

Be professional, be the best in China,  
and to become a leading Global brand.



维克空调  
Veck Air Conditioning

Veck (Tianjin) Co., Ltd.  
No.16 Yuanhe Road, Wuqing Development Area, Tianjin

Veck (Jiangsu) Environment Technology Co., Ltd.  
No. 22 Yihou Road, Zhenjiang New District, Zhenjiang, Jiangsu Province

Veck (Guangzhou) Environment Control Equipment Co., Ltd.  
No. 2 Baoju Road, Mingzhu Industrial Park, Conghua District, Guangzhou

Tel.: 022-58953588 Fax: 022-58953511  
Post code: 301700  
www.veckchina.com

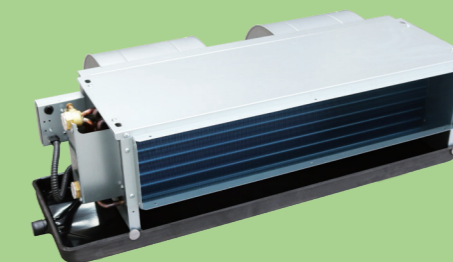
The contents of sample may change due to upgrading of products, without further notice.  
The final explanation right belongs to our company.

V2301

VFC-B series



## FAN COIL UNIT



维克空调  
Veck Air Conditioning

## Company profile

**V**eck (Tianjin) Co. Ltd. is located in the National Development Zone of Tianjin Wuqing. It is an enterprise with integrated research and development, manufacturing, sales and service activities. Veck is ISO 9001 – 2015 certified for by Quality Management System by March 2018. We are led by a professional Management team, supported by an innovative R & D team with comprehensive testing facilities and equipped with first-class manufacturing facilities.

This synergy culminated in our high-quality products which received various certifications namely AHRI, CRAA, 3C and Energy Saving product labels. More than 30 sales and service branches are opened throughout China to provide good and efficient services for our customer base. These approaches are all in line with our pursuit to meet and exceed professional and industry standards.

Veck is dedicated to becoming an expert in air quality; both in air conditioning and air purification. In this endeavor, Veck has patents for advanced technology; ranging from energy saving to outstanding performance. We not only provide products to meet customers needs, but also provide a holistic solution to create clean and comfortable environment for our customers.

Veck believes that the basic requirements of the customer is to receive high-quality products as well as good and efficient service.

Veck believes and strives for a future that by consistently manufacturing high quality products, Veck will become a respected enterprise.



**01** Ceiling Concealed Type Fan Coil Unit

**11** Vertical Concealed Fan Coil Unit

**13** Vertical Exposed / Ceiling Exposed Fan Coil Unit

**15** Cassette Fan Coil Unit

**18** Parameter Table on Cooling Capacity of Variable Working Condition

**24** Parameter Table on Heating Capacity of Variable Working Condition

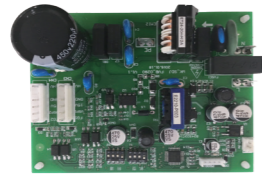
**26** Wiring Diagrams

**29** Installation and Maintenance



## Brushless DC Fan Coil

The fan coil unit adopts DC brushless motor, and the energy consumption of the unit is at the international leading level. It realizes the stepless speed regulation control of the fan coil unit, DC operation, and the motor performance is obviously due to the common AC motor, which has the characteristics of energy saving, low noise and long service life.



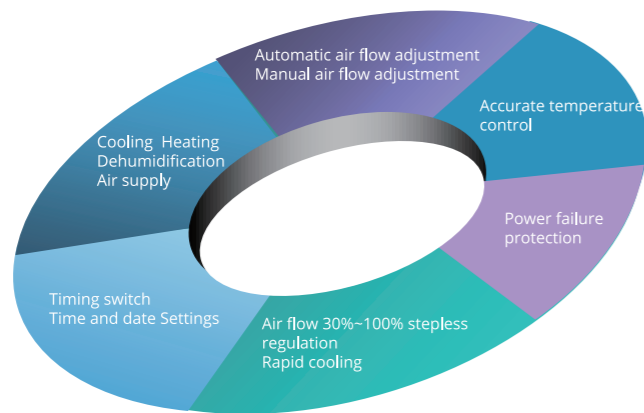
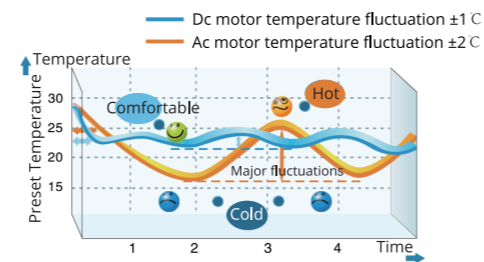
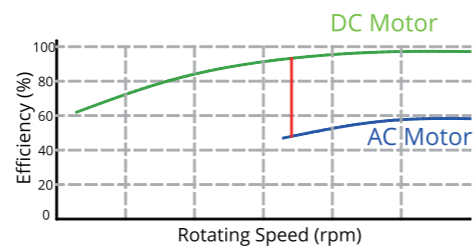
## Features

### Energy efficient

- The overall efficiency of the motor is doubled compared with that of the conventional motor, and the average energy consumption is only 50%~70% of that of the conventional AC motor.
- In the automatic mode, the user can steplessly adjust the motor speed to further reduce the power consumption of the unit;
- Various speed of the unit can be adjusted in combination, which can realize rapid refrigeration and provide customers with comfortable and quiet life experience.

### Comfortable

- The thermostat achieves precise control of the room temperature  $\pm 1$  °C by calculating the indoor temperature parameters;
- The motor completely gets rid of the hot and cold air supply dilemma of traditional air conditioning through the linear adjustment of air volume from 30% to 100%. It creates a comfortable and quiet indoor environment.
- Various speed of the unit can be adjusted in combination, which can realize rapid refrigeration and provide customers with comfortable and quiet life experience.



### Quiet

- The motor is controlled by sine wave PWM, running, starting and stopping smoothly, which can better reduce the vibration and noise during the operation of the unit.
- The linear stepless adjustment of the air volume ensures that the unit can operate at lower speeds with better noise levels.

### Intelligence

- The unit is equipped with RS485 communication interface and supports the standard Modbus communication protocol. It can interact with the building automatic control system to realize centralized operation management of remote control and monitoring.
- Use full mirror liquid crystal thermostat, beautiful and generous, with the building decoration perfect integration.

Notes: According to customer demand, VECK provides "Three speed regulation" and "Stepless speed regulation" two options for customers to choose.

## Engineering Specifications

### Ceiling Concealed Fan Coil Unit (3 rows coil)

Model	200B	300B	400B	500B	600B	700B	800B	1000B	1200B	1400B	
Air Flow m³/h	High	350	520	680	850	1030	1190	1380	1710	2400	
	Medium	270	380	510	640	780	905	1030	1290	1975	
	Low	190	280	340	450	560	650	740	980	1255	
Total Cooling Capacity W	High	2250	3120	4160	5190	5950	7000	8270	9340	11240	
	Medium	1960	2700	3480	4430	5170	5952	7200	8250	9870	
	Low	1510	2050	2580	3430	4260	4479	5490	6610	7300	
Sensible Cooling Capacity W	High	1570	2230	2912	3710	4280	4900	5990	6860	9160	
	Medium	1290	1820	2390	3030	3580	4270	5000	6050	7840	
	Low	930	1350	1720	2200	2580	3020	3590	4580	5600	
Heating Capacity W(60°C)	High	3630	5330	7010	8330	9820	11000	13400	15500	18420	
Heating Capacity W(45°C)	High	2171	3234	4223	5165	6275	6784	8416	9843	11838	
Fan	Type	Centrifugal forward curved fan									
	Quantity	1	2	2	2	2	3	4	4	4	
Motor	Type	Single-phase capacitor running motor									
	Insulation Class	B									
	Power Supply	220V/1 ~ /50Hz									
Rated Power Input W	Quantity	1	1	1	1	1	1	2	2	2	
	12Pa	35	46	60	74	93	109	130	147	183	
	30Pa	41	57	70	84	105	121	145	169	206	
Cooling Coil	50Pa	48	64	81	97	114	130	160	198	225	
	Type	Seamless copper tube mechanically bonded to aluminium hydrophilic fins and collars									
	Maxr. Working Pressure (MPa)	2.0									
Weight, Dimension	Pipe Connection	Rc3/4 (Female threaded)									
	Water Flow Rate kg/h	386	536	716	892	1023	1204	1422	1606	1933	
	Water Pressure Drop kPa	27	27	20	30	34	32	40	28	40	
Sound Pressure Level dB(A)	Weight kg	11	14	16	17	18	19	26	28	31	
	Length mm	650	800	880	940	1040	1220	1460	1510	1760	
	Width mm	470	470	470	470	470	470	470	470	470	
	Height mm	237	237	237	237	237	237	237	237	279	
Cooling efficiency coefficient (FCEER)	12Pa	36	37	38	42	45	46	46	47	51	
	30Pa	39	41	43	44	46	47	47	49	52	
	50Pa	42	43	45	47	49	49	50	52	53	
Heating efficiency coefficient of 45°C (FCCOP)	12Pa	58	61	64	62	55	59	55	56	53	
	30Pa	50	52	55	56	50	54	50	49	48	
	50Pa	43	46	48	49	46	50	46	43	41	
Heating efficiency coefficient of 60°C (FCCOP)	12Pa	56	63	65	62	58	57	56	59	54	
	30Pa	48	54	56	55	52	52	51	52	51	
	50Pa	42	48	49	49	49	49	47	45	44	
Condensate Drain Size	12Pa	93	104	107	100	91	93	89	93	87	
	30Pa	81	88	93	89	82	84	81	82	79	
	50Pa	70	79	81	78	76	79	74	71	65	

Notes:

- Cooling capacity is based on the following condition:
  - Water temperature: 7°C(inlet)/12°C(outlet)
  - Air entering condition: 27°C DB/19.5°C WB
- Heating capacity is based on the following condition (with same water flow rate as cooling cycle):
  - Water temperature: 60°C(inlet)
  - Air entering condition: 21°C DB
- The air volume, total cooling/sensible cooling, heating capacity, noise and other parameters in the table are all measured when the unit is not equipped with any accessories. If accessories are added (such as return air box, filter screen, etc.), the parameter will be changed
- The low static pressure in the table indicates that the air outlet static pressure is 0 Pa (with the air outlet and filter) or 12Pa (without air outlet and filter).
- The air volume is tested under entering air condition of 25°C DB and dry coil condition.
- The sound pressure level is based on 7dB(A) anechoic room background noise.
- Extended Drain Pan is optional upon request.
- The left and right mode of unit can be adjusted on site. After exchanging, the cool and heat shall be multiplied by the correction factor 0.93.
- The manufacture reserves the rights to make changes to the above specification without prior notice.

## Engineering Specifications

### Ceiling Concealed Brushless DC Fan Coil Unit

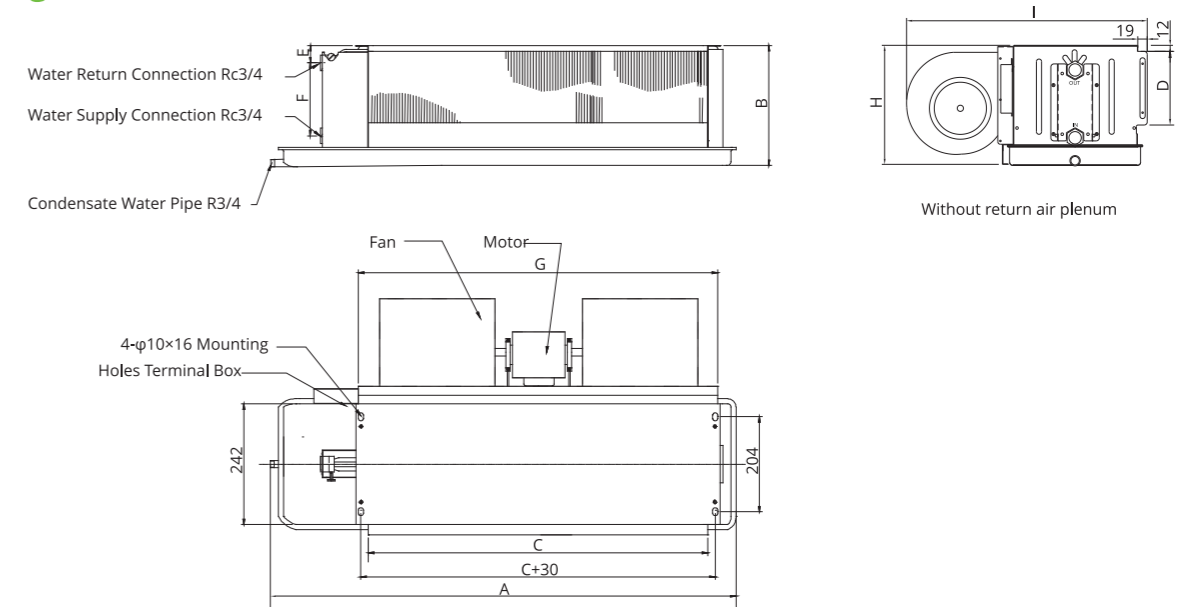
Model		200B	300B	400B	500B	600B	700B	800B	1000B	1200B
Air Flow m <sup>3</sup> /h	High	350	520	680	850	1030	1190	1380	1710	2040
	Medium	270	380	510	640	780	905	1030	1290	1540
	Low	190	280	340	450	560	650	740	980	1040
Total Cooling Capacity W	High	2250	3120	4160	5190	5950	7000	8270	9340	11240
	Medium	1960	2700	3480	4430	5170	5952	7200	8250	9870
	Low	1510	2050	2580	3430	4260	4479	5490	6610	7300
Sensible Cooling Capacity W	High	1570	2230	2912	3710	4280	4900	5990	6860	8660
	Medium	1290	1820	2390	3030	3580	4270	5000	6050	7210
	Low	930	1350	1720	2200	2580	3020	3590	4580	4940
Heating Capacity W(60°C)	High	3630	5330	7010	8330	9820	11000	13400	15500	18420
Heating Capacity W(45°C)	High	2171	3234	4223	5165	6275	6784	8416	9843	11838
Fan	Type	Centrifugal forward curved fan								
	Quantity	1	2	2	2	2	2	3	4	4
Motor	Type	Brushless DC motor (built-in AC-DC switch)								
	Insulation Class	B								
	Power Supply	220V/1 ~ /50Hz								
	Quantity	1	1	1	1	1	1	1	2	2
Rated Power Input W	12Pa	16	22	27	40	53	67	69	80	114
	30Pa	20	27	36	49	67	73	87	104	140
	50Pa	29	38	47	66	85	90	101	134	173
Cooling Coil	Type	Seamless copper tube mechanically bonded to aluminium hydrophilic fins and collars								
	Maxr. Working Pressure (MPa)	2.0								
	Pipe Connection	Rc3/4 (Female threaded)								
	Water Flow Rate kg/h	386	536	716	892	1023	1204	1422	1606	1933
Weight, Dimension	Water Pressure Drop kPa	27	27	20	30	34	32	40	28	40
	Weight kg	11	14	16	17	18	19	26	28	31
	Length mm	650	800	880	940	1040	1220	1460	1510	1760
	Width mm	470	470	470	470	470	470	470	470	470
Sound Pressure Level dB(A)	Height mm	237	237	237	237	237	237	237	237	237
	12Pa	36	37	38	42	45	46	46	47	49
	30Pa	39	41	43	44	46	47	47	49	51
	50Pa	42	43	45	47	49	49	50	52	53
Cooling efficiency coefficient (FCEER)	12Pa	113	114	129	105	87	91	93	93	79
	30Pa	94	103	101	89	72	85	77	75	67
	50Pa	68	75	80	69	59	70	68	59	56
Heating efficiency coefficient of 45°C (FCCOP)	12Pa	109	118	131	105	92	88	95	98	83
	30Pa	91	106	102	89	76	82	79	79	70
	50Pa	66	78	81	69	63	68	70	63	59
Heating efficiency coefficient of 60°C (FCCOP)	12Pa	183	195	217	169	144	143	151	155	130
	30Pa	152	175	170	143	120	133	125	125	110
	50Pa	110	129	134	111	98	110	111	99	92
Condensate Drain Size		R3/4(Male Threaded)								

#### Notes:

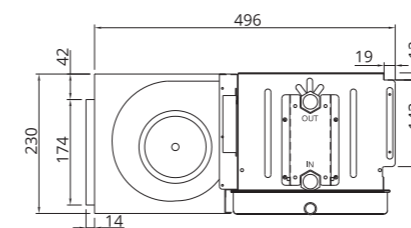
- Cooling capacity is based on the following condition:
  - Water temperature: 7°C(inlet)/12°C(outlet)
  - Air entering condition: 27°C DB/19.5°C WB
- Heating capacity is based on the following condition(with same water flow rate as cooling cycle):
  - Water temperature: 60°C(inlet)
  - Air entering condition: 21°C DB
- The air volume, total cooling/sensible cooling, heating capacity, noise and other parameters in the table are all measured when the unit is not equipped with any accessories. If accessories are added (such as return air box, filter screen, etc.), the parameter will be changed
- The low static pressure in the table indicates that the air outlet static pressure is 0 Pa (with the air outlet and filter) or 12Pa (without air outlet and filter).
- The air volume is tested under entering air condition of 25°C DB and dry coil condition.
- The sound pressure level is based on 7dB(A) anechoic room background noise.
- The standard configuration of unit is equipped with thermostat.
- Extended Drain Pan is optional upon request.
- The left and right mode of unit can be adjusted on site. After exchanging, the cool and heat shall be multiplied by the correction factor 0.93.
- The manufacture reserves the rights to make changes to the above specification without prior notice.

## Dimensions

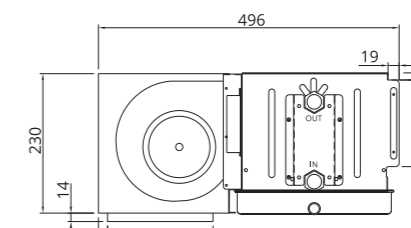
### Ceiling Concealed Fan Coil Unit



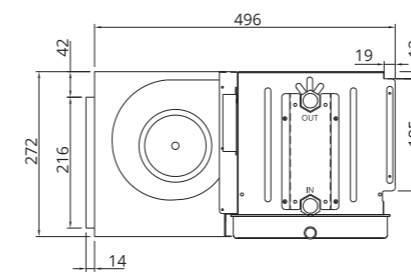
Model VFC	A	B	C	D	E	F	G	H	I	Motor No.	Fan No.
200B	650	237	435	143	39	131	475	232	470	1	1
300B	800	237	585	143	39	131	625	232	470	1	2
400B	880	237	665	143	39	131	705	232	470	1	2
500B	940	237	725	143	39	131	765	232	470	1	2
600B	1040	237	825	143	39	131	865	232	470	1	2
700B	1220	237	1005	143	39	131	1045	232	470	1	2
800B	1460	237	1205	143	39	131	1245	232	470	2	3
1000B	1510	237	1255	143	39	131	1295	232	470	2	4
1200B	1760	237	1505	143	39	131	1545	232	470	2	4
1400B	1760	279	1505	185	39	173	1545	274	470	2	4



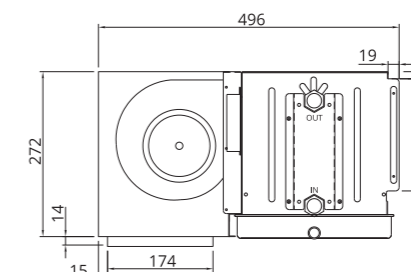
With Back Air Plenum (VFC200-1200B)



With Bottom Air Plenum (VFC200-1200B)



With Back Air Plenum (VFC1400B)



With Bottom Air Plenum (VFC1400B)

VFC	Air return bellows length	Air return port length
200B	478	418
300B	628	568
400B	708	648
500B	768	708
600B	868	808
700B	1048	988
800B	1248	1188
1000B	1298	1238
1200B	1548	1488
1400B	1548	1488

## Engineering Specifications

### Ceiling Concealed Fan Coil Unit (4 rows coil)

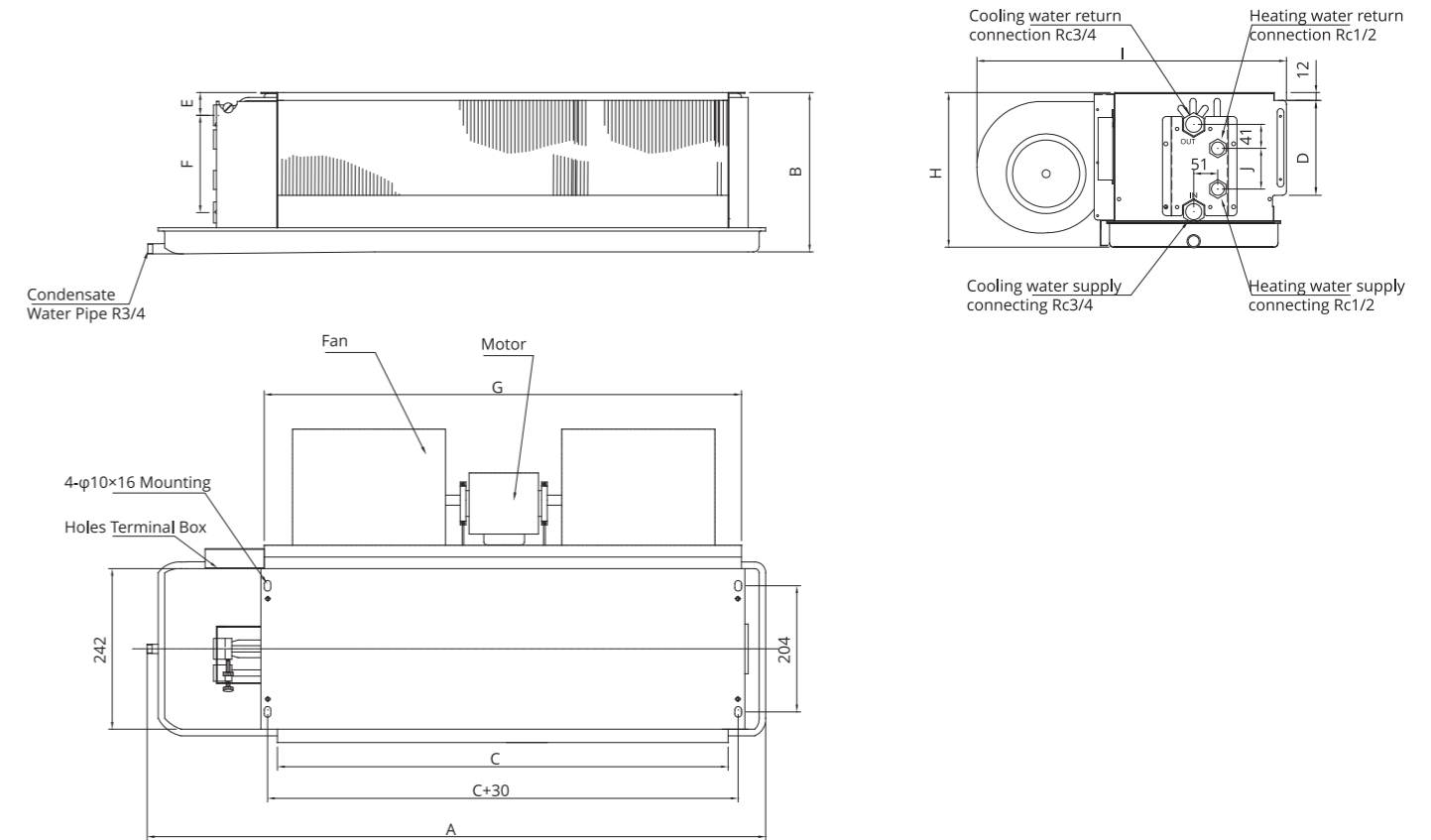
Model VFC		200B	300B	400B	500B	600B	700B	800B	1000B	1200B	1400B
Air Flow (m³/h)	High	340	500	670	840	1010	1170	1350	1680	2000	2380
	Medium	260	380	510	630	760	870	1010	1270	1500	1750
	Low	180	240	340	420	570	560	650	850	1000	1160
Total Cooling Capacity (W)	High	2150	3120	4020	4900	5990	6700	7860	9250	11000	12600
	Medium	1830	2720	3580	4390	5170	5840	6950	7920	9550	11910
	Low	1450	2140	2780	3190	4020	4200	5350	6220	7120	8570
Sensible Cooling Capacity (W)	High	1510	2280	2970	3670	4450	5110	5840	7620	8570	10500
	Medium	1210	1910	2520	3150	3650	4140	4940	5800	7070	8670
	Low	900	1380	1830	2140	2670	2760	3570	4290	4860	5860
Heating Capacity W (Heating coil)	High	1780	2710	3410	4160	4940	6020	6900	8050	8910	11000
Fan	Type	Centrifugal forward curved fan									
	Quantity	1	2	2	2	2	2	3	4	4	4
Motor	Type	Single-phase capacitor running motor									
	Insulation Class	B									
	Power Supply	220V/1~/50Hz									
	Quantity	1	1	1	1	1	1	1	2	2	2
Rated Power Input W	12Pa	36	46	57	75	96	112	128	147	182	221
	30Pa	39	55	70	86	103	127	143	169	208	245
	50Pa	47	65	81	94	113	133	166	198	225	283
Cooling Coil	Type	Seamless copper tube mechanically bonded to aluminium hydrophilic fins and collars									
	Maxr. Working Pressure (MPa)	2.0									
Pipe Connection	Cooling coil	Rc3/4 (Female threaded)									
	Heating coil	Rc3/4 (Female threaded)									
Water Flow Rate Kg/h	Cooling coil	370	537	691	843	1030	1152	1352	1591	1892	2167
	Heating coil	130	190	230	280	350	400	460	570	660	780
Water Pressure Drop kPa	Cooling coil	27	27	20	30	34	32	40	28	40	50
	Heating coil	4	7	10	15	24	34	22	24	37	39
Weight, Dimension	Weight (kg)	12	15	17	18	19	21	28	30	33	36
	Length (mm)	650	800	880	940	1040	1220	1460	1510	1760	1760
	Width (mm)	470	470	470	470	470	470	470	470	470	470
	Height (mm)	237	237	237	237	237	237	237	237	237	279
Sound Pressure Level dB(A)	12Pa	36	37	38	42	45	46	46	47	49	51
	30Pa	39	42	43	45	46	48	48	50	52	54
	50Pa	42	44	46	47	49	49	50	52	54	56
Condensate Drain Size		R3/4(Male Threaded)									

#### Notes:

- Cooling capacity is based on the following condition: a. Water temperature: 7°C(inlet)/12°C(outlet) b. Air entering condition: 27°C DB/19.5°C WB
- Heating capacity is based on the following condition(with same water flow rate as cooling cycle): a. Water temperature: 60°C(inlet) b. Air entering condition: 21°C DB
- The low static pressure in the table indicates that the air outlet static pressure is 0 Pa (with the air outlet and filter) or 12Pa (without air outlet and filter).
- The air volume is tested under entering air condition of 20°C DB and dry coil condition.
- The sound pressure level is based on 7dB(A) anechoic room background noise.
- Extended Drain Pan is optional upon request.
- The 4 rows coil unit has 3 rows of cooling coil and 2 rows of heating coil.
- The manufacture reserves the rights to make changes to the above specification without prior notice.

## Dimensions

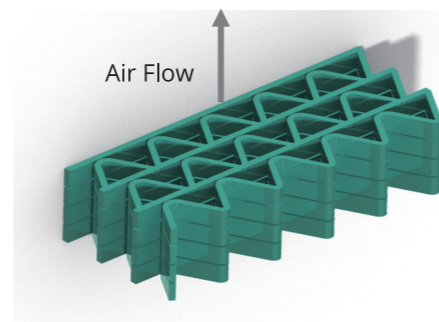
### Ceiling Concealed Fan Coil Unit (4 rows coil)



Model VFC	A	B	C	D	E	F	G	H	I	J	Motor No.	Fan No.
200B	650	237	435	143	39	131	475	232	470	50	1	1
300B	800	237	585	143	39	131	625	232	470	50	1	2
400B	880	237	665	143	39	131	705	232	470	50	1	2
500B	940	237	725	143	39	131	765	232	470	50	1	2
600B	1040	237	825	143	39	131	865	232	470	50	1	2
700B	1220	237	1005	143	39	131	1045	232	470	50	1	2
800B	1460	237	1205	143	39	131	1245	232	470	50	2	3
1000B	1510	237	1255	143	39	131	1295	232	470	50	2	4
1200B	1760	237	1505	143	39	131	1545	232	470	50	2	4
1400B	1760	279	1505	185	39	173	1545	274	470	92	2	4

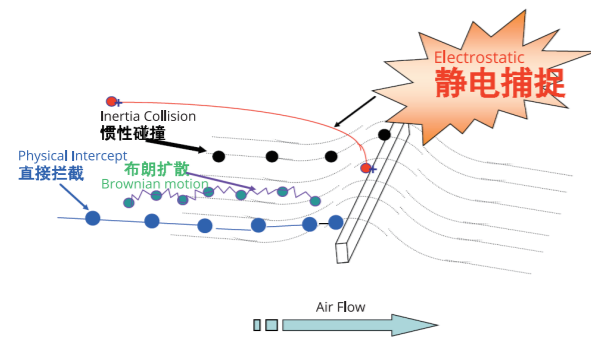
## Fan Coil Purification Unit

Under the increasingly serious air pollution environment, higher requirements have been put forward for the air quality in the room. Combining with advanced technology, VECK has launched the fan coil purification unit. The purification unit can filter dust, PM2.5 and other pollutants in the air and play a role in purifying the air.

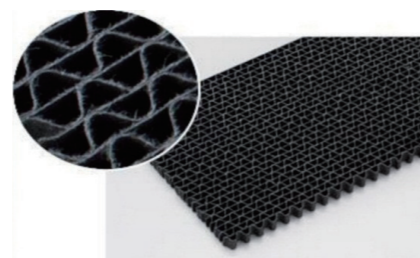


## PM2.5 Filter Features

- High efficiency: Electrostatic gravity capture dust, PM2.5 pollutant particles.
- Low drag: Unique open channel structure, low airflow resistance.
- No pollution: The filter will not produce ozone and other pollutants during the work process.
- Advanced filter material: High polymer filter material, with moisture resistance, corrosion resistance.
- Stable performance: The filters have been tested in temperature and humidity conditions to ensure stable performance in the use process.
- Long service life: The static electricity of the filter can be kept for a long time



序号	检测项目	单位	检测结果
1	PM2.5净化效率 (PM2.5-OP10)	%	75
2	PM2.5净化效率	PM2.5	95%
		PM10	95%
		PM10	95%
		PM10	95%
		PM10	95%
		PM10	95%
		PM10	95%
		PM10	95%
		PM10	95%
		PM10	95%



## Formaldehyde Filter

Formaldehyde filters are made from special glass fibers. When the air passes through the filter, the filter breaks the aldehyde group bonds of formaldehyde and forms a new molecule, which is fixed on the surface of the filter by molecular force. There will be no secondary release of transition adsorption.

## Specification Data

型号	VFC200B	VFC300B	VFC400B	VFC500B	VFC600B	VFC700B	VFC800B	VFC1000B	VFC1200B	VFC1400B
Air Flow (m³/h)	350	520	680	850	1030	1190	1380	1710	2040	2400
Air Velocity (m/s)	1.2	1.5	1.7	1.8	1.9	1.9	1.9	2.0	2.0	2.1
PM2.5 Cycle Efficiency	≥ 96%	≥ 96%	≥ 96%	≥ 96%	≥ 96%	≥ 96%	≥ 96%	≥ 96%	≥ 96%	≥ 96%
Air Resistance (Pa)	7.6	10	12	13	14	14	14	15	15	16.4

## Specifications

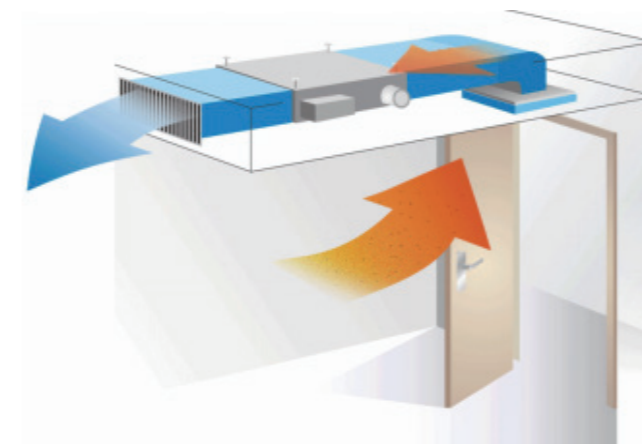
Unit: mm

Model	Specification (mm)			
	Return bellows installation		Tuyere installation	
	PM2.5	Formaldehyde	PM2.5	Formaldehyde
200B	471x218	225x225	417x171	417x171
300B	621x218	225x225	567x171	567x171
400B	701x218	225x225	647x171	647x171
500B	761x218	450x225	707x171	707x171
600B	861x218	450x225	807x171	807x171
700B	1041x218	450x225	987x171	897x171
800B	1241x218	450x225	1187x171	1187x171
1000B	1291x218	450x225	1237x171	1237x171
1200B	1541x218	675x225	1487x171	1487x171
1400B	1541x260	675x267	1487x213	1487x213

Notes:

- If the filter is installed on the air return plenum, please order according to the model code.
- If the filter is installed on the air conduit, please order according to the size specification.

## Purification Principle



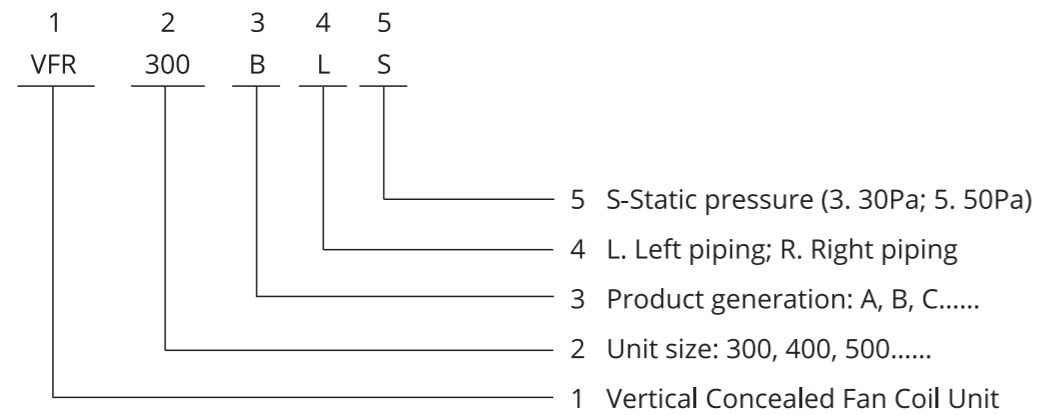
## Installation and Maintenance

- The fan coil purification unit is protected by transparent plastic wrap. Please open the package in the clean room to avoid dust pollution filter.
- The front of the fan coil purification unit needs to have a nylon filter screen for the initial air filtration.
- The location of the fan coil purification unit installation should be easy to maintain.
- The fan coil purification unit can be installed in the return air grille, but the size of the return air port should be reserved according to the filter specifications.

## Others

- The maintenance of the fan coil purification unit shall be carried out by means of replacement, and the replacement period shall be determined according to the specific working environment. The air flow of the filter can be restored through the vacuum cleaner to extend the service time.
- The fan coil purification unit need to be used indoors, T0°C-40°C, RH30%-85%.
- Avoid using the fan coil purification unit in moist environments to prevent moisture from damaging the filters.
- Avoid installing the fan coil purification unit in places with oil and lampblack.
- Avoid installing the fan coil purification unit in factories where harmful gases and corrosive gases are produced, such as acid and alkali, organic solvents, paints, flammable gases, etc.

## Model Number Descriptions-Vertical Concealed Fan Coil Unit



## Engineering Specifications-Vertical Concealed Fan Coil Unit

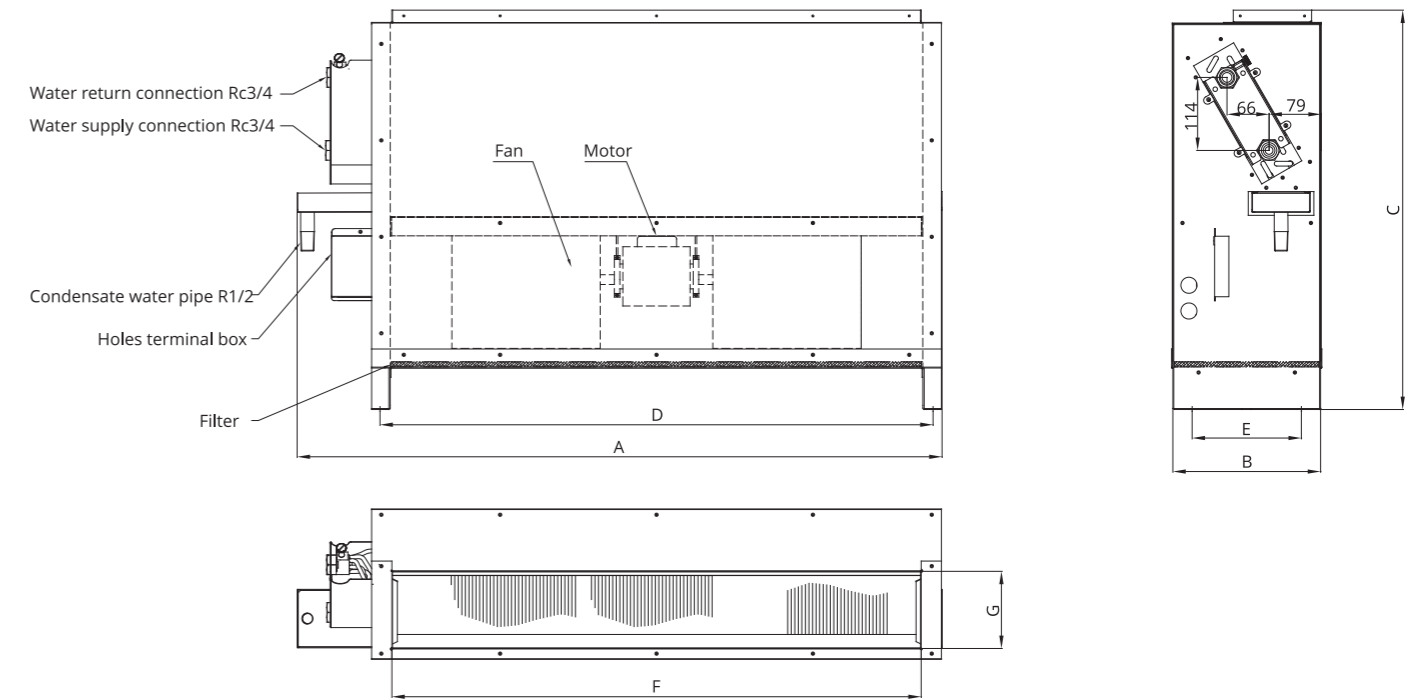
Mode VFR		300B	400B	500B	600B	700B	800B	1000B	1200B
Air Flow m³/h	High	520	680	850	1030	1190	1380	1710	2040
	Medium	380	510	640	780	905	1030	1290	1540
	Low	280	340	450	560	650	740	980	1040
Total Cooling Capacity W	High	3120	4160	5190	5950	7000	8270	9340	11240
	Medium	2700	3480	4430	5170	5952	7200	8250	9870
	Low	2050	2580	3430	4260	4479	5490	6610	7300
Sensible Cooling Capacity W	High	2230	3050	3710	4280	4890	5990	6860	8660
	Medium	1820	2390	3030	3580	4270	5000	6050	7210
	Low	1350	1720	2200	2580	3020	3590	4580	4940
Heating Capacity W	High	5330	7010	8330	9820	11500	13400	15500	18420
	Medium	4477	5468	6747	7954	8855	10854	13485	15104
	Low	3305	3996	4831	5499	5635	7638	10075	9763
Motor	Power Supply	220V/1~/50Hz							
	Power Input W(12Pa)	46	60	74	93	109	130	147	183
Cooling Coil	Type	Seamless copper tube mechanically bonded to aluminium hydrophilic fins and collars							
	Max. Working Pressure MPa	2.0							
	Pipe Connection	Rc3/4 (Female Threaded)							
	Water flow rate kg/h	536	758	892	1023	1217	1422	1606	1933
	Water pressure drop kPa	17	20	28	40	22	38	34	39
Sound Pressure Level dB(A)(12Pa)		37	38	42	45	46	46	47	49
Weight kg		23	25	27	29	32	39	41	50
Cooling efficiency coefficient (FCEER)	12Pa	61	64	62	55	59	55	56	53
Heating efficiency coefficient of 45°C (FCCOP)	12Pa	63	65	62	58	57	56	59	56
Heating efficiency coefficient of 60°C (FCCOP)	12Pa	104	107	100	91	93	89	93	87
Condensate Drain Size		R1/2(Male Threaded)							

### Notes:

- Cooling capacity is based on the following condition: a. Water temperature: 7°C(inlet)/12°C(outlet) b. Air entering condition: 27°C DB/19.5°C WB
- Heating capacity is based on the following condition(with same water flow rate as cooling cycle): a. Water temperature: 60°C(inlet) b. Air entering condition: 21°C DB
- The low static pressure in the table indicates that the air outlet static pressure is 0 Pa (with the air outlet and filter) or 12Pa (without air outlet and filter).
- The manufacture reserves the rights to make Changes to the above specification without prior notice.

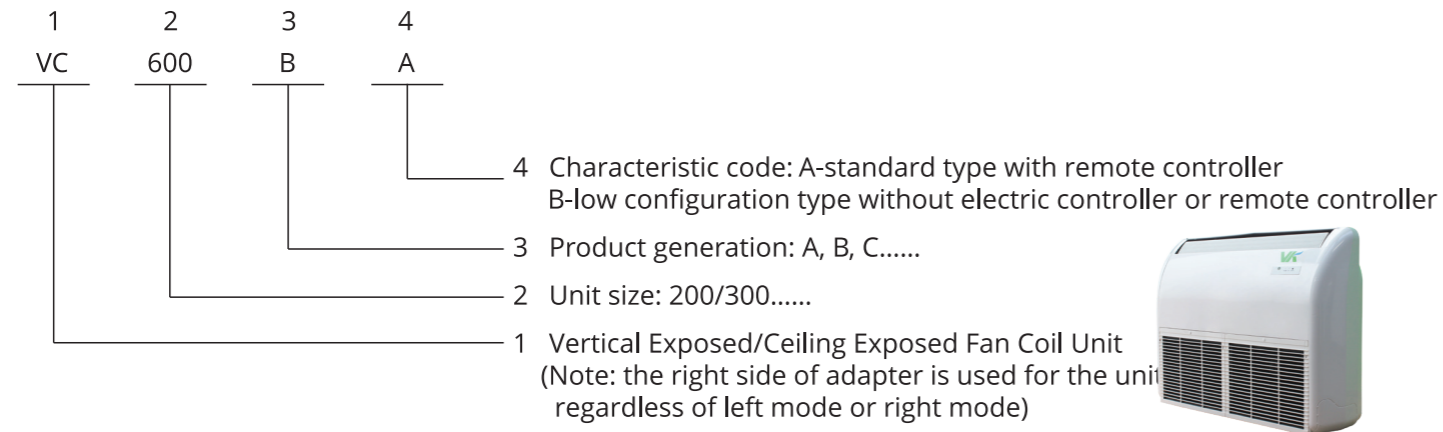
## Dimensions

### Vertical Concealed Fan Coil Unit



Model VFR	A	B	C	D	E	F	G	Motor No.	Fan No.
300B	764	230	621	621	170	584	120	1	2
400B	844	230	621	701	170	664	120	1	2
500B	904	230	621	761	170	724	120	1	2
600B	1004	230	621	861	170	824	120	1	2
700B	1184	230	621	1041	170	1004	120	1	2
800B	1384	230	621	1241	170	1204	120	2	3
1000B	1434	230	621	1291	170	1254	120	2	4
1200B	1684	230	621	1541	170	1504	120	2	4

## Model Number Descriptions-Vertical Exposed/Ceiling Exposed Fan Coil Unit



## Engineering Specifications-Vertical Exposed/Ceiling Exposed Fan Coil Unit

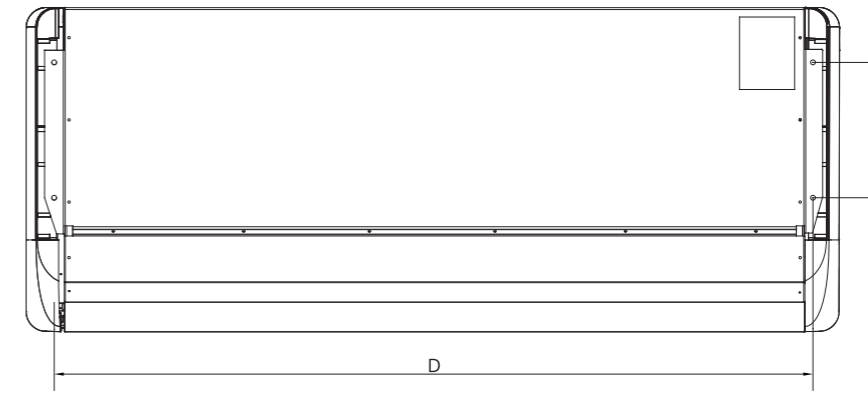
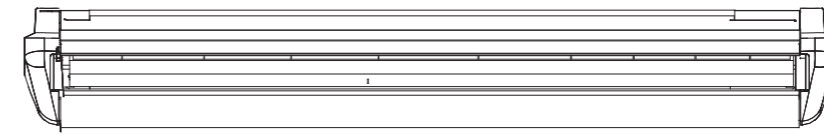
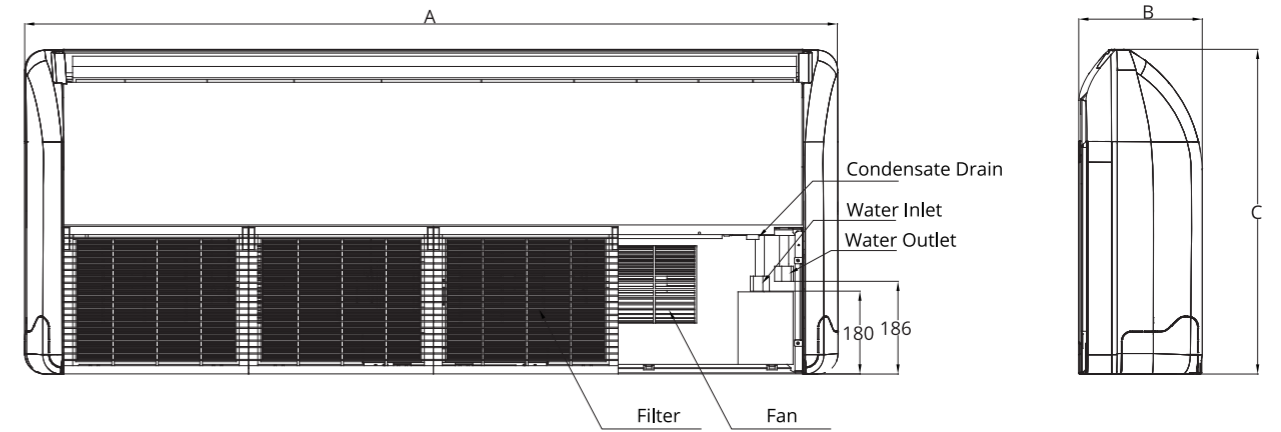
Model VC		200B	300B	400B	500B	600B	800B	1000B	1200B	1400B
Air Flow m <sup>3</sup> /h	High	350	520	680	850	1030	1360	1700	2040	2380
	Medium	280	440	560	700	870	1255	1450	1830	2100
	Low	230	350	410	570	740	1080	1160	1500	1650
Total Cooling Capacity W	High	1970	2850	3600	4500	5400	7200	9000	10800	12600
	Medium	1780	2480	3250	3860	4820	6780	8150	9400	10080
	Low	1460	2050	2655	3225	4455	6200	7760	8710	9210
Heating Capacity W (60°C)	High	3200	4500	5600	6800	9000	10800	13500	16200	18900
	Medium	2390	3680	4670	5820	7980	9850	12000	14285	16120
	Low	1640	2735	3730	4900	7285	9300	10340	12290	14095
Heating Capacity W (45°C)	High	1800	2700	3600	4500	5400	7200	9000	10800	12600
Motor	Power Supply	220V/1~/50Hz								
	Power Input W	37	52	62	76	96	134	152	189	228
Cooling Coil	type	Seamless copper tube mechanically bonded to aluminium hydrophilic fins and collars								
	Max. Working Pressure MPa	1.6								
	Pipe Connection Size	G3/4								
	Condensate Drain Size	Φ25								
	Water Flow Rate kg/h	330	500	640	800	950	1250	1580	1900	2200
	Water Pressure Drop kPa	30	30	30	30	40	40	40	40	50
Dimension	Length mm	905			1288			1672		
	Width mm	673			673			673		
	Heightmm	243			243			243		
Sound Pressure Level dB(A)		37	39	41	43	45	46	48	50	52
Net Weight /Gross Weight (kg)		25/30			40/45			45/50		

### Notes:

- Cooling capacity is based on the following condition:
  - Water temperature: 7°C(inlet)/12°C(outlet)
  - Air entering condition: 27°C DB/19.5°C WB
- Heating capacity is based on the following condition(with same water flow rate as cooling cycle):
  - Water temperature: 60°C(inlet)
  - Air entering condition: 21°C DB
- The air volume in the table refers to the air volume at the outlet static pressure of 0Pa, which is measured when the unit is operating in a dry state and the dry bulb temperature is 20 °C:
- B series without electronic control and remote control: A series with remote control.

## Dimensions

### Vertical Exposed/Ceiling Exposed Fan Coil Unit



Model VC	200	300	400	500	600	800	1000	1200	1400
A (mm)	905	905	905	905	1288	1288	1672	1672	1672
B (mm)	243	243	243	243	243	243	243	243	243
C (mm)	673	673	673	673	673	673	673	673	673
D×E (mm)	803x280			1186x280			1569x280		



## Model Number Descriptions-Cassette Fan Coil Unit

1	2	3	4	5	6	7	8	9
VKM	600	A	4	C	- N	N	N	N

9. Spare code: N, no requirements (A/B/C standard configuration in serial number 5)  
 8. Electric heating: N, no requirements (A/B/C standard configuration in serial number 5);  
 D. with electric heating (optional B/C in number 5)  
 7. Communication interface: N, no requirements (A/B/C standard configuration in serial number 5);  
 T. Including 485 communication interface (optional B/C in number 5)  
 6. Control type: N, no requirements (A/B/C standard configuration in serial number 5);  
 X. Excluding remote control and wire control (B/C in number 5 is optional);  
 Y. include remote and wire control (optional B/C in number 5)  
 5. A-Standard (Height at 390 mm), without water pump/  
 B-Luxury model - without water pump, including control (standard remote control);  
 C-Ultra thin luxury model - with water pump, including control (standard remote control)  
 4. Air outlet form: four sided air outlet  
 3. Product generation: A, B, C, ....  
 2. Unit size: 200, 300, ....  
 1. Cassette Fan Coil Unit

## Engineering Specifications-Cassette Fan Coil Unit (390 mm height, standard/ luxury model)

Model VKM		200A4A/B	300A4A/B	400A4A/B	500A4A/B	600A4A/B	800A4A/B	1000A4A/B	1200A4A/B	1400A4A/B
Air Flow m <sup>3</sup> /h	High	360	510	680	820	1020	1360	1700	2040	2380
	Medium	280	420	560	630	780	1050	1310	1570	1830
	Low	200	350	460	500	600	800	1010	1210	1410
Total Cooling Capacity W	High	2000	2710	3620	4300	5440	7200	9100	10500	12500
	Medium	1700	2410	3100	3530	4485	6000	7050	8560	10550
	Low	1500	2140	2750	3010	3500	3500	5500	6710	8450
Heating Capacity W(60°C)	High	3000	4070	5440	6450	8160	10800	13700	16000	18800
	Medium	2480	3520	4650	5320	6700	9350	10600	13700	15260
	Low	2190	2150	4130	4510	5200	7690	8300	11200	12700
Heating Capacity W(45°C)	High	1800	2580	3540	4320	5280	6930	8750	10360	13210
Motor	Power Supply	220V/1~/50Hz								
	Power Input W	35	45	70	80	90	120	150	200	226
Cooling Coil	Type	Seamless copper tube mechanically bonded to aluminium hydrophilic fins and collars								
	Max. Working Pressure MPa	2.0								
	Pipe Connection	Rc 3/4( 椎管内螺紋 )								
	Condensate Drain Size	Φ26								
	Water Flow Rate kg/h	344	466	622	740	935	1238	1565	1806	2150
	Water Pressure Drop kPa	15	18	25	30	37	40	40	40	50
Dimension	Length mm	580	580	580	705	705	705	832	832	832
	Width mm	580	580	580	705	705	705	832	832	832
	Height mm	397	397	397	397	397	397	397	397	397
Sound Pressure Level dB(A)	37	39	41	43	45	46	47	50	52	
Net Weight /Gross Weight kg	23/26	23/26	23/26	28/31	28/31	28/31	34/39	34/39	34/39	

### Notes:

- Cooling capacity is based on the following condition:
  - Water temperature: 7°C(inlet)/12°C(outlet)
  - Air entering condition: 27°C DB/19.5°C WB
- Heating capacity is based on the following condition(with same water flow rate as cooling cycle):
  - Water temperature: 60°C(inlet)
  - Air entering condition: 21°C DB
- The air volume in the table refers to the air volume at the outlet static pressure of 0Pa, which is measured when the unit is operating in a dry state and the dry bulb temperature is 20°C;
- VKMxxxA4 B/C type, if D (with electrical heating) is selected in the serial number code8, then:VKM 200-400 A4B/C, default electric heating 1kW; VKM 500- 600A4B/C, default electric heating 2kW; VKM 800- 1400A4B/C, default electric heating 3kW;
- VKMxxxA B/C type, if X (excluding remote control and wire control) or Y (including remote control and wire control) is selected in the serial number code 6, the standard wire length of the wire control will be defaulted 7.5Meters;
- VKMxxxA4B/C type, including automatic deflector, computer controller, and alarm device;
- The specifications and parameters are subject to change due to product improvements without prior notice. Please refer to the unit nameplate for accuracy.

## Engineering Specifications-Cassette Fan Coil Unit (290 mm height, Ultra thin luxury model)

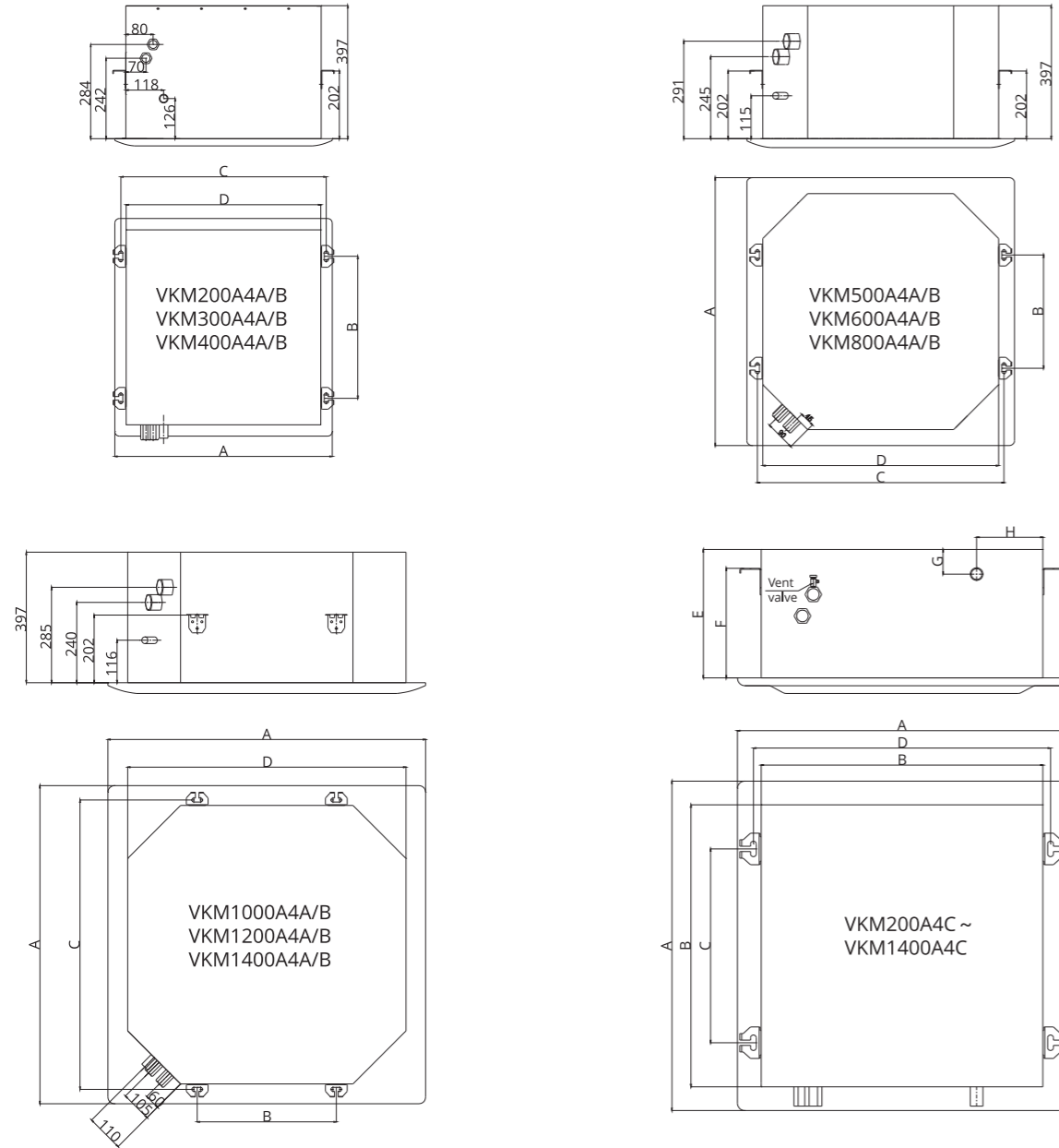
Model VKM		200A4C	300A4C	400A4C	500A4C	600A4C	800A4C	1000A4C	1200A4C	1400A4C
Air Flow m <sup>3</sup> /h	High	360	510	680	820	1020	1360	1700	2040	2380
	Medium	280	420	560	630	780	1050	1310	1570	1830
	Low	200	350	460	500	600	800	1010	1210	1410
Total Cooling Capacity W	High	2000	2710	3620	4300	5440	7200	9100	10500	12500
	Medium	1700	2410	3100	3530	4485	6000	7050	8560	10550
	Low	1500	2140	2750	3010	3500	3500	5500	6710	8450
Heating Capacity W(60°C)	High	3000	4070	5440	6450	8160	10800	13700	16000	18800
	Medium	2480	3520	4650	5320	6700	9350	10600	13700	15260
	Low	2190	2150	4130	4510	5200	7690	8300	11200	12700
Heating Capacity W(45°C)	High	1800	2580	3540	4320	5280	6930	8750	10360	13210
Motor	Power Supply	220V/1~/50Hz								
	Power Input W	35	45	70	80	90	120	150	200	226
Cooling Coil	Type	Seamless copper tube mechanically bonded to aluminium hydrophilic fins and collars								
	Max. Working Pressure MPa	2.0								
	Pipe Connection	Rc3/4 (Female threaded)								
	Condensate Drain Size	Φ26								
	Water Flow Rate kg/h	344	466	622	740	935	1238	1565	1806	2150
	Water Pressure DropkPa	15	18	25	32	37	40	40	40	50
Dimension	Length mm	582	582	582	712	712	712	827	827	827
	Width mm	582	582	582	712	712	712	827	827	827
	Height mm	265	265	265	290	290	290	290	290	290
Sound Pressure Level dB(A)	37	39	41	43	45	46	47	50	52	
Net Weight /Gross Weight kg	21/23	21/23	21/23	27/30	27/30	27/30	37/41	37/41	37/41	

### Notes:

- Cooling capacity is based on the following condition:
  - Water temperature: 7°C(inlet)/12°C(outlet)
  - Air entering condition: 27°C DB/19.5°C WB
- Heating capacity is based on the following condition(with same water flow rate as cooling cycle):
  - Water temperature: 60°C(inlet)
  - Air entering condition: 21°C DB
- The air volume in the table refers to the air volume at the outlet static pressure of 0Pa, which is measured when the unit is operating in a dry state and the dry bulb temperature is 20°C;
- VKMxxxA4 B/C type, if D (with electrical heating) is selected in the serial number code8, then:VKM 200-400 A4B/C, default electric heating 1kW; VKM 500- 600A4B/C, default electric heating 2kW; VKM 800- 1400A4B/C, default electric heating 3kW;
- VKMxxxA B/C type, if X (excluding remote control and wire control) or Y (including remote control and wire control) is selected in the serial number code 6, the standard wire length of the wire control will be defaulted 7.5Meters;
- VKMxxxA4B/C type, including automatic deflector, computer controller, and alarm device;
- The specifications and parameters are subject to change due to product improvements without prior notice. Please refer to the unit nameplate for accuracy.

## ■ Dimensions

### Cassette Fan Coil Unit



390 mm height, standard/option1

Model	200	500	1000
Dimension	300	600	1200
	400	800	1400
A	680	830	980
B	424	338	416
C	617	737	864
D	585	705	832

290 mm height, option2

Model	200	500	1000
Dimension	300	600	1200
	400	800	1400
A	680	830	980
B	582	712	827
C	400	544	655
D	614	744	859
E	265	290	290
F	225	22	220
G	51	89	88
H	137	142	146

## ■ Parameter table on cooling capacity of variable working condition

Model	Inlet water temperature (°C)	Water temperature rise (°C)	Air entering condition: °CDB/ °CWB					
			24°CDB		25°CDB		26°CDB	
			17°CWB		18°CWB		18.8°CWB	
			49.7%		50.8%		50.6%	
			Total cooling capacity (W)	Sensible cooling capacity (W)	Total cooling capacity (W)	Sensible cooling capacity (W)	Total cooling capacity (W)	Sensible cooling capacity (W)
VFC200B	6	5	1752	1437	2032	1585	2266	1700
		6	1569	1287	1853	1445	2090	1568
		7	1389	1139	1671	1303	1906	1430
		8	1038	851	1473	1149	1725	1294
VFC300B	6	5	2508	2057	2927	2283	3245	2434
		6	2257	1851	2647	2065	2993	2245
		7	2001	1641	2388	1863	2700	2025
		8	1730	1419	2118	1652	2418	1814
VFC400B	6	5	2986	2449	3497	2728	3944	2958
		6	2628	2255	3146	2454	3543	2657
		7	2304	1889	2788	2175	3187	2390
		8	1991	1633	2416	1884	2835	2126
VFC500B	6	5	3609	2959	3861	3012	4414	3311
		6	3149	2582	3474	2710	3970	2978
		7	2732	2240	3049	2378	3483	2612
		8	2211	1813	2590	2020	3035	2276
VFC600B	6	5	4115	3374	4401	3433	5031	3733
		6	3590	2944	3961	3090	4525	3394
		7	3114	2553	3475	2711	3971	2978
		8	2520	2066	2952	2303	3459	2594
VFC700B	6	5	5020	4116	5369	4188	6139	4604
		6	4381	3592	4832	3769	5521	4141
		7	3800	3116	4240	3307	4845	3634
		8	3074	2521	3602	2810	4221	3166
VFC800B	6	5	6025	4941	6443	5026	7367	5525
		6	5257	4311	5798	4522	6625	4969
		7	4559	3738	5088	3969	5814	4361
		8	3689	3025	4322	3371	5065	3799
VFC1000B	6	5	6266	5138	6701	5227	7661	5746
		6	5467	4483	6031	4704	6890	5168
		7	4742	3888	5291	4127	6047	4535
		8	3836	3146	4494	3505	5267	3950
VFC1200B	6	5	7519	6166	8041	6272	9193	6895
		6	6561	5380	7237	5645	8267	6200
		7	5689	4665	6349	4952	7257	5443
		8	4603	3774	5394	4207	6320	4740
VFC1400B	6	5	10528	8633	11257	8780	12871	9653
		6	9186	7533	10132	7903	11575	8681
		7	7965	6531	8888	6933	10159	7619
		8	6444	5284	7551	5890	8848	6636

Parameter table on cooling capacity of variable working condition

Model	Inlet water temperature (°C)	Water temperature rise (°C)	Air entering condition: °CDB/ °CWB					
			27°CDB		28.5°CDB		30°CDB	
			19.5°CWB		20.8°CWB		22°CWB	
			49.9%		50.3%		50.0%	
			Total cooling capacity (W)	Sensible cooling capacity (W)	Total cooling capacity (W)	Sensible cooling capacity (W)	Total cooling capacity (W)	Sensible cooling capacity (W)
VFC200B	6	5	2456	1719	2850	1853	3271	1963
		6	2299	1609	2705	1758	3104	1862
		7	2126	1488	2521	1639	2892	1735
		8	1909	1336	2304	1498	2691	1615
VFC300B	6	5	3531	2472	4123	2680	4699	2819
		6	3277	2294	3833	2491	4419	2651
		7	3017	2112	3559	2313	4146	2488
		8	2734	1914	3294	2141	3829	2297
VFC400B	6	5	4298	3009	4996	3247	5714	3428
		6	3899	2729	4632	3011	5325	3195
		7	3539	2477	4278	2781	4972	2983
		8	3215	2251	3872	2517	4572	2743
VFC500B	6	5	5709	3996	6851	4453	7920	4752
		6	5310	3717	6371	4141	7365	4419
		7	4853	3397	5823	3785	6732	4039
		8	4396	3077	5276	3429	6099	3659
VFC600B	6	5	6545	4582	7854	5105	9080	5448
		6	6087	4261	7340	4748	8444	5066
		7	5564	3895	6676	4339	7718	4631
		8	5040	3528	6048	3931	6991	4195
VFC700B	6	5	7788	5452	9346	6075	10804	6482
		6	7242	5069	8691	5649	10048	6029
		7	6620	4634	7944	5164	9183	5510
		8	5997	4198	7196	4677	8319	4991
VFC800B	6	5	9097	6368	10916	7095	12620	7572
		6	8460	5922	10152	6599	11737	7042
		7	7733	5413	9279	6031	10727	6436
		8	7005	4904	8405	5463	9717	5830
VFC1000B	6	5	10274	7192	12329	8014	14253	8552
		6	9555	6689	11465	7452	13255	7953
		7	8733	6113	10480	6812	12115	7269
		8	7911	5538	9493	6170	10975	6585
VFC1200B	6	5	12364	8655	14837	9644	17152	10291
		6	11498	8049	13798	8969	15951	9571
		7	10509	7365	12612	8198	14580	8748
		8	9521	6665	11425	7426	13208	7925
VFC1400B	6	5	14234	9964	17081	11103	19746	11848
		6	13237	9266	15885	10325	18364	11018
		7	12099	8469	14519	9437	16785	10071
		8	10960	7672	13153	8549	15204	9122

Parameter table on cooling capacity of variable working condition

Model	Inlet water temperature (°C)	Water temperature rise (°C)	Air entering condition: °CDB/ °CWB					
			24°CDB		25°CDB		26°CDB	
			17°CWB		18°CWB		18.8°CWB	
			49.7%		50.8%		50.6%	
			Total cooling capacity (W)	Sensible cooling capacity (W)	Total cooling capacity (W)	Sensible cooling capacity (W)	Total cooling capacity (W)	Sensible cooling capacity (W)
VFC200B	7	5	1534	1258	1797	1402	2033	1525
		6	1350	1107	1632	1273	1851	1388
		7	1177	965	1432	1117	1665	1249
		8	1003	822	1272	992	1446	1085
VFC300B	7	5	2174	1783	2570	2005	2895	2171
		6	1929	1582	2422	1889	2640	1980
		7	1666	1366	2066	1611	2381	1786
		8	1364	1118	1804	1407	2110	1583
VFC400B	7	5	2558	2098	3052	2381	3489	2617
		6	2232	1830	2746	2142	3138	2354
		7	1936	1588	2410	1880	2754	2066
		8	1567	1215	2047	1597	2399	1799
VFC500B	7	5	3069	2517	3357	2618	3838	2879
		6	2678	2196	3021	2356	3452	2589
		7	2323	1905	2651	2068	3029	2272
		8	1880	1542	2252	1757	2639	1979
VFC600B	7	5	3499	2869	3827	2985	4375	3281
		6	3053	2503	3444	2686	3935	2951
		7	2648	2171	3022	2357	3435	2590
		8	2143	1757	2567	2002	3008	2256
VFC700B	7	5	4269	3501	4669	3642	5338	4004
		6	3725	3055	4202	3278	4801	3601
		7	3231	2649	3687	2876	4213	3160
		8	2614	2143	3132	2443	3670	2753
VFC800B	7	5	5123	4201	5603	4370	6406	4805
		6	4470	3665	5042	3933	5761	4321
		7	3877	3179	4424	3451	5056	3792
		8	3137	2572	3758	2931	4404	3303
VFC1000B	7	5	5328	4369	5827	4545	6662	4997
		6	4649	3812	5244	4090	5991	4493
		7	4032	3306	4601	3589	5258	3964
		8	3262	2675	3908	3048	4580	3435
VFC1200B	7	5	6394	5243	6992	5454	7994	5996
		6	5579	4575	6293	4909	7189	5392
		7	4838	3967	5521	4306	6310	4733
		8	3914	3209	4690	3658	5496	4122
VFC1400B	7	5	8952	7341	9789	7635	11192	8394
		6	7811	6405	8810	6872	10065	7549
		7	6773	5554	7729	6029	8834	6626
		8	5480	4494	6566	5121	7694	5771

Parameter table on cooling capacity of variable working condition

Model	Inlet water temperature (°C)	Water temperature rise (°C)	Air entering condition: °CDB/ °CWB					
			27°CDB		28.5°CDB		30°CDB	
			19.5°CWB		20.8°CWB		22°CWB	
			49.9%		50.3%		50.0%	
			Total cooling capacity (W)	Sensible cooling capacity (W)	Total cooling capacity (W)	Sensible cooling capacity (W)	Total cooling capacity (W)	Sensible cooling capacity (W)
VFC200B	7	5	2250	1570	2644	1719	3040	1818
		6	2059	1441	2449	1592	2848	1709
		7	1868	1308	2259	1468	2649	1598
		8	1680	1176	2068	1344	2451	1741
VFC300B	7	5	3120	2230	3787	2462	4335	2601
		6	2939	2057	3517	2286	4085	2451
		7	2672	1870	3208	2085	4795	2277
		8	2366	1659	2925	1901	3479	2087
VFC400B	7	5	4410	3050	4552	2959	5275	3165
		6	3490	2443	2403	2732	4914	2948
		7	3152	2206	3721	2484	4506	2704
		8	2743	1920	3397	2208	4068	2441
VFC500B	7	5	5190	3710	6628	4048	7266	4360
		6	4827	3379	5792	3765	6757	4054
		7	4412	3088	5294	3441	6176	3706
		8	3996	2797	4796	3117	5595	3357
VFC600B	7	5	5950	4280	7140	4641	8330	4998
		6	5533	3874	6640	4316	7747	4648
		7	5058	3541	6069	3945	7081	4249
		8	4582	3207	5498	3574	6414	3848
VFC700B	7	5	7080	4890	8496	5522	9912	5947
		6	6584	4609	7901	5136	9218	5531
		7	6018	4213	7222	4694	8425	5055
		8	5452	3816	6542	4252	7632	4579
VFC800B	7	5	8270	5990	9924	6451	11578	6947
		6	7691	5384	9229	5999	10768	6461
		7	7030	4921	8435	5483	9841	5905
		8	6368	4458	7641	4967	8915	5349
VFC1000B	7	5	9340	6860	11208	7285	13076	7846
		6	8686	6080	10423	6775	12161	7297
		7	7939	5557	9527	6293	11115	6669
		8	7192	5034	8630	5610	10069	6041
VFC1200B	7	5	11240	8660	13488	8767	15736	9442
		6	10453	7367	12544	8154	14634	8780
		7	9554	6688	11465	7452	13376	8026
		8	8655	6059	10386	6751	12117	7270
VFC1400B	7	5	12940	9160	15528	10093	18116	10870
		6	12034	8424	14441	9387	16848	10109
		7	10999	7699	13199	8579	15399	9329
		8	9964	6975	11957	7772	13949	8369

Parameter table on cooling capacity of variable working condition

Model	Inlet water temperature (°C)	Water temperature rise (°C)	Air entering condition: °CDB/ °CWB					
			24°CDB		25°CDB		26°CDB	
			17°CWB		18°CWB		18.8°CWB	
			49.7%		50.8%		50.6%	
			Total cooling capacity (W)	Sensible cooling capacity (W)	Total cooling capacity (W)	Sensible cooling capacity (W)	Total cooling capacity (W)	Sensible cooling capacity (W)
VFC200B	8	5	1136	932	1405	1096	1619	1214
		6	964	790	1191	929	1444	1083
		7	779	639	1022	797	1220	915
		8	609	499	831	648	1010	758
VFC300B	8	5	1839	1508	2256	1760	2590	1943
		6	1597	1310	1993	1555	2305	1729
		7	1359	1114	1714	1337	2043	1532
		8	1069	877	1415	1104	1741	1306
VFC400B	8	5	2184	1791	2643	2062	3040	2280
		6	1863	1528	2304	1797	2710	2033
		7	1479	1213	1927	1503	2342	1757
		8	1176	964	1580	1424	1965	1474
VFC500B	8	5	2363	1938	2649	2066	3155	2366
		6	2062	1691	2384	1860	2838	2129
		7	1786	1467	2092	1632	2490	1868
		8	1448	1187	1777	1386	2169	1627
VFC600B	8	5	2694	2209	3020	2356	3596	1697
		6	2351	1928	2717	2119	3235	2426
		7	2039	1672	2384	1860	2838	2129
		8	1650	1353	2025	1580	2473	1855
VFC700B	8	5	3287	2695	3684	2874	4388	3291
		6	2868	2352	3315	2586	3946	2960
		7	2488	2040	2909	2269	3463	2597
		8	2013	1651	2471	1927	3017	2213
VFC800B	8	5	9345	3235	4421	3448	5266	3950
		6	3442	2822	3978	3103	4736	3552
		7	2985	2448	3491	2732	4156	3117
		8	2415	1980	2965	2313	3620	2715
VFC1000B	8	5	4103	3364	4598	2568	5476	4107
		6	3580	2936	4138	3228	4925	3694
		7	3105	2546	3630	2831	4322	3242
		8	2512	2060	3083	2405	3765	2824
VFC1200B	8	5	4923	4037	5517	4303	6571	4928
		6	4296	3523	4965	3873	5909	4432
		7	3925	3055	4356	3398	5187	3890
		8	3014	2471	3700	2886	4518	3389
VFC1400B	8	5	6893	5652	7724	6025	9200	6099
		6	6014	4931	6051	5422	8273	6205
		7	5215	4276	6098	4756	7262	5447
		8	2420	3460	5181	4041	6324	4743

Parameter table on cooling capacity of variable working condition

Model	Inlet water temperature (°C)	Water temperature rise (°C)	Air entering condition: °CDB/ °CWB					
			27°CDB		28.5°CDB		30°CDB	
			19.5°CWB		20.8°CWB		22°CWB	
			49.9%		50.3%		50.0%	
			Total cooling capacity (W)	Sensible cooling capacity (W)	Total cooling capacity (W)	Sensible cooling capacity (W)	Total cooling capacity (W)	Sensible cooling capacity (W)
VFC200B	8	5	1819	1273	2193	1425	2568	1541
		6	1605	1124	2000	1300	2354	1412
		7	1414	990	1768	1149	2121	1273
		8	1219	853	1562	1015	1932	1159
VFC300B	8	5	2865	2006	3428	2228	4008	2405
		6	2611	1828	3155	2051	3707	2224
		7	2308	1616	2857	1857	3419	2050
		8	2022	1415	2571	1671	3099	1859
VFC400B	8	5	3440	2408	4134	2687	4799	2879
		6	3045	2132	3750	2438	4447	2668
		7	2692	1884	3397	2208	4055	2433
		8	2304	1613	3003	1952	3667	2200
VFC500B	8	5	4300	3010	5356	3481	6358	3815
		6	3999	2799	4981	3238	5912	3547
		7	3665	2559	4553	2959	5404	3242
		8	3311	2318	4125	2681	4896	2938
VFC600B	8	5	4930	3451	6140	3991	7289	4373
		6	4585	3210	5710	3772	6779	4067
		7	4191	2934	5219	3392	6196	3718
		8	3796	2657	4728	3073	5612	3367
VFC700B	8	5	5860	4106	7307	4750	8673	5204
		6	5455	3819	6795	4417	8066	4840
		7	4980	3490	6211	4037	7372	4423
		8	4517	3162	5626	3657	6678	4007
VFC800B	8	5	6852	4796	8535	5548	10131	6079
		6	6372	4460	7937	5159	9422	5653
		7	5824	4077	7254	4715	8611	5167
		8	5276	3693	6571	4271	7801	4681
VFC1000B	8	5	7738	5417	9639	6265	11442	6865
		6	7196	5037	8964	5827	10641	6385
		7	6577	4604	8193	5325	9726	5836
		8	5959	4171	7422	4824	8810	5286
VFC1200B	8	5	9312	6518	11600	7540	13769	8261
		6	8660	6062	10788	7012	12805	7683
		7	7915	5541	9860	6409	11704	7022
		8	7171	5020	9832	5806	10602	6061
VFC1400B	8	5	10721	7505	13354	8680	15852	9511
		6	9970	6979	12419	8072	14742	8845
		7	9113	6379	11351	7378	13474	8084
		8	8255	5779	10283	6684	12205	7323

Parameter table on heating capacity of variable working condition

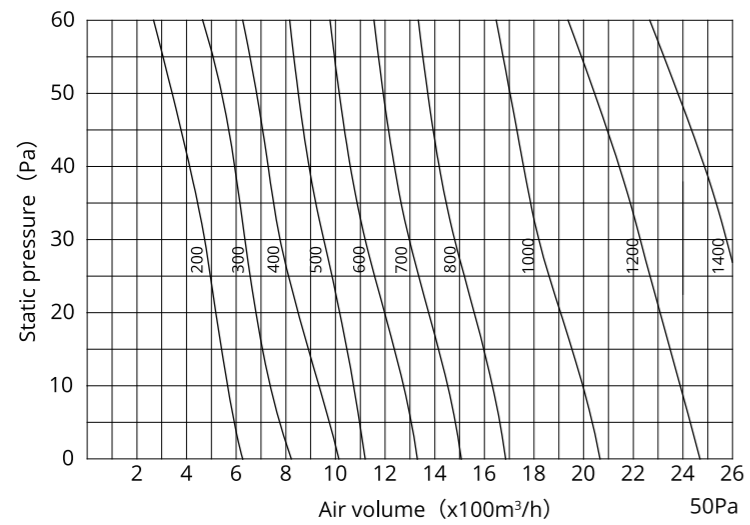
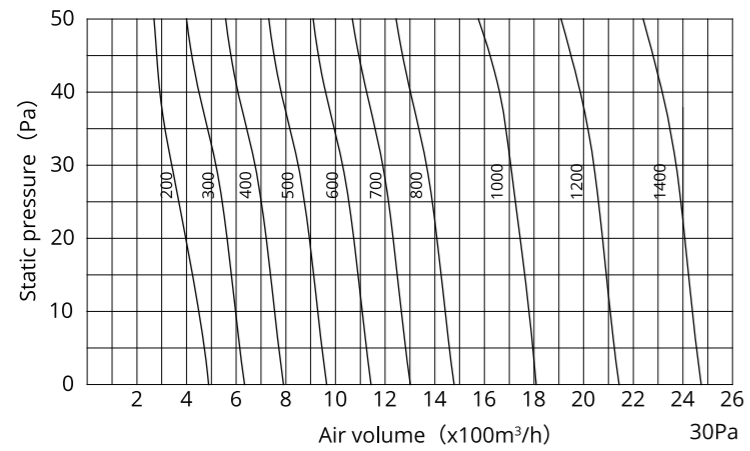
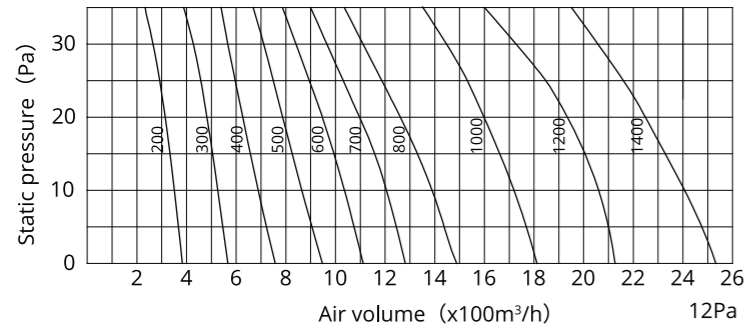
Model VFC	Water flow rate kg/h	Water pressure fall kPa	进水温度																	
			40		45		50		55		60		65		70		75		80	
			Heat W	Outlet water temperature °C	Heat W	Outlet water temperature °C	Heat W	Outlet water temperature °C	Heat W	Outlet water temperature °C	Heat W	Outlet water temperature °C	Heat W	Outlet water temperature °C	Heat W	Outlet water temperature °C	Heat W	Outlet water temperature °C	Heat W	Outlet water temperature °C
200B	131	1.6	1239	31.9	1567	34.7	1895	37.6	2223	40.4	2548	43.3	2876	46.1	3207	49.0	3532	51.8	3858	54.7
	267	5.4	1412	35.5	1786	39.3	2159	43.0	2533	46.8	2904	50.6	3278	54.4	3655	58.2	4025	62.0	4397	65.8
	386	14	1765	36.1	2232	40.0	2699	44.0	3166	47.9	<b>3630</b>	<b>51.9</b>	4097	55.9	4568	59.8	5032	63.8	5496	67.8
	527	16	2064	36.6	2611	40.7	3157	44.8	3704	49.0	4246	53.1	4793	57.2	5344	61.3	5886	65.4	6428	69.5
300B	184	4	1890	31.2	2391	33.8	2891	36.5	3391	39.2	3888	41.8	4389	44.5	4893	47.1	5390	49.8	5886	52.5
	367	12.7	2242	34.7	2836	38.4	3430	42.0	4024	45.6	4613	49.2	5207	52.8	5805	56.4	6394	60.0	6984	63.6
	536	17	2591	35.8	3277	39.7	3963	43.6	4649	47.5	<b>5330</b>	<b>51.5</b>	6016	55.3	6708	59.2	7388	63.1	8070	67.1
400B	729	28	2992	36.5	3785	40.5	4578	44.6	5370	48.7	6156	52.7	6949	56.8	7747	60.9	8533	64.9	9320	69.0
	231	3.5	2472	30.8	3127	33.4	3781	35.9	4436	38.5	5085	41.1	5740	43.6	6399	46.2	7049	48.8	7699	51.3
	463	11	2932	34.6	3708	38.1	4485	41.7	5261	45.2	6031	48.8	6807	52.4	7590	55.9	8360	59.5	9131	63.0
500B	758	20	3408	36.1	4310	40.1	5213	44.1	6115	48.1	<b>7010</b>	<b>52.0</b>	7913	56.0	8822	60.0	9717	64.0	10613	68.0
	925	30	3626	36.6	4586	40.7	5547	44.8	6506	49.0	7459	53.1	8419	57.2	9387	61.3	10340	65.4	11293	69.5
	283	3.5	2806	31.5	3550	34.2	4293	37.0	5036	39.7	5773	42.5	6516	45.2	7265	47.9	8002	50.7	8740	53.4
600B	566	11	3401	34.8	4302	38.5	5203	42.1	6103	45.7	6997	49.4	7898	53.0	8806	56.6	9699	60.3	10593	63.9
	892	28	4049	36.1	5122	40.1	6194	44.0	7266	48.0	<b>8330</b>	<b>52.0</b>	9402	55.9	10483	59.9	11547	63.9	12612	67.8
	1126	34	4337	36.7	5486	40.8	6634	44.9	7783	49.1	8922	53.2	10071	57.3	11228	61.4	12368	65.6	13508	69.7
700B	331	4	3137	31.9	3968	34.7	4799	37.5	5630	40.4	6454	43.2	7285	46.1	8122	48.9	8946	51.8	9771	54.6
	668	13	3868	35.0	4893	38.7	5918	42.4	6942	46.1	7958	49.8	8983	53.4	10015	57.1	11031	60.8	12048	64.5
	1023	40	4774	36.0	6038	39.9	7302	43.9	8566	47.8	<b>9820</b>	<b>51.7</b>	11084	55.7	12358	59.6	13612	63.6	14867	67.5
	1336	42	4918	36.8	6221	41.0	7524	45.2	8826	49.3	10118	53.5	11421	57.7	12733	61.8	14025	66.0	15319	70.1
800B	370	4	3494	31.9	4419	34.7	5344	37.6	6269	40.4	7187	43.3	8112	46.1	9045	49.0	9963	51.8	10881	54.7
	791	10	4964	34.6	6279	38.2	7594	41.7	8908	45.3	10212	48.9	11527	52.5	12852	56.0	14156	59.6	15461	63.2
	1217	22	5590	36.1	7071	40.0	8551	44.0	10031	47.9	<b>11500</b>	<b>51.9</b>	12981	55.8	14473	59.8	15941	63.7	17411	67.7
	1582	35	6172	36.6	7806	40.8	9441	44.9	11075	49.0	12696	53.1	14331	57.2	15978	61.3	17599	65.4	19222	69.6
1000B	455	5.2	4560	31.4	5767	34.1	6975	36.8	8182	39.5	9380	42.3	10588	45.0	11805	47.7	13002	50.4	14201	53.2
	929	15.8	5573	34.8	7049	38.5	8525	42.1	10000	45.7	11464	49.4	12940	53.0	14427	56.6	15891	60.3	17356	63.9
	1422	38	6514	36.1	8239	40.0	9964	44.0	11689	47.9	<b>13400</b>	<b>51.9</b>	15125	55.9	16864	59.8	18575	63.8	20288	67.7
1200B	1858	41	6751	36.9	8539	41.0	10326	45.2	12114	49.4	13887	53.6	15675	57.7	17477	61.9	19250	66.1	21025	70.3
	535	7.4	5326	31.4	6736	34.2	8147	36.9	9557	39.6	10956	42.4	12367	45.1	13788	47.8	15187	50.6	16587	53.3
	1069	22.9	6224	35.0	7872	38.7	9520	42.3	11168	46.0	12803	49.7	14451	53.4	16112	57.0	17747	60.7	19384	64.4
	1606	34	7535	36.0	9530	39.9	11526	43.8	13521	47.8	<b>15500</b>	<b>51.7</b>	17496	55.6	19507	59.6	21486	63.5	23467	67.4
1400B	2128	40	7758	36.9	9813	41.0	11868	45.2	13922	49.4	15960	53.6	18015	57.7	20085	61.9	22124	66.1	24163	70.2
	678	4.7	6651	31.6	8412	34.3	10174	37.1	11935	39.9	13682	42.6	15444	45.4	17219	48.2	18966	50.9	20714	53.7
	1356	14.4	8465	34.6	10707	38.2	12948	41.8	15189	45.4	17413	49.0	19655	52.5	21914	56.1	24138	59.7	26363	63.3
	1933	39	8954	36.0	11326	40.0	13697	43.9	16068	47.9	<b>18420</b>	<b>51.8</b>	20792	55.8	23181	59.7	25534	63.6	27888	67.6
1400B	2701	45	9302	37.0	11766	41.3	14230	45.5	16692	49.7	19136	53.9	21600	58.1	24082	62.3	26526	66.6	28972	70.8
	748	8.5	7449	31.4	9422	34.2	11395	36.9	13367	39.6	15324	42.4	17297	45.1	19285	47.8	21242	50.6	23200	53.3
	1490	25.3	9096	34.8	11505	38.4	13914	42.0	16322	45.6	18711	49.2	21120	52.8	23548	56.4	25937	60.0	28328	63.7
	2225	40	9980	36.1	12623	40.1	15266	44.1	17908	48.1	<b>20530</b>	<b>52.1</b>	23173	56.0	25837	60.0	28458	64.0	31082	68.0
2980	50	10239	37.0	12951	41.3	15663	45.5	18374	49.7	21064	53.9	23776	58.1	26509	62.4	29199	66.6	31891	70.8	

- Notes:  
 1. The heating capacity in the table is the parameter of the unit in the high grade running, and the heating capacity in the middle and low grade running is the product of the parameters in the above table and the correction coefficient.  
 2. Air entering condition: 21°C DB.  
 3. The bold font in the table represents the parameter values of the corresponding unit under standard operating conditions.

Correction factor of medium-and-low heating capacity

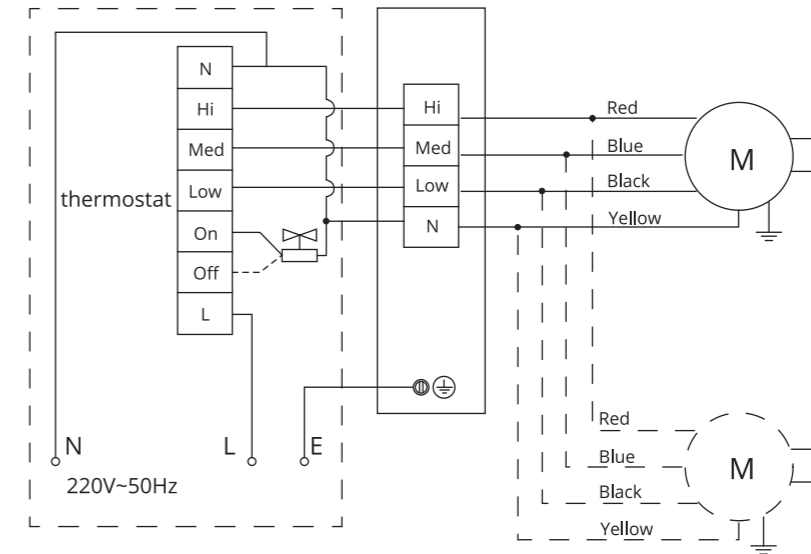
Model VFC		200B	300B	400B	500B	600B	700B	800B	1000B	1200B	1400B
Medium	Heating	0.83	0.84	0.78	0.81	0.81	0.77	0.81	0.87	0.82	0.85
Low	Heating	0.58	0.62	0.57	0.58	0.56	0.49	0.57	0.65	0.53	0.59

## Static pressure and air volume curve



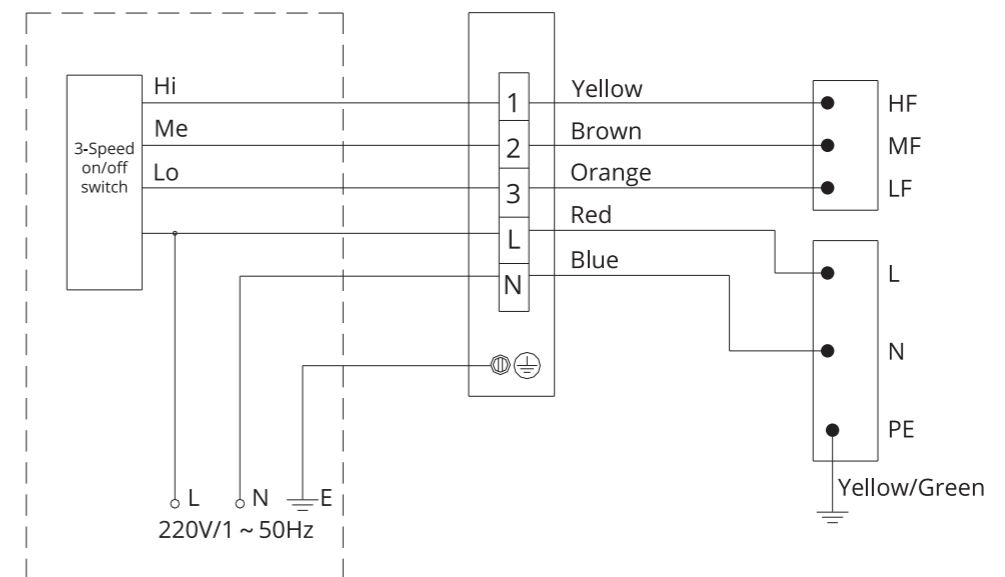
## Wiring Diagrams

Model: VFC-T VFR



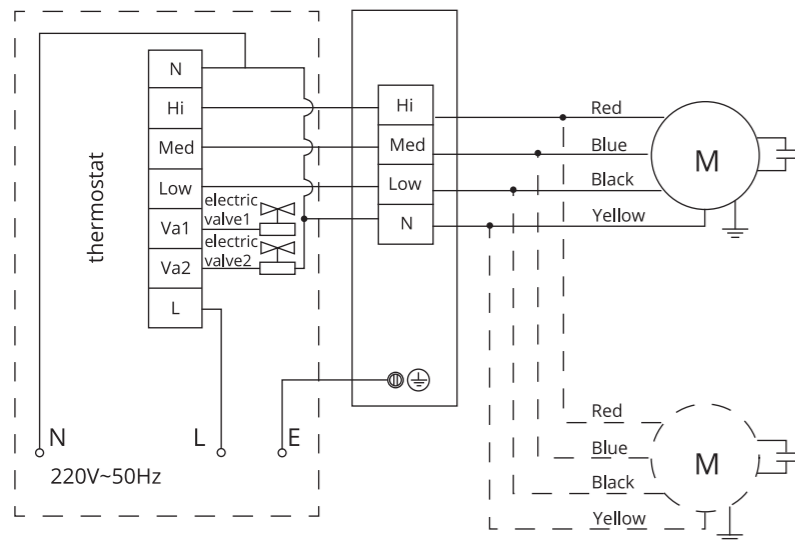
Note: The dotted line box is used for on-site wiring of customers.  
Warning: Be careful of the wiring, if not, the motor will burn

## Model: Three speed regulation DC brushless fan coil unit



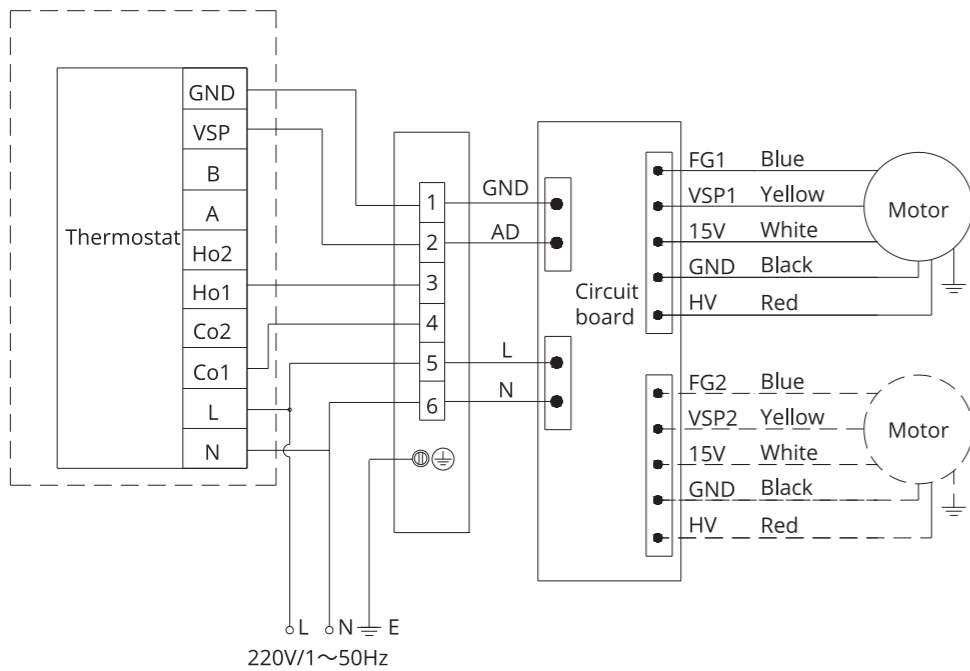
Note: The dotted line box is used for on-site wiring of customers.  
Warning: Be careful of the wiring, if not, the motor will burn

## Four Coils System Series



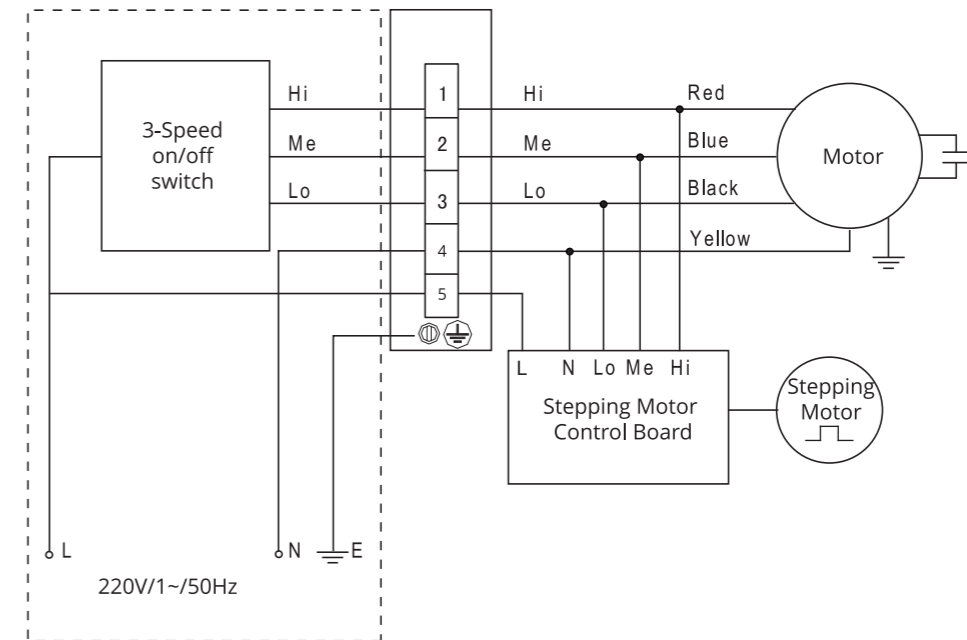
Note: The dotted line box is used for on-site wiring of customers.  
Warning: Be careful of the wiring, if not, the motor will burn

## Model: Ceiling Concealed Brushless DC Fan Coil Unit



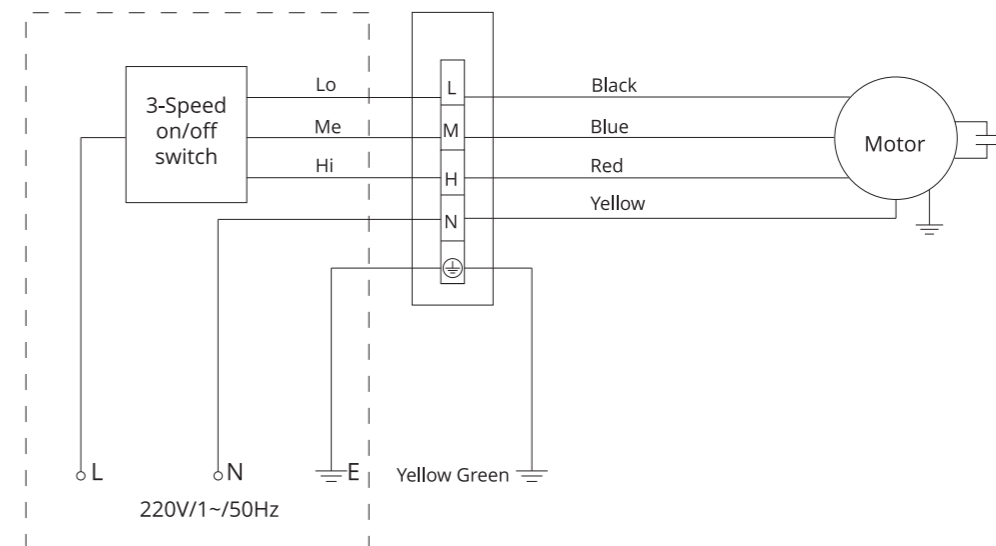
Note:  
1. The dotted line box is used for on-site wiring of customers.  
2. The A and B terminals of the thermostat reserve ports for the RS485 communication line.  
3. Please refer to the related instructions according to the product model during the field construction and installation

## Model: VC



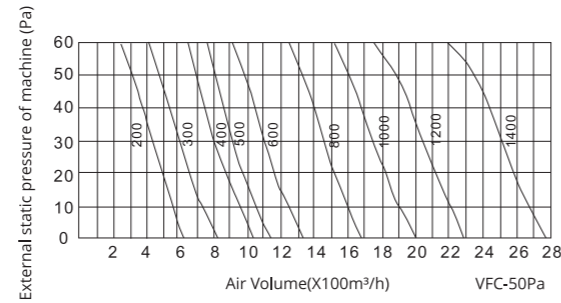
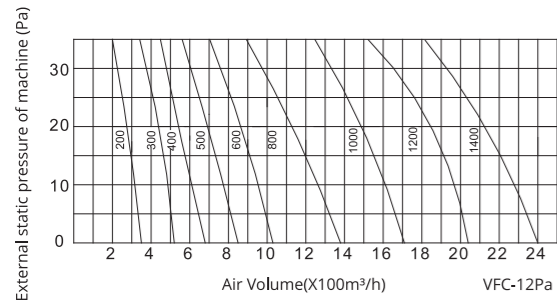
Note: The dotted line box is used for on-site wiring of customers.

## Model: VKM

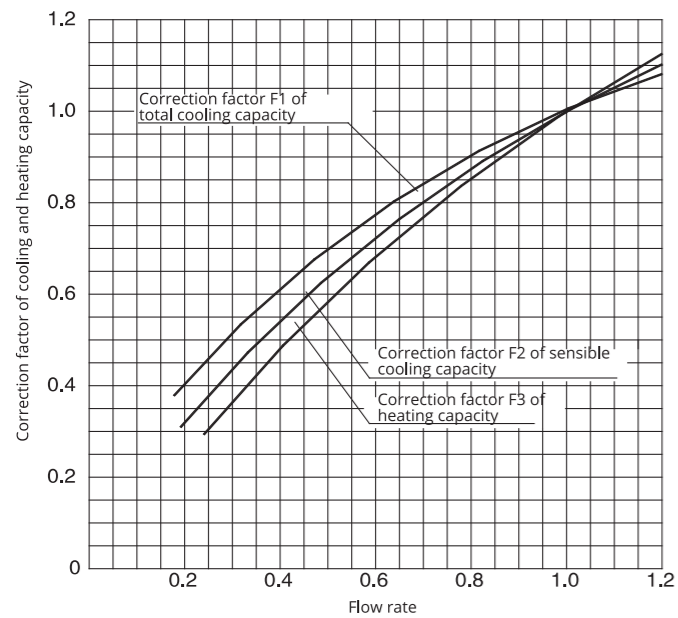


Notes: Please refer to the related instructions according to the product model during the field construction and installation

## Curve chart of external static pressure and air volume



## Curve chart for capability correction



## Installation and Maintenance

### 1. Electrical connection

All electrical wiring must be performed by a qualified technician who is certified by the local authorities.

All electrical wires used for wiring must comply to the local codes and regulations.

Fluctuation of electricity should be within +/-10% of the rated power supply.

During installation, wiring should be connected according to the wiring diagram provided by the manufacturer and do not wire all of the three speeds of motor together to a single power source.

Earth wire is provided and it is being connected to the casing of the motor for protection. The unit should be properly GROUNDED to avoid incident of electrical shock.

Unit of different model should not share a single 3-speed switch, or the motor will not work properly or it will be burnt.

2. Water temperature during summer should not be lower than 3°C and not higher than 65°C during winter. The water must be treated and ensure it is clean for optimum performance.

3. Chilled water pipes and condensate water drainage pipes must be properly connected and standby for use.

Electrical wiring is properly connected and all terminals are tightened to prevent loose wires.

Sufficient space must be reserved for installation, service and maintenance purposes.

Ensure the hanging rod is capable of supporting the weight of the unit and the position of rods are according to drawing.

Ensure the supply and return duct installed (for units that required ducting) is according to the specification of the unit.

4. It is prohibited to operate the unit without any filter to prevent rapid blockage of heat exchanger by dust and as a result, poor heat transfer. Thus, it is recommended to install filter at return air duct to maintain cleanliness of aluminum fins for better and consistent heat exchange.

5. The top connecting pipe is for water outlet and bottom connecting pipe is for water inlet. During installation, do not tighten the pipe with excessive torque to prevent deformation of heat exchanger. Both inlet and outlet pipes should be insulated, connecting threads should be sealed using PTFE tape and sufficient gradient should be maintained for condensate water pipe for proper water drainage.

6. A manual air vent is located at the water outlet pipe. During commissioning or changing from cooling to heating cycle (or vice versa), the valve must be opened to release air that might be trapped inside the pipe in order to ensure good heat exchange efficiency.

7. Dirty filter will increase the air resistance, dirty heat exchanger will reduce the cooling capacity of the unit and blocked drain pan will cause water dripping to the ceiling of the building. In view of that, schedule maintenance should be carried out to clean the filters, heat exchanger and drain pan.

8. When the unit is not going to be used for extended period, the water pipes and heat exchanger should be filled with water to reduce internal corrosion. If the unit is going to be idle throughout the winter, the water pipe should be drained completely and anti-freeze procedure should be adopted to prevent water pipes breakage.

9. It is not recommended to adopt control that allows flowing of cool water through heat exchanger with fan motor idle. This will cause extensive condensation occur not only on heat exchanger but on the surface of casing due to very low air temperature in the unit. If the control do not prevent chilled water flowing through heat exchanger during idling of fan motor, it is recommended to close the water circuit through manual hand valve.

10. The unit needs to be handled with care during transportation and it is prohibited to move the unit by holding on to the blower or blower blade.

11. Before the unit is ready for operation, the following check should be carried out: Unit has been installed according to manufacturer specifications and the condensate water drainage pipe is not blocked. Ensure no debris in drain pan, blower and casing. Unit's power supply and controls are properly connected and unit is properly GROUNDED. Water piping is properly connected and no leakage found. Blowers are free to turn and filter properly installed. All the pipes are insulated, valves are opened and air vent is closed.

12. The repair of unit shall be carried out by professional persons familiar with the product maintenance.

