /h	1.4	2.1	2.6	3.4	5.2	6.9
Cooling water flow	m ³ /h	0.8	1.1	1.4	1.8	2.8	3.7
Chilled water temp.	°C	12/7	12/7	12/7	12/7	12/7	12/7
Cooling water temp.	°C	18/29	18/29	18/29	18/29	18/29	18/29
Heating mode							
Hot water flow	m ³ /h	1.4	2.1	2.6	3.4	5.2	6.9
Cooling water flow	m ³ /h	0.8	1.1	1.4	1.8	2.8	3.7
Hot water temp.	°C	40/--	40/--	40/--	40/--	40/--	40/--
Cooling water temp.	°C	15/--	15/--	15/--	15/--	15/--	15/--
Inner water pump power	kW	0.55	0.55	0.55	0.75	1.5	1.5
Water pipe	inch	1	1	1-1/4	1-1/4	1-1/2	1-1/2
Length	mm	1200	1200	1200	1200	1300	1300
Width	mm	800	800	800	800	800	800
Height	mm	970	970	970	970	970	970
Shipping weight	kg	150	180	200	220	320	410
Noise-max	dB(A)	54	56	58	60	60	60
Protection	-	Inverse phase & lack-phase protection High & low pressure protection Exhaust protection Water-break protection Anti-freezing protection					

Mini Ground Source Heat Pump

Specification-Underground Piping Loop Condition

Model		VWSN008-P	VWSN012-P	VWSN015-P	VWSN020-P	VWSN030-P	VWSN040-P
Refrigerant	Type	R410a					
Cooling capacity	kW	8	12	16	21	31	40
Cooling power input	kW	1.8	2.3	2.7	3.3	6.3	6.8
Heating capacity	kW	11	14	18	23	36	46
Heating power input	kW	2.2	3.1	4.0	4.6	8.0	9.2
Power supply	V/Ph/Hz	220/1/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Compressor type		Fully-Hermetic scroll compressor					
Evaporator	Type	Plate heat exchanger					
Water resistance	kPa	20-50	20-50	20-50	20-50	20-50	20-50
Condenser	Type	Plate heat exchanger					
Water resistance	kPa	30-50	30-50	30-50	30-50	30-50	30-50
Standard bearing pressure	MPa	1.0	1.0	1.0	1.0	1.0	1.0
Fouling coefficient	m ² °C/W	0.086	0.086	0.086	0.086	0.086	0.086
Cooling mode							
Chilled water flow	m ³ /h	1.4	2.1	2.6	3.4	5.2	6.9
Cooling water flow	m ³ /h	1.7	2.5	3.1	4.0	6.3	8.0
Chilled water temp.	°C	12/7	12/7	12/7	12/7	12/7	12/7
Cooling water temp.	°C	25/30	25/30	25/30	25/30	25/30	25/30
Heating mode							
Hot water flow	m ³ /h	1.4	2.1	2.6	3.4	5.2	6.9
Cooling water flow	m ³ /h	1.7	2.5	3.1	4.0	6.3	8.0
Hot water temp.	°C	40/--	40/--	40/--	40/--	40/--	40/--
Cooling water temp.	°C	10/--	10/--	10/--	10/--	10/--	10/--
Inner water pump power	kW	0.55	0.55	0.55	0.75	1.5	1.5
Water pipe	inch	1	1	1-1/4	1-1/4	1-1/2	1-1/2
Length	mm	1200	1200	1200	1200	1300	1300
Width	mm	800	800	800	800	800	800
Height	mm	970	970	970	970	970	970
Shipping weight	kg	150	180	200	220	320	410
Noise-max	dB(A)	54	56	58	60	60	60
Protection	-	Inverse phase & lack-phase protection High & low pressure protection Exhaust protection Water-break protection Anti-freezing protection					

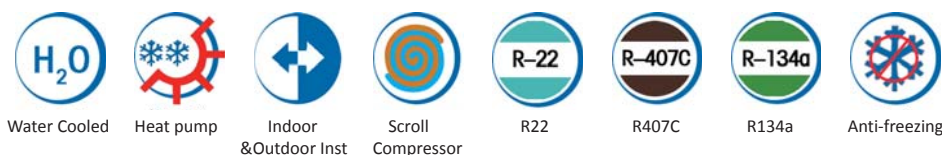
Modular Ground Source Heat Pump

VWMN80-380K

VWMN:Heat Pump

Cooling Capacity: 80-384KW

Heating capacity: 86-440kW



- ◆ Modular design, convenient for load extension, the cost can be invested separately according to actual situation, it can reduce the initial cost.
- ◆ Modular parallel design, compressor parallel connection design, wider operation range, and the output cooling capacity exactly meet the cooling load, reduce idling energy consumption for energy saving.
- ◆ Optional fully closed soundproof design, reduce the sound pollution.
- ◆ Each modular work independently, if malfunction happened to one module, the other modules work normally without any influence.
- ◆ When starting, each modular starts in turn, lower down the starting current, improve the safety performance.

Optional accessories

- ◆ Step-less adjustment ◆ Soft start ◆ Heat recovery ◆ Metal casing ◆ Soundproof box ◆ Anti-corrosion
- ◆ Rubber isolator ◆ Electric expansion valve ◆ Rectangular base ◆ Remote control ◆ Flow switch

Specification I - underground water condition & internal switch

Model			VWMN80N-K		VWMN120N-K		VWMN180N-K		VWMN280N-K		VWMN380N-K
Refrigerant			R22	R134a	R22	R134a	R22	R134a	R22	R134a	R22
Cooling capacity			80	80	120	115	171	167	274	255	384
Input power			14.5	15	22	21	31	31	50	48	70
Heating capacity			92	96	138	128	195	196	315	265	440
Input power			18.5	21	27.5	28	39	42	62	57	86
COP			5.5	5.3	5.5	5.5	5.5	5.5	5.5	5.2	5.5
Max Operation current			A	52	87	78	116	104	177	168	232
Compressor	Type		Fully-Hermetic scroll								
	Qty		-	2	3	3	4	4	4	4	4
Circuits			-	2	2	2	2	2	2	2	2
Power supply			-	380V/3PH/50HZ*							
Refrigerant charge amount			Kg	14	21	21	28	28	42	42	56
Cooling mode	Chilled water in/out temp.	°C	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7
	Chilled water flow	m ³ /h	14	14	21	21	29	29	47	44	66
	Chilled water resistance	kPa	25	25	40	40	56	56	75	75	85
	Cooling water in/out temp.	°C	18/29	18/29	18/29	18/29	18/29	18/29	18/29	18/29	18/29
	Cooling water flow	m ³ /h	7	7	11	11	16	16	25	23	36
	Cooling water resistance	kPa	12	12	22	22	31	31	45	45	65
Heating mode	Hot water in temp.	°C	40	40	40	40	40	40	40	40	40
	Hot water flow	m ³ /h	14	14	21	21	29	29	47	44	66
	Hot water resistance	kPa	30	30	46	46	59	59	79	79	89
	Cooling water in temp.	°C	15	15	15	15	15	15	15	15	15
	Cooling water flow	m ³ /h	7	7	11	11	16	16	25	23	36
	Cooling water resistance	kPa	13	13	23	23	33	33	47	47	67
Full heat recovery (optional)	Capacity	kW	80	80	130	130	180	180	290	290	400
	Water flow	m ³ /h	15	15	22	22	32	32	51	51	71
	Water resistance	kPa	28	28	40	40	60	60	75	75	85
	Water in/out temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Water pipe dimension			DN65	DN65	DN65	DN65	DN80	DN80	DN100	DN100	DN100
Net dimension	Length	mm	2275	2740	2740	2840	2840	3100	3100	3465	3465
	Width	mm	600	700	700	630	630	940	940	1040	1040
	Height	mm	1455	1600	1600	1600	1600	1815	1815	2085	2085
Shipping dimension	Length	mm	2635	2830	2830	2980	2980	3300	3300	3600	3600
	Width	mm	740	800	800	900	900	1020	1020	1100	1100
	Height	mm	1575	1750	1750	1730	1730	2000	2000	2235	2235
Weight	Net	Kg	550	800	800	1050	1050	1750	1750	2200	2200
	Operating	Kg	600	920	920	1200	1200	1880	1880	2350	2350
Noise			dB(A)	62	62	63	63	64	66	66	66

Note: 1-Water side max. bearing pressure: 1.0MPa

2-Unit with heat recovery will have different dimensions.

* Various power supply are optional.

Modular Ground Source Heat Pump

Specification II-underground water condition & external switch

Model			VWMN80-K		VWMN120-K		VWMN180-K		VWMN280-K		VWMN380-K
Refrigerant			R22	R134a	R22	R134a	R22	R134a	R22	R134a	R22
Cooling capacity		kW	80	80	120	115	171	167	274	255	384
Input power		kW	14.5	15	22	21	31	31	50	48	70
Heating capacity		kW	92	96	138	128	195	196	315	265	440
Input power		kW	18.5	21	27.5	28	39	42	62	57	86
COP			5.5	5.3	5.5	5.5	5.5	5.5	5.5	5.2	5.5
Max Operation current		A	52	87	78	116	104	177	168	232	232
Compressor	Type		Fully-Hermetic scroll								
	Qty	-	2	3	3	4	4	4	4	4	4
Circuits		-	2	2	2	2	2	2	2	2	2
Power supply		-	380V/3PH/50HZ [*]								
Refrigerant charge amount		Kg	14	21	21	28	28	42	42	56	56
Cooling mode	Chilled water in/out temp.	°C	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7
	Chilled water flow	m ³ /h	14	14	21	21	29	29	47	44	66
	Chilled water resistance	kPa	25	25	40	40	56	56	75	75	85
	Cooling water in/out temp.	°C	18/29	18/29	18/29	18/29	18/29	18/29	18/29	18/29	18/29
	Cooling water flow	m ³ /h	7	7	11	11	16	16	25	23	36
	Cooling water resistance	kPa	12	12	22	22	31	31	45	45	65
Heating mode	Hot water in temp.	°C	40	40	40	40	40	40	40	40	40
	Hot water flow	m ³ /h	14	14	21	21	29	29	47	44	66
	Hot water resistance	kPa	30	30	46	46	59	59	79	79	89
	Cooling water in temp.	°C	15	15	15	15	15	15	15	15	15
	Cooling water flow	m ³ /h	7	7	11	11	16	16	25	23	36
	Cooling water resistance	kPa	13	13	23	23	33	33	47	47	67
Partial heat recovery (optional)	Capacity	kW	15	15	23	23	32	32	52	52	72
	Water flow	m ³ /h	3	3	4	4	6	6	9	9	12
	Water resistance	kPa	10	10	12	12	16	16	21	21	26
	Water in/out temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Full heat recovery (optional)	Capacity	kW	80	80	130	130	180	180	290	290	400
	Water flow	m ³ /h	15	15	22	22	32	32	51	51	71
	Water resistance	kPa	28	28	40	40	60	60	75	75	85
	Water in/out temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Water pipe dimension			DN65	DN65	DN65	DN65	DN80	DN80	DN100	DN100	DN100
Net dimension	Length	mm	2240	2600	2600	2800	2800	3150	3150	3450	3450
	Width	mm	600	600	600	760	760	810	810	800	800
	Height	mm	1315	1330	1330	1450	1450	1660	1660	1670	1670
Shipping dimension	Length	mm	2350	2760	2760	2970	2970	3300	3300	3660	3660
	Width	mm	730	740	740	900	900	900	900	900	900
	Height	mm	1465	1480	1480	1600	1600	1810	1810	1820	1820
Weight	Net	Kg	520	750	750	1100	1100	1650	1650	2100	2100
	Operating	Kg	580	840	840	1200	1200	1800	1800	2300	2300
Noise		dB(A)	62	62	63	63	64	64	66	66	66

Note: 1-Water side max. bearing pressure: 1.0MPa

2-Unit with heat recovery will have different dimensions.

* Various power supply are optional.

Water cooled
chillers series

Modular Ground Source Heat Pump

Specification III -underground piping loop condition & internal switch

Model			VWMN80N-K		VWMN120N-K		VWMN180N-K		VWMN280N-K		VWMN380N-K
Refrigerant			R22	R134a	R22	R134a	R22	R134a	R22	R134a	R22
Cooling capacity		kW	80	80	120	115	171	167	274	255	384
Input power		kW	14.5	15	22	21	31	31	50	43	70
Heating capacity		kW	86	87	129	116	172	186	274	241	375
Input power		kW	18	21	27	28	36	42	58.8	57	81.6
COP			5.5	5.3	5.5	5.5	5.5	5.5	5.5	5.2	5.5
Max Operation current		A	52	87	78	116	104	177	168	232	232
Compressor	Type		Fully-Hermetic scroll								
	Qty	-	2	3	3	4	4	4	4	4	4
Circuits		-	2	2	2	2	2	2	2	2	2
Power supply		-	380V/3PH/50HZ ⁺								
Refrigerant charge amount		Kg	14	21	21	28	28	42	42	56	56
Cooling mode	Chilled water in/out temp.	°C	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7
	Chilled water flow	m³/h	14	14	21	20	29	29	47	44	66
	Chilled water resistance	kPa	25	25	40	40	56	56	75	75	85
	Cooling water in/out temp.	°C	25/30	25/30	25/30	25/30	25/30	25/30	25/30	25/30	25/30
	Cooling water flow	m³/h	16	16	24	23	35	34	56	51	78
	Cooling water resistance	kPa	12	12	22	22	31	31	45	45	65
Heating mode	Hot water in temp.	°C	40	40	40	40	40	40	40	40	40
	Hot water flow	m³/h	15	15	22	20	29	32	47	41.5	65
	Hot water resistance	kPa	30	30	46	46	59	59	79	79	89
	Cooling water in temp.	°C	10	10	10	10	10	10	10	10	10
	Cooling water flow	m³/h	12	11	18	15	23	25	36	32	51
	Cooling water resistance	kPa	13	13	23	23	33	33	47	47	67
Full heat recovery (optional)	Capacity	kW	90	90	130	130	190	190	300	300	420
	Water flow	m³/h	15	15	22	22	32	32	51	51	71
	Water resistance	kPa	28	28	40	40	60	60	75	75	85
	Water in/out temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Water pipe dimension			DN65	DN65	DN65	DN65	DN80	DN80	DN100	DN100	DN100
Net dimension	Length	mm	2275	2740	2740	2840	2840	3100	3100	3465	3465
	Width	mm	600	700	700	630	630	940	940	1040	1040
	Height	mm	1455	1600	1600	1600	1600	1815	1815	2085	2085
Shipping dimension	Length	mm	2635	2830	2830	2980	2980	3300	3300	3600	3600
	Width	mm	740	800	800	900	900	1020	1020	1100	1100
	Height	mm	1575	1750	1750	1730	1730	2000	2000	2235	2235
Weight	Net	Kg	550	800	800	1050	1050	1750	1750	2200	2200
	Operating	Kg	600	920	920	1200	1200	1880	1880	2350	2350
Noise		dB(A)	62	62	63	63	64	64	66	66	66

Note: 1-Water side max. bearing pressure: 1.0MPa

2-Units with hear recovery function have different dimensions.

* Various power supply are optional.

Modular Ground Source Heat Pump

Specification IIII-underground piping loop condition & external switch

Model			VWMN80-K		VWMN120-K		VWMN180-K		VWMN280-K		VWMN380-K
Refrigerant			R22	R134a	R22	R134a	R22	R134a	R22	R134a	R22
Cooling capacity	kW		80	80	120	115	171	167	274	255	384
Input power	kW		14.5	15	22	21	31	31	50	43	70
Heating capacity	kW		86	87	129	116	172	186	274	241	375
Input power	kW		18	21	27	28	36	42	58.8	57	81.6
COP			5.5	5.3	5.5	5.5	5.5	5.5	5.5	5.2	5.5
Max Operation current	A		52	87	78	116	104	177	168	232	232
Compressor	Type		Fully-Hermetic scroll								
	Qty	-	2	3	3	4	4	4	4	4	4
Circuits	-		2	2	2	2	2	2	2	2	2
Power supply	-		380V/3PH/50HZ *								
Refrigerant charge amount	Kg		14	21	21	28	28	42	42	56	56
Cooling mode	Chilled water in/out temp.	°C	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7
	Chilled water flow	m ³ /h	14	14	21	20	29	29	47	44	66
	Chilled water resistance	kPa	25	25	40	40	56	56	75	75	85
	Cooling water in/out temp.	°C	25/30	25/30	25/30	25/30	25/30	25/30	25/30	25/30	25/30
	Cooling water flow	m ³ /h	16	16	24	23	35	34	56	51	78
	Cooling water resistance	kPa	12	12	22	22	31	31	45	45	65
Heating mode	Hot water in temp.	°C	40	40	40	40	40	40	40	40	40
	Hot water flow	m ³ /h	15	15	22	20	29	32	47	41.5	65
	Hot water resistance	kPa	30	30	46	46	59	59	79	79	89
	Cooling water in temp.	°C	10	10	10	10	10	10	10	10	10
	Cooling water flow	m ³ /h	12	11	18	15	23	25	36	32	51
	Cooling water resistance	kPa	13	13	23	23	33	33	47	47	67
Full heat recovery (optional)	Capacity	kW	90	90	130	130	190	190	300	300	420
	Water flow	m ³ /h	15	15	22	22	32	32	51	51	71
	Water resistance	kPa	28	28	40	40	60	60	75	75	85
	Water in/out temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Water pipe dimension			DN65	DN65	DN65	DN65	DN80	DN80	DN100	DN100	DN100
Net dimension	Length	mm	2240	2600	2600	2800	2800	3150	3150	3450	3450
	Width	mm	600	600	600	760	760	810	810	800	800
	Height	mm	1315	1330	1330	1450	1450	1660	1660	1670	1670
Shipping dimension	Length	mm	2350	2760	2760	2970	2970	3300	3300	3660	3660
	Width	mm	730	740	740	900	900	900	900	900	900
	Height	mm	1465	1480	1480	1600	1600	1810	1810	1820	1820
Weight	Net	Kg	520	750	750	1100	1100	1650	1650	2100	2100
	Operating	Kg	580	840	840	1200	1200	1800	1800	2300	2300
Noise		dB(A)	62	62	63	63	64	64	66	66	66

Note: 1-Water side max. bearing pressure: 1.0MPa

2-Unit with heat recovery will have different dimensions.

* Various power supply are optional.

Water cooled
chillers series

Ground Source Heat Pump

VWSN430-3500

VWSN: Heat pump

Cooling capacity: 430-3440kW

Heating capacity: 480-3870kW



Water Cooled



Heat pump



Indoor
& Outdoor Inst



Screw
Compressor



R22



R407C



R134a



Anti-freezing



◆ Multi energy extraction method:

- A. Underground water
- B. Surface water
- C. Underground loop

◆ Multi function in one unit: cooling, heating and domestic hot water.

Optional accessories

- ◆ Step-less adjustment ◆ Soft start ◆ Heat recovery ◆ Water side 2.0MPa pressure loading capacity ◆ Sound proof box
- ◆ Rectangle base ◆ Spring isolator ◆ Anti-corrosion heat exchanger ◆ Remote control ◆ Flow switch

Specification I -Underground Water Condition

Model		VWSN430		VWSN480		VWSN540		VWSN700		VWSN780	
Refrigerant		R22	R134a	R22	R134a	R22	R134a	R22	R134a	R22	R134a
Cooling Capacity	kW	430	420	480	480	540	560	700	700	780	780
Cooling Power Input	kW	80	78	89	90	103	105	130	130	147	145
Heating Capacity	kW	480	480	520	540	600	610	770	760	870	860
Heating Power Input	kW	104	100	111	113	130	128	166	160	185	175
Max. Operating Current	A	258	228	258	260	292	295	378	400	416	435
Energy Adjustment Range		25%-100%									
Refrigerant Circuit		1									
Compressor Quantity		1									
Compressor Type		Semi-Hermetic Twin Screw									
Noise(Standard)	dB(A)	70	70	73	73	73	73	73	73	73	73
Noise(Noise-proof)	dB(A)	62	62	63	63	63	63	64	64	64	64
Power	V/Ph/Hz	380/3/50 ⁺									
Refrigerant Charge Amount	Kg	70	70	75	75	85	85	98	98	105	105
Evaporator	Water Pipe Connection	DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN150	DN150
	Water Flow (Cooling)	m ³ /h	74	72	83	83	93	96	120	121	134
	Water Flow (Heating)	m ³ /h	39	39	45	45	50	52	65	65	72
	Water Pressure Drop	kPa	60	60	60	60	65	65	70	70	75
Condenser	Cooling Water Pipe Connection	DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN150	DN150
	Water Flow (Cooling)	m ³ /h	39	39	45	45	50	52	65	65	72
	Water Flow (Heating)	m ³ /h	74	72	83	83	93	96	120	121	134
	Water Pressure Drop	kPa	45	45	45	45	50	50	53	53	58
Partial Heat Recovery (Optional)	Capacity	kW	87	85	95	97	109	113	139	141	157
	Water Flow	m ³ /h	15	15	16	17	19	19	24	24	27
	Pressure Drop	kPa	27	27	27	27	27	27	27	27	28
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Total Heat Recovery (Optional)	Capacity	kW	469	458	514	524	590	612	754	764	842
	Water Flow	m ³ /h	81	79	83	90	101	105	130	132	145
	Pressure Drop	kPa	33	33	34	34	35	35	34	34	35
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Net Weight	Kg	2640	2750	2800	2950	3250	3400	3550	3900	3750	4000
Operating Weight	Kg	2740	2850	2950	3100	3360	3550	3880	4000	3880	4200

Ground Source Heat Pump

Model		VWSN860		VWSN960		VWSN1020	VWSN1080		VWSN1200	
Refrigerant		R22	R134a	R22	R134a	R22	R22	R134a	R22	R134a
Cooling Capacity	kW	860	860	960	960	1020	1080	1120	1200	1200
Cooling Power Input	kW	180	183	181	180	190	205	208	225	225
Heating Capacity	kW	960	960	1080	1080	1140	1210	1220	1350	1300
Heating Power Input	kW	215	200	230	225	244	260	256	267	270
Max. Operating Current	A	424	480	444	520	488	520	590	590	620
Energy Adjustment Range		25%-100%	25~100%	25%~100%	12.5%~100%	25%~100%	25%~100%	12.5%~100%	25%~100%	12.5%~100%
Refrigerant Circuit		1	1	1	2	1	1	2	1	2
Compressor Quantity		1	1	1	2	1	1	2	1	2
Compressor Type		Semi-Hermetic Twin Screw								
Noise(Standard)	dB(A)	74	74	74	74	74	74	74	75	75
Noise(Noise-proof)	dB(A)	65	65	65	65	65	65	65	66	66
Power	V/Ph/Hz	380/3/50 ⁺								
Refrigerant Charge Amount	Kg	130	130	145	145	165	170	170	188	188
Evaporator	Water Pipe Connection	DN150	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200
	Cooled Water Flow	m ³ /h	148	148	165	175	186	193	206	207
	Hot Water Flow	m ³ /h	80	80	89	89	95	101	104	112
	Water Pressure Drop	kPa	60	60	55	55	55	60	60	60
Condenser	Water Pipe Connection	DN150	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200
	Cooled Water Flow	m ³ /h	80	80	89	89	95	101	104	112
	Hot Water Flow	m ³ /h	148	148	165	175	186	193	206	207
	Water Pressure Drop	kPa	45	45	45	45	50	55	55	55
Partial Heat Recovery (Optional)	Capacity	kW	173	174	194	194	205	218	228	242
	Water Flow	m ³ /h	30	30	33	33	35	38	39	42
	Pressure Drop	kPa	32	32	30	30	32	32	32	32
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Total Heat Recovery (Optional)	Capacity	kW	938	941	1050	1050	1133	1182	1222	1311
	Water Flow	m ³ /h	181	182	181	181	191	203	210	226
	Pressure Drop	kPa	36	36	37	37	37	38	38	37
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Net Weight	Kg	3890	4000	4000	4350	4740	4740	4850	5600	5750
Operating Weight	Kg	4020	4150	4150	4500	4900	4900	5000	5760	5900

Water cooled
chillers series

Model		VWSN1320	VWSN1400		VWSN1560		VWSN1720	
Refrigerant		R22	R22	R134a	R22	R134a	R22	R134a
Cooling Capacity	kW	1320	1400	1400	1560	1560	1720	1720
Cooling Power Input	kW	245	260	260	280	287	320	320
Heating Capacity	kW	1480	1570	1530	1750	1720	1830	1920
Heating Power Input	kW	315	334	315	375	350	420	400
Max. Operating Current	A	680	756	800	794	870	832	980
Energy Adjustment Range		12.5%~100%						
Refrigerant Circuit		2						
Compressor Quantity		2						
Compressor Type		Semi-Hermetic Twin Screw						
Noise(Standard)	dB(A)	75	76	76	78	78	81	81
Noise(Noise-proof)	dB(A)	65	65	65	65	65	72	72
Power	V/Ph/Hz	380/3/50 ⁺						
Refrigerant Charge Amount	Kg	140	150	150	160	160	180	180
Evaporator	Water Pipe Connection	DN200	DN200	DN200	DN200	DN200	DN200	DN200
	Cooled Water Flow	m ³ /h	227	241	241	268	269	296
	Hot Water Flow	m ³ /h	123	130	130	145	145	160
	Water Pressure Drop	kPa	65	65	65	70	70	70
Condenser	Water Pipe Connection	2-DN125	2-DN125	2-DN125	2-DN125	2-DN125	2-DN125	2-DN125
	Cooled Water Flow	m ³ /h	123	130	130	145	145	160
	Hot Water Flow	m ³ /h	227	241	241	268	269	296
	Water Pressure Drop	kPa	45	45	45	60	60	60
Partial Heat Recovery (Optional)	Capacity	kW	266	282	282	315	315	347
	Water Flow	m ³ /h	46	49	49	54	54	60
	Pressure Drop	kPa	33	30	30	31	31	30
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45
Total Heat Recovery (Optional)	Capacity	kW	1440	1527	1527	1702	1702	1877
	Water Flow	m ³ /h	248	263	263	293	293	323
	Pressure Drop	kPa	38	38	38	37	37	37
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45
Net Weight	Kg	6600	6800	7000	7200	7400	8000	8200
Operating Weight	Kg	6790	7000	7200	7400	7550	8240	8350

Ground Source Heat Pump

Model		VWSN1920	VWSN2040	VWSN2200	VWSN2400	VWSN2640	VWSN2840	VWSN3200	VWSN3500	
Refrigerant		R22								
Cooling Capacity	kW	1920	2040	2200	2400	2640	2840	3130	3400	
Cooling Power Input	kW	360	386	405	450	490	530	590	650	
Heating Capacity	kW	2150	2300	2470	2750	2920	3170	3620	3870	
Heating Power Input	kW	455	500	530	590	635	690	770	850	
Max. Operating Current	A	888	978	1040	1180	424*3	444*3	611*3	520*3	
Energy Adjustment Range		12.5%~100%				8.3%~100%				
Refrigerant Circuit		2				3				
Compressor Quantity		2				3				
Compressor Type		Semi-Hermetic Twin Screw								
Noise(Standard)	dB(A)	81	82	82	82	82	83	85	88	
Noise(Noise-proof)	dB(A)	72	73	73	73	73	74	76	79	
Power	V/Ph/Hz	380/3/50 [*]								
Refrigerant Charge Amount	Kg	260	300	335	360	400	430	470	510	
Evaporator	Water Pipe Connection		DN250					DN300		
	Cooled Water Flow	m³/h	330	351	378	413	454	489	539	592
	Hot Water Flow	m³/h	175	188	204	222	242	262	291	320
	Water Pressure Drop	kPa	60	60	62	65	68	68	70	70
Condenser	Water Pipe Connection		2-DN150			3-DN125		3-DN150		
	Cooled Water Flow	m³/h	175	188	204	222	242	262	291	320
	Hot Water Flow	m³/h	330	351	378	413	454	489	539	592
	Water Pressure Drop	kPa	50	50	52	50	52	55	58	60
Partial Heat Recovery (Optional)	Capacity	kW	381	409	443	481	525	570	632	695
	Water Flow	m³/h	65	70	76	83	90	98	109	120
	Pressure Drop	kPa	32	32	32	33	33	32	32	33
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Total Heat Recovery (Optional)	Capacity	kW	2061	2214	2397	2604	2843	3082	3422	3763
	Water Flow	m³/h	357	381	412	448	489	530	589	647
	Pressure Drop	kPa	37	38	38	39	40	40	41	45
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Net Weight		Kg	8500	8800	9500	11000	11800	12800	13000	13500
Operating Weight		Kg	8750	9060	9780	11330	12150	13180	13390	13900

Note:

1- Cooling: Cooled water entering/leaving temperature 12/7°C; Cooling water entering/leaving temperature 18/29°C.

2- Heating: Cooling water entering 15°C, hot water entering 40°C.

3- Water side mas. bearing pressure: 1.0 MPa.

4- The data above is subject to change without prior notice.

* Various power supply are optional.

Specification II -Underground Piping Loop Condition

Model		VWSN430-G		VWSN480-G		VWSN540-G		VWSN700-G		VWSN780-G	
Refrigerant		R22	R134a	R22	R134a	R22	R134a	R22	R134a	R22	R134a
Cooling Capacity	kW	430	420	480	480	540	560	700	700	780	780
Cooling Power Input	kW	80	78	89	90	103	105	130	130	147	145
Heating Capacity	kW	410	425	470	500	520	560	695	700	840	790
Heating Power Input	kW	95	96	108	113	120	128	160	158	195	177
Max. Operating Current	A	258	228	258	260	292	295	348	400	416	435
Energy Adjustment Range		25%~100%									
Refrigerant Circuit		1									
Compressor Quantity		1									
Compressor Type		Semi-Hermetic Twin Screw									
Noise(Standard)	dB(A)	70	70	73	73	73	73	73	73	73	73
Noise(Noise-proof)	dB(A)	62	60	63	63	63	63	64	64	64	64
Power	V/Ph/Hz	380/3/50 ⁺									
Refrigerant Charge Amount		Kg	70	70	75	75	85	85	98	98	105
Evaporator	Water Pipe Connection	DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN150	DN150
	Cooled Water Flow	m ³ /h	74	72	83	83	93	96	121	121	134
	Hot Water Flow	m ³ /h	54	57	62	67	69	74	92	93	111
	Water Pressure Drop	kPa	60	60	55	60	65	65	70	70	55
Condenser	Water Pipe Connection	DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN150	DN150
	Cooled Water Flow	m ³ /h	88	86	98	98	111	115	143	143	160
	Hot Water Flow	m ³ /h	71	73	81	86	90	96	120	121	145
	Water Pressure Drop	kPa	45	45	65	45	65	50	65	53	65
Partial Heat Recovery (Optional)	Capacity	kW	70	72	80	85	88	95	118	119	143
	Water Flow	m ³ /h	12	12	14	15	15	16	20	20	25
	Pressure Drop	kPa	27	27	27	27	27	27	27	27	28
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Total Heat Recovery (Optional)	Capacity	kW	377	458	432	460	478	515	639	644	773
	Water Flow	m ³ /h	65	79	74	79	82	89	110	111	133
	Pressure Drop	kPa	33	33	34	34	35	35	34	34	35
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Net Weight		Kg	2640	2750	2800	2950	3250	3400	3550	3900	4000
Operating Weight		Kg	2740	2850	2950	3100	3360	3550	3800	4000	4200

Water cooled
chillers series

Model		VWSN860-G		VWSN960-G		VWSN1020-G	VWSN1080-G		VWSN1200-G	
Refrigerant		R22	R134a	R22	R134a	R22	R22	R134a	R22	R134a
Cooling Capacity	kW	860	860	960	960	1020	1080	1120	1200	1200
Cooling Power Input	kW	160	163	180	180	190	205	208	225	225
Heating Capacity	kW	880	885	940	1000	990	1040	1120	1180	1300
Heating Power Input	kW	203	200	216	226	228	240	256	275	270
Max. Operating Current	A	424	490	444	520	488	520	590	590	620
Energy Adjustment Range		25%~100%	25%~100%	25%~100%	12.5%~100%	25%~100%	25%~100%	12.5%~100%	25%~100%	12.5%~100%
Refrigerant Circuit		1	1	1	2	1	1	2	1	2
Compressor Quantity		1	1	1	2	1	1	2	1	2
Compressor Type		Semi-Hermetic Twin Screw								
Noise(Standard)	dB(A)	74	74	74	74	74	74	74	75	75
Noise(Noise-proof)	dB(A)	65	65	65	65	65	65	65	66	66
Power	V/Ph/Hz	380/3/50 ⁺								
Refrigerant Charge Amount		Kg	130	130	145	145	165	170	170	188
Evaporator	Water Pipe Connection	DN150	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200
	Cooled Water Flow	m ³ /h	148	148	165	165	176	186	183	207
	Hot Water Flow	m ³ /h	117	118	125	133	131	138	149	156
	Water Pressure Drop	kPa	60	60	55	55	65	70	70	60
Condenser	Water Pipe Connection	DN150	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200
	Cooled Water Flow	m ³ /h	160	176	197	196	208	221	229	245
	Hot Water Flow	m ³ /h	146	152	161	171	171	179	193	203
	Water Pressure Drop	kPa	45	45	65	45	65	55	55	45
Partial Heat Recovery (Optional)	Capacity	kW	150	150	160	170	168	177	190	204
	Water Flow	m ³ /h	26	26	28	29	29	30	33	35
	Pressure Drop	kPa	32	32	30	30	32	32	32	32
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Total Heat Recovery (Optional)	Capacity	kW	810	814	865	920	911	957	1030	1088
	Recovery Water	m ³ /h	139	140	149	158	157	165	177	187
	Pressure Drop	kPa	36	36	37	37	37	36	36	37
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Net Weight		Kg	3890	4100	4210	4350	4740	4740	4740	5600
Operating Weight		Kg	4020	4250	4350	4500	4900	4900	4900	5900

Ground Source Heat Pump

Model		VWSN1320-G	VWSN1400-G		VWSN1560-G		VWSN1720-G	
Refrigerant		R22	R22	R134a	R22	R134a	R22	R134a
Cooling Capacity	kW	1320	1400	1400	1560	1560	1720	1720
Cooling Power Input	kW	245	260	260	290	287	320	320
Heating Capacity	kW	1300	1450	1450	1580	1580	1730	1770
Heating Power Input	kW	300	330	320	360	354	400	400
Max. Operating Current	A	680	756	800	794	870	832	980
Energy Adjustment Range		12.5%~100%						
Refrigerant Circuit		2						
Compressor Quantity		2						
Compressor Type		Semi-Hermetic Twin Screw						
Noise(Standard)	dB(A)	74	74	74	74	74	81	81
Noise(Noise-proof)	dB(A)	65	65	65	65	65	72	72
Power		380/3/50 ⁺						
Refrigerant Charge Amount		195	210	230	245	245	260	260
Evaporator	Water Pipe Connection	DN200	DN200	DN200	DN200	DN200	DN200	DN200
	Cooled Water Flow	m ³ /h	227	241	269	269	296	296
	Hot Water Flow	m ³ /h	172	192	210	211	229	236
	Water Pressure Drop	kPa	60	60	65	68	70	70
Condenser	Water Pipe Connection	2-DN125	2-DN125	2-DN125	2-DN125	2-DN125	2-DN125	2-DN125
	Cooled Water Flow	m ³ /h	270	286	319	318	351	351
	Hot Water Flow	m ³ /h	224	249	272	272	297	305
	Water Pressure Drop	kPa	45	45	45	50	55	55
Partial Heat Recovery (Optional)	Capacity	kW	221	238	263	269	287	301
	Water Flow	m ³ /h	38	41	45	46	49	52
	Pressure Drop	kPa	33	30	31	31	30	30
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45
Total Heat Recovery (Optional)	Capacity	kW	1196	1288	1421	1454	1555	1628
	Water Flow	m ³ /h	206	222	245	250	268	280
	Pressure Drop	kPa	38	38	38	37	37	37
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45
Net Weight		kg	6600	6800	7200	7400	8000	8200
Operating Weight		kg	6790	7000	7200	7400	8240	8350

Model		VWSN1920-G	VWSN2040-G	VWSN2200-G	VWSN2400-G	VWSN2640-G	VWSN2840-G	VWSN3200-G	VWSN3500-G	
Refrigerant		R22								
Cooling Capacity	kW	1920	2040	2200	2400	2640	2840	3130	3440	
Cooling Power Input	kW	360	386	405	450	490	530	590	650	
Heating Capacity	kW	1880	1980	2080	2380	2800	2900	3160	3460	
Heating Power Input	kW	432	456	480	550	500	660	720	800	
Max. Operating Current	A	888	976	1040	1180	424*3	444*3	511*3	520*3	
Energy Adjustment Range		12.5%~100%				8.3%~100%				
Refrigerant Circuit		2				3				
Compressor Quantity		2				3				
Compressor Type		Semi-Hermetic Twin Screw								
Noise(Standard)	dB(A)	81	82	82	82	82	83	85	88	
Noise(Noise-proof)	dB(A)	72	73	73	73	73	74	76	79	
Power	V/Ph/Hz	380/3/50 ⁺								
Refrigerant Charge Amount		Kg	260	300	335	360	400	430	470	510
Evaporator	Water Pipe Connection		DN250	DN250	DN250	DN250	DN250	DN250	DN300	DN300
	Cooled Water Flow	m³/h	331	351	379	413	455	489	539	593
	Hot Water Flow	m³/h	249	263	276	312	344	385	420	458
	Water Pressure Drop	kPa	60	60	62	65	68	68	70	70
Condenser	Water Pipe Connection		2-DN150	2-DN150	2-DN150	2-DN150	3-DN125	3-DN125	3-DN150	3-DN150
	Cooled Water Flow	m³/h	393	418	449	491	539	580	641	704
	Hot Water Flow	m³/h	324	341	358	407	448	499	544	595
	Water Pressure Drop	kPa	50	50	52	50	52	55	58	60
Partial Heat Recovery Capacity		kW	320	337	354	401	442	476	525	575
Partial Heat Recovery Water Flow		m³/h	55	58	61	69	76	82	90	99
Partial Heat Recovery Pressure Drop		kPa	32	32	33	33	32	32	32	33
Total Heat Recovery Capacity		kW	1760	1822	1914	2171	2392	2576	2843	3110
Total Heat Recovery Water Flow		m³/h	139	144	150	167	180	199	216	236
Total Heat Recovery Pressure Drop		kPa	36	38	38	39	40	40	41	45
Net Weight		Kg	8500	8800	9500	11000	11800	12800	13000	13500
Operating Weight		Kg	8750	9060	9780	11330	12150	13180	13390	13900

Note: 1- Cooling: Cooled water entering/leaving temperature 12/7°C; Cooling water entering/leaving temperature 25/30°C

2- Water side max. bearing pressure: 1.0 MPa.

⁺ Various power supply are optional.

Modular Water Cooled Water Chiller

VWMA-80-360 K

VWMA: Cooling Only

Cooling Capacity: 76-360KW



- ◆ Modular design, convenient for load extension, the cost can be invested separately according to actual situation, it can reduce the initial cost.
- ◆ Modular parallel design, compressor parallel connection design, wider operation range, and the output cooling capacity exactly meet the cooling load, reduce idling energy consumption for energy saving.
- ◆ Optional fully closed soundproof design, reduce the sound pollution.
- ◆ Each modular work independently, if malfunction happened to one module, the other module work normally without any influence.
- ◆ When starting, each modular starts in turn, lower down the starting current, improve the safety performance.

Optional accessories

- ◆ Step-less adjustment ◆ Soft start ◆ Heat recovery ◆ Metal casing ◆ Soundproof box ◆ Anti-corrosion
- ◆ Rubber isolator ◆ Electric expansion valve ◆ Rectangular base ◆ Remote control ◆ Flow switch

Specification

Model		VWMA80-K		VWMA120-K		VWMA160-K		VWMA260-K		VWMA360-K
Refrigerant	-	R22	R134a	R22	R134a	R22	R134a	R22	R134a	R22
Cooling capacity	kW	76	78	115	104	160	159	260	225	360
Total power input	kW	16	17	24	22	32	35	51	48	70
EER/COP		4.8	4.6	4.8	4.7	5	4.5	5.1	4.7	5.1
Max. operating current	A	52	87	78	116	104	177	168	232	232
Compressor	Type	Full-Hermetic scroll								
	Qty.	-	2	3	4	4	4	4	4	4
Circuit		-	2	2	2	2	2	2	2	2
Power supply	-	380V/3PH/50HZ ⁺								
Refrigerant charge amount	Kg	11	16	16	22	22	38	38	51	51
Evaporator (AC side)	Water in/out temp. °C	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7
	Water flow m ³ /h	13	13	20	18	28	27	45	37	62
	Water resistance kPa	21	21	31	31	42	42	62	62	85
Condenser (heat source side)	Water in/out temp. °C	30/35	30/35	30/35	30/35	30/35	30/35	30/35	30/35	30/35
	Water flow m ³ /h	16	16	24	22	33	33	53	45	74
	Water resistance kPa	22	22	33	33	42	42	63	63	86
Partial heat recovery (optional)	Capacity kW	15	15	23	23	32	32	52	52	72
	Water flow m ³ /h	3	3	4	4	6	6	9	9	12
	Water resistance kPa	28	28	32	32	35	35	38	38	40
Full heat recovery (optional)	Water in/out temp. °C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
	Capacity kW	80	80	130	130	180	180	290	290	400
	Water flow m ³ /h	14	14	22	22	31	31	50	50	69
Water pipe dimension	Water resistance kPa	23	23	34	34	45	45	65	65	87
	Water in/out temp. °C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
		DN65	DN65	DN65	DN65	DN80	DN80	DN100	DN100	DN100
Net dimension	Length mm	2240	2600	2600	2800	2800	3150	3150	3450	3450
	Width mm	600	600	600	760	760	810	810	800	800
	Height mm	1315	1330	1330	1450	1450	1660	1660	1670	1670
Shipping dimension	Length mm	2350	2760	2760	2970	2970	3300	3300	3660	3660
	Width mm	730	740	740	900	900	900	900	900	900
	Height mm	1465	1480	1480	1600	1600	1810	1810	1820	1820
Weight	Net Kg	520	750	750	1100	1100	1650	1650	2100	2100
	Operating Kg	580	840	840	1200	1200	1800	1800	2300	2300
Noise	dB(A)	62	62	63	63	64	64	66	66	66

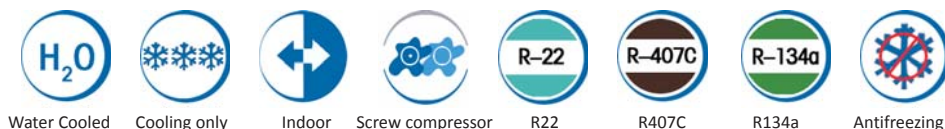
Note:

1-Water side max. bearing pressure: 1.0MPa

2-Units with heat recovery function will have different dimensions.

* Various power supply are optional.

VWSA: Cooling Only
Cooling Capacity: 220-3100KW



- ◆ Strong and weak electrical devices in separate control box for safety insurance.
- ◆ Imported semi hermetic screw compressor with obvious energy saving effect.
- ◆ DAE/DAC high efficient heat transfer tube, improve the heat exchange efficiency.
- ◆ Automatic malfunction judgment, alarm and historical error record tracing.
- ◆ Fully automatic energy saving operation: Automatic compressor energy adjustment as per load requirement.

Optional accessories

- ◆ Step-less adjustment ◆ Soft start ◆ Heat recovery ◆ Water side pressure 2.0Mpa ◆ Soundproof box
- ◆ Anti-corrosion ◆ Rubber isolator ◆ Electric expansion valve ◆ Rectangular base ◆ Remote control ◆ Flow switch

Specification I

Model			VWSA220	VWSA260	VWSA340	VWSA380	VWSA430		VWSA480		VWSA560		VWSA660	
Refrigerant			R22 R407C	R22 R407C	R22 R407C	R22 R407C	R22 R407C	R134a	R22 R407C	R134a	R22 R407C	R134a	R22 R407C	R134a
Cooling Capacity	kW		220	260	340	380	430	420	480	480	560	560	660	680
Total Power Input	kW		44	53	70	76	88	84	96	95	112	111	132	135
Max. Operating Current	A		108	119	192	196	217	199	246	229	275	266	339	330
Energy Steps			25%~100%											
Refrigerant Circuit			Nos											
Compressor Quantity			Nos											
Compressor Type			Semi-Hermetic Twin Screw											
Noise(Standard)	dB(A)		65	69	69	71	70	70	70	73	73	73	73	73
Power			380V/3Ph/50Hz*											
Chilled Water	Water in/out Temp.	°C	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7
	Water Flow	m³/h	38	45	59	69	74	72	83	83	96	96	114	117
	Water Pressure Drop	kPa	50	44	50	50	50	50	50	55	65	85	65	75
	Water Pipe Connection		DN80	DN80	DN100	DN100	DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN125
Cooling Water	Water in/out Temp.	°C	30/35	30/35	30/35	30/35	30/35	30/35	30/35	30/35	30/35	30/35	30/35	30/35
	Water Flow	m³/h	46	53	70	83	89	87	99	99	116	116	136	140
	Water Pressure Drop	kPa	55	50	55	55	55	55	55	55	58	58	58	58
	Water Pipe Connection		DN80	DN80	DN100	DN100	DN125	DN125	DN125	DN125	DN125	DN125	DN150	DN150
Partial Heat Recovery (Optional)	Capacity	kW	44	52	68	80	86	84	96	96	112	112	132	136
	Water Flow	m³/h	7.6	9.0	11.7	14	15	15	17	17	19	19	23	23
	Pressure Drop	kPa	25	25	28	30	32	32	32	32	33	33	34	34
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Total Heat Recovery (Optional)	Capacity	kW	240	282	369	444	477	464	530	529	619	617	731	750
	Water Flow	m³/h	41	48.6	63.5	76	82	80	91	91	106	106	126	129
	Pressure Drop	kPa	27	27	31	37	38	38	37	37	38	38	38	38
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Net Weight			Kg	1700	1850	2200	2500	2550	2750	3150	3250	3450	3550	3600
Operating Weight			Kg	1790	1940	2300	2620	2670	2900	3300	3400	3580	3680	3740

Note:

1. Water side max. bearing pressure: 1.0MPa.
2. The data above is subject to change without prior notice.

* Various power supply are optional.

Specification II

Model			VWSA760		VWSA900		VWSA960		VWSA1120		VWSA1320		VWSA1520	
Refrigerant			R22 R407C	R134a	R22 R407C	R134a	R22 R407C	R134a	R22 R407C	R134a	R22 R407C	R134a	R22 R407C	R134a
Cooling Capacity	kW		760	780	900	900	960	960	1120	1120	1320	1320	1520	1520
Total Power Input	kW		152	156	180	180	192	192	224	222	264	260	308	300
Max. Operating Current	A		400	367	418	214*2	520	229*2	540	266*2	678	330*2	800	367*2
Energy Steps			25%~100%	25%~100%	25%~100%	12.5%~100%	25%~100%	12.5%~100%	25%~100%	12.5%~100%	12.5%~100%			
Refrigerant Circuit	Nos		1	1	1	2	1	2	1	2	2	2	2	2
Compressor Quantity	Nos		1	1	1	2	1	2	1	2	2	2	2	2
Compressor Type			Semi-Hermetic Twin Screw											
Noise(Standard)	dB(A)		73	73	75	76	75	76	74	74	74	74	74	74
Power			380V/3Ph/50Hz *											
Chilled Water	Water in/out Temp.	°C	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7
	Water Flow	m³/h	131	134	155	155	165	165	193	193	227	227	262	262
	Water Pressure Drop	kPa	55	85	50	50	55	50	55	50	55	55	60	60
	Water Pipe Connection		DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200	DN200	DN200	DN200	DN200
Cooling Water	Water in/out Temp.	°C	30/35	30/35	30/35	30/35	30/35	30/35	30/35	30/35	30/35	30/35	30/35	30/35
	Water Flow	m³/h	157	161	186	186	198	198	231	231	273	273	315	315
	Water Pressure Drop	kPa	58	58	60	60	60	60	60	60	60	60	65	65
	Water Pipe Connection		DN150	DN150	DN150	2*DN125	DN200	2*DN125	DN200	2*DN125	2*DN125	2*DN125	2*DN150	2*DN150
Partial Heat Recovery (Optional)	Capacity	kW	152	156	180	180	192	192	224	224	264	264	304	304
	Water Flow	m³/h	26	27	31	31	33	33	39	39	45	45	52	52
	Pressure Drop	kPa	34	34	34	34	32	32	32	32	33	33	34	34
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Total Heat Recovery (Optional)	Capacity	kW	841	861	995	994	1062	1058	1238	1235	1463	1463	1682	1674
	Water Flow	m³/h	145	148	171	171	183	182	213	213	252	252	289	288
	Pressure Drop	kPa	38	38	39	39	37	37	39	39	39	39	38	38
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Net Weight	Kg		3800	3900	3890	4300	4650	4800	5400	5500	6400	6400	8000	8200
Operating Weight	Kg		3950	4100	4020	4450	4830	4950	5610	5700	6650	6650	8320	8400

Note:

1. Water side max. bearing pressure: 1.0MPa.
 2. The data above is subject to change without prior notice.
- * Various power supply are optional.

Water Cooled Water Chiller

Specification III

Model			VWSA1660	VWSA1800	VWSA1920	VWSA2080	VWSA2240	VWSA2480	VWSA2720	VWSA3100
Refrigerant			R22/R407C							
Cooling Capacity		kW	1660	1800	1920	2080	2240	2480	2720	3100
Total Power Input		kW	336	362	388	420	459	498	548	624
Max. Operating Current		A	418*2	418*2	520*2	520*2	590*2	407*3	416*3	444*3
Energy Steps			12.5%-100%					8.3%-100%		
Refrigerant Circuit		Nos	2					3		
Compressor Quantity		Nos	2					3		
Compressor Type			Semi-Hermetic Twin Screw							
Noise(Standard)		dB(A)	79	80	80	81	81	81	83	83
Power		-	380V/3Ph/50Hz [*]							
Chilled Water	Water in/out Temp.	°C	12/7	12/7	12/7	12/7	12/7	12/7	12/7	12/7
	Water Flow	m³/h	250	305	345	370	400	438	480	545
	Water Pressure Drop	kPa	53	53	53	55	55	60	60	60
	Water Pipe Connection		DN200	DN200	DN250	DN250	DN250	DN250 + DN200		
Cooling Water	Water in/out Temp.	°C	30/35	30/35	30/35	30/35	30/35	30/35	30/35	30/35
	Water Flow	m³/h	342	372	397	428	462	511	562	641
	Water Pressure Drop	kPa	60	60	60	65	65	65	65	65
	Water Pipe Connection		2*DN150	2*DN150	2*DN200	2*DN200	2*DN200	3*DN200	3*DN200	3*DN200
Partial Heat Recovery (Optional)	Capacity	kW	332	360	384	416	448	496	544	620
	Water Flow	m³/h	57	62	66	72	77	85	94	107
	Pressure Drop	kPa	35	35	35	35	35	35	35	35
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Total Heat Recovery (Optional)	Capacity	kW	1836	1989	2123	2300	2483	2740	3007	3426
	Water Flow	m³/h	316	342	365	396	427	471	517	589
	Pressure Drop	kPa	39	39	39	39	39	39	39	39
	Water in/out Temp.	°C	40/45	40/45	40/45	40/45	40/45	40/45	40/45	40/45
Net Weight		Kg	8500	8800	9500	11000	11800	12800	13000	13500
Operating Weight		Kg	8750	9060	9780	11280	12100	13130	13330	13850

Note:

1. Water side max. bearing pressure: 1.0MPa.
 2. The data above is subject to change without prior notice.
- * Various power supply are optional.

VCA/VCN021-072

VEA/VED021-072

Ducted Split Units

Cooling Capacity: 21-71.4kW

Heating Capacity: 23.1-80.6kW



Air cooled



Heat pump



Cooling Only



Scroll compressor



R22



R407C



Anti-freezing



- ◆ Applicable to area of 120m²-600m² such as schools, factories, supermarkets, shopping centers, entertainment lieu, luxury residences and so on.
- ◆ High static pressure heads making distant air supply realized, convenient for installation.
- ◆ Adopting multi-blade pitch centrifugal fan, energy saving and low noise.
- ◆ High efficiency, low noise centrifugal fan motor, with sound-absorbing and heat preservation material makes low noise operation realized.
- ◆ Indoor unit can be ceiling-mounted, reducing noise to the lowest level.
- ◆ Intelligent control, easy operation.

Specification I -50Hz

Model		Indoor	VED(A)021	VED(A)024	VED(A)028	VED(A)032	VED(A)036	VED(A)048	VED(A)062	VED(A)072
		Outdoor	VCN(A)021	VCN(A)024	VCN(A)028	VCN(A)032	VCN(A)036	VCN(A)048	VCN(A)062	VCN(A)072
Nominal cooling capacity		(R22)kW	21	23.8	27.6	31.4	35.6	47.6	63.5	71.4
Nominal cooling capacity		(R407c)kW	20.16	22.85	26.50	30.14	34.18	45.22	60.33	67.83
Nominal heating capacity		(R22)kW	23.1	26.2	30.3	35.4	40.4	55.2	72.8	80.6
Nominal heating capacity		(R407c)kW	22.18	25.15	29.09	33.98	38.78	52.44	69.16	76.57
Power input	Cooling	kW	8.1	8.7	11.2	11.6	13.4	17.7	24.1	26.3
Power input	Heating	kW	7.8	8.4	10.8	11.4	13.1	17.5	23.3	25.5
Current input	Cooling	A	15.8	16.16	20.8	21.53	24.89	32.79	44.74	48.82
Current input	Heating	A	14.9	15.56	20.1	21.09	24.23	32.37	43.23	47.26
Refrigerant	Type		R22/R407C							
	Charge	Kg	2x2.8	2x3.4	2x4.1	2x4.5	2x5.2	9+4.5	2x9.5	2x10.5
Connect pipe	Method		Welding							
	Liquid	mm	12.7/12.7	12.7/12.7	12.7/12.7	12.7/12.7	12.7/12.7	12.7/15.88	15.88/15.88	15.88/15.88
	Gas	mm	19.05/19.05	19.05/19.05	19.05/19.05	19.05/19.05	19.05/19.05	19.05/28	28/28	28/28
Outdoor unit	Panel	-	Electrostatic spraying galvanized steel sheet							
	Coil		Copper tube with hydrophilic aluminium coil							
Indoor unit	Air flow	m3/h	4400	4400	4400	5800	6400	8700	11640	13000
	ESP	Pa	100	100	100	150	150	200	300	300
	Fan type	-	Single speed							
	Coil	-	Copper tube with plain aluminium coil							
	Panel	-	Galvanized steel sheet					Electrostatic spraying galvanized steel sheet		
	Insulation	-	10mm thickness rubber plastic							
	Return air filter	-	Nylon							
Dimension	Outdoor	mm	1120x830x1030	1120x830x1030	1180x960x1130	1180x960x1130	1180x960x1130	1640x880x1130	1840x970x1130	2120x970x1130
	Indoor	mm	1660x915x480	1660x915x480	1660x915x480	1660x915x580	1660x915x580	2065x1160x680	1870x1230x980	1870x1230x1080
Power		-	380V/3Ph/50Hz							
Noise	Outdoor	dB(A)	60	60	61	61	61	67	67	68
	Indoor	dB(A)	55	55	60	60	61	63	65	66
Weight	Outdoor	Kg	180	190	220	240	250	280	340	460
	Indoor	Kg	95	105	120	150	160	200	230	300
Condensing pipe			G1	G1	G1	G1	G1	G1	G1	G1

NOTES: 1. Cooling conditioning: Indoor temperature DB: 27°C, WB: 19°C; outdoor temperature DB: 35°C, WB: 24°C.

Heating conditioning: Indoor temperature DB: 20°C, WB: 15°C; outdoor temperature DB: 7°C, WB: 6°C.

2. The static pressure outside is measured under Nominal Airflow.

3. The data above is obtained from the connection pipe diameter as 7.5m.

4. Nominal air flow is the air flow at high speed status.

5. Using heat pump unit, customer can choose the electric heater

Ducted Split Units

Specification II -60Hz

Model		Indoor	VED(A)021	VED(A)024	VED(A)028	VED(A)032	VED(A)036	VED(A)048	VED(A)062	VED(A)072
		Outdoor	VCN(A)021	VCN(A)024	VCN(A)028	VCN(A)032	VCN(A)036	VCN(A)048	VCN(A)062	VCN(A)072
Nominal cooling capacity		(R22)kW	21	23.8	27.6	31.4	35.6	47.6	63.5	71.4
Nominal cooling capacity		(R407c)kW	20.16	22.85	26.50	30.14	34.18	45.22	60.33	67.83
Nominal heating capacity		(R22)kW	23.1	26.2	30.3	35.4	40.4	55.2	72.8	80.6
Nominal heating capacity		(R407c)kW	22.18	25.15	29.09	33.98	38.78	52.44	69.16	76.57
Power input	Cooling	kW	8.3	8.9	11.8	12.2	13.9	18.5	25.1	27.1
Power input	Heating	kW	7.9	8.5	11.2	12.0	13.6	17.9	24.3	25.9
Current input	Cooling	A	35.8	40.9	50.2	55.4	60.8	60.3	65.6	79.8
Current input	Heating	A	34.9	40.2	49.5	54.5	59.8	59.6	64.8	78.8
Refrigerant	Type		R22/R407c							
	Charge	Kg	2x2.8	2x3.4	2x4.1	2x4.5	2x5.2	9+4.5	2x9.5	2x10.5
Connect Pipe	Method		Welding							
	Liquid	mm	12.7/12.7	12.7/12.7	12.7/12.7	12.7/12.7	12.7/12.7	12.7/15.88	15.88/15.88	15.88/15.88
	Gas	mm	19.05/19.05	19.05/19.05	19.05/19.05	19.05/19.05	19.05/19.05	19.05/28	28/28	28/28
Indoor unit	Air flow	m ³ /h	4400	4400	4400	5800	6400	8700	11640	13000
	ESP	Pa	100	100	100	150	150	200	300	300
	Fan type	-	Single speed							
Dimension	Outdoor	mm	1120x830x1030	1120x830x1030	1180x960x1130	1180x960x1130	1180x960x1130	1640x880x1130	1840x970x1130	2120x970x1130
	Indoor	mm	1660x915x480	1660x915x480	1660x915x480	1660x915x580	1660x915x580	2065x1160x680	1870x1230x980	1870x1230x1080
Power		-	220V/3Ph/60Hz							
Noise	Outdoor	dB(A)	60	60	61	61	61	67	67	68
	Indoor	dB(A)	55	55	60	60	61	63	65	66
Weight	Outdoor	Kg	180	190	220	240	250	280	340	460
	Indoor	Kg	95	105	120	150	160	200	230	300
Condensing pipe			G1	G1	G1	G1	G1	G1	G1	G1

NOTES: 1. Cooling conditioning: Indoor temperature DB: 27°C, WB: 19°C; outdoor temperature DB: 35°C, WB: 24°C.

Heating conditioning: Indoor temperature DB: 20°C, WB: 15°C; outdoor temperature DB: 7°C, WB: 6°C.

2. The static pressure outside is measured under Nominal Airflow.

3. The data above is obtained from the connection pipe diameter as 7.5m.

4. Nominal air flow is the air flow at high speed status.

5. Using heat pump unit, customer can choose the electric heater

Specification III -T3

Model		Indoor	VED(A)021	VED(A)024	VED(A)028	VED(A)032	VED(A)036	VED(A)048	VED(A)062	VED(A)072
		Outdoor	VCN(A)021	VCN(A)024	VCN(A)028	VCN(A)032	VCN(A)036	VCN(A)048	VCN(A)062	VCN(A)072
Nominal cooling capacity A		kW (R22)	21	23.8	27.6	31.4	35.6	47.6	63.5	71.4
		kW (R407C)	19.9	22.6	26.2	29.8	33.8	45.2	60.3	67.8
Nominal cooling capacity B		kW (R22)	18.9	21.4	24.8	28.3	32.1	42.8	57.2	64.3
		kW (R407C)	17.9	20.3	23.6	26.9	30.5	40.6	54.6	60.1
Power input	Cooling	kW	8.1	8.7	11.2	11.6	13.4	17.7	24.1	26.3
Current input	Cooling	A	15.8	16.16	20.8	21.53	24.89	32.79	44.74	48.82
Refrigerant	Type		R22/R407c							
	Charge	Kg	2x2.8	2x3.4	2x4.1	2x4.5	2x5.2	9+4.5	2x9.5	2x10.5
Connect Pipe	Method		Welding							
	Liquid	mm	12.7/12.7	12.7/12.7	12.7/12.7	12.7/12.7	12.7/12.7	12.7/15.88	15.88/15.88	15.88/15.88
	Gas	mm	19.05/19.05	19.05/19.05	19.05/19.05	19.05/19.05	19.05/19.05	19.05/28	28/28	28/28
Indoor unit	Air flow	m ³ /h	4400	4400	4400	5800	6400	8700	11640	13000
	ESP	Pa	100	100	100	150	150	200	300	300
	Fan type	-	Single speed							
Dimension	Outdoor	mm	1120x830x1030	1120x830x1030	1180x960x1130	1180x960x1130	1180x960x1130	1640x880x1130	1840x970x1130	2120x970x1130
	Indoor	mm	1660x915x480	1660x915x480	1660x915x480	1660x915x580	1660x915x580	2065x1160x680	1870x1230x980	1870x1230x1080
Power		-	380V/3Ph/50Hz							
Noise	Outdoor	dB(A)	60	60	61	61	61	67	67	68
	Indoor	dB(A)	55	55	60	60	61	63	65	66
Weight	Outdoor	Kg	180	190	220	240	250	280	340	460
	Indoor	Kg	95	105	120	150	160	200	230	300
Condensing pipe			G1	G1	G1	G1	G1	G1	G1	G1

NOTES: 1. Cooling conditioning A: Indoor temperature DB: 27°C, WB: 19°C; outdoor temperature DB: 35°C, WB: 24°C.

Cooling conditioning B: Indoor temperature DB: 29°C, WB: 19°C; outdoor temperature DB: 46°C, WB: 24°C.

2. The static pressure outside is measured under Nominal Airflow.

3. The data above is obtained from the connection pipe diameter as 7.5m.

4. Nominal air flow is the air flow at high speed status.

VRPA/VRPN036-480

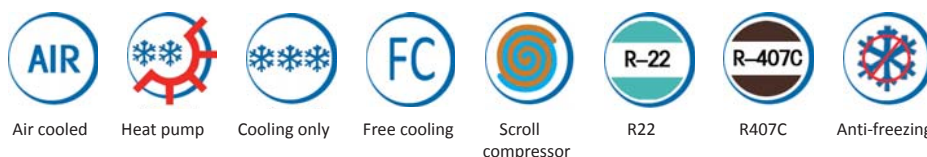
VRPA: Cooling only

VRPN: Heat pump

Cooling capacity: 10-141kW

Heating capacity: 11-145kW

Rooftop Packaged Unit



- ◆ Weather proof, polyester epoxy power electrostatic paint oven-baked finish for sheet metal and multi epoxy polyester coating for base frame for maximum protection
- ◆ Intelligent control-Parameters of unit are monitored and adjusted by microcomputer system.
- ◆ High efficiency- thanks to high efficient scroll compressors mounted with anti-vibration..
- ◆ Immediate operability - Quick start-up is assured once installation is complete.
- ◆ Safety and reliability -Complete unit control function, multi protection, safe and reliable operation.
- ◆ Quiet Operation:This type are basically constructed and engineered with noise reduction as a first consideration (low noise mounted fans are used. Fiber glass insulation for evaporator section and compressor are mounted on vibration isolators.)

Specification I -Cooling Only & 50Hz

Model		VRPA036A5	VRPA048A5	VRPA060A5	VRPA072A5	VRPA096A5	VRPA125A5	VRPA168A5	VRPA250A5	VRPA300A5	VRPA360A5	VRPA480A5
Cooling Capacity	(R22)kW	10.6	14.0	17.6	21.1	28.2	36.7	49.3	73.3	88.0	105.5	141
Cooling Capacity	(R407c)kW	10.0	13.4	16.7	20.0	26.7	34.8	46.8	69.6	83.6	100.3	133
Cooling Input(R407c)	kW	4.16	5.82	6.68	8.42	11.44	13.1	18.72	29.12	35.36	41.6	60
Circuit number		1	1	1	2	2	2	2	2	2	2	2
Power	V/Ph/Hz	380/3/50										
Refrigerant		R22/R407C										
Compressor	Type	Hermetically Sealed Scroll Compressor										
Cond. fan	Type	Axial fan										
	Drive	Direct										
Supply fan	Type	Direct driven centrifugal fan								Belt driven centrifugal fan		
Air flow	m ³ /h	2100	2700	3400	4200	5200	6000	8000	12500	17000	21800	24000
Max ESP	Pa	50	50	50	150	150	250	250	250	300	300	700
Noise	dB(A)	57	58	59	63	64	65	68	72	75	77	90
Return air filter	-	Nylon										
Panel	-	Galvanized steel sheet										
Insulation	-	10mm thickness rubber and plastic										
Ref. Charge	Kg	1.6	2.0	2.2	2.7 X 2	3.0 X 2	5.0 X 2	6.3+3.5	7.6 X 2	9 X 2	10 X 2	17 X 2
Dimension(mm)	Length	1150	1150	1150	1685	1685	2010	2010	2845	3445	3445	4660
	Width	735	735	735	1110	1110	1165	1165	2115	2115	2115	2190
	Height	850	850	850	1045	1045	1155	1155	1195	1195	1195	2270
Weight	Kg	160	170	170	260	310	384	400	860	1400	1480	2500

NOTES:

- Cooling conditioning: Indoor temperature DB: 27°C, WB: 19°C; Outdoor temperature DB: 35°C,WB: 24°C.
- Aluminium filter is optional

Rooftop Packaged Unit

Specification II - Cooling Only & 60Hz

Model		VRPA072A2	VRPA096A2	VRPA125A2	VRPA168A2	VRPA250A2	VRPA300A2	VRPA360A2	VRPA480A2
Cooling Capacity	(R22)kW	21.1	28.2	36.7	49.3	73.3	88.0	105.5	135
Cooling Capacity	(R407c)kW	20.0	26.7	34.8	46.8	69.6	83.6	100.3	130
Cooling Input(R407c)	kW	8.42	11.44	13.1	18.72	29.12	35.36	41.6	58
Circuit number		2	2	2	2	2	2	2	2
Power	V/Ph/Hz	220/3/60							
Refrigerant		R22/R407c							
Compressor	Type	Hermetically Sealed Scroll Compressor							
Cond. fan	Type	Axial fan							
	Drive	Direct							
Supply fan	Type	Direct driven centrifugal fan					Belt driven centrifugal fan		
Air flow	m ³ /h	4200	5200	6000	8000	12500	17000	21800	24000
Max ESP	Pa	150	150	250	250	250	300	300	700
Noise	dB(A)	63	64	65	68	72	75	77	90
Return air filter	-	Nylon							
Panel	-	Galvanized steel sheet							
Insulation	-	10mm thickness rubber and plastic							
Ref. Charge	kg	2.7X 2	3.0 X 2	5.0X 2	6.3+3.5	7.6 X 2	9 X 2	10 X 2	17 X 2
Dimension(mm)	Length	1685	1685	2010	2010	2845	3445	3445	4660
	Width	1110	1110	1165	1165	2115	2115	2115	2190
	Height	1045	1045	1155	1155	1195	1195	1195	2270
Weight	Kg	260	310	384	600	860	1400	1480	2500

NOTES:

1. Cooling conditioning: Indoor temperature DB: 27°C, WB: 19°C; outdoor temperature DB: 35°C, WB: 24°C;

2. Aluminium filter is optional.

* Various power supply are optional.

Specification III -Heat Pump & 50Hz

Model		VRPN036A5	VRPN048A5	VRPN060A5	VRPN072A5	VRPN096A5	VRPN125A5	VRPN168A5	VRPN250A5	VRPN300A5	VRPN360A5	VRPN480A5
Cooling Capacity	(R22)kW	10.6	14.0	17.6	21.1	28.2	36.7	49.3	73.3	88.0	105.5	141
Cooling Capacity	(R407c)kW	10.0	13.4	16.7	20.0	26.7	34.8	46.8	69.6	83.6	100.3	135
Heating Capacity	(R22)kW	11.0	15.6	18.0	21.6	28.7	37.4	50.4	75.3	89.4	107.3	145
Heating Capacity	(R407c)kW	10.4	14.8	17.2	20.6	27.2	35.6	47.8	71.5	85.0	102.0	140
Cooling Input(R407c)	kW	4.16	5.82	6.86	8.42	11.44	13.1	18.72	29.12	35.36	41.6	60
Heating Input(R407c)	kW	3.75	4.89	6.19	8.22	10.92	12.7	17.89	27.9	37.4	43.7	62.8
Circuit number		1	1	1	2	2	2	2	2	2	2	2
Power	V/Ph/Hz	380/3/50 *										
Compressor	Type	Hermetically Sealed Scroll Compressor										
Cond. fan	Type	Axial fan										
	Drive	Direct										
Supply fan	Type	Direct driven centrifugal fan							Belt driven centrifugal fan			
Air flow	m ³ /h	2100	2700	3400	4200	5200	6000	8000	12500	17000	21800	24000
Max ESP	Pa	50	50	50	150	150	250	250	250	300	300	700
Noise	dB(A)	57	58	59	63	64	65	68	72	75	77	90
Return air filter	-	Nylon										
Panel	-	Galvanized steel sheet										
Insulation	-	10mm thickness rubber and plastic										
Ref. Charge	Kg	2.5	3.1	3.8	2.7X2	3.0X2	5.0X2	6.5+3.7	7.6X2	9X2	10X2	17X2
Dimension(mm)	Length	1300	1300	1300	1685	1685	2010	2010	2845	3445	3445	4660
	Width	970	970	970	1110	1110	1165	1165	2115	2115	2115	2190
	Height	790	790	790	1045	1045	1155	1155	1195	1195	1195	2270
Weight	Kg	165	210	210	260	310	384	600	860	1500	1580	2500

NOTES:

1. Cooling conditioning: Indoor temperature DB: 27°C, WB: 19°C; outdoor temperature DB: 35°C, WB: 24°C.

2. Heating conditioning: Indoor temperature DB: 20°C, WB: 15°C; outdoor temperature DB: 7°C, WB: 6°C.

3. Aluminium filter is optional.

* Various power supply are optional.

Specification IV -Heat Pump & 60Hz

Model		VRPN072A2	VRPN096A2	VRPN125A2	VRPN168A2	VRPN250A2	VRPN300A2	VRPN360A2	VRPN480A2
Cooling Capacity	(R22)kW	21.1	28.2	36.7	49.3	73.3	88.0	105.5	135
Cooling Capacity	(R407c)kW	20.0	26.7	34.8	46.8	69.6	83.6	100.3	130
Heating Capacity	(R22)kW	21.6	28.7	37.4	50.4	75.3	89.4	107.3	140
Heating Capacity	(R407c)kW	20.6	27.2	35.6	47.8	71.5	85.0	102.0	136
Cooling Input	kW	8.42	11.44	13.1	18.72	29.12	35.36	41.6	60
Heating Input	kW	8.22	10.92	12.7	17.89	27.9	37.4	43.7	62.7
Circuit number		2	2	2	2	2	2	2	2
Power	V/Ph/Hz	220/3/60							
Compressor	Type	Hermetically Sealed Scroll Compressor							
Cond. fan	Type	Axial fan							
	Drive	Direct							
Supply fan	Type	Direct driven centrifugal fan					Belt driven centrifugal fan		
Air flow	m ³ /h	4200	5200	6000	8000	12500	17000	21800	24000
Max ESP	Pa	150	150	250	250	250	300	300	700
Noise	dB(A)	63	64	65	68	72	75	77	90
Return air filter	-	Nylon							
Panel	-	Galvanized steel sheet							
Insulation	-	10mm thickness rubber and plastic							
Ref. Charge	Kg	2.7X2	3.0X2	5.0X2	6.5+3.7	7.6X2	9X2	10X2	17X2
Dimension(mm)	Length	1685	1685	2010	2010	2845	3445	3445	4660
	Width	1110	1110	1165	1165	2115	2115	2115	2190
	Height	1045	1045	1155	1155	1195	1195	1195	2270
Weight	Kg	260	310	384	600	860	1500	1580	2500

NOTES:

- Cooling conditioning: Indoor temperature DB: 27°C, WB: 19°C; outdoor temperature DB: 35°C, WB: 24°C.
- Heating conditioning: Indoor temperature DB: 20°C, WB: 15°C; outdoor temperature DB: 7°C, WB: 6°C.
- Aluminium filter is optional.

* Various power supply are optional.

Specification V -T3

Model		VRPA036C5	VRPA048C5	VRPA060C5	VRPA072C5	VRPA096C5	VRPA125C5	VRPA168C5	VRPA250C5	VRPA300C5	VRPA360C5	VRPA480C5
Cooling Capacity	kW(R22)	9.0	12.0	15.0	18.0	24.0	31.2	41.9	62.3	74.8	89.7	119.5
	kW(R407c)	8.6	11.4	14.2	17.0	22.8	29.6	39.8	59.2	71.0	85.2	113.6
Cooling Input	kW(R22)	4.3	6.1	7.1	8.8	11.9	13.6	19.5	30.2	36.8	43.2	63
	kW(R407c)	4.5	6.3	7.4	9.1	12.35	14.15	20.2	31.45	38.2	45	64.8
Circuit number		1	1	1	2	2	2	2	2	2	2	2
Power	V/Ph/Hz	380/3/50*										
Refrigerant		R22/R407c										
Compressor	Type	Hermetically Sealed Scroll Compressor										
Cond. fan	Type	Axial fan										
	Drive	Direct										
Supply fan	Type	Direct driven centrifugal fan							Belt driven centrifugal fan			
Air flow	m ³ /h	2100	2700	3400	4200	5200	6000	8000	12500	17000	21800	24000
Max ESP	Pa	50	50	50	150	150	300	400	400	300	300	700
Noise	dB(A)	57	58	59	63	64	65	68	72	75	77	90
Return air filter	-	Nylon										
Panel	-	Galvanized steel sheet										
Insulation	-	10mm thickness rubber and plastic										
Ref. Charge	Kg	1.6	2	2.2	2.7 X 2	3.0 X 2	4.8 X 2	5.3 X 2	7.6 X 2	9X2	10X2	17X2
Dimension(mm)	Length	1150	1150	1150	1685	1685	2010	2010	2845	3445	3445	4660
	Width	735	735	735	1110	1110	1165	1165	2115	2115	2115	2190
	Height	850	850	850	1045	1045	1155	1155	1195	1195	1195	2270
Weight	Kg	160	170	170	260	310	384	600	860	1400	1480	2500

NOTES:

- Cooling conditioning: Indoor temperature DB: 29°C, WB: 19°C; outdoor temperature: DB: 46°C, WB: 24°C;
- Aluminium filter is optional.

* Various power supply optional.

Air Flow: 298-2250 m³/h



Indoor inst.



Vertical



Horizontal



Chilled water

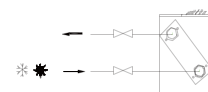


- ◆ VEF serial fan coil unit, compact structure, modern design, low electric consumption, low noise and convenient maintenance.
- ◆ Cold (hot) water supplied to cooling (heating) coil from concentrated cold (hot) source, the unit intakes the indoor air through fans, after cooled (heated) by the coil, the air will be sent to indoor again, the units recycles to keep the indoor temperature adjusted.
- ◆ The customers can choose two pipes type or four pipes type, to meet their requirement.
- ◆ Two installation types, decorative and concealed type to meet the construction request.

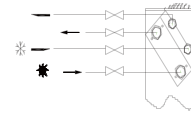
Optional accessories

- ◆ Digital controller ◆ Two way motorized valve ◆ Three way motorized valve ◆ Mechanical controller
- ◆ Universal drain pan

Specification I -two pipes, three rows type



Model		VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202	
Coil Length		mm	350	500	550	650	700	800	900	1000	1200	1200	1500
Air Flow	High	m ³ /h	298	428	619	671	813	988	1058	1480	1560	1983	2250
		CFM	175	252	364	395	478	581	622	871	918	1166	1324
	Med	m ³ /h	253	364	526	570	691	840	899	1258	1326	1686	1913
		CFM	149	214	309.5	335.5	406.5	494	529	740	780	991.5	1125
	Low	m ³ /h	194	278	402	436	528	642	688	962	1014	1298	1463
		CFM	114	164	237	257	311	378	405	566	596	758	860
Cooling Capacity	High	kW	1.44	2.06	2.98	3.5	4.02	4.5	5.31	6.87	7.46	8.61	10.61
	Med		1.18	1.69	2.44	2.87	3.30	3.69	4.35	5.63	6.12	7.06	8.70
	Low		0.91	1.31	1.89	2.22	2.55	2.86	3.37	4.36	4.74	5.47	6.74
Heating Capacity	High	kW	2.44	3.403	5.299	5.763	6.372	7.812	9.211	11.295	12.112	15.587	17.292
	Med		2.01	2.81	4.37	4.75	5.26	6.44	7.60	9.32	9.99	12.86	14.27
	Low		1.53	2.13	3.31	3.60	3.98	4.88	5.76	7.06	7.57	9.74	10.81
Water Flow		l/h	246	365	520	600	699	760	930	1230	1333	1500	1848
Water Press Drop		kPa	5.2	12.3	9.3	12.4	16.8	21.6	32.5	32.5	20.5	28	44.5
Sound Level	Max.	dB(A)	33	34	36	37	39	43	44	44	46	47	49
	Med.		27	28	28	29	33	37	38	39	41	42	45
	Min.		22	23	24	24	27	29	30	32	32	32	34
Size	Length	mm	756	906	956	1056	1106	1206	1306	1406	1606	1606	1906
	Width		483	483	483	483	483	483	483	483	483	483	483
	Height		232	232	232	232	232	232	232	232	232	232	232
Motor		220V/50Hz/60Hz/1Ph											
Input		W	27	32	42	55	72	80	91	125	151	161	168



Specification II - four pipes, four rows type

Model		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204
Coil Length	mm	350	500	550	650	700	800	900	1000	1200	1200	1500
Air Flow	High	m ³ /h	289	415	600	650	788	957	1025	1434	1512	2180
		CFM	170	244	353	382	463	563	603	844	889	1283
	Med	m ³ /h	245	353	510	553	670	814	871	1219	1285	1853
		CFM	144	207	300	325	394	479	513	717	756	1090
	Low	m ³ /h	191	274	396	429	520	632	677	947	998	1439
		CFM	112	161	233	252	306	372	398	557	587	846
Cooling Capacity	High	kW	1.38	1.98	2.86	3.36	3.86	4.32	5.10	6.60	7.16	10.19
	Med		1.15	1.64	2.37	2.79	3.20	3.59	4.23	5.47	5.94	8.45
	Low		0.90	1.29	1.86	2.18	2.51	2.81	3.31	4.29	4.66	6.62
Heating Capacity	High	kW	1.59	2.27	3.29	3.86	4.44	4.97	5.86	7.58	8.24	11.71
	Med		1.34	1.91	2.76	3.25	3.73	4.17	4.92	6.37	6.92	9.84
	Low		1.03	1.48	2.14	2.51	2.88	3.23	3.81	4.93	5.35	7.61
Cooling Water Flow	l/h	246	365	520	600	699	760	930	1230	1333	1500	1848
Heating Water Flow	l/h	125	176	229	296	316	371	451	525	601	750	984
Water Press Drop	kPa	5.20	12.3	9.3	12.4	16.8	21.6	32.5	32.5	20.5	28	44.5
Sound Level	Max.	dB(A)	33	34	36	37	39	43	44	44	46	49
	Med.		27	28	28	29	33	37	38	39	41	45
	Min.		22	23	24	24	27	29	30	32	32	34
Size	Length	mm	756	906	956	1056	1106	1206	1306	1406	1606	1906
	Width		483	483	483	483	483	483	483	483	483	483
	Height		232	232	232	232	232	232	232	232	232	232
Motor		220V/50Hz/60Hz/1Ph										
Input	W	35	41	53	69	94	103	117	156	187	201	210

External Static Pressure		0 Pa	20 Pa	40 Pa	60 Pa	0 Pa	20 Pa	40 Pa	60 Pa	0 Pa	20 Pa	40 Pa	60 Pa
Model		VEF022-052		VEF024-054		VEF062-102		VEF064-104		VEF122-202		VEF124-204	
Total Cooling Capacity	Max	-	0.94	0.78	-	1	0.96	0.85	0.71	1	0.97	0.85	0.70
	Med	-	0.75	0.51	-	0.82	0.78	0.65	-	0.85	0.80	0.75	0.70
	Min	-	0.60	-	-	0.64	0.60	0.55	-	0.64	0.60	0.56	0.50
Sensible Cooling Capacity	Max	-	0.85	0.73	-	0.90	0.85	0.79	0.64	0.89	0.85	0.80	0.75
	Med	-	0.70	0.42	-	0.76	0.70	0.65	-	0.73	0.70	0.65	0.60
	Min	-	0.55	-	-	0.59	0.55	0.46	-	0.58	0.54	0.50	0.48
Heating Capacity	Max	-	0.93	0.74	-	1	0.95	0.86	0.66	1	0.97	0.92	0.83
	Med	-	0.75	0.60	-	0.83	0.79	0.73	-	0.83	0.79	0.74	0.68
	Min	-	0.58	0.54	-	0.63	0.58	0.49	-	0.63	0.60	0.55	0.45
Air Flow	Max	-	0.88	0.61	-	1	0.92	0.78	0.5	1	0.95	0.87	0.73
	Med	-	0.69	0.26	-	0.85	0.77	0.59	-	0.85	0.80	0.74	0.56
	Min	-	0.40	-	-	0.65	0.52	0.30	-	0.65	0.61	0.53	0.32

Notes:

- Cooling standard condition: Air inlet temperature D.B. t(d)=27°C, W.B: t(w)=19.5°C; water inlet temperature 7°C, water outlet temperature: 12°C, water inlet and outlet temperature difference 5°C.
- Heating standard condition: Air inlet temperature D.B. t(d)=21°C; -Hot water inlet temperature: 60°C; water outlet temperature: 50°C, difference: 10°C; - Hot water inlet temperature: t=70°C, the same water flow as 1.
- Noise figure is tested at where is 1m far away from each unit.

Air Flow: 353-2377 m³/h



Indoor inst.



Horizontal



Chilled water

1. Low static pressure (0-50Pa), 2 pipes 3 rows, 5 °C temp. difference

Model			VCFI034	VCFI051	VCFI068	VCFI085	VCFI102	VCFI136	VCFI170	VCFI204	VCFI238
Performance											
Nominal Air Flow	High	m ³ /h	353	504	729	873	1119	1441	1676	2042	2377
		CFM	208	297	429	514	659	848	986	1201	1398
	Med	m ³ /h	304	429	620	750	952	1225	1425	1735	2021
		CFM	179	252	365	441	560	721	838	1021	1188
	Low	cu. m/h	213	383	555	526	851	1095	1274	1552	1806
		CFM	125	225	326	309	501	644	750	913	1062
Nominal Cooling Capacity	High	kW	2.27	3.48	4.23	5.01	6.23	7.86	8.83	10.75	13.82
	Med	kW	2.02	3.21	3.98	4.46	5.63	7.06	8.10	9.72	12.49
	Low	kW	1.86	2.50	3.09	4.11	4.54	5.98	6.98	7.98	10.52
Nominal Heating Capacity	High	kW	3.75	5.22	6.35	8.26	9.35	11.79	13.25	16.13	20.73
	Med	kW	3.30	4.82	5.97	7.27	8.45	10.59	12.15	14.58	18.74
	Low	kW	2.92	3.75	4.64	6.44	6.81	8.97	10.47	11.97	15.78
Water Flow Rate (High)		m ³ /h	0.42	0.61	0.75	0.89	1.11	1.37	1.55	1.87	2.43
		GPM	1.85	2.70	3.30	3.92	4.85	6.02	6.83	8.25	10.66
Water Press Drop		kPa	3.13	4.80	5.89	9.67	15.81	19.89	25.83	27.97	30.14
		ft.wg	1.03	1.58	1.93	3.17	5.19	6.53	8.47	9.18	9.89
Noise	Low	dB(A)	34	32	28	35	35	35	35	37	37
	Med	dB(A)	36	35	33	38	39	39	40	41	43
	High	dB(A)	39	42	40	41	42	44	44	45	48
Coil											
Face Area		m ²	0.09	0.122	0.142	0.163	0.189	0.244	0.284	0.325	0.345
Face Velocity		m/s	0.91	1.18	1.47	1.53	1.70	1.69	1.69	1.80	1.97
Motor Type			3-Speed Permanent Split Capacitor Motor								
No. of Motor			1	1	1	1	1	2	2	2	3
Class			B	B	B	B	B	B	B	B	B
Total Rating Input			W	36	60	70	82	97	148	178	250
Fan Type			Double inlet centrifugal fan (Forward Curve)								
No. of Fans			1	2	2	2	2	3	4	4	5
Water Capacity											
3 Rows		L	0.658	0.887	1.036	1.184	1.376	1.775	2.071	2.366	2.514
Size	Length	mm	775	935	1085	1175	1285	1535	1735	1885	1985
	Width	mm	526	526	526	526	526	526	526	526	526
	Height	mm	230	230	230	230	230	230	230	230	230
Weight		Kg	19	22	24	26	29	37	42	46	49

Notes:

1. Cooling standard condition: Entering air temperature DB 27°C, WB 19°C; Chilled water inlet temp.=7°C, outlet temp.=12°C.
2. Heating standard condition: Entering air temperature DB 21°C; Hot water inlet temp.=60°C.
3. Maximum working pressure: 1.6Mpa
4. Air Flow: Fan Speed-High; 220V~240V/1Ph/50(60)Hz. Under dry coil conditions at 0 pa external static pressure.
5. Noise Level: Sound was measured at 1m away from the center of the unit.

2. Low static pressure (0-50Pa), 2 pipes 4 rows, 9 °C temp. difference

Model			VCFI034	VCFI051	VCFI068	VCFI085	VCFI102	VCFI136	VCFI170	VCFI204	VCFI238
Performance											
Nominal Air Flow	High	m ³ /h	382	686	838	905	1055	1434	1814	2048	2344
		CFM	225	404	493	532	621	844	1067	1205	1379
	Med	m ³ /h	329	588	719	778	905	1229	1523	1727	1969
		CFM	194	346	423	458	533	723	896	1016	1158
	Low	m ³ /h	230	462	565	545	711	965	1213	1397	1562
		CFM	135	272	485	321	418	568	714	822	919
Nominal Cooling Capacity	High	kW	2.06	2.88	4.05	4.75	5.05	7.08	8.22	9.97	10.84
	Med	kW	1.84	2.60	3.38	4.23	4.55	6.44	7.39	9.09	10.06
	Low	kW	1.69	1.98	2.71	3.29	3.58	5.01	6.12	7.28	8.02
Nominal Heating Capacity	High	kW	3.40	4.32	6.08	7.13	7.58	10.62	12.33	14.96	16.26
	Med	kW	2.99	3.90	5.07	6.27	6.83	9.66	11.09	13.64	15.09
	Low	kW	2.65	2.97	4.07	5.16	5.37	7.52	9.18	10.92	12.03
Water Flow Rate (High)		m ³ /h	0.20	0.29	0.41	0.47	0.50	0.71	0.81	0.98	1.07
		GPM	0.88	1.28	1.79	2.07	2.20	3.09	3.54	4.33	4.69
Water Press Drop		kPa	2.28	3.63	4.82	8.44	11.19	11.69	13.50	17.02	29.42
		ft.wg	0.75	1.19	1.58	2.77	3.67	3.83	4.43	5.58	9.65
Noise	Low	dB(A)	35	32	28	35	35	35	35	37	36
	Med	dB(A)	37	36	34	38	40	40	40	41	43
	High	dB(A)	39	40	40	42	43	44	44	45	48
Coil											
Face Area		m ²	0.09	0.122	0.142	0.163	0.189	0.244	0.284	0.325	0.345
Face Velocity		m/s	0.98	1.61	1.69	1.62	1.60	1.69	1.69	1.80	1.97
Motor Type			3-Speed Permanent Split Capacitor Motor								
No. of Motor			1	1	1	1	1	2	2	2	3
Class			B	B	B	B	B	B	B	B	B
Total Rating Input		W	40	67	75	89	102	152	196	216	256
Fan Type			Double inlet centrifugal fan (Forward Curve)								
No. of Fans			1	2	2	2	2	3	4	4	5
Water Capacity											
4 Rows		L	0.877	1.183	1.381	1.578	1.834	2.366	2.761	3.155	3.352
Size	Length	mm	725	935	1075	1175	1275	1535	1735	1875	1975
	Width	mm	526	526	526	526	526	526	526	526	526
	Height	mm	230	230	230	230	230	230	230	230	230
Weight		Kg	20	23	25	31	31	39	44	48	52

Notes:

- Cooling standard condition: Entering air temperature DB 27°C, WB 19°C; Chilled water inlet temp.=5.5°C, outlet temp.=14.5°C.
- Heating standard condition: Entering air temperature DB 21°C; Hot water inlet temp.=60°C.
- Maximum working pressure: 1.6Mpa
- Air Flow: Fan Speed-High; 220V~240V/1Ph/50(60)Hz. Under dry coil conditions at 0 pa external static pressure.
- Noise Level: Sound was measured at 1m away from the center of the unit.

Concealed Fan Coil Unit - Low static pressure

3. Low static pressure (0-50 Pa), 4 pipes 4 rows, 5 °C temp. difference

Model			VCFI034	VCFI051	VCFI068	VCFI085	VCFI102	VCFI136	VCFI170	VCFI204	VCFI238
Performance											
Nominal Air Flow	High	m ³ /h	382	686	838	905	1055	1434	1814	2048	2344
		CFM	225	404	493	532	621	844	1067	1205	1379
	Med	m ³ /h	329	588	719	778	905	1229	1523	1727	1969
		CFM	194	346	423	458	532	723	896	1016	1158
	Low	cu. m/h	230	462	485	545	711	965	1213	1397	1562
		CFM	135	272	285	321	418	568	714	822	919
Nominal Cooling Capacity	High	kW	2.27	3.48	4.23	5.01	6.23	7.86	8.83	10.75	13.82
	Med	kW	2.02	3.21	3.98	4.46	5.63	7.06	8.10	9.72	12.49
	Low	kW	1.86	2.50	3.09	4.11	4.54	5.98	6.98	7.98	10.52
Nominal Heating Capacity	High	kW	1.93	2.99	3.63	4.22	5.35	6.74	7.58	9.22	11.86
	Med	kW	1.68	2.39	2.90	3.66	4.28	5.40	6.06	7.38	9.49
	Low	kW	1.42	2.03	2.47	3.07	3.63	4.59	5.15	6.27	8.06
Water Flow Rate (High)		m ³ /h	0.42	0.61	0.75	0.89	1.11	1.37	1.55	1.87	2.43
		GPM	1.85	2.70	3.30	3.92	4.85	6.02	6.83	8.25	10.66
Water Press Drop		kPa	3.13	4.8	5.89	9.67	15.81	19.89	25.83	27.97	30.14
		ft.wg	1.03	1.58	1.93	3.17	5.19	6.53	8.47	9.18	9.89
Noise	Low	dB(A)	35	32	28	35	35	35	35	37	36
	Med	dB(A)	37	36	34	38	40	40	40	41	43
	High	dB(A)	39	40	40	42	43	44	44	45	48
Coil											
Face Area	m ²		0.09	0.122	0.142	0.163	0.189	0.244	0.284	0.325	0.345
Face Velocity	m/s		0.98	1.61	1.69	1.53	1.60	1.69	1.69	1.8	1.97
Motor Type			3-Speed Permanent Split Capacitor Motor								
No. of Motor			1	1	1	1	1	2	2	2	2
Class			B	B	B	B	B	B	B	B	B
Total Rating Input	W		40	67	75	89	102	152	196	216	256
Fan Type			Double inlet centrifugal fan (Forward Curve)								
No. of Fans			1	2	2	2	2	3	4	4	5
Water Capacity											
4 Pipes 4 Rows		L	0.877	1.183	1.381	1.578	1.834	2.366	2.761	3.155	3.352
Size	Length	mm	775	935	1075	1175	1275	1535	1735	1875	1975
	Width	mm	526	526	526	526	526	526	526	526	526
	Height	mm	230	230	230	230	230	230	230	230	230
Weight	Kg		20	23	25	28	31	39	44	48	52

Notes:

- Cooling standard condition: Entering air temperature DB 27°C, WB 19°C; Chilled water inlet temp.=7°C, outlet temp.=12°C.
- Heating standard condition: Entering air temperature DB 21°C; Hot water inlet temp.=60°C.
- Maximum working pressure: 1.6Mpa
- Air Flow: Fan Speed-High; 220V~240V/1Ph/50(60)Hz. Under dry coil conditions at 0 pa external static pressure.
- Noise Level: Sound was measured at 1m away from the center of the unit.

VCFI102-340

Concealed Fan Coil Unit - Medium static pressure

Air Flow: 1050-3659 m³/h



Indoor inst.



Horizontal



Chilled water

1. Medium static pressure (50-100Pa), 2 pipes 3 rows, 5 °C temp. difference

Model			VCFI102	VCFI136	VCFI170	VCFI204	VCFI238	VCFI272	VCFI306	VCFI340
Performance										
Nominal Air Flow	High	m ³ /h	1050	1385	1790	2202	2540	2882	3329	3659
		CFM	618	815	1053	1295	1494	1695	1958	2152
	Med	m ³ /h	903	1191	1539	1894	2184	2479	2863	3147
		CFM	531	701	906	1114	1285	1458	1684	1851
	Low	m ³ /h	725	956	1235	1519	1753	1989	2297	2525
		CFM	426	562	727	894	1031	1170	1351	1485
Nominal Cooling Capacity	High	kW	4.66	6.25	7.82	8.73	10.80	12.16	13.28	15.55
	Med	kW	4.05	5.44	6.80	7.60	9.40	10.58	11.55	13.53
	Low	kW	3.15	4.22	5.28	5.89	7.29	8.21	8.96	10.50
Nominal Heating Capacity	High	kW	8.43	10.85	14.12	16.86	20.28	21.69	24.26	28.23
	Med	kW	7.41	9.74	12.27	14.82	17.84	19.46	20.97	24.54
	Low	kW	6.48	8.81	10.49	12.98	15.62	17.63	18.11	20.97
Water Flow Rate (High)		m ³ /h	0.97	1.24	1.52	1.65	2.12	2.22	2.34	2.85
		GPM	4.27	5.46	6.69	7.26	9.33	9.77	10.30	12.54
Water Press Drop		kPa	16.1	17.6	19.6	21.2	23.0	26.1	30.9	38.4
		ft.wg	5.28	5.77	6.43	6.95	7.54	8.56	10.13	12.59
Noise	Low	dB(A)	47	49	50	52	54	56	58	60
	Med	dB(A)	46	47	47	48	50	52	54	55
	High	dB(A)	42	43	44	45	46	47	48	50
Coil										
Face Area		m ²	0.152	0.183	0.213	0.229	0.274	0.32	0.32	0.381
Face Velocity		m/s	1.85	1.96	2.32	2.45	2.30	2.20	2.48	2.46
Motor Type			3-Speed Permanent Split Capacitor Motor							
No. of Motor			1	1	1	1	1	1	1	2
Class			B	B	B	B	B	B	B	B
Total Rating Input			W	211	234	273	316	354	433	499
Fan Type			Double inlet centrifugal fan (Forward Curve)							
No. of Fans			1	1	1	2	2	2	2	3
Size	Length	mm	885	985	1085	1135	1285	1435	1435	1635
	Width	mm	628	628	628	628	628	628	628	628
	Height	mm	337	337	337	337	337	337	337	337
Weight			Kg	34	38	42	44	49	54	62

Notes:

- Cooling standard condition: Entering air temperature DB 27°C, WB 19°C; Chilled water inlet temp.=7°C, outlet temp.=12°C.
- Heating standard condition: Entering air temperature DB 21°C; Hot water inlet temp.=60°C.
- Maximum working pressure: 1.6Mpa
- Air Flow: Fan Speed-High; 220V~240V/1Ph/50(60)Hz. Under dry coil conditions at 50 pa external static pressure.
- Noise Level: Sound was measured at 1m away from the center of the unit.

Concealed Fan Coil Unit - Medium static pressure

2. Medium static pressure (50-100Pa), 2 pipes 4 rows, 5 °C temp. difference

Model			VCFI102	VCFI136	VCFI170	VCFI204	VCFI238	VCFI272	VCFI306	VCFI340
Performance										
Nominal Air Flow	High	m ³ /h	1010	1335	1737	2134	2466	2786	3130	3560
		CFM	594	785	1022	1255	1451	1639	1841	2094
	Med	m ³ /h	869	1148	1494	1835	2121	2396	2692	3062
		CFM	511	675	879	1080	1248	1409	1583	1801
	Low	m ³ /h	677	894	1164	1430	1652	1867	2097	2385
		CFM	398	526	685	841	972	1098	1234	1403
Nominal Cooling Capacity	High	kW	5.45	7.32	9.75	11.20	13.50	15.70	17.60	20.42
	Med	kW	4.69	6.30	8.39	9.63	11.61	13.50	15.14	17.56
	Low	kW	3.71	4.98	6.63	7.62	9.18	10.68	11.97	13.89
Nominal Heating Capacity	High	kW	9.69	12.47	16.23	19.38	23.31	24.93	27.89	32.45
	Med	kW	8.52	11.19	14.10	17.04	20.51	22.37	24.11	28.20
	Low	kW	7.46	10.13	12.05	14.91	17.96	20.25	20.81	24.11
Water Flow Rate (High)		m ³ /h	0.94	1.26	1.68	1.93	2.32	2.70	3.03	3.51
		GPM	4.12	5.54	7.38	8.47	10.21	11.88	13.32	15.45
Water Press Drop		kPa	20.6	22.5	25.1	27.2	29.5	33.5	39.6	49.2
		ft.wg	6.75	7.38	8.23	8.92	9.67	10.98	12.98	16.13
Noise	Low	dB(A)	43	44	45	46	47	48	50	52
	Med	dB(A)	47	48	48	49	51	53	55	56
	High	dB(A)	49	50	51	53	55	58	59	61
Coil										
Face Area		m ²	0.152	0.183	0.213	0.229	0.274	0.32	0.32	0.381
Face Velocity		m/s	1.85	2.03	2.27	2.59	2.50	2.42	2.72	2.60
Motor Type			3-Speed Permanent Split Capacitor Motor							
No. of Motor			1	1	1	1	1	2	2	2
Class			B	B	B	B	B	B	B	B
Total Rating Input		W	270	300	350	405	454	555	610	640
Fan Type			Double inlet centrifugal fan (Forward Curve)							
No. of Fans			1	1	1	2	2	2	2	3
Size	Length	mm	885	985	1085	1135	1285	1435	1435	1635
	Width	mm	628	628	628	628	628	628	628	628
	Height	mm	337	337	337	337	337	337	337	337
Weight		Kg	34	38	42	44	49	54	54	62

Notes:

1. Cooling standard condition: Entering air temperature DB 27°C, WB 19°C; Chilled water inlet temp.=7°C, outlet temp.=12°C.
2. Heating standard condition: Entering air temperature DB 21°C; Hot water inlet temp.=60°C.
3. Maximum working pressure: 1.6Mpa
4. Air Flow: Fan Speed-High; 220V~240V/1Ph/50(60)Hz. Under dry coil conditions at 50 pa external static pressure.
5. Noise Level: Sound was measured at 1m away from the center of the unit.

Concealed Fan Coil Unit - Medium static pressure

3. Medium static pressure (50-100Pa), 2 pipes & 4 rows, 9 °C temp. difference

Model			VCFI102	VCFI136	VCFI170	VCFI204	VCFI238	VCFI272	VCFI306	VCFI340
Performance										
Nominal Air Flow	High	m ³ /h	1010	1335	1737	2134	2466	2786	3230	3560
		CFM	594	785	1022	1255	1451	1639	1900	2094
	Med	m ³ /h	869	1148	1494	1835	2121	2396	2778	3062
		CFM	511	675	879	1083	1248	1409	1634	1801
	Low	m ³ /h	677	894	1164	1430	1652	1867	2164	2385
		CFM	398	526	685	841	972	1098	1273	1403
Nominal Cooling Capacity	High	kW	4.40	5.91	7.88	9.05	10.90	12.68	14.22	16.49
	Med	kW	3.83	5.14	6.85	7.87	9.49	11.03	12.37	14.35
	Low	kW	3.13	4.20	5.59	6.42	7.74	9.00	10.09	11.71
Nominal Heating Capacity	High	kW	7.83	10.07	13.11	15.65	18.83	20.14	22.52	26.21
	Med	kW	6.89	8.87	11.54	13.77	16.58	17.72	19.82	23.07
	Low	kW	6.03	7.76	10.10	12.06	14.51	15.65	17.34	20.81
Water Flow Rate (High)		m ³ /h	0.42	0.56	0.75	0.86	1.04	1.21	1.36	1.58
		GPM	1.85	2.49	3.31	3.80	4.58	5.33	5.98	6.93
Water Press Drop		kPa	6.74	7.36	8.21	8.89	9.65	10.95	12.95	16.09
		ft.wg	2.21	2.41	2.69	2.92	3.16	3.59	4.25	5.27
Noise	Low	dB(A)	43	44	45	46	47	48	50	52
	Med	dB(A)	47	48	48	49	51	53	55	56
	High	dB(A)	49	50	51	53	55	58	59	61
Coil										
Face Area		m ²	0.152	0.183	0.213	0.229	0.274	0.32	0.32	0.381
Face Velocity		m/s	1.85	2.03	2.27	2.59	2.50	2.42	2.80	2.60
Motor Type			3-Speed Permanent Split Capacitor Motor							
No. of Motor			1	1	1	1	1	2	2	2
Class			B	B	B	B	B	B	B	B
Total Rating Input		W	270	300	350	405	454	555	610	640
Fan Type			Double inlet centrifugal fan (Forward Curve)							
No. of Fans			1	1	1	2	2	2	2	3
Size	Length	mm	885	985	1085	1135	1285	1435	1435	1635
	Width	mm	628	628	628	628	628	628	628	628
	Height	mm	337	337	337	337	337	337	337	337
Weight		Kg	34	38	42	44	49	54	54	62

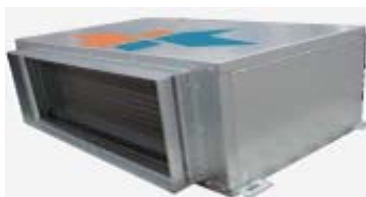
Notes:

1. Cooling standard condition: Entering air temperature DB 27°C, WB 19°C; Chilled water inlet temp.=5.5°C, outlet temp.=14.5°C.
2. Heating standard condition: Entering air temperature DB 21°C; Hot water inlet temp.=60°C.
3. Maximum working pressure: 1.6Mpa
4. Air Flow: Fan Speed-High; 220V~240V/1Ph/50(60)Hz. Under dry coil conditions at 50 pa external static pressure.
5. Noise Level: Sound was measured at 1m away from the center of the unit.

Concealed Fan Coil Unit - High static pressure

VCFI204-340

Air Flow: 2043-3308 m³/h



Indoor inst.



Horizontal



Chilled water

1. High static pressure (100-150Pa), 2 pipes 3 rows, 5 °C temp. difference

Model			VCFI204	VCFI238	VCFI272	VCFI306	VCFI340
Performance							
Nominal Air Flow	High	cu. m/h	2043	2377	2708	3062	3308
		CFM	1201	1398	1546	1749	1946
	Med	cu. m/h	1735	2001	2313	2624	2900
		CFM	1020	1188	1361	1543	1706
	Low	cu. m/h	1552	1806	2086	2309	2552
		CFM	913	1062	1227	1358	1502
Nominal Cooling Capacity	High	kW	10.91	12.46	13.39	14.16	16.10
	Med	kW	9.56	10.55	11.74	12.42	14.16
	Low	kW	8.29	9.55	10.79	10.96	12.22
Nominal Heating Capacity	High	kW	16.37	18.69	20.09	21.24	24.15
	Med	kW	14.34	15.83	17.61	18.63	21.24
	Low	kW	12.44	14.33	16.19	16.44	18.33
Water Flow Rate (High)		cm.m/h	1.90	2.18	2.36	2.51	2.86
		GPM	8.38	9.59	10.38	11.06	12.60
Water Press Drop		kPa	21.26	24.07	27.20	33.02	37.15
		ft.wg	6.97	7.89	8.92	10.83	12.19
Noise	Low	dB(A)	44	46	47	49	51
	Med	dB(A)	48	49	52	54	55
	High	dB(A)	52	54	56	57	59
Coil							
Face Area		sq.m	0.237	0.274	0.329	0.329	0.411
Face Velocity		m/s	2.47	2.48	2.29	2.59	2.30
Motor Type			3-Speed Permanent Split Capacitor Motor				
No. of Motor			2	2	2	2	2
Class			B	B	B	B	B
Total Rating Input		W	334	396	428	517	710
Fan Type			Centrifugal fan (Forward Curve)				
No. of Fans			2	2	2	2	2
Water Capacity							
3 Rows		L	1.99	2.18	2.30	2.30	2.85
Size	Length	mm	1145	1275	1445	1445	1620
	Width	mm	810	810	810	810	810
	Height	mm	375	375	375	375	375
Weight		Kg	55	62	71	71	82

Notes:

- Cooling standard condition: Entering air temperature DB 27°C, WB 19°C; Chilled water inlet temp.=7°C, outlet temp.=12°C.
- Heating standard condition: Entering air temperature DB 21°C; Hot water inlet temp.=60°C.
- Maximum working pressure: 1.6Mpa
- Air Flow: Fan Speed-High; 220V~240V/1Ph/50(60)Hz. Under dry coil conditions at 100 pa external static pressure.
- Noise Level: Sound was measured at 1m away from the center of the unit.

Concealed Fan Coil Unit - High static pressure

2. High static pressure (100-150Pa), 2 pipes 4 rows, 5 °C temp. difference

Model			VCFI204	VCFI238	VCFI272	VCFI306	VCFI340
Performance							
Nominal Air Flow	High	m ³ /h	1979	2309	2629	2973	3298
		CFM	1164	1358	1546	1749	1940
	Med	m ³ /h	1682	1962	2313	2624	2900
		CFM	989	1154	1361	1543	1706
	Low	m ³ /h	1504	1756	2086	2309	2552
		CFM	885	980	1227	1358	1502
Nominal Cooling Capacity	High	kW	11.93	14.36	15.36	17.17	19.98
	Med	kW	10.50	12.63	13.77	14.84	17.36
	Low	kW	9.19	11.06	12.47	12.81	14.84
Nominal Heating Capacity	High	kW	17.90	21.54	23.04	25.76	29.97
	Med	kW	15.75	18.95	20.66	22.26	26.04
	Low	kW	13.79	16.59	18.71	19.22	22.26
Water Flow Rate (High)		m ³ /h	2.14	2.52	2.64	2.95	3.43
		GPM	9.43	11.09	11.61	12.97	15.11
Water Press Drop		kPa	30.04	31.29	32.01	32.01	55.86
		ft.wg	9.85	10.26	10.50	10.50	18.32
Noise	Low	dB(A)	46	47	48	50	52
	Med	dB(A)	49	51	53	55	56
	High	dB(A)	53	55	58	59	61
Coil							
Face Area		m ²	0.237	0.274	0.329	0.329	0.411
Face Velocity		m/s	2.39	2.41	2.29	2.59	2.30
Motor Type			3-Speed Permanent Split Capacitor Motor				
No. of Motor			2	2	2	2	2
Class			B	B	B	B	B
Total Rating Input		W	430	476	557	717	910
Fan Type			Centrifugal fan (Forward Curve)				
No. of Fans			2	2	2	2	2
Water Capacity							
4 Rows		L	2.66	3.01	3.07	3.07	3.8
Size	Length	mm	1145	1275	1445	1445	1620
	Width	mm	810	810	810	810	810
	Height	mm	375	375	375	375	375
Weight		Kg	57	64	73	73	85

Notes:

- Cooling standard condition: Entering air temperature DB 27°C, WB 19°C; Chilled water inlet temp.=7°C, outlet temp.=12°C.
- Heating standard condition: Entering air temperature DB 21°C; Hot water inlet temp.=60°C.
- Maximum working pressure: 1.6Mpa
- Air Flow: Fan Speed-High; 220V~240V/1Ph/50(60)Hz. Under dry coil conditions at 100 pa external static pressure.
- Noise Level: Sound was measured at 1m away from the center of the unit.

Concealed Fan Coil Unit - High static pressure

3. High static pressure (100-150Pa), 2 pipes 4 rows, 9°C temp. difference

Model			VCFI204	VCFI238	VCFI272	VCFI306	VCFI340
Performance							
Nominal Air Flow	High	cu. m/h	1979	2309	2629	2973	3298
		CFM	1164	1358	1546	1749	1940
	Med	cu. m/h	1682	1962	2313	2624	2900
		CFM	989	1154	1361	1543	1706
	Low	cu. m/h	1504	1756	2086	2309	2552
		CFM	885	980	1227	1358	1502
Nominal Cooling Capacity	High	kW	10.02	11.67	12.78	13.83	15.04
	Med	kW	8.52	9.92	11.25	12.21	12.97
	Low	kW	7.61	8.87	10.15	10.74	11.30
Nominal Heating Capacity	High	kW	15.03	17.51	19.17	20.75	22.56
	Med	kW	12.78	14.88	16.88	18.32	19.46
	Low	kW	11.42	13.31	15.23	16.11	16.95
Water Flow Rate (High)		m ³ /h	1.02	1.16	1.28	1.34	1.49
		GPM	4.48	5.12	5.63	5.90	6.58
Water Press Drop		kPa	7.87	10.18	11.51	13.19	15.44
		ft.wg	2.58	3.34	3.78	4.33	5.07
Noise	Low	dB(A)	46	47	47	49	51
	Med	dB(A)	49	51	52	54	55
	High	dB(A)	53	55	56	57	59
Coil							
Face Area		sq.m	0.237	0.274	0.329	0.329	0.411
Face Velocity		m/s	2.39	2.41	2.29	2.59	2.30
Motor Type			3-Speed Permanent Split Capacitor Motor				
No. of Motor			2	2	2	2	2
Class			B	B	B	B	B
Total Rating Input		W	430	476	557	717	910
Fan Type			Centrifugal fan (Forward Curve)				
No. of Fans			2	2	2	2	2
Water Capacity							
4 Rows		L	2.66	3.01	3.07	3.07	3.8
Size	Length	mm	1145	1275	1445	1445	1620
	Width	mm	810	810	810	810	810
	Height	mm	375	375	375	375	375
Weight		Kg	55	62	71	71	82

Notes:

- Cooling standard condition: Entering air temperature DB 27°C, WB 19°C; Chilled water inlet temp.=5.5°C, outlet temp.=14.5°C.
- Heating standard condition: Entering air temperature DB 21°C; Hot water inlet temp.=60°C.
- Maximum working pressure: 1.6Mpa
- Air Flow: Fan Speed-High; 220V~240V/1Ph/50(60)Hz. Under dry coil conditions at 100 pa external static pressure.
- Noise Level: Sound was measured at 1m away from the center of the unit.

Concealed Fan Coil Unit - High static pressure

10. High static pressure (100-150 Pa), 4 pipes 4 rows, 5°C temp. difference

Model			VCFI204	VCFI238	VCFI272	VCFI306	VCFI340
Performance							
Nominal Air Flow	High	cu. m/h	1979	2309	2629	2973	3298
		CFM	1164	1358	1546	1749	1940
	Med	cu. m/h	1682	1962	2313	2624	2900
		CFM	989	1154	1361	1543	1706
	Low	cu. m/h	1504	1756	2086	2309	2552
		CFM	885	980	1227	1358	1502
Nominal Cooling Capacity	High	kW	10.91	12.46	13.39	14.16	16.10
	Med	kW	9.56	10.55	11.74	12.42	14.16
	Low	kW	8.29	9.55	10.79	10.96	12.22
Nominal Heating Capacity	High	kW	9.96	11.37	12.21	12.92	14.69
	Med	kW	8.46	9.67	10.38	10.98	12.49
	Low	kW	7.47	8.53	9.16	9.69	11.02
Water Flow Rate (High)		m ³ /h	1.90	2.18	2.36	2.51	2.86
		GPM	8.38	9.59	10.38	11.06	12.60
Water Press Drop		kPa	21.26	24.07	27.20	33.02	37.15
		ft.wg	6.97	7.89	8.92	10.83	12.19
Noise	Low	dB(A)	46	47	48	50	52
	Med	dB(A)	49	51	53	55	56
	High	dB(A)	53	55	58	59	61
Coil							
Face Area		m ²	0.237	0.274	0.329	0.329	0.411
Face Velocity		m/s	2.39	2.41	2.29	2.59	2.30
Motor Type			3-Speed Permanent Split Capacitor Motor				
No. of Motor			2	2	2	2	2
Class			B	B	B	B	B
Total Rating Input		W	430	476	557	717	910
Fan Type			Centrifugal Fan(Forward Curve)				
No. of Fans			2	2	2	2	2
Water Capacity							
4 pipes 4 rows		L	2.66	3.01	3.07	3.07	3.80
Size	Length	mm	1145				
	Width	mm	810	810	810	810	810
	Height	mm	375	375	375	375	375
Weight		Kg	55	62	71	71	82

Notes:

- Cooling standard condition: Entering air temperature DB 27°C, WB 19°C; Chilled water inlet temp.=7°C, outlet temp.=12°C.
- Heating standard condition: Entering air temperature DB 21°C; Hot water inlet temp.=60°C.
- Maximum working pressure: 1.6Mpa
- Air Flow: Fan Speed-High; 220V~240V/1Ph/50(60)Hz. Under dry coil conditions at 0 pa external static pressure.
- Noise Level: Sound was measured at 1m away from the center of the unit.

Air Flow: 1500-15000m³/h



Indoor Inst.



Suspended Inst



Chilled water



- ◆ No cold bridge design.
- ◆ High strength panel, environmental friendly, high insulation performance, improve the air purity.
- ◆ Unique frame structure, easy accessibility.
- ◆ Nice appearance, compact size, light weight, high efficiency and low noise.

Optional accessories

- ◆ Electric heater
- ◆ Heating coil
- ◆ Medium filter
- ◆ Humidifier
- ◆ Inverter
- ◆ Electrical protector

Specification I -return air condition

No.	Model		Air Flow (m³/h)	Cooling Capacity (kW)	Heating Capacity (kW)	Water Flow (l/s)	Water Resistance (kPa)	Fan Motor Power (kW)	Fan Total Pressure (Pa)	External Static Pressure (Pa)	Net Weight (kg)
1	1.5A	4 Rows	1500	8.37	12.31	0.40	4.3	0.37	310	230	75
		6 Rows		12.40	16.38	0.60	7.7		310	210	80
2	02A	4 Rows	2000	10.81	17.25	0.52	6.8	0.45	330	250	85
		6 Rows		16.02	21.41	0.77	9.5		330	230	90
3	2.5A	4 Rows	2500	14.07	21.90	0.68	13.2	0.45	360	280	90
		6 Rows		20.55	26.98	0.98	18.4		360	260	95
4	03A	4 Rows	3000	17.67	26.92	0.85	19.8	0.55	350	270	103
		6 Rows		25.15	32.71	1.20	25.6		350	250	113
5	3.5A	4 Rows	3500	18.97	30.21	0.92	22.7	0.75	390	310	113
		6 Rows		28.21	37.56	1.35	29.4		390	290	123
6	04A	4 Rows	4000	22.19	34.96	1.07	24.6	0.75	360	280	120
		6 Rows		32.71	43.17	1.57	31.2		360	260	132
7	04B	4 Rows	4000	23.89	36.13	1.15	24.6	0.45*2	330	250	130
		6 Rows		31.26	42.35	1.50	31.2		330	230	140
8	05A	4 Rows	5000	28.55	44.23	1.37	21.8	1.5	400	320	140
		6 Rows		41.17	54.09	1.97	27.5		400	300	155
9	05B	4 Rows	5000	30.33	49.67	1.45	34.4	0.45*2	360	280	145
		6 Rows		41.50	50.71	1.98	40.7		360	260	165
10	06A	4 Rows	6000	32.91	50.50	1.48	28.8	1.5	350	270	150
		6 Rows		47.63	63.01	1.92	44.6		350	250	170
11	06B	4 Rows	6000	32.63	51.75	1.57	42.4	0.55*2	350	270	155
		6 Rows		48.07	64.08	2.30	51.5		350	250	185
12	07B	4 Rows	7000	37.51	55.92	1.80	34.6	0.75*2	390	310	170
		6 Rows		56.03	74.93	2.68	46.3		390	290	190
13	08B	4 Rows	8000	44.34	69.92	2.12	40.6	0.75*2	360	280	195
		6 Rows		65.20	86.21	3.12	48.7		360	260	225
14	10B	4 Rows	10000	54.69	86.65	3.62	45.6	1.5*2	400	320	210
		6 Rows		80.86	107.14	3.87	51.2		400	300	240
15	12B	4 Rows	12000	58.03	97.42	2.78	46.9	1.5*2	350	270	235
		6 Rows		90.35	123.67	4.32	53.1		350	250	270
16	15B	4 Rows	15000	96.17	136.79	3.23	49.3	2.2*2	470	390	290
		6 Rows		119.54	162.17	5.21	57.8		470	370	330
17	15C	4 Rows	15000	96.32	137.87	3.28	49.3	1.5*3	400	320	310
		6 Rows		120.45	162.30	5.28	57.8		400	300	350

Note:

1- A: one fan, B: two fans, C: three fans.

2- Standard condition: return air condition.

3- Cooling standard condition: entering air temp.: D.B. 27°C, W.B.19.5°C

entering water temp.: 7°C, leaving water temp.:12°C.

4- Heating standard condition: entering air temp.: 21°C D.B.

hot water entering temp.:60°C.

Specification II -fresh air condition

No.	Model	Air Flow (m ³ /h)	Cooling Capacity (kW)	Heating Capacity (kW)	Water Flow (l/s)	Water Resistance (kPa)	Fan Motor Power (kW)	Fan Total Pressure (Pa)	External Static Pressure (Pa)	Net Weight (kg)
1	1.5A	4 Rows	1500	20.12	24.66	0.97	0.37	310	230	75
		6 Rows		25.68	28.84	1.23		310	210	80
2	02A	4 Rows	2000	25.65	31.97	1.23	0.45	330	250	85
		6 Rows		31.69	36.80	1.52		330	230	90
3	2.5A	4 Rows	2500	32.52	40.44	1.57	0.45	360	280	90
		6 Rows		40.24	46.57	1.93		360	260	95
4	03A	4 Rows	3000	37.32	48.60	1.78	0.55	350	270	103
		6 Rows		49.19	56.20	2.35		350	250	113
5	3.5A	4 Rows	3500	44.84	55.92	2.15	0.75	390	310	113
		6 Rows		58.19	66.09	2.78		390	290	123
6	04A	4 Rows	4000	51.85	64.24	2.48	0.75	360	280	120
		6 Rows		64.26	74.08	3.07		360	260	132
7	04B	4 Rows	4000	50.24	63.16	2.40	0.45*2	330	250	130
		6 Rows		65.72	75.10	3.15		330	230	140
8	05A	4 Rows	5000	70.67	91.08	3.12	1.5	400	320	140
		6 Rows		90.60	104.51	3.87		400	300	155
9	05B	4 Rows	5000	72.73	92.07	3.48	0.45*2	360	280	145
		6 Rows		92.00	107.95	4.40		360	260	165
10	06A	4 Rows	6000	74.51	93.34	3.07	1.5	350	270	150
		6 Rows		93.38	107.82	4.00		350	250	170
11	06B	4 Rows	6000	76.45	95.28	3.67	0.55*2	350	270	155
		6 Rows		96.94	111.77	3.83		350	250	185
12	07B	4 Rows	7000	89.68	111.84	4.28	0.75*2	390	310	170
		6 Rows		116.85	132.23	5.58		390	290	190
13	08B	4 Rows	8000	103.41	128.31	4.95	0.75*2	360	280	195
		6 Rows		131.48	150.31	5.42		360	260	225
14	10B	4 Rows	10000	128.09	159.17	6.13	1.5*2	400	320	210
		6 Rows		160.82	174.20	6.00		400	300	240
15	12B	4 Rows	12000	142.36	181.13	6.80	1.5*2	350	270	235
		6 Rows		179.36	213.71	6.00		350	250	270
16	15B	4 Rows	15000	182.23	241.77	6.77	2.2*2	470	390	290
		6 Rows		230.97	273.83	7.13		470	370	330
17	15C	4 Rows	15000	183.32	242.35	6.90	1.5*3	400	320	310
		6 Rows		231.72	274.56	7.20		400	300	350

Note:

1- A: one fan, B: two fans, C: three fans.

2- Standard condition: fresh air condition.

3- Cooling standard condition: entering air temp.: 35°C D.B., 27°C W.B.

entering water temp.: 7°C, leaving water temp.: 12°C.

4- Heating standard condition: entering air temp.: 0°C D.B.

hot water entering temp.: 60°C.

Air Flow: 3000-36000m³/h



Indoor Inst.



Horizontal Inst



Chilled water



- ◆ No cold bridge design.
- ◆ High strength panel, environmental friendly, high insulation performance, improve the air purity.
- ◆ Unique frame structure, easy accessibility.
- ◆ Nice appearance, compact size, light weight, high efficiency and low noise.

Optional accessories

- ◆ Electric heater ◆ Heating coil ◆ Medium filter ◆ Humidifier ◆ Inveter ◆ Electrical protector

Specification I -return air condition

No.	Model	Air Flow (m ³ /h)	Rows	Cooling Capacity (kW)	Heating Capacity (kW)	Water Flow(l/s)	Water Resistance (kPa)	Motor Power (kw)		ESP(Pa)		Net Weight (kg)
								I	II	I	II	
1	VAH03W	3000	4 Rows	16.41	26.08	0.78	4.16	0.55	0.8	200	250	130
			6 Rows	24.39	32.38	1.17	7.71			170	220	137
2	VAH04W	4000	4 Rows	23.53	36.27	1.12	4.08	0.8	0.8	200	250	145
			6 Rows	33.76	43.97	1.61	7.16			170	220	155
3	VAH05W	5000	4 Rows	27.64	43.64	1.32	5.25	1.1	1.2	340	410	165
			6 Rows	40.64	53.96	1.94	9.55			310	380	175
4	VAH06W	6000	4 Rows	31.55	49.11	1.51	6.45	1.2	1.8	350	450	180
			6 Rows	45.85	63.32	2.19	11.5			320	420	195
5	VAH08W	8000	4 Rows	43.77	69.07	2.09	9.21	2.2	3.0	350	450	205
			6 Rows	58.82	81.94	2.81	14.6			320	420	220
6	VAH10W	10000	4 Rows	58.87	89.38	2.81	11.2	3.0	4.0	350	450	225
			6 Rows	77.56	105.4	3.71	17.1			320	420	245
7	VAH12W	12000	4 Rows	71.67	108.3	3.42	19.8	4.0	5.5	350	450	285
			6 Rows	96.31	128.1	4.6	31.3			320	420	305
8	VAH15W	15000	4 Rows	96.32	137.9	4.6	24.4	5.5	7.5	350	450	315
			6 Rows	120.5	162.3	5.76	33.9			320	420	345
9	VAH18W	18000	4 Rows	106.3	162.1	5.08	24.1	5.5	7.5	350	450	360
			6 Rows	151.5	197.3	7.24	41.4			320	420	400
10	VAH20W	20000	4 Rows	114.4	174.4	5.47	26.8	7.5	7.5	350	450	360
			6 Rows	160.2	214.9	7.65	46.2			320	420	400
11	VAH25W	25000	4 Rows	142.3	219.8	6.8	37.5	7.5	11.0	350	450	465
			6 Rows	205.5	270.6	9.82	66.4			320	420	515
12	VAH28W	28000	4 Rows	167.09	252.31	7.98	39.7	7.5	11	350	450	560
			6 Rows	234.8	314.62	11.22	71.5			320	420	600
13	VAH30W	30000	4 Rows	171.26	258.63	8.18	51.3	7.5	7.5	350	450	670
			6 Rows	246.57	327.93	11.78	91.7			320	420	710
14	VAH36W	36000	4 Rows	202.5	307.81	9.68	53.8	11	15	350	450	705
			6 Rows	278.12	369.89	13.29	96.9			320	420	750

Note: 1- I is low static pressure; II is high static pressure.

2- Standard condition: return air condition.

3- Cooling standard condition: entering air temp.: D.B.27°C, W.B.19.5°C, entering water temp.: 7°C, leaving water temp.:12°C.

4- Heating standard condition: entering air temp.: 21°C D.B. hot water entering temp.:60°C.

Specification II -fresh air condition

No.	Model	Air Flow (m ³ /h)	Rows	Cooling Capacity (kW)	Heating Capacity (kW)	Water Flow(l/s)	Water Resistance (kPa)	Motor Power (kw)		ESP(Pa)		Net Weight (kg)
								I	II	I	II	
1	VAH03W	3000	4 Rows	38.91	48.27	1.86	13.55	0.55	0.8	200	250	130
			6 Rows	50.54	56.99	2.41	19.84			170	220	137
2	VAH04W	4000	4 Rows	54.24	66.33	2.59	14.95	0.8	0.8	200	250	145
			6 Rows	69.36	77.21	3.31	21.88			170	220	155
3	VAH05W	5000	4 Rows	64.79	80.46	3.10	19.69	1.1	1.2	340	410	165
			6 Rows	84.11	94.98	4.02	29.52			310	380	175
4	VAH06W	6000	4 Rows	72.44	91.91	3.46	23.41	1.2	1.8	350	450	180
			6 Rows	93.65	109.1	4.47	34.87			320	420	195
5	VAH08W	8000	4 Rows	98.28	126.1	4.70	32.26	2.2	3.0	350	450	205
			6 Rows	126.7	146.8	6.05	47.58			320	420	220
6	VAH10W	10000	4 Rows	124.1	156.8	5.92	35.42	3.0	4.0	350	450	225
			6 Rows	163.6	186.4	7.82	54.45			320	420	245
7	VAH12W	12000	4 Rows	156.5	194.5	7.48	44.36	4.0	5.5	350	450	285
			6 Rows	203.2	228.9	9.71	66.49			320	420	305
8	VAH15W	15000	4 Rows	183.3	242.4	8.76	58.78	5.5	7.5	350	450	315
			6 Rows	231.1	274.6	11.1	73.55			320	420	345
9	VAH18W	18000	4 Rows	241.5	295.1	11.5	64.98	5.5	7.5	350	450	360
			6 Rows	291.8	338.1	14.1	85.32			320	420	400
10	VAH20W	20000	4 Rows	257.6	318.8	12.3	76.23	7.5	7.5	350	450	360
			6 Rows	312.3	367.5	14.9	93.17			320	420	400
11	VAH25W	25000	4 Rows	324.1	401.5	15.4	86.72	7.5	11.0	350	450	465
			6 Rows	379.4	453.4	18.1	114.4			320	420	515
12	VAH28W	28000	4 Rows	359.28	449.29	17.17	91.38	7.5	11	350	450	560
			6 Rows	429.28	513.03	20.51	125.6			320	420	600
13	VAH30W	30000	4 Rows	374.38	471.45	17.89	103.51	7.5	7.5	350	450	670
			6 Rows	452.59	542.91	21.62	131.4			320	420	710
14	VAH36W	36000	4 Rows	423.93	545.96	20.25	111.33	11	15	350	450	705
			6 Rows	507.7	653.65	24.26	155.3			320	420	750

Note: 1- I is low static pressure; II is high static pressure.

2- Standard condition: fresh air condition.

3- Cooling standard condition: entering air temp.: D.B.27°C, W.B.19.5°C, entering water temp.: 7°C, leaving water temp.:12°C.

4- Heating standard condition: entering air temp.: 0°C D.B. hot water entering temp.:60°C.

Air Flow: 3000-36000m³/h



Indoor&Outdoor Inst.



Vertical Inst



Water Cooled

- ◆ No cold bridge design.
- ◆ High strength panel, environmental friendly, high insulation performance, improve the air purity.
- ◆ Unique frame structure, easy accessibility.
- ◆ Nice appearance, compact size, light weight, high efficiency and low noise.

Optional accessories

- ◆ Electric heater
- ◆ Heating coil
- ◆ Medium filter
- ◆ Humidifier
- ◆ Inverter
- ◆ Electrical protector

Specification I -return air condition

No.	Model	Air Flow (m ³ /h)	Rows	Cooling Capacity (kW)	Heating Capacity (kW)	Water Flow (l/s)	Water Resistance (kPa)	Motor Power (kw)		ESP(Pa)		Net Weight (kg)
								I	II	I	II	
1	VAH03L	3000	4 Rows	16.41	26.08	0.78	4.16	0.55	0.8	200	250	140
			6 Rows	24.39	32.38	1.17	7.71			170	220	150
2	VAH04L	4000	4 Rows	23.53	36.27	1.12	4.08	0.8	0.8	200	250	160
			6 Rows	33.76	43.97	1.61	7.16			170	220	170
3	VAH05L	5000	4 Rows	27.64	43.64	1.32	5.25	1.1	1.2	340	410	180
			6 Rows	40.64	53.96	1.94	9.55			310	380	195
4	VAH06L	6000	4 Rows	31.55	49.11	1.51	6.45	1.2	1.8	350	450	200
			6 Rows	45.85	62.32	2.19	11.5			320	420	215
5	VAH08L	8000	4 Rows	43.77	69.07	2.09	9.21	2.2	3.0	350	450	245
			6 Rows	58.82	81.94	2.81	14.6			320	420	260
6	VAH10L	10000	4 Rows	58.87	89.38	2.81	11.2	3.0	4.0	350	450	260
			6 Rows	77.56	105.4	3.71	17.1			320	420	280
7	VAH12L	12000	4 Rows	71.67	108.3	3.42	19.8	4.0	5.5	350	450	325
			6 Rows	96.31	128.1	4.60	31.3			320	420	350
8	VAH15L	15000	4 Rows	96.32	137.9	4.60	24.4	5.5	7.5	350	450	360
			6 Rows	120.5	162.3	5.76	33.9			320	420	390
9	VAH18L	18000	4 Rows	106.3	162.1	5.08	24.1	5.5	7.5	350	450	410
			6 Rows	151.5	197.3	7.24	41.4			320	420	450
10	VAH20L	20000	4 Rows	114.4	174.4	5.47	26.8	7.5	7.5	350	450	410
			6 Rows	160.2	214.9	7.65	46.2			320	420	450
11	VAH25L	25000	4 Rows	142.3	219.8	6.80	37.5	7.5	11.0	350	450	530
			6 Rows	205.5	270.6	9.82	66.4			320	420	575
12	VAH28L	28000	4 Rows	167.09	252.31	7.98	39.7	7.5	11	350	450	560
			6 Rows	234.8	314.62	11.22	71.5			320	420	600
13	VAH30L	30000	4 Rows	171.26	258.63	8.18	51.3	7.5	7.5	350	450	670
			6 Rows	246.57	327.93	11.78	91.7			320	420	710
14	VAH36L	36000	4 Rows	202.5	307.81	9.68	53.8	11	15	350	450	705
			6 Rows	278.12	369.89	13.29	96.9			320	420	750

Note: 1- I is low static pressure; II is high static pressure.

2- Standard condition: return air condition.

3- Cooling standard condition: entering air temp.: D.B.27°C, W.B.19.5°C, entering water temp.: 7°C, leaving water temp.: 12°C.

4- Heating standard condition: entering air temp.: 21°C D.B. hot water entering temp.: 60°C.

Specification II -fresh air condition

No.	Model	Air Flow (m ³ /h)	Rows	Cooling Capacity (kW)	Heating Capacity (kW)	Water Flow (l/s)	Water Resistance (kPa)	Motor Power (kw)		ESP(Pa)		Net Weight (kg)
								I	II	I	II	
1	VAH03L	3000	4 Rows	38.91	48.27	1.86	13.55	0.55	0.8	200	250	140
			6 Rows	50.54	56.99	2.41	19.84			170	220	150
2	VAH04L	4000	4 Rows	54.24	66.33	2.59	14.95	0.8	0.8	200	250	160
			6 Rows	69.36	77.21	3.31	21.88			170	220	170
3	VAH05L	5000	4 Rows	64.79	80.46	3.10	19.69	1.1	1.2	340	410	180
			6 Rows	84.11	94.98	4.02	29.52			310	380	195
4	VAH06L	6000	4 Rows	72.44	91.91	3.46	23.41	1.2	1.8	350	450	200
			6 Rows	93.65	109.1	4.47	34.87			320	420	215
5	VAH08L	8000	4 Rows	98.28	126.1	4.70	32.26	2.2	3.0	350	450	245
			6 Rows	126.7	146.8	6.05	47.58			320	420	260
6	VAH10L	10000	4 Rows	124.1	156.8	5.92	35.42	3.0	4.0	350	450	260
			6 Rows	163.6	186.4	7.82	54.45			320	420	280
7	VAH12L	12000	4 Rows	156.5	194.5	7.48	44.36	4.0	5.5	350	450	325
			6 Rows	203.2	228.9	9.71	66.49			320	420	350
8	VAH15L	15000	4 Rows	183.3	242.4	8.76	58.78	5.5	7.5	350	450	360
			6 Rows	231.1	274.6	11.1	73.55			320	420	390
9	VAH18L	18000	4 Rows	241.5	295.1	11.5	64.98	5.5	7.5	350	450	410
			6 Rows	291.8	338.1	14.1	85.32			320	420	450
10	VAH20L	20000	4 Rows	257.6	318.8	12.3	76.23	7.5	7.5	350	450	410
			6 Rows	312.3	367.5	14.9	93.17			320	420	450
11	VAH25L	25000	4 Rows	324.1	401.5	15.4	86.72	7.5	11.0	350	450	530
			6 Rows	379.4	453.4	18.1	114.4			320	420	575
12	VAH28L	28000	4 Rows	359.28	449.29	17.17	91.38	7.5	11	350	450	560
			6 Rows	429.28	513.03	20.51	125.6			320	420	600
13	VAH30L	30000	4 Rows	374.38	471.45	17.89	103.51	7.5	7.5	350	450	670
			6 Rows	452.59	542.91	21.62	131.4			320	420	710
14	VAH36L	36000	4 Rows	423.93	545.96	20.25	111.33	11	15	350	450	705
			6 Rows	507.7	653.65	24.26	155.3			320	420	750

Note:

1- I is low static pressure; II is high static pressure.

2- Standard condition: fresh air condition.

3- Cooling standard condition: entering air temp.: D.B.27°C, W.B.19.5°C, entering water temp.: 7°C, leaving water temp.:12°C.

4- Heating standard condition: entering air temp.: 0°C D.B. hot water entering temp.:60°C.

Air Flow Range: 1500-240000 m³/h



Indoor&Outdoor Inst.



Horizontal Inst



Water Cooled



- ◆ Scientific modular design, excellent interchangeability, convenient installation.
- ◆ Cooling coil is high efficiency copper with ripple aluminum fin structure, dust free and high heat exchange efficiency, low air resistance.
- ◆ Tailor-made aluminum alloy structure, no cold bridge design, excellent insulation performance, excellent air tightness.
- ◆ Double steel plate with insulation material between the two steel plates, excellent thermal insulation performance.
- ◆ Particular PVC labyrinth seal structure, maximally reduce the air leaking rate.

Optional accessories

- ◆ Sight window ◆ Lamp ◆ Differential pressure switch ◆ Control box Inverter ◆ Electrical actuator

Specification-return air condition

Model	Rated Air Flow	Air Flow (m ³ /h)					Face Area(m ²)
	m ³ /h	2.25m/s	2.5m/s	2.75m/s	3.0m/s	3.25m/s	
VAQ0202	1500	1322	1469	1616	1763	1909	0.16
VAQ0203	3000	2605	2894	3184	3473	3763	0.32
VAQ0204	4000	3888	4320	4752	5184	5616	0.48
VAQ0303	5000	4342	4824	5306	5789	6271	0.54
VAQ0304	8000	6480	7200	7920	8640	9360	0.80
VAQ0404	10000	9072	10080	11088	12096	13104	1.12
VAQ0405	15000	11975	13306	14636	15967	17297	1.48
VAQ0505	20000	15396	17107	18818	20529	22239	1.90
VAQ0506	25000	19246	21384	23522	25661	27799	2.38
VAQ0606	30000	23522	26136	28750	31363	33977	2.90
VAQ0607	35000	28227	31363	34500	37636	40772	3.48
VAQ0707	40000	33359	37066	40772	44479	48185	4.12
VAQ0708	45000	38413	42682	46950	51218	55486	4.74
VAQ0808	50000	44323	49248	54173	59098	64022	5.47
VAQ0809	60000	50544	56160	61776	67392	73008	6.24
VAQ0909	70000	57283	63648	70013	76378	82742	7.07
VAQ0910	80000	64554	71726	78899	86072	93244	7.97
VAQ0911	90000	71824	79805	87785	95766	103746	8.87
VAQ0912	100000	79095	87883	96672	105460	114248	9.76
VAQ0913	110000	86806	96451	106096	115741	125387	10.72
VAQ0914	125000	89891	99878	109866	119854	129842	11.10
VAQ1014	150000	100466	111629	122792	133955	145117	12.40
VAQ1314	180000	126904	141005	155105	169206	183306	15.67
VAQ1415	200000	153965	171072	188179	205286	222394	19.01
VAQ1515	240000	171072	190080	209088	228096	247104	21.12

Model	VAQ0202	VAQ0203	VAQ0204	VAQ0303	VAQ0304	VAQ0404	VAQ0405	VAQ0505	VAQ0506	VAQ0606	VAQ0607	VAQ0707	VAQ0708
Height	660	660	660	990	990	1320	1320	1650	1650	1980	1980	2310	2310
Width	660	990	1320	990	1320	1320	1650	1650	1980	1980	2310	2310	2640

Model	VAQ0808	VAQ0809	VAQ0909	VAQ0910	VAQ0911	VAQ0912	VAQ0913	VAQ0914	VAQ1014	VAQ1314	VAQ1415	VAQ1515
Height	2640	2640	2970	2970	2970	2970	2970	2970	3300	4290	4620	4950
Width	2640	2970	2970	3300	3630	3960	4290	4620	4620	4620	4950	4950



The Same Breath, Energy Saving Together.



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March, 2015

Vicot reserves the right of modification without prior notice