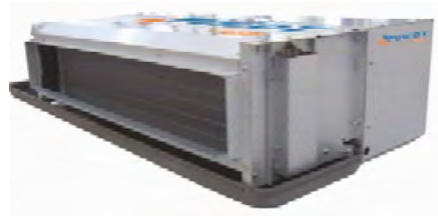


Chilled Water Fan Coil Unit

- VEF European universal style
- VCFI Ceiling concealed style





Shandong Vicot Air Conditioning Co., Ltd. is one of the major players in the Chinese air conditioning industry, specialized in central air conditioning products. Its new industrial park covers a total area of 140,000 m² including workshop area of 50,000 m².

There are 1000 people including 800 workers, 18 senior engineers, 5 doctors and masters, 40 engineers for R&D, and more than 55 technicians, etc..

There are five assembly lines, two condenser& evaporator production lines, one painting line, and many large equipments such as vertical tube expander, CNC guillotine shear (shearing machine), CNC tube bending machine and many auxiliary apparatus, laboratories, and online testing rooms. All of them can achieve the exact Control of production process and guarantee



Chiller assembly line



Testing Lab.



Painting line



CNC machine

We have ISO9001 & ISO14001, CE, CCC certificates.





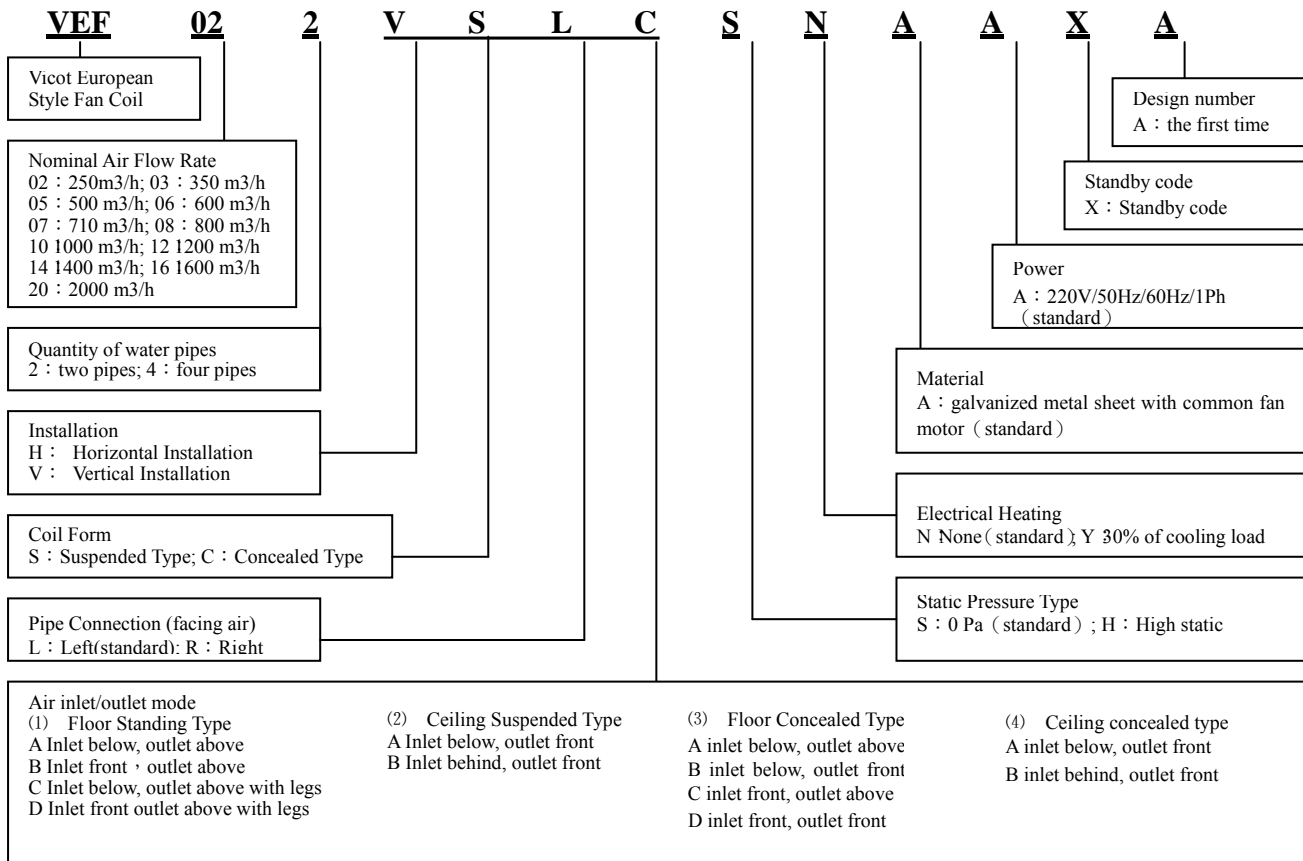
VEF EUROPEAN UNIVERSAL STYLE

Vicot Fan Coil Units include floor standing, horizontal ceiling, suspended, concealed units, etc, which can be chosen by customers according to room structure, quantity of loading and decorate character.

- ◆ **Casing**---Galvanized sheet metal with white gray plastic coating.
- ◆ **Grill**---Plastic modular and adjustable grills for adjustment of airflow.
- ◆ **Fan section**---Electronically balanced centrifugal fans galvanized metal wheels and screw, independent from main structure for easy removal.
- ◆ **Motor**---Single-phase with overload protection; three-speed.
- ◆ **Coils**---Countercurrent with copper tube and aluminum fins with hydrophilic oxidation film; three rows.
- ◆ **Condensate drain pan**---Pressing molded, with heat insulation material; easy discharge of condensing water.
- ◆ **Air filter**---Made from nylon, washable, easy to remove for cleaning.
- ◆ **Control box**---Plastic box; high/med/low adjustable; easy to install and maintain.
- ◆ **Legs**---Separately with cabinet, easy to deliver and install.



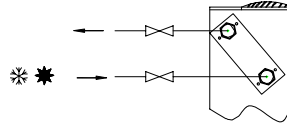
Nomenclature





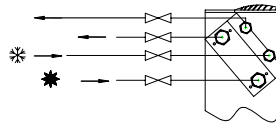
Performance Technical Data

1. Units with 1 coil (2-pipes system)



Model		VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202	
Coil	Length	mm	350	500	550	650	700	800	900	1000	1200	1500	
Air flow	High	m ³ /h	298	428	619	671	813	988	1058	1480	1560	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	1289	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 pressure 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 dB(A)	max	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	
Dimension	L(mm)	758	908	958	1058	1108	1208	1308	1408	1608	1608	1908	
	A(mm)	448	598	648	748	798	898	998	1098	1298	1298	1598	
	B(mm)	472	622	672	772	822	922	1022	1122	1322	1322	1622	
Motor	220V/50Hz/60Hz/1Ph												
Input	W	27	32	42	55	72	80	91	125	151	161	168	

2. Units with 2coils (4-pipes system)



Model		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204	
Coil	Length	mm	350	500	550	650	700	800	900	1000	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	1130	1283
	Med	m ³ /h	245	353	510	553	670	814	871	1219	1285	1633	1853
		CFM	144	207	300	325	394	479	513	717	756	961	1090
	Low	m ³ /h	191	274	396	429	520	632	677	947	998	1268	1439
		CFM	112	161	233	252	306	372	398	557	587	746	846
cooling capacity	High	kW	1.38	1.98	2.86	3.36	3.86	4.32	5.10	6.60	7.16	8.27	10.19
	Med		1.15	1.64	2.37	2.79	3.20	3.59	4.23	5.47	5.94	6.86	8.45
	Low		0.90	1.29	1.86	2.18	2.51	2.81	3.31	4.29	4.66	5.37	6.62
Heating capacity	High	kW	1.59	2.27	3.29	3.86	4.44	4.97	5.86	7.58	8.24	9.51	11.71
	Med		1.34	1.91	2.76	3.25	3.73	4.17	4.92	6.37	6.92	7.98	9.84
	Low		1.03	1.48	2.14	2.51	2.88	3.23	3.81	4.93	5.35	6.18	7.61
flow	L/h	246	365	520	600	699	760	930	1230	1333	1500	1848	
flow	L/h	125	176	229	296	316	371	451	525	601	750	984	
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	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	
Dimension	L(mm)	758	908	958	1058	1108	1208	1308	1408	1608	1608	1908	
	A(mm)	448	598	648	748	798	898	998	1098	1298	1298	1598	
	B(mm)	472	622	672	772	822	922	1022	1122	1322	1322	1622	
Motor	220V/50Hz/60Hz/1Ph												
Input	W	35	41	53	69	94	103	117	156	187	201	210	



3. Air flow and cooling/heating capacities reductions

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

Cooling standard condition: Air inlet temperature D.B. t(d)=27°C · W.B. t(w)=19.5°C; water inlet temperature's=7°C,water outlet temperature: t=12°C,water inlet and outlet temperature difference: t=5°C.

Heating standard condition: Air inlet temperature D.B. t(d)=21°C; ①Hot water input temperature: t=60°C; water outlet temperature: t=50°C,difference: t=10°C







②Hot water input temperature: t=70°C,

the same water flow as ①.

Noise figure is tested at where is 1m far away from each unit.

Dimension & Weight







1. Suspended 2-pipes system

VSLA	mm	VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202
	L	756	906	956	1056	1106	1206	1306	1406	1606	1606	1906
	H	483	483	483	483	483	483	483	483	483	483	483
	W	232	232	232	232	232	232	232	232	232	232	232
	kg	16	18	20	21	23	25	27	30	34	34	37
VSLB		VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202
	L		906	956	1056	1106	1206	1306	1406	1606	1606	1906
	H		483	483	483	483	483	483	483	483	483	483
	W		232	232	232	232	232	232	232	232	232	232
	kg		18	20	21	23	25	27	30	34	34	37
VSLC		VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202
	L	756	906	956	1056	1106	1206	1306	1406	1606	1606	1906
	H	583	583	583	583	583	583	583	583	583	583	583
	W	232	232	232	232	232	232	232	232	232	232	232
	kg	17	19	21	22	24	26	28	31	35	35	38
VSLD		VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202
	L		908	958	1058	1108	1208	1308	1408	1608	1608	1908
	H		583	583	583	583	583	583	583	583	583	583
	W		232	232	232	232	232	232	232	232	232	232
	kg		19	21	22	24	26	28	31	35	35	38
HSLA		VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202
	L		906	956	1056	1106	1206	1306	1406	1606	1606	1906
	H		483	483	483	483	483	483	483	483	483	483
	W		232	232	232	232	232	232	232	232	232	232
	kg		18	20	21	23	25	27	30	34	34	37
HSLB		VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202
	L	756	906	956	1056	1106	1206	1306	1406	1606	1606	1906
	H	483	483	483	483	483	483	483	483	483	483	483
	W	232	232	232	232	232	232	232	232	232	232	232
	kg	16	18	20	21	23	25	27	30	34	34	37

Note: With legs, the height will be 100mm higher.

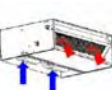
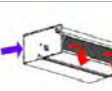
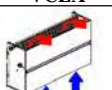

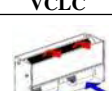



2. Suspended 4-pipes system

VSLA		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204
	L	756	906	956	1056	1106	1206	1306	1406	1606	1606	1906
	H	483	483	483	483	483	483	483	483	483	483	483
	W	232	232	232	232	232	232	232	232	232	232	232
	kg	18	20	22	23	25	27	29	30	34	34	37
VSLB		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204
	L		906	956	1056	1106	1206	1306	1406	1606	1606	1906
	H		483	483	483	483	483	483	483	483	483	483
	W		232	232	232	232	232	232	232	232	232	232
	kg		20	22	23	25	27	29	30	34	34	37
VSLC		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204
	L	756	906	956	1056	1106	1206	1306	1406	1606	1606	1906
	H	583	583	583	583	583	583	583	583	583	583	583
	W	232	232	232	232	232	232	232	232	232	232	232
	kg	18	20	22	23	25	27	29	30	34	34	37
VSLD		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204
	L		906	956	1056	1106	1206	1306	1406	1606	1606	1906
	H		583	583	583	583	583	583	583	583	583	583
	W		232	232	232	232	232	232	232	232	232	232
	kg		21	23	24	26	28	30	31	35	35	38
HSLA		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204
	L		906	956	1056	1106	1206	1306	1406	1606	1606	1906
	H		483	483	483	483	483	483	483	483	483	483
	W		232	232	232	232	232	232	232	232	232	232
	kg		20	22	23	25	27	29	30	34	34	37
HSLB		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204
	L	756	906	956	1056	1106	1206	1306	1406	1606	1606	1906
	H	483	483	483	483	483	483	483	483	483	483	483
	W	232	232	232	232	232	232	232	232	232	232	232
	kg	18	20	22	23	25	27	29	30	34	34	37

Note: With legs, the height will be 100mm higher.

3. Concealed 2-pipes system

HCLA		VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202
	L1	498	648	698	798	848	948	1048	1148	1348	1348	1648
	H	460	460	460	460	460	460	460	460	460	460	460
	W	247	247	247	247	247	247	247	247	247	247	247
	kg	15	16	18	19	20	22	24	28	34	34	37
HCLB		VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202
	L1	498	648	698	798	848	948	1048	1148	1348	1348	1648
	H	460	460	460	460	460	460	460	460	460	460	460
	W	230	230	230	230	230	230	230	230	230	230	230
	kg	15	16	18	19	20	22	24	28	34	34	37
VCLA		VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202
	L1	498	648	698	798	848	948	1048	1148	1348	1348	1648
	H	460	460	460	460	460	460	460	460	460	460	460
	W	230	230	230	230	230	230	230	230	230	230	230
	kg	15	16	18	19	20	22	24	28	34	34	37
VCLB		VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202
	L1	498	648	698	798	848	948	1048	1148	1348	1348	1648
	H	460	460	460	460	460	460	460	460	460	460	460
	W	230	230	230	230	230	230	230	230	230	230	230
	kg	15	16	18	19	20	22	24	28	34	34	37
VCLC		VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202
	L1	498	648	698	798	848	948	1048	1148	1348	1348	1648
	H	460	460	460	460	460	460	460	460	460	460	460
	W	247	247	247	247	247	247	247	247	247	247	247
	kg	15	16	18	19	20	22	24	28	34	34	37
VCLD		VEF022	VEF032	VEF052	VEF062	VEF072	VEF082	VEF102	VEF122	VEF142	VEF162	VEF202
	L1	498	648	698	798	848	948	1048	1148	1348	1348	1648
	H	460	460	460	460	460	460	460	460	460	460	460
	W	247	247	247	247	247	247	247	247	247	247	247
	kg	15	16	18	19	20	22	24	28	34	34	37



4 · Concealed 4-pipes system

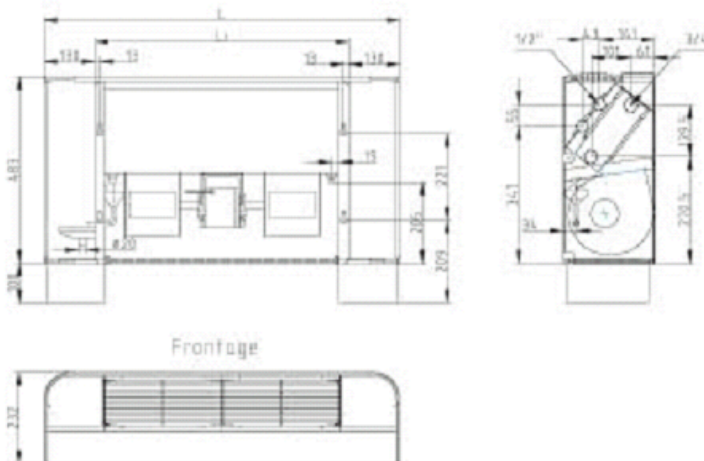
HCLA		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204
	L1	498	648	698	798	848	948	1048	1148	1348	1348	1648
	H	460	460	460	460	460	460	460	460	460	460	460
	W	247	247	247	247	247	247	247	247	247	247	247
	kg	17	18	20	21	22	24	26	30	36	36	39
HCLB		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204
	L1	498	648	698	798	848	948	1048	1148	1348	1348	1648
	H	460	460	460	460	460	460	460	460	460	460	460
	W	230	230	230	230	230	230	230	230	230	230	230
	kg	17	18	20	21	22	24	26	30	36	36	39
VCLA		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204
	L1	498	648	698	798	848	948	1048	1148	1348	1348	1648
	H	460	460	460	460	460	460	460	460	460	460	460
	W	230	230	230	230	230	230	230	230	230	230	230
	kg	17	18	20	21	22	24	26	30	36	36	39
VCLB		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204
	L1	498	648	698	798	848	948	1048	1148	1348	1348	1648
	H	460	460	460	460	460	460	460	460	460	460	460
	W	230	230	230	230	230	230	230	230	230	230	230
	kg	17	18	20	21	22	24	26	30	36	36	39
VCLC		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204
	L1	498	648	698	798	848	948	1048	1148	1348	1348	1648
	H	460	460	460	460	460	460	460	460	460	460	460
	W	247	247	247	247	247	247	247	247	247	247	247
	kg	17	18	20	21	22	24	26	30	36	36	39
VCLD		VEF024	VEF034	VEF054	VEF064	VEF074	VEF084	VEF104	VEF124	VEF144	VEF164	VEF204
	L1	498	648	698	798	848	948	1048	1148	1348	1348	1648
	H	460	460	460	460	460	460	460	460	460	460	460
	W	247	247	247	247	247	247	247	247	247	247	247
	kg	17	18	20	21	22	24	26	30	36	36	39

Optional accessories

- ★ Water side copper ball filter
- ★ Indoor temperature controller (Digital or mechanical)
- ★ Electric 2-way valve
- ★ Electric 3-way valve

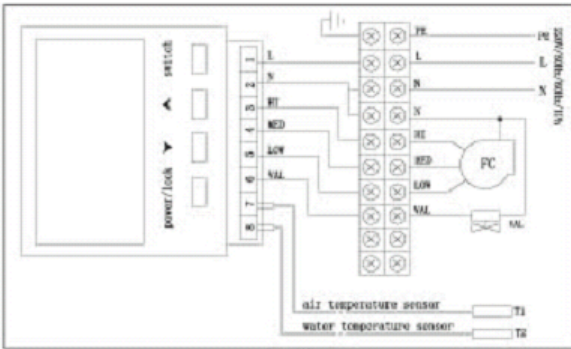
The rule of judging unit's direction

Standing in front of the unit , if the tubing on the left, it is left style , contrarily , it is right

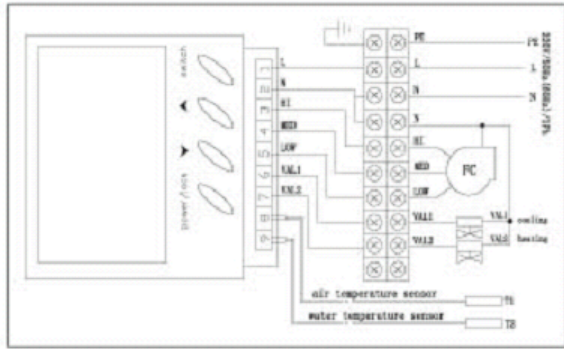




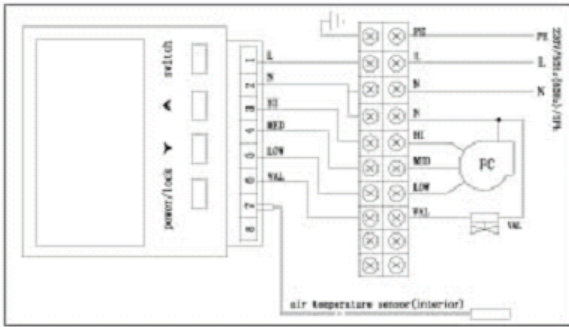
Electric connection



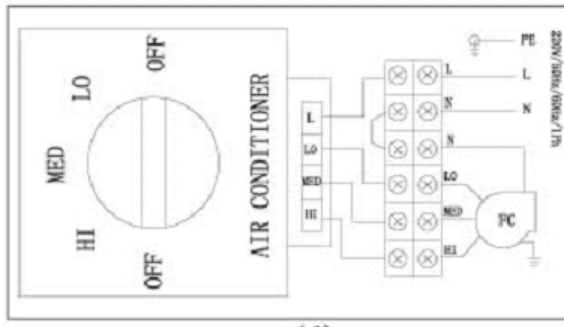
(a)



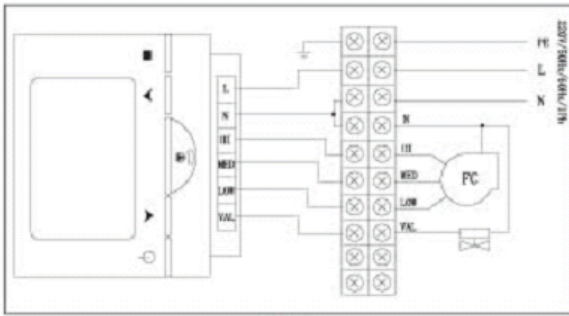
(b)



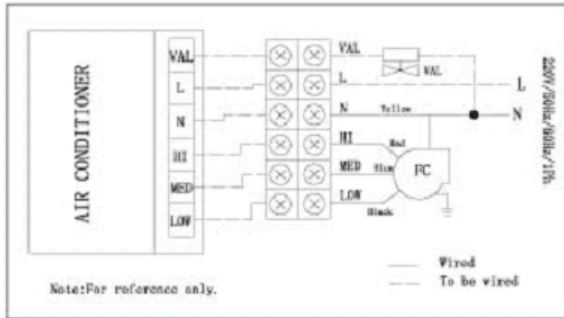
(c)



(d)



(e)



(f)

- (a) 、 (b) used for controller with air temperature sensor and water temperature sensor.
- (c) 、 (e) used for controller with interior air temperature sensor, without water temperature sensor.
- (d) used for controller with 3-speed function only. (f) used for controller with 3-speed and temperature controlling functions.



VCFI CEILING CONCEALED STYLE

VCFI Ceiling Concealed Style fan coil is one of the most widely used Air Conditioner.

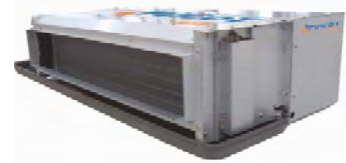
Being hidden in the ceiling, it facilitates no requirement floor space which thus can be used for other purpose. This system is used along with duct system to cover wider area.

Suitable for various applications that require floor level or individual level air conditioning for buildings where there are m such as restaurants, concert halls and hotels. Installat by the location of lighting fixtures or room structure, and interior renovation is made easy with the installation of various ventilation diffusers.

Light & Compact size, Quiet, Low-cost installation, Efficient operation

Capacity ranges: 500m³/h~3600m³/h.

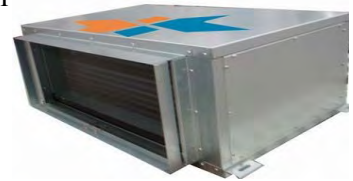
Make sure the specification, dimension or others technical data are same as provided in engineering data book before you start the project.



Low Static Pressure



Medium Static Pressure



High Static Pressure

Nomenclature

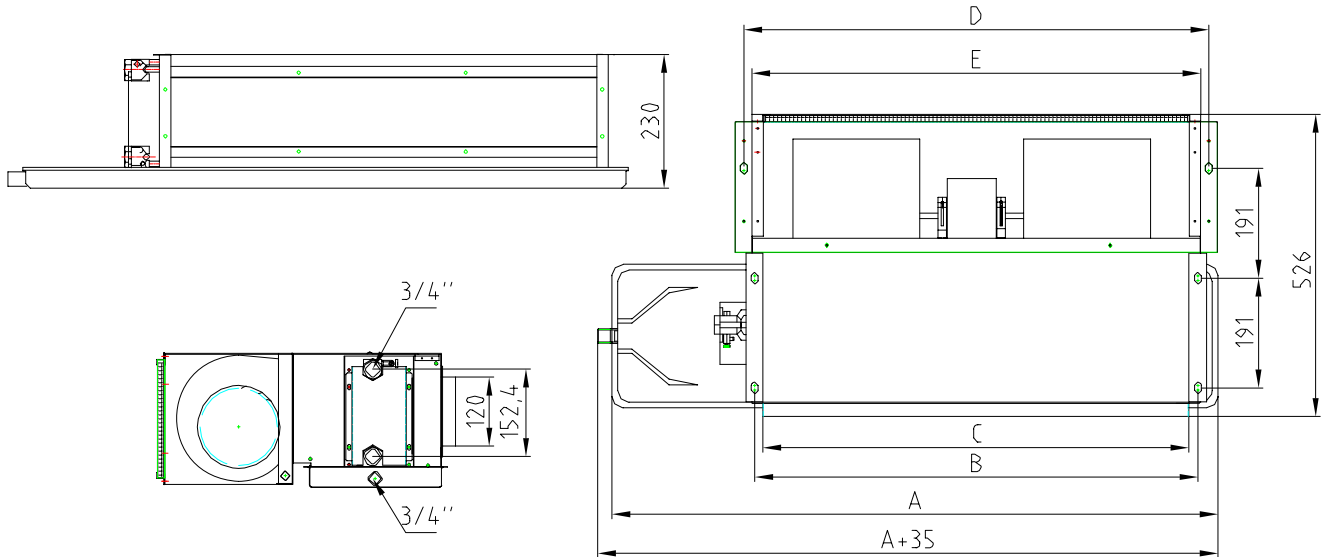
VCFI 051 W A A A A A N A

Vicot Concealed Fan Coil	Air flow 051 : 510m ³ /h	Installation Type W : Horizontal (Standard)	Coil Form A : Concealed (Standard)	Pipe Connection (Facing Air) A : Left (Standard) B : Right	Material A : Zincification Board and Common Fan Motor (Standard) Additional electrical heater N : None (Standard) A: Have Coil Rows A: 2 coils, 3rows (ST, 5 C ⁰ temperature difference) B: 2coils, 4rows (ST, 5 C ⁰ temperature difference) C: 2coils, 4rows (DC, 9 C ⁰ temperature difference) D: 2 coils, 3rows (DC, 9C ⁰ temperature difference) Air Return Box and Filter Net A : Without air return boxes and filter net B : With back air return boxes and without filter net C : With back air return boxes and with filter net (standard) D : With bottom air return boxes and without filter net E : With bottom air return boxes and with filter net Static Pressure Type A: Low Static Pressure (0-50pa, 500~2400m ³ /h) M: Medium Static Pressure (50~100pa; 1000~3600m ³ /h) S: High Static Pressure (With closed cabinet;50-150pa; 2000-3300m ³ /h)
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Dimension and Weight

1. Low Static Pressure



◆ 3 Rows Low Static Pressure (ST)

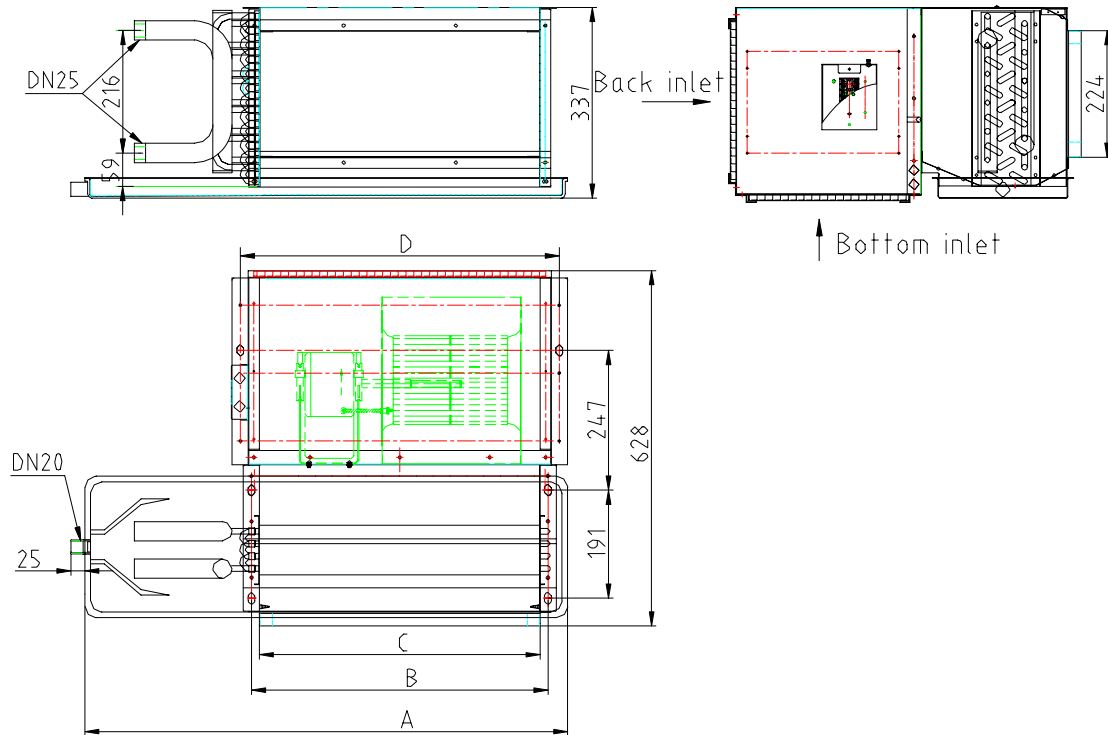
MODEL	A	B	C	D	E	Width	Height	Plenum Conn.dim	Filter Dim	Weight
										3rows(kg)
VCFI051	910	628	600	668	640	526	230	600*120	620*183*10	19.5
VCFI068	1060	728	700	768	740	526	230	700*120	710*183*10	22.1
VCFI102	1260	958	930	1006	970	526	230	930*120	940*183*10	26.3
VCFI136	1510	1228	1200	1268	1240	526	230	1200*120	1220*183*10	33.9
VCFI170	1710	1428	1400	1468	1440	526	230	1400*120	1410*183*10	38.9
VCFI204	1860	1628	1600	1668	1640	526	230	1600*120	1610*183*10	44.2
VCFI238	1960	1728	1700	1768	1740	526	230	1700*120	1710*183*10	46.9

◆ 4 Rows Low Static Pressure(DC)

MODEL	A	B	C	D	E	Width	Height	Plenum Conn.dim	Filter Dim	Weight
										4rows(kg)
VCFI051	910	628	600	668	640	526	230	600*120	620*183*10	20.5
VCFI068	1060	728	700	768	740	526	230	700*120	710*183*10	23.2
VCFI102	1260	958	930	1006	970	526	230	930*120	940*183*10	27.8
VCFI136	1510	1228	1200	1268	1240	526	230	1200*120	1220*183*10	35.6
VCFI170	1710	1428	1400	1468	1440	526	230	1400*120	1410*183*10	41
VCFI204	1860	1628	1600	1668	1640	526	230	1600*120	1610*183*10	46.5
VCFI238	1960	1728	1700	1768	1740	526	230	1700*120	1710*183*10	49.5



2. Medium Static Pressure

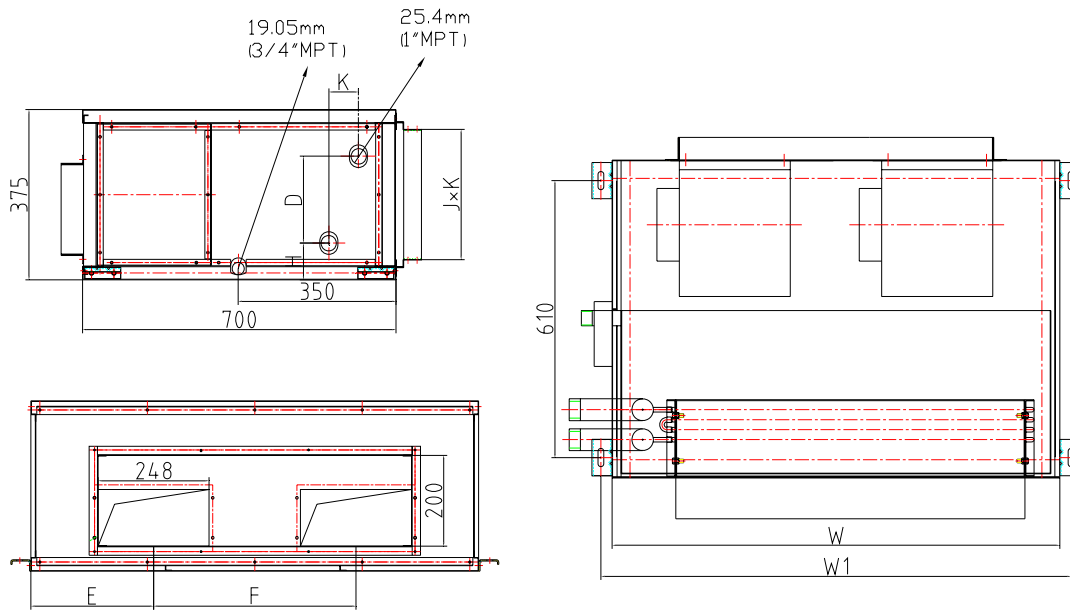


◆ 3/4 Rows, Medium static, With air return boxes and filter net

MODEL	Length				Filter Dim	Width	Height	Plenum Conn.dim	Weight (kg)	
	A	B	C	D					4 rows	3 rows
VCFI102	860	528	500	568	530*283*10	628	337	224*500	33	32
VCFI136	960	628	600	668	630*283*10	628	337	224*600	34	33
VCFI170	1060	728	700	768	710*283*10	628	337	224*700	36	35
VCFI204	1110	778	750	818	760*283*10	628	337	224*750	42	41
VCFI238	1260	928	900	968	910*283*10	628	337	224*900	46	44
VCFI272/306	1410	1078	1050	1118	1060*283*10	628	337	224*1050	53	52
VCFI340	1610	1278	1250	1318	1260*283*10	628	337	224*1250	63	61



3. High Static Pressure



◆ 3 Rows High Static Pressure(ST)

MODEL	W	H	D	E	F	J*K	W1	K	Weight
									3rows
VCFI204	1000	93.5	179	274	452	288*820	1050	44	62
VCFI238	1130	93.5	179	314	502	288*950	1180	44	73
VCFI272	1300	93.5	179	350	600	288*1120	1350	44	85
VCFI306	1300	93.5	179	350	600	288*1120	1350	44	93
VCFI340	1490	93.5	179	400	690	288*1310	1540	44	107

◆ 4 Rows High Static Pressure(ST)

MODEL	W	H	D	E	F	J*K	W1	K	Weight
									4rows
VCFI204	1000	81	191.3	274	452	288*820	1050	66	65
VCFI238	1130	81	191.3	314	502	288*950	1180	66	76
VCFI272	1300	81	191.3	350	600	288*1120	1350	66	87
VCFI306	1300	81	191.3	350	600	288*1120	1350	66	95
VCFI340	1490	81	191.3	400	690	288*1310	1540	66	110

◆ 4 Rows High Static Pressure(DC)

MODEL	W	H	D	E	F	J*K	W1	K	Weight
									4rows
VCFI204	1000	81	191.3	274	452	280*820	1050	66	65
VCFI238	1130	81	191.3	314	502	280*950	1180	66	76
VCFI272	1300	81	191.3	350	600	280*1120	1350	66	87
VCFI306	1300	81	191.3	350	600	280*1120	1350	66	95
VCFI340	1490	81	191.3	400	690	280*1310	1540	66	110


Technical data
1. LOW STATIC
Table 1-A: ST Series (5 Degrees Temp. Diff.)--- 3 Rows, Low Static Pressure

Model		VCFI051	VCFI068	VCFI102	VCFI136	VCFI170	VCFI204	VCFI238	
Performance									
Nominal air flow	High	cu.m/h	504	729	1119	1441	1676	2042	2377
		CFM	297	429	659	848	986	1201	1398
	Medium	cu.m/h	429	620	952	1225	1425	1735	2021
		CFM	252	365	560	721	838	1021	1188
	Low	cu.m/h	383	555	851	1095	1274	1552	1806
		CFM	225	326	501	644	750	913	1062
Nominal total capacity	High	kW	3.48	4.23	6.23	7.86	8.83	10.75	13.82
		Btuh	11882	14430	21248	26808	30118	36671	47162
	Medium	kW	3.21	3.98	5.63	7.06	8.10	9.72	12.49
		Btuh	10955	13569	19196	24094	23829	27239	35909
	Low	kW	2.50	3.09	4.54	5.98	6.98	7.98	10.52
		Btuh	8539	10557	15489	20387	23829	27239	35909
Water flow rate(High)	cu.m/h	0.61	0.75	1.11	1.37	1.55	1.87	2.43	
	G.P.M(US)	2.70	3.30	4.85	6.02	6.83	8.25	10.66	
Water press drop	kPa	4.80	5.89	15.81	19.89	25.83	27.97	30.14	
	ft.wg	1.58	1.93	5.19	6.53	8.47	9.18	9.89	
Noise Level	Low	32	28	35	35	35	37	37	
	Med	35	33	39	39	40	41	43	
	High	42	40	42	44	44	45	48	
Coil									
Face area	sq.m	0.122	0.142	0.189	0.244	0.284	0.325	0.345	
Face velocity	m/s	1.18	1.47	1.70	1.69	1.69	1.80	1.97	
Motor									
Type	3-Speed Permanent Split Capacitor Motor								
No. of motor	#	1	1	1	2	2	2	3	
Class		B	B	B	B	B	B	B	
Total Rating Output	watt	60	70	97	148	178	182	250	
Fan									
Type	Centrifugal fan(Forward Curve)								
No. of fans	#	2	2	2	3	4	4	5	
Water content									
3 Rows	Liters	0.887	1.036	1.376	1.775	2.071	2.366	2.514	

Note : The performances are based on the following conditions :

 Cooling capacity: For 3 rows coils
 Entering air conditions DB : 27℃ WB : 19℃
 Entering chilled water conditions=7℃
 Leaving chilled water conditions=12℃

 Air Flow : Fan Speed-High
 220V~240V/1Ph/50Hz
 Under dry coil conditions at 0pa external static press

Noise Level : Sound measured at 1m away from the center of the unit


Table 1-B: DC Series (9 Degrees Temp. Diff.)---4 Rows, Low Static Pressure

Model		VCFI051	VCFI068	VCFI102	VCFI136	VCFI170	VCFI204	VCFI238	
Performance									
Nominal air flow	High	cu.m/h	686	838	1055	1434	1814	2048	2344
		CFM	404	493	621	843	1067	1205	1379
	Medium	cu.m/h	588	719	905	1229	1523	1727	1969
		CFM	345	423	533	723	896	1017	1159
	Low	cu.m/h	462	565	711	965	1213	1397	1562
		CFM	272	332	418	567	720	823	920
Nominal total capacity	High	kW	2.88	4.05	5.05	7.08	8.22	9.97	10.84
		Btuh	9826	13824	17250	24173	28026	34036	37006
	Medium	kW	2.60	3.38	4.55	6.44	7.39	9.09	10.06
		Btuh	8870	11518	15489	21976	25219	31011	34222
	Low	kW	1.98	2.71	3.58	5.01	6.12	7.28	8.02
		Btuh	6751	9233	12212	17111	20884	24855	27370
Water flow rate(High)		cu.m/h	0.29	0.41	0.50	0.71	0.81	0.98	1.07
		G.P.M(US)	1.28	1.79	2.20	3.09	3.54	4.33	4.69
Water press drop		kPa	3.63	7.36	11.19	11.69	13.50	17.02	29.42
		ft.wg	1.19	2.42	3.67	3.83	4.43	5.58	9.65
Noise Level		Low	32	28	35	35	35	37	36
		Med	36	34	40	40	40	41	43
		High	40	40	43	44	44	45	48
Coil									
Face area	sq.m	0.122	0.142	0.189	0.244	0.284	0.325	0.345	
Face velocity	m/s	1.61	1.69	1.60	1.69	1.69	1.80	1.97	
Motor									
Type	3-Speed Permanent Split Capacitor Motor								
No. of motor	#	1	1	1	2	2	2	3	
Class		B	B	B	B	B	B	B	
Total Rating Output	watt	67	75	102	152	196	216	256	
Fan									
Type	Centrifugal fan(Forward Curve)								
No. of fans	#	2	2	2	3	4	4	5	
Water content									
4 Rows	Liters	1.183	1.381	1.834	2.366	2.761	3.155	3.352	

Note : The performances are based on the following conditions :

Cooling capacity: For 4 rows coils
 Entering air conditions DB : 24℃ WB : 18℃
 Entering chilled water conditions=5.5℃
 Leaving chilled water conditions=14.5℃

Air Flow : Fan Speed-High
 220V~240V/1Ph/50Hz
 Under dry coil conditions at 0pa external static press

Noise Level : Sound measured at 1m away from the center of the unit



2. MEDIUM STATIC

Table 2-A: ST Series--- 3 Rows, Medium Static Pressure

Model		VCFI102	VCFI136	VCFI170	VCFI204	VCFI238	VCFI272	VCFI306	VCFI340	
Performance										
air flow	High	cu.m/h	1114	1490	1829	2266	2649	2981	3329	3659
		CFM	656	877	1076	1333	1558	1753	1958	2152
	Medium	cu.m/h	922	1368	1688	1952	2342	2736	2931	3375
		CFM	542	805	993	1148	1378	1609	1724	1985
	Low	cu.m/h	868	1112	1435	1840	2094	2225	2501	2869
		CFM	511	654	844	1082	1232	1309	1471	1687
Cooling capacity	High	kW	5.62	7.23	9.41	11.24	13.52	14.46	16.17	18.82
		Btuh	19176	24668	32119	38352	46130	49335	55183	64207
	Medium	kW	4.94	6.49	8.18	9.88	11.89	12.97	13.98	16.36
		Btuh	16861	22145	27903	33721	40579	44259	47703	55807
	Low	kW	4.32	5.87	6.99	8.65	10.41	11.75	12.07	13.98
		Btuh	14753	20037	23837	29506	35532	40074	41172	47703
Water flow rate(High)		cu.m/h	0.97	1.24	1.62	1.93	2.32	2.49	2.78	3.24
		G.P.M(US)	4.25	5.47	7.12	8.51	10.23	10.94	12.24	14.24
Water press drop		kPa	16.1	17.6	19.6	21.2	23.0	26.1	30.9	38.4
		ft.wg	5.27	5.75	6.42	6.96	7.54	8.57	10.13	12.58
Noise Lev el		High	47	49	50	52	54	56	58	60
		Med	46	47	47	48	50	52	54	55
		Low	42	43	44	45	46	47	48	50
Coil										
Face area	sq.m	0.152	0.183	0.213	0.229	0.274	0.320	0.320	0.381	
Face velocity	m/s	0.89	1.15	1.50	1.79	2.15	2.30	2.58	2.996	
Motor										
Type	3-Speed Permanent Split Capacitor Motor									
No. of motor	#	1	1	1	1	1	1	1	1	2
Class		B	B	B	B	B	B	B	B	B
Total Rating Output	watt	211	234	273	316	354	433	476	499	
Fan										
Type	Centrifugal fan(Forward Curve)									
No. of fans	#	1	1	1	2	2	2	2	3	
Water content										
3 Rows	Liters	1.21	1.40	1.68	1.85	2.14	2.52	2.52	3.12	

Note : The performances are based on the following conditions :

Cooling capacity: For 3 rows coils ;

Entering air conditions DB : 27°C WB : 19°C ;

Entering chilled water conditions=7°C , Leaving chilled water conditions=12°C ;

Power supply : 220V~240V/1Ph/50Hz ;

Under dry coil conditions at 50pa external static press ;

Noise Level : Sound measured at 1m away from the center of the unit .


Table 2-B: ST Series--- 4 Rows, Medium Static Pressure

Model		VCFI102	VCFI136	VCFI170	VCFI204	VCFI238	VCFI272	VCFI306	VCFI340	
Performance										
air flow	High	m ³ /h	1082	1447	1776	2200	2572	2894	3232	3552
		CFM	636	851	1045	1294	1513	1702	1901	2089
	Medium	m ³ /h	895	1328	1639	1895	2274	2656	2846	3277
		CFM	526	781	964	1115	1338	1562	1674	1928
	Low	m ³ /h	843	1080	1393	1786	2033	2160	2428	2785
		CFM	496	635	819	1051	1196	1271	1428	1638
Cooling capacity	High	kW	6.46	8.31	10.82	12.92	15.54	16.62	18.59	21.63
		Btuh	22042	28354	36918	44083	53022	56707	63429	73802
	Medium	kW	5.68	7.46	9.40	11.36	13.67	14.91	16.07	18.80
		Btuh	19380	25454	32073	38760	46642	50873	54831	64146
	Low	kW	4.97	6.75	8.03	9.94	11.97	13.50	13.87	16.07
		Btuh	16958	23031	27398	33915	40842	46062	47324	54831
Water flow rate(High)		m ³ /h	1.11	1.43	1.86	2.22	2.67	2.86	3.20	3.72
		G.P.M(US)	4.89	6.29	8.19	9.78	11.76	12.58	14.07	16.37
Water press drop		kPa	20.6	22.5	25.1	27.2	29.5	33.5	39.6	49.2
		ft.wg	6.76	7.38	8.23	8.92	9.68	10.99	12.99	16.14
Noise Lev el		Low	43	44	45	46	47	48	50	52
		Med	47	48	48	49	51	53	55	56
		High	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	1.98	2.20	2.32	2.67	2.61	2.51	2.65	2.59	
Motor										
Type	3-Speed Permanent Split Capacitor Motor									
No. of motor	#	1	1	1	1	1	1	1	1	2
Class		B	B	B	B	B	B	B	B	B
Total Rating Input	W	270	300	350	405	454	555	610	640	
Fan										
Type	Centrifugal fan(Forward Curve)									
No. of fans	#	1	1	1	2	2	2	2	3	
Water content										
4 Rows	Liters	1.616	1.863	2.235	2.472	2.857	3.36	3.36	4.159	

Note : The performances are based on the following conditions :

Cooling capacity: For 4 rows coils ;

Entering air conditions DB : 27°C WB : 19°C ;

Entering chilled water conditions=7°C , Leaving chilled water conditions=12°C ;

Power supply : 220V~240V/1Ph/50Hz ;

Under dry coil conditions at 50pa external static press ;

Noise Level : Sound measured at 1m away from the center of the unit .


Table 2-C: DC Series--- 4 Rows, Medium Static Pressure

Model		VCFI102	VCFI136	VCFI170	VCFI204	VCFI238	VCFI272	VCFI306	VCFI340	
Performance										
Nominal air flow	High	m ³ /h	1082	1447	1776	2200	2572	2894	3232	3552
		CFM	636	851	1045	1294	1513	1702	1901	2089
	Mediu m	m ³ /h	895	1328	1639	1895	2274	2656	2846	3277
		CFM	526	781	964	1115	1338	1562	1674	1928
	Low	m ³ /h	843	1080	1393	1786	2033	2160	2428	2785
		CFM	496	635	819	1051	1196	1271	1428	1638
Cooling capacity	High	kW	5.218	6.712	8.740	10.436	12.553	13.425	15.016	17.472
		Btuh	17804	22903	29821	35608	42829	45806	51235	59614
	Mediu m	kW	4.59	5.91	7.69	9.18	11.05	11.81	13.21	15.38
		Btuh	15668	20155	26242	31335	37690	40309	45087	52460
	Low	kW	4.02	5.17	6.73	8.04	9.67	10.34	11.56	13.45
		Btuh	13709	17635	22962	27418	32978	35270	39451	45902
Water flow rate(High)	m ³ /h	0.50	0.64	0.83	1.00	1.20	1.28	1.43	1.67	
	G.P.M(US)	2.19	2.82	3.67	4.39	5.28	5.64	6.31	7.34	
Water press drop	kPa	6.74	7.36	8.21	8.89	9.65	10.95	12.95	16.09	
	ft.wg	2.21	7.38	8.23	8.92	9.67	10.98	12.98	16.13	
Noise Level	Low	43	44	45	46	47	48	50	52	
	Med	47	48	48	49	51	53	55	56	
	High	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	1.98	2.20	2.32	2.67	2.61	2.51	2.65	2.59	
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	270	300	350	405	454	555	610	640	
Fan										
Type	Centrifugal fan(Forward Curve)									
No. of fans	#	1	1	1	2	2	2	2	3	
Water content										
4 Rows	Liters	1.616	1.863	2.235	2.472	2.857	3.36	3.36	4.159	

Note : The performances are based on the following conditions :

Cooling capacity: For 4 rows coils ;

Entering air conditions DB : 24°C WB : 18°C ;

Entering chilled water conditions=5.5°C , Leaving chilled water conditions=14.5°C ;

Power supply : 220V~240V/1Ph/50Hz ;

Under dry coil conditions at 50pa external static press ;

Noise Level : Sound measured at 1m away from the center of the unit .



3. HIGH STATIC

Table 3-A: ST Series--- 3 Rows, High Static Pressure

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
	Medium	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 total capacity	High	kW	10.91	12.46	13.39	14.16	16.10
		Btuh	37109	42381	45544	48163	54940
	Medium	kW	9.56	10.55	11.74	12.42	14.16
		Btuh	32517	35884	39932	42245	48321
	Low	kW	8.29	9.55	10.79	10.96	12.22
		Btuh	28197	32483	36701	37279	41701
Water flow rate(High)		cu.m/h	1.90	2.18	2.36	2.51	2.86
		G.P.M(US)	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 Level		Low	44	46	47	49	51
		Med	48	49	52	54	55
		High	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 Output		watt	334	396	428	517	710
Fan							
Type		Centrifugal fan(Forward Curve)					
No. of fans		#	2	2	2	2	2
Water content							
3 Rows		Liters	1.99	2.18	2.30	2.30	2.85

Note : The performances are based on the following conditions :

Cooling capacity: For 3 rows coils

Entering air conditions DB : 27°C WB : 19°C

Entering chilled water conditions=7°C

Leaving chilled water conditions=12°C

Air Flow : Fan Speed-High

220V~240V/1Ph/50Hz

Under dry coil conditions at 100pa external static pres

Noise Level : Sound measured at 1m away from the center of the unit


Table 3-B: ST Series--- 4 Rows, High Static Pressure

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
	Medium	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 total capacity	High	kW	11.93	14.36	15.36	17.17	19.98
		Btuh	40709	48983	52392	58580	68178
	Medium	kW	10.50	12.63	13.77	14.84	17.36
		Btuh	35810	43091	46997	50638	59243
	Low	kW	9.19	11.06	12.47	12.81	14.84
		Btuh	31343	37730	42562	43721	50638
Water flow rate(High)		cu.m/h	2.14	2.52	2.64	2.95	3.43
		G.P.M(US)	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 Level		Low	46	47	48	50	52
		Med	49	51	53	55	56
		High	53	55	58	59	61
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 Output		watt	430	476	557	717	910
Fan							
Type		Centrifugal fan(Forward Curve)					
No. of fans		#	2	2	2	2	2
Water content							
4 Rows		Liters	2.66	3.01	3.07	3.07	3.8

Note : The performances are based on the following conditions :

Cooling capacity: For 4 rows coils

Entering air conditions DB : 27°C WB : 19°C

Entering chilled water conditions=7°C

Leaving chilled water conditions=12°C

Air Flow : Fan Speed-High
220V~240V/1Ph/50Hz

Under dry coil conditions at 100pa external static pres

Noise Level : Sound measured at 1m away from the center of the unit


Table 3-C: DC Series---4 Rows, High Static Pressure

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
	Medium	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 total capacity	High	kW	10.02	11.67	12.78	13.83	15.04
		Btuh	34189	39815	43625	47195	51299
	Medium	kW	8.52	9.92	11.25	12.21	12.97
		Btuh	29060	33852	38393	41652	44249
	Low	kW	7.61	8.87	10.15	10.74	11.30
		Btuh	25977	30251	34610	36648	38558
Water flow rate(High)		cu.m/h	1.02	1.16	1.28	1.34	1.49
		G.P.M(US)	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 Level		Low	46	47	47	49	51
		Med	49	51	52	54	55
		High	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 Output		watt	430	476	557	717	910
Fan							
Type		Centrifugal fan(Forward Curve)					
No. of fans		#	2	2	2	2	2
Water content							
4 Rows		Liters	2.66	3.01	3.07	3.07	3.8

Note : The performances are based on the following conditions :

Cooling capacity: For 4 rows coils

Entering air conditions DB : 24℃ WB : 18℃

Entering chilled water conditions=5.5℃

Leaving chilled water conditions=14.5℃

Air Flow : Fan Speed-High

220V~240V/1Ph/50Hz

Under dry coil conditions at 100pa external static pres

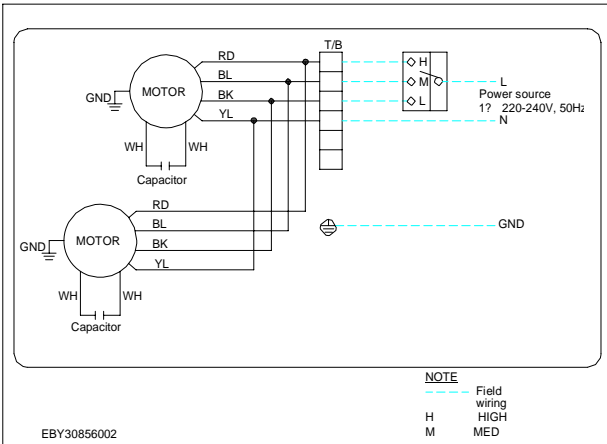
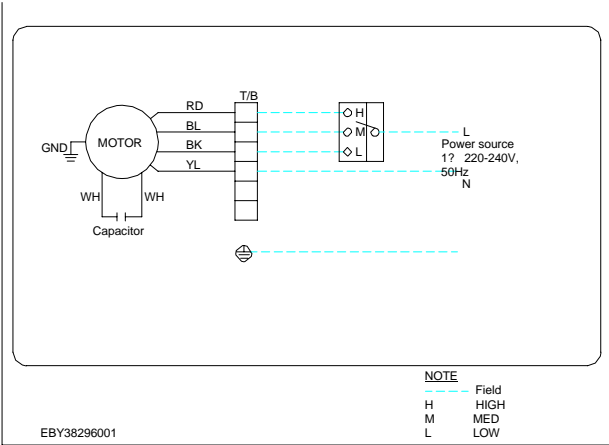
Noise Level : Sound measured at 1m away from the center of the unit



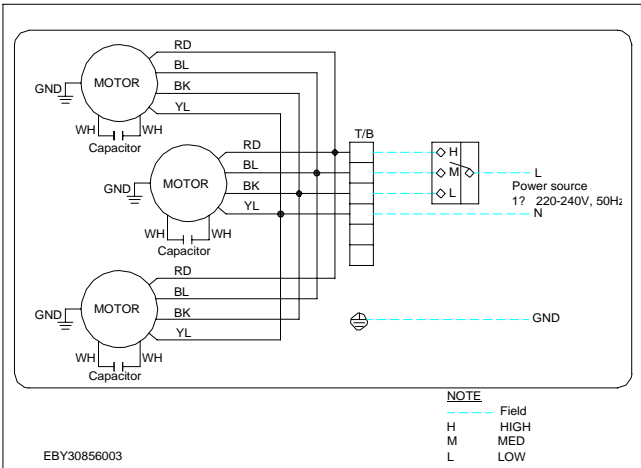
Wiring Diagram

Model : Low Static Pressure:
 VCFI051 、 VCFI068 、 VCFI102
Medium Static Pressure:
 VCFI102 、 VCFI136 、
 VCFI170 、
 VCFI204 、 VCFI238 、 VCFI272

Model : Low Static Pressure:
 VCFI136 、 VCFI170 、 VCFI204
Medium Static Pressure:
 VCFI340
High Static Pressure:
 VCFI204 、 VCFI238 、 VCFI272
 VCFI306 、 VCFI340



Model : Low Static Pressure:
 VCFI238



Selected projects/ Seleccion proyectos/Реализованные проекты/ Progetti scelti



South City Hospital
Hspital de Ciudad Sur
Южный Город, Больница
Ospedale di Città Sud



Russian TVER Rubplastic Manufacturer
La fabrica del producto plástico llamada TVER de Rus
Тверь Рубпласт Завод Россия
La fabrica del producto plástico llamada TVER de Rus



Karachi Atrium mall
Karachi Atrium mercado
Karachi Atrium Универсам
Karachi Centro commerciale



Yibin Nan'an Branch of the First People's Hospital
Sucursal Nanan del Primer Hospital Yibin
Ибинь Первая Больница
Ospedale di Yibin Nan'an Ramo del Primo Popolo



PT Dalzon Chemicals Indonesia
PT Dalzon Quimica Indonesia
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