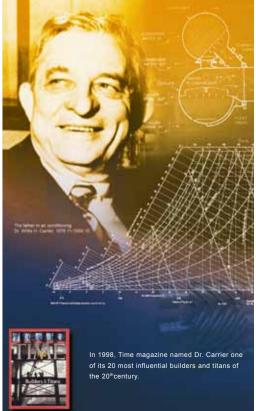




39CBFI/39CBF

Air-Handling Unit Air Flow: 2000~200000m² /h





Carrier China

Carrier Corporation is a subsidiary of the United Technologies Corp. (UTC), which ranks the 150th in Fortune Top 500 in 2011 and has its operations in aerospace and building systems industries all over the world. From the time the founder Dr. Carrier invented the first system of modern air conditioning in 1902, Carrier has been the world leader in the air conditioning industry with its products and system solutions supplied to numerous famous buildings, and up to now, the network of distribution cover more than 170 countries all over the world. In 2011, Carrier ranked top in the HVAC industry field with its sales revenue of US \$12 billion.

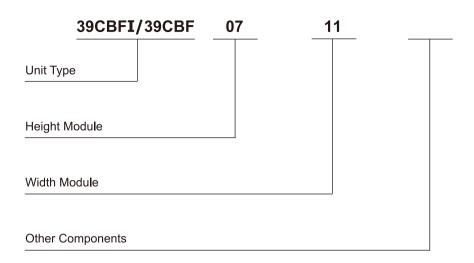
In China, there are 6 Carrier factories which have more than 2500 employees. As the world-class factory, Carrier has a number of technically advanced production lines, manufacturing commercial and residential chillers, compressors and air-side products. A wide range of products are able to meet diversified requirements of different customers. The global R&D center located in Shanghai has the capability of developing several major projects in the same time, with many advanced technical patents awarded to support Carrier stay most competitive in terms of technology advantage in the HVAC industry.







Identification & Dimension



General rule of the height, width and length of a section or unit can be determined with the module concept:

39CBFI 0608~2333

(1) Unit Height = Height Module × 100 +100 +100 (base)

(2) Unit Width = Width Module × 100 +100

Example: 39CBFI 0711 07 Height Module

Unit Height: 7 × 100 +100 +100 (base) = 900mm

11 Width Module

Unit Width: 11 × 100 + 100 = 1200mm

39CBF 0608~2333

(1) Unit Height = Height Module × 100 +110 +110 (base)

(2) Unit Width = Width Module × 100 +110

Example: 39CBF 0711 07 Height Module

Unit Height: $7 \times 100 + 110 + 100$ (base) = 910mm

11 Width Module

Unit Width: 11 × 100 + 110 = 1210mm

39CBFI 2532~4750

(1) Unit Height = Height Module × 100 +100 +200 (base)

(2) Unit Width = Width Module × 100 +100

Example: 39CBFI 3132 31 Height Module

Unit Height: $31 \times 100 + 100 + 200$ (base) = 3400m

32 Width Module

Unit Width: 32 × 100 + 100 = 3300mm

39CBF 2532~4750

(1) Unit Height = Height Module × 100 +110 +200 (base)

(2) Unit Width = Width Module × 100 +110

Example: 39CBF 3132

31 Height Module

Unit Height: $31 \times 100 + 110 + 200$ (base) = 3410mm

32 Width Module

Unit Width: 32 × 100 + 110 = 3310mm

Air Volume

Features

Double skin panel construction, excellent heat preservation

• The thickness of PU casing panel is 50mm, with light weight, good rigidity and thermal conductivity coefficient less than 0.0199W/m°C. Moreover, special insulation treatment is conducted at the inner parts of the frame and the middle frame strips to prevent the cold bridge effect. The use of high-quality color steel sheet and galvanized steel sheet in the double-skin metal panel ensures good fireproof and rust preventive performance of the unit. In addition, the outer panel can also use the cold-rolled steel sheet treated with powder spraying while the inner panel can be made of stainless steel to meet different customer requirements.



New sealing material minimizing air leakage

• The unit casing is made up of panels, frame and sealing strips. The panels are connected accurately by adopting unique embedded abutting method. New type of sealing strips between the frame and the panels, and careful sealing design to all access panels and locations passing-through pipes ensure excellent air tightness of the unit, which completely complies with or exceeds the national standard GB/T14294-2008.



Ingenious condensate drain pan

The drain pan is made of the galvanized steel sheet and stainless steel one may also be
acceptable. This design ensures to drain all the condensed water. The drain valve is
arranged at the bottom of the coil return circuit, and this can discharge the seeper and
avoid the frost cracking of the coil.







Hot and cold water coils designed according to international standard

- Fins are the "dual sine-wave" form and mechanically bonded with copper tubes, realizing excellent heat transfer efficiency. Hydrophilic aluminum foils may also be utilized to achieve better heat transfer performance. The standard coil header is constructed of steel and can also be customized with copper. Headers have drain and vent connections, so coil is drainable and has non air trapping circuits. The water in the coil must be discharged in winter to avoid the frost crack of the coil.
- If the coil face air velocity is higher than 2.5m /s, a drift eliminator can be installed on the back of the coil to effectively isolate moisture in air.



Corrugated damper flexible to adjust

 With manual or electric mode available, the corrugated linkage damper can be opened flexibly, and can also add an electric controller as required.



Unit base

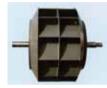
 Each section has a base, which enhances the strength of the whole unit, reduces vibration, and make it easy to transport and assemble.

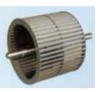


The fan has the optimized forward or backward double-inlet centrifugal type with low noise and high efficiency.

• The fan impeller and pulley are statically and dynamically balanced, and the whole fan is calibrated through the operational vibration testing, making the fan to operate stably and smoothly. With the fan and motor assembly mounted on a common base with shock absorber and the fan outlet isolated from the casing by a flexible connection and completely separated from moving parts, the vibration is effectively isolated. Moreover, the forward or backward impeller may be selected according to the air pressure and volume.







Belt-driven Fan

Backward Impeller

Forward Impeller

Various filters available to meet different needs

• Filters of various filtering levels are available ranging from primary filters (Panel type, efficiency: G4), to medium filters (Bag type, efficiency: F8), and to high filters (H13). And some special filters such as activated carbon filters, cartridge filters and destatic filters can also be provided.



High efficiency Filter



Bag Filter



Panel Filter

Modular design convenient to select

- The width, height and length of the unit are proportionally increased with 100mm as module.
- Each air volume corresponds with a certain unit type.
- Modular products save raw material and control costs to the maximum extent.
- Standard modular products make modeling and manufacturing faster and more convenient.

Easy maintenance

 All basic component parts are standard and interchangeable with competitive prices. The unit is designed to have removable panels on its one side, and the access panels are arranged in the necessary components, providing convenience for repair and maintenance of the fan, coil and filter. The coil is installed on the guide rail inside the drain pan, enabling easy maintenance, cleaning and removal.



39CBF Features

Construction

- Modular design
 - All basic component parts are standard and interchangeable. Double-skin panel construction, heat preservation with PU foam
- The thickness of PU foam panel is 50mm, with light weight, good rigidity and thermal conductivity coefficient less than 0.0199W/m*
 - New sealing material minimizing air leakage
- Downwards condensation drain pan
 This design ensures to drain all the condensated water.
 The drain valve is arranged at the bottom of the coil return circuit, and this can discharge the seeper and avoid the frost
- cracking of the coil.
 Corrugated damper
 The corrugated linkage damper can be opened flexibly, and can also add an electric controller as required.
- Unit base
 Each section has a base, which enhances the strength of the whole unit, and make it easy to transport and assemble.



Capacity

- The fan has the optimized forward or backward double-inlet centrifugal type with low noise and high efficiency. The fan impeller and pulley are statically and dynamically balanced, and the whole fan is calibrated through the operational vibration testing, making the fan to operate stably and smoothly.
- With the fan and motor assembly mounted on a common base with shock absorber and the fan outlet isolated from the casing by a flexible connection and completely separated from moving parts, the vibration is effectively isolated.
- Fins are the "dual sine-wave" form and mechanically bonded with copper tubes, realizing excellent heat transfer efficiency.
- Headers have drain and vent connections, so coil is drainable and has non air trapping circuits. The water in the coil must be discharged in winter to avoid the frost crack of the coil.
- If the coil face air velocity is higher than 2.5m/s, a drift eliminator can be installed on the back of the coil to effectively isolate moisture in air.
- Primary efficiency filter is of panel structure, the efficiency up to G4.
 Medium efficiency filter is of bag structure, the efficiency up to F8.
- Sub-high efficiency filter is of bag structure, the efficiency up to F9; High efficiency filter has the efficiency up to H13.

Computer Selection

• Our company provides the double-quick and accurate computer selection. We will get the reasonable and economic unit by working out the optimal function configuration to meet the customer's requirement.

Easy maintenance

- The unit is designed to have removable panels on its one side, and the access panels are arranged in the necessary components, providing convenience for repair and maintenance of the fan, coil and filter.
- The coil is installed on the guide rail inside the drain pan, enabling easy maintenance, cleaning and removal.

Intellectualized Control

Various sensing devices like VFD can be installed in the unit as required to auto control the unit.

39CBF Features

39CBF Features for industry applications

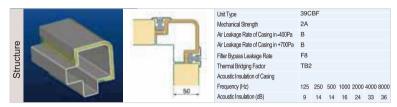
Excellent airtightness

The casing is made up of panels, frame and sealing strips. The panels are connected accurately by adopting unique embedded abutting method. New type of sealing strips between the frame and the panels, and careful sealing design to all access panels and locations passing-through pipes ensure excellent air tightness of the unit.

Optimal thermal insulation

The middle layer of the unit panels is a 50mm thick PU foam with good rigidity, and even inside the frame the insulation quilt is added. Each junction is subjected to special heat insulation treatment to prevent the cold bridge effect. The outer surface of the panels is treated with special spraying to ensure good fireproof and rust-preventive performance of the unit. It is applicable to many applications with cold bridge free requirements such as tobacco, hospitals and electronics.

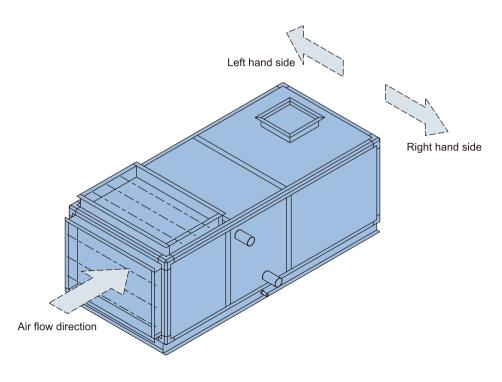
Performance (EN1886 Standard)



Casing Patent No.: 03270349.X

Unit Orientation

Unit Orientation is determined by the location of the inlet and outlet pipes of the coil and the access panel while facing unit in the direction of air flow.



Software

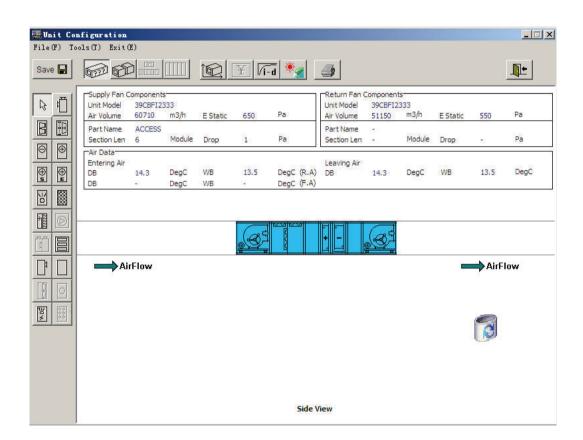
Computer Selection

Our company provides the double-quick and accurate computer selection. We will get the reasonable and economic unit by working out the optimal function configuration to meet the customer's requirement.

Functions & Features

- Project Management
- Modular Designer
- •Free Section Combining
- Section & Option Configuration
- Shipping Configuration

- Performance Calculation
- Quotation
- Drawings & Tech Specification
- •Multilingual & Friendly Interface



Quick Selection

Unit Size	Air Volume	Coil Face	Cooling	/Heating Coil (Capacity	Steam Coil Heating Capacity (kW)	Inside Dimension of Damper	39CBFI/CBF	Dimensions
	m³/h	Area(m2)	2R Heating	4R Cooling	6R Cooling	0.2MPa	(mm/mm*mm)	Hight	Width
39CBFI/CBF0608	2000	0.23	12.96	10.61	32.52*	30.6	676/704*322.5	700/710	900/910
39CBFI/CBF0609	3000	0.32	19.25	16.03	46.15*	36.2	776/804*322.5	700/710	1000/1010
39CBFI/CBF0711	4000	0.46	27.29	23.18	63.14	61.8	976/1004*322.5	800/810	1200/1210
39CBFI/CBF0811	5000	0.57	34.14	29.02	79.03	29.2	976/1004*322.5	900/910	1200/1210
39CBFI/CBF0912	6000	0.69	41.46	35.46	95.96	97.5	1076/1104*322.5	1000/1010	1300/1310
39CBFI/CBF0913	7000	0.76	47.94	41.32	111.77	107.8	1176/1204*480	1000/1010	1400/1410
39CBFI/CBF0914	8000	0.84	54.39	47.35	127.53	118.1	1276/1304*480	1000/1010	1500/1510
39CBFI/CBF1015	10000	1.06	69.13	60.56	153.60	151.5	1376/1404*480	1100/1110	1600/1610
39CBFI/CBF1117	12000	1.31	84.79	65.95	188.88	206.7	1576/1604*480	1200/1210	1800/1810
39CBFI/CBF1317	15000	1.68	107.03	83.28	237.60	241.6	1576/1604*480	1400/1410	1800/1810
39CBFI/CBF1418	18000	1.90	126.34	99.39	283.24	280.8	1676/1704*637	1500/1510	1900/1910
39CBFI/CBF1420	20000	2.14	142.41	114.02	319.94	317.1	1876/1904*637.5	1500/1510	2100/2110
39CBFI/CBF1621	25000	2.62	165.83	143.03	391.43*	363.1	1976/2004*637.5	1700/1710	2200/2210
39CBFI/CBF1822	30000	3.26	203.01	175.65	469.86*	442.7	2076/2104*795	1900/1910	2300/2310
39CBFI/CBF1825	32000	3.75	226.22	197.13	506.12*	533.0	2376/2404*795	1900/1910	2600/2610
39CBFI/CBF2025	35000	4.04	244.05	212.48	564.12*	595.5	2376/2404*795	2100/2110	2600/2610
39CBFI/CBF2125	40000	4.33	272.70	237.86	627.66*	624.5	2376/2404*952.5	2200/2210	2600/2610
39CBFI/CBF2226	45000	4.82	307.16	268.70	693.83*	672.5	2476/2504*952.5	2300/2310	2700/2710
39CBFI/CBF2328	50000	5.39	344.97	299.37	761.06*	738.0	2676/2704*952.5	2400/2410	2900/2910
39CBFI/CBF2333	60000	6.44	417.15*	365.29*	880.6*	898.4	3176/3204*952.5	2400/2410	3400/3410
39CBFI/CBF2532	73170	8.13	470.33	457.23	965.14*		3076/3104*952.5	2600/2610	3300/3310
39CBFI/CBF2832	81081	9.01	513.83*	507.29	1246.68*		3076/3104*952.5	2900/2910	3300/3310
39CBFI/CBF3132	89820	9.98	574.52*	543.02*	1247.79*		3076/3104*1267.5	3200/3210	3300/3310
39CBFI/CBF3438	111240	12.36	668.53	625.96	1770.74*		3676/3704*1267.5	3500/3510	3900/3910
39CBFI/CBF3841	132210	14.69	812.74	759.88	2087.94*		3976/4004*1582.5	3900/3910	4200/4210
39CBFI/CBF4444	159480	17.72	1020.87	932.70	2542.41*		4276/4304*1582.5	4500/4510	4500/4510
39CBFI/CBF4750	198090	22.01	1297.04	1190.93	3101.77*		4876/4904*1582.5	4800/4810	5100/5110

Note: 1. The data of 2R coil heating capacity is under the standard condition. (Air temperature in is 15 °C db, water temperature in is 60 °C)

^{2.} The data of 4R coil cooling capacity is under the standard condition. (Air temperature in is 27 $^{\circ}$ db/19.5 $^{\circ}$ wb, water temperature in is 7 $^{\circ}$ C)

^{3.} The data of 6R coil cooling capacity is under the fresh air condition. (Air temperature in is 35 $^{\circ}$ db/28 $^{\circ}$ wb, water temperature in is 7 $^{\circ}$)

^{4.} The unit height does not include the damper on top and the base of 100mm (0608~2333) / 200mm (2532~4750)

^{5.} The cooling and heating capacity of the coil in the table is just for your reference, the data with "*" means temperature difference of in/out is more than 5 C. Please refer Carrier AHU selection software for detail information.

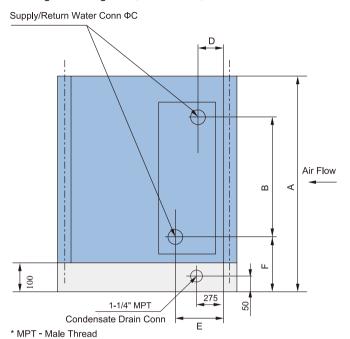
Standard Components

No.	Unit Section	Diagram	Section Length (M: Module)	Remark
1	Return/Mixing/Supply Chamber		(0608~0912) 5M (0913~1317) 6M (1418~1621) 8M (1822~2025) 9M (2125~2333) 11M (2532~2832) 12M (3132~3438) 15M (3841~4750) 18M	1.Could be used as access section 2.Could reduce the length of section suitably when the direction of in/out air is horizontal
2	Electrostatic/Bag/Combined Filter		3M/6M	Access section is recommended at upstream
3	Cooling Coil		5M or 6M; 12M	1.For 0608~2333, the section length is 5M with drift eliminator and 6M without drift eliminator 2. For 2532~4750, the section length is 12M
4	Heating Coil	+	3М	May be be installed together with the cold water coil if the cooling coil does not include a film humidifier and a drift eliminator
5	Steam Heating Coil	• • •	3M	Pay attention that the steam pressure could impact the heating capacity
6	Electric Heating Coil	y	3M	Pay attention to the power stage of control
7	Steam Humidifier	\$\frac{1}{2} \cdot \frac{1}{2}	6M	Pay attention that the steam pressure could impact the humidifier capacity
8	Film Humidifier*		ЗМ	May be installed directly in the coils and drain pan, no additional space needed
9	Spray Humidifier*		6M	Could share the drift eliminator with cooling coil when it is installed next the coil.
10	Electric Humidifier	5 .	6M	
11	Fan		Refer to fan table	Four discharge configurations available
12	Combined Mixing Chamber		(0608~0913) 10M (0914~1825) 12M (2025~2333) 18M (2532~2832) 26M (3132~3438) 32M (3841~4750) 38M	Could be used as access section
13	Attenuator		6M (1 Level) 12M (2 Level)	Access section is recommended at upstream
14	Plenum/Access		3M、6M	The length can not be less than 5M, when it is used as access section.
15	High Efficiency Filter		9M	Already include the access section at upstream
16	Energy Recovery*		6M	Pre-filter at upstream and access section at downstream are recommended

Note: The section with "*" is not available for 2532~4750 in the selection software, please contact Carrier sales office

Coil Connection

Cooling & Heating Coil (0608~2333)



							(mm
Unit Size		39CBFI			øС		
Offic Size	А	В	F	А	В	F	<i>y</i> C
0608	800	357	236	810	357	236	1-1/2" MPT
0609	800	421	236	810	421	236	1-1/2" MPT
0711	900	472	242	910	472	242	2" MPT
0811	1000	599	242	1100	599	242	2" MPT
0912	1100	647	250	1110	647	250	2-1/2" MPT
0913	1100	647	250	1110	647	250	2-1/2" MPT
0914	1100	647	250	1110	647	250	2-1/2" MPT
1015	1200	774	250	1210	774	250	2-1/2" MPT
1117	1300	824	257	1310	824	257	3" MPT
1317	1500	1078	257	1510	1078	257	3" MPT
1418	1600	1142	257	1610	1142	257	3" MPT
1420	1600	1142	257	1610	1142	257	3" MPT
1621	1800	1332	257	1810	1332	257	3" MPT
1822	2000	1586	257	2010	1586	257	3" MPT
1825	2000	1586	257	2010	1586	257	3" MPT

				(mm)			
Unit Cinn			39CBFI/39CBF				
Unit Size	Coil Row	D	Е	øС			
0608~1825	2Rows Heating	55	138	1-1/2" MPT			
0608~1015	4Rows	91	174				
1117~1825	4Rows	84	181				
0608~0609	6Rows	63	201	See above			
0711~0811	6Rows	70	194	table			
0912~1015	6Rows	77	187	tabio			
1117~1825	6Rows	84	180				
0608~1825	8Rows	84	226				

Note: the datas in table are just for your reference

Upper Coil Sup Water Conn Ф	oply/Return C			
<u></u>		D1		
			<u> </u>	
Lower Coil Supply/Return Water Conn ΦF		E1	726	
		D2	72	Air Flow
			ω	
001			-254	

Condensate

Drain Conn

* MPT - Male Thread

							(mm)
Unit Size		39CBFI			39CBF		øС
Onit Oize	A	В	F	A	В	F	80
2025	2200	951	257	2210	951	257	3" MPT
2125	2300	1078	257	2310	1078	257	3" MPT
2226	2400	1205	257	2410	1205	257	3" MPT
2328	2500	1269	257	2510	1269	257	3" MPT
2333	2500	1269	257	2510	1269	257	3" MPT

				(mm)	
Unit Size	Coil Row	39CBFI/39CBF			
Offic Size	Coll Row	D	Е	øС	
2025~2333	2Rows Heating	55	138	1-1/2" MPT	
2025~2333	4Rows	109	206	0	
2025~2333	6Rows	109	206	See above	
2025~2333	8Rows	88	226	table	

Note: the datas in table are just for your reference

Coil Connection

Cooling Coil (2532~4750)

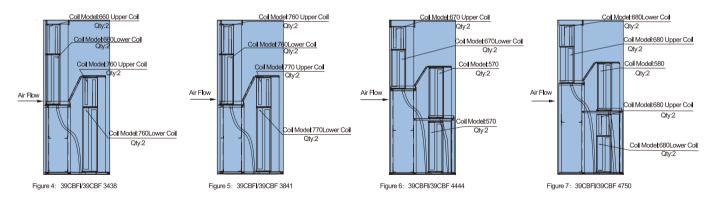
Unit Size	Total Qty of Coil	Coil Model*Qty	Coil Diameter*Qty
39CBFI/39CBF 2532	2	5100*2	Ф89*4
		5100*1	Ф89*4
39CBFI/39CBF 2832	2	0400*4	6100 Upper coil: Ф48*2
		6100*1	6100 Lower coil: Ф89*2
		5100*1	Ф89*2
39CBFI/39CBF 3132	2	7400*4	7100 Upper coil: Ф48*2
		7100*1	7100 Lower coil: Ф89*2
		660*2	660 Upper coil: Ф48*4
39CBFI/39CBF 3438	4	660"2	660 Lower coil: Ф60*4
39CDF1/39CDF 3430		700*0	760 Upper coil: Ф48*4
		760*2	760 Lower coil: Ф89*4
		700*0	760 Upper coil: Ф48*4
39CBFI/39CBF 3841	4	760*2	760 Lower coil: Ф89*4
39CBFI/39CBF 3041	4	770*2	770 Upper coil: Ф48*4
		770"2	770 Lower coil: Ф89*4
		570*4	Ф89*8
39CBFI/39CBF 4444	6	C70*0	670 Upper coil: Ф48*4
		670*2	670 Lower coil: Ф89*4
		580*2	Ф89*4
39CBFI/39CBF 4750	6	680*4	680 Upper coil: Ф48*8
		08U"4	680 Lower coil: Ф89*8

Coil Model:5100
Qly:1
Coil Model:5100
Qly:1
Qly:1
Air Flow
Figure 1: 39CBFI/39CBF 2532
Figure 2: 39CBFI/39CBF 2832

Coil Model:5100
Qly:1

Note: the datas in table are just for your reference Both sides water connection for unit 3438~4750

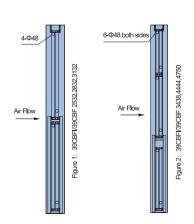
Figure 3: 39CBFI/39CBF 3132



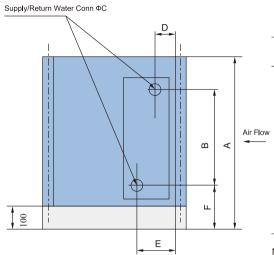
Heating Coil (2532~4750)

Unit Size	Total Qty of Coil	Coil Model*Qty	Coil Diameter*Qty
39CBFI/39CBF 2532	2	4100*2	Ф48*4
39CBFI/39CBF 2832	2	4100*1	Ф48*2
39CBFI/39CBF 2832	2	5100*1	Ф48*2
39CBFI/39CBF 3132	2	5100*2	Ф48*4
2000051/200005 2420		360*2	Ф48*4
39CBFI/39CBF 3438	6	460*4	Ф48*8
39CBFI/39CBF 3841		460*3	Ф48*6
39CDFI/39CDF 3041	6	470*3	Ф48*6
200DEI/200DE 4444		470*2	Ф48*4
39CBFI/39CBF 4444	6	570*4	Ф48*8
39CBFI/39CBF 4750	6	580*6	Ф48*12

Note: the datas in table are just for your reference Both sides water connection for unit 3438~4750

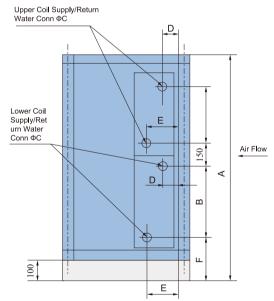


Steam Coil Connection



								(mm)	
Unit Size	39C	BFI 3		CBF	В	øС	D	Е	
OTIL SIZE	Α	F	Α	F					
0608	800	248	810	248	347	2" MPT	80	150	
0609	800	248	810	248	347	2" MPT	80	150	
0711	900	248	910	248	418	2" MPT	80	150	
0811	1000	248	1010	248	560	2" MPT	80	150	
0912	1100	248	1110	248	631	2" MPT	80	150	
0913	1100	248	1110	248	631	2" MPT	80	150	
0914	1100	248	1110	248	631	2" MPT	80	150	
1015	1200	248	1210	248	738	2" MPT	80	150	
1117	1300	248	1310	248	738	2" MPT	80	150	

Note: the data above is just for your reference



								(mm)
Unit Size	39C	BF	390	CBFI	В	øС	D	Е
	Α	F	Α	F		~ -		
1317	1500	248	1510	248	489	2" MPT	80	150
1418	1600	248	1610	248	520	2" MPT	80	150
1420	1600	248	1610	248	520	2" MPT	80	150
1621	1800	248	1810	248	631	2" MPT	80	150
1822	2000	248	2010	248	738	2" MPT	80	150
1825	2000	248	2010	248	738	2" MPT	80	150
2025	2200	248	2210	248	844	2" MPT	80	150
2125	2300	248	2310	248	844	2" MPT	80	150
2226	2400	248	2410	248	844	2" MPT	80	150
2328	2500	248	2510	248	884	2" MPT	80	150
2333	2500	248	2510	248	884	2" MPT	80	150

Note: the data above is just for your reference

Connection Dimensions of unit 2532~4750 depend on the actual condition

Coil Connection

Cooling Coil (2532~4750)

Unit Size	Total Qty of Coil	Coil Model*Qty	Coil Diameter*Qty
39CBFI/39CBF 2532	2	5100*2	Ф89*4
		5100*1	Ф89*4
39CBFI/39CBF 2832	2	0400*4	6100 Upper coil: Ф48*2
		6100*1	6100 Lower coil: Ф89*2
		5100*1	Ф89*2
39CBFI/39CBF 3132	2	7400*4	7100 Upper coil: Ф48*2
		7100*1	7100 Lower coil: Ф89*2
		000*0	660 Upper coil: Ф48*4
200DEI/200DE 2420	4	660*2	660 Lower coil: Ф60*4
39CBFI/39CBF 3438		700+0	760 Upper coil: Ф48*4
		760*2	760 Lower coil: Ф89*4
		700*0	760 Upper coil: Ф48*4
39CBFI/39CBF 3841	4	760*2	760 Lower coil: Ф89*4
39CBFI/39CBF 3841	4	770+0	770 Upper coil: Ф48*4
		770*2	770 Lower coil: Ф89*4
		570*4	Ф89*8
39CBFI/39CBF 4444	6	070+0	670 Upper coil: Ф48*4
		670*2	670 Lower coil: Ф89*4
		580*2	Ф89*4
39CBFI/39CBF 4750	6	22244	680 Upper coil: Ф48*8
		680*4	680 Lower coil: Ф89*8
			•

Coil Model:5100
Qly:1

Coil Model:5100
Qly:1

Air Flow

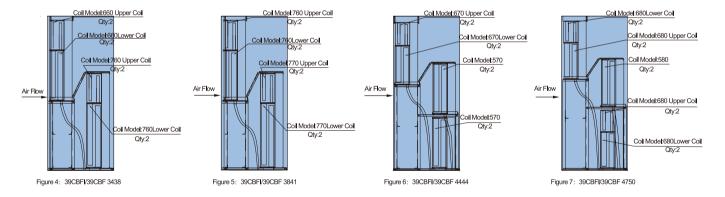
Figure 1: 39CBFI/39CBF 2532

Figure 2: 39CBFI/39CBF 2832

Coil Model:5100
Qly:1

Note: the datas in table are just for your reference Both sides water connection for unit 3438~4750

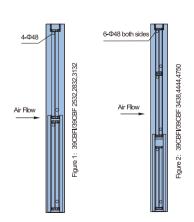
Figure 3: 39CBFI/39CBF 3132



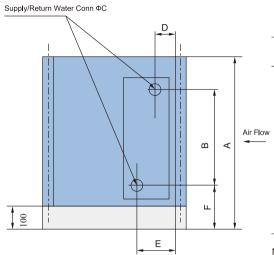
Heating Coil (2532~4750)

Unit Size	Total Qty of Coil	Coil Model*Qty	Coil Diameter*Qty
39CBFI/39CBF 2532	2	4100*2	Ф48*4
39CBFI/39CBF 2832	2	4100*1	Ф48*2
39CBFI/39CBF 2832	2	5100*1	Ф48*2
39CBFI/39CBF 3132	2	5100*2	Ф48*4
200DEI/200DE 2420		360*2	Ф48*4
39CBFI/39CBF 3438	6	460*4	Ф48*8
39CBFI/39CBF 3841	0	460*3	Ф48*6
39CDFI/39CDF 3041	6	470*3	Ф48*6
200DEI/200DE 4444		470*2	Ф48*4
39CBFI/39CBF 4444	6	570*4	Ф48*8
39CBFI/39CBF 4750	6	580*6	Ф48*12

Note: the datas in table are just for your reference Both sides water connection for unit 3438~4750

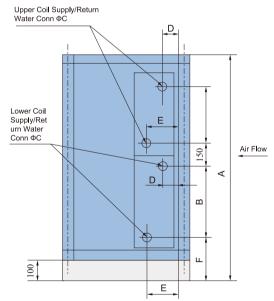


Steam Coil Connection



								(mm)
Unit Size 39C		BFI	I 39CBF		В	øС	D	Е
OTIL SIZE	Α	F	Α	F				
0608	800	248	810	248	347	2" MPT	80	150
0609	800	248	810	248	347	2" MPT	80	150
0711	900	248	910	248	418	2" MPT	80	150
0811	1000	248	1010	248	560	2" MPT	80	150
0912	1100	248	1110	248	631	2" MPT	80	150
0913	1100	248	1110	248	631	2" MPT	80	150
0914	1100	248	1110	248	631	2" MPT	80	150
1015	1200	248	1210	248	738	2" MPT	80	150
1117	1300	248	1310	248	738	2" MPT	80	150

Note: the data above is just for your reference



								(mm)
Unit Size	Unit Size 39CE		39CBFI		В	øС	D	Е
	Α	F	Α	F		~ -		
1317	1500	248	1510	248	489	2" MPT	80	150
1418	1600	248	1610	248	520	2" MPT	80	150
1420	1600	248	1610	248	520	2" MPT	80	150
1621	1800	248	1810	248	631	2" MPT	80	150
1822	2000	248	2010	248	738	2" MPT	80	150
1825	2000	248	2010	248	738	2" MPT	80	150
2025	2200	248	2210	248	844	2" MPT	80	150
2125	2300	248	2310	248	844	2" MPT	80	150
2226	2400	248	2410	248	844	2" MPT	80	150
2328	2500	248	2510	248	884	2" MPT	80	150
2333	2500	248	2510	248	884	2" MPT	80	150

Note: the data above is just for your reference

Connection Dimensions of unit 2532~4750 depend on the actual condition

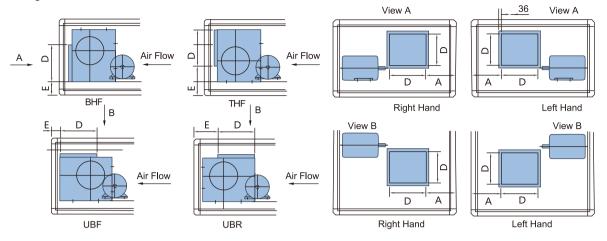
Fan & Motor (0608~2333)

 $\left(mm\right)$

		Max. Motor Power		Fan section	on length
Unit Size	Fan Model	(kW)	Max. Motor Model	Horizontal	Vertical
39CBFI/CBF0608	ADZ160	1.5	Y90	600/610	900/910
39CBF //CBF 0000	ADZ180	1.5	190	600/610	900/910
39CBFI/CBF0609	ADZ180	2.2	Y100	600/610	900/910
39001/0010009	ADZ200	2.2	1100	700/710	900/910
39CBFI/CBF0711	ADZ200	3.7	Y112	700/710	900/910
39CBF1/CBF0/11	ADZ225	3.7	1112	700/710	900/910
39CBFI/CBF0811	ADZ225	3.7	Y112	700/710	900/910
39CBF /CBF0011	ADZ/RDZ250	3.7	1112	700/710	900/910
39CBFI/CBF0912	ADZ/RDZ250	5.5	Y132	700/710	900/910
39CBF /CBF0912	ADZ/RDZ280	5.5	1132	800/810	900/910
39CBFI/CBF0913	ADZ/RDZ280	5.5	Y132	800/810	900/910
390001/0000913	ADZ/RDZ315	5.5	1132	800/810	900/910
39CBFI/CBF0914	ADZ/RDZ315	7.5	Y132	800/810	900/910
39CBFI/CBF0914	ADZ/RDZ355	7.5	1132	900/910	900/910
39CBFI/CBF1015	ADZ/RDZ355	7.5	Y132	900/910	900/910
39CBFI/CBF 1013	ADZ/RDZ400	7.5	1132	900/910	900/910
39CBFI/CBF1117	ADZ/RDZ400	11	Y160	900/910	900/910
39CBF /CBF111/	ADZ/RDZ450	- 11		1100/1110	1100/1110
39CBFI/CBF1317	ADZ/RDZ400	15	Y160	900/910	900/910
39CBFI/CBF 1317	ADZ/RDZ450	- 15	1100	1100/1110	1100/1110
2000051/0054440	ADZ/RDZ450	0Z/RDZ450 15 Y160	V460	1100/1110	1100/1110
39CBFI/CBF1418	ADZ/RDZ500	- 15	Y160	1100/1110	1100/1110
2000051/0054420	ADZ/RDZ500	18.5	Y180	1100/1110	1100/1110
39CBFI/CBF1420	ADZ/RDZ560	10.5	1180	1300/1310	1300/1310
200051/0054624	ADZ/RDZ560	40 F	V400	1300/1310	1300/1310
39CBFI/CBF1621	ADZ/RDZ630	18.5	Y180	1400/1410	1400/1410
200051/0054022	ADZ/RDZ560	40 F	Y180	1300/1310	
39CBFI/CBF1822	ADZ/RDZ630	18.5		1400/1410	
20CDEUCDE1925	ADZ/RDZ630	30	1/000	1400/1410	
39CBFI/CBF1825	ADZ/RDZ710	. 30	Y200	1500/1510	
39CBFI/CBF2025	ADZ/RDZ630	30	Y200	1400/1410	
39CBFI/CBF2025	ADZ/RDZ710	30	1200	1500/1510	
39CBFI/CBF2125	ADZ/RDZ710	30	Y200	1500/1510	
39CBFI/CBF2125	ADZ/RDZ800	30	1200	1700/1710	
20CDEUCDE2226	ADZ/RDZ710	30	V200	1500/1510	
39CBFI/CBF2226	ADZ/RDZ800	30	Y200	1700/1710	
20CDEI/CDE2220	ADZ/RDZ800	37	Y225	1700/1710	
39CBFI/CBF2328	ADZ/RDZ900	31	1220	1900/1910	
39CBFI/CBF2333	ADZ/RDZ800	45	Y225	1700/1710	
390DFI/0DF2333	ADZ/RDZ900	40		1900/1910	

Fan

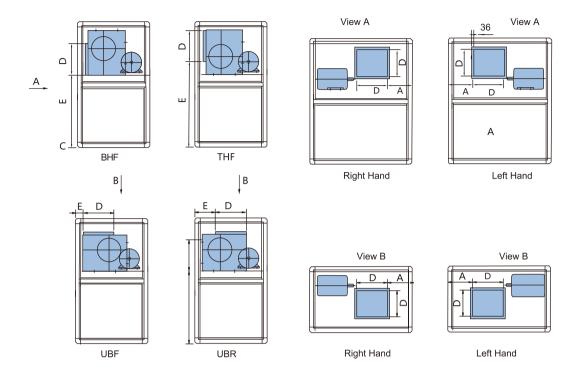
Fan Arrangement- Horizontal Unit (0608-2333)



(mm) Ε Unit Size Fan Model D Α THF BHF UBF **UBR** ADZ160 229.0 205.0 290.5 168.0 175 197.0 39CBFI0608 290.5 168.0 175 222.0 229.0 ADZ180 184.5 296.0 229.0 290.5 168.0 175 222.0 ADZ180 39CBFI0609 ADZ200 265.5 256.0 298.5 168.0 175 231.0 ADZ200 365.5 256.0 298.5 168.0 175 231.0 39CBFI0711 268.0 ADZ225 316.5 288.0 312.5 168.0 175 268.0 168.0 175 ADZ225 288.0 312.5 316.5 39CBFI0811 175 257.0 ADZ/RDZ250 316.5 322.0 324.0 168.0 322.0 324.0 168.0 175 257.0 ADZ/RDZ250 366.5 39CBFI0912 ADZ/RDZ280 340.5 361.0 341.0 168.0 175 306.0 175 306.0 ADZ/RDZ280 390.5 361.0 341.0 168.0 39CBFI0913 175 293.0 ADZ/RDZ315 347.5 404.0 360.0 168.0 175 293.0 ADZ/RDZ315 397.5 404.0 360.0 168.0 39CBFI0914 453.0 385.0 193.0 175 315.0 ADZ/RDZ355 400.5 ADZ/RDZ355 450.5 453.0 385.0 193.0 175 315.0 39CBFI1015 175 345.0 ADZ/RDZ400 399.5 507.0 413.0 193.0 175 345.0 507.0 413 0 193 0 ADZ/RDZ400 499 5 39CBFI1117 175 373.0 ADZ/RDZ450 439.5 569.0 442.0 193.0 ADZ/RDZ400 499.5 507.0 413.0 193.0 175 345.0 39CBFI1317 ADZ/RDZ450 394.5 569.0 442.0 193.0 175 373.0 175 373.0 569.0 442.0 193.0 ADZ/RDZ450 444.5 39CBFI1418 638.0 463.0 193.0 175 395.0 ADZ/RDZ500 425.5 463.0 175 395.0 ADZ/RDZ500 525.5 638.0 193.0 39CBFI1420 ADZ/RDZ560 516.5 715.0 554.0 253.0 175 426.0 426.0 ADZ/RDZ560 516.5 715.0 554.0 253.0 175 39CBFI1621 801.0 596.0 253.0 175 469.0 ADZ/RDZ630 430.5 715.0 554.0 253.0 175 426.0 ADZ/RDZ560 616.5 39CBFI1822 596.0 253.0 175 469.0 ADZ/RDZ630 530.5 801.0 ADZ/RDZ630 725.5 801.0 596.0 253.0 175 469.0 39CBFI1825 175 516.0 ADZ/RDZ710 628.5 898.0 644.0 253.0 175 469.0 801.0 596.0 253.0 ADZ/RDZ630 725.5 39CBFI2025 175 516.0 628.5 898.0 644.0 253.0 ADZ/RDZ710 898.0 644.0 253.0 175 516.0 ADZ/RDZ710 578.5 39CBFI2125 ADZ/RDZ800 518.5 1007.0 713.0 266.0 175 572.0 ADZ/RDZ710 678.5 898.0 644.0 253.0 175 516.0 39CBFI2226 175 572.0 713.0 266.0 ADZ/RDZ800 618.5 1007.0 ADZ/RDZ800 668.5 1007.0 713.0 266.0 175 572.0 39CBFI2328 770.0 266.0 175 629.0 ADZ/RDZ900 640.5 1130.0 ADZ/RDZ800 968.5 1007.0 713.0 266.0 175 572.0 39CBFI2333 175 629.0 770.0 266.0 ADZ/RDZ900 940.5 1130.0

A/E (39CBF)=A/E (39CBFI)+5mm, Value D is same. Note: the datas in table are just for your reference

Fan Arrangement- Vertical Unit (0608~2333)



							(mm)	
Unit Size	Fan Model	Α	D	E				
OIII 0120	T diriviodor			THF	BHF	UBF	UBR	
2000510000	ADZ160	229.0	205	990.5	868.0	175	197	
39CBFI0608	ADZ180	184.5	229	990.5	868.0	175	222	
0000510000	ADZ180	296.0	229	990.5	868.0	175	222	
39CBFI0609	ADZ200	265.5	256	998.5	868.0	175	231	
0000000744	ADZ200	365.5	256	1098.5	968.0	175	231	
39CBFI0711	ADZ225	316.5	288	1112.5	968.0	175	268	
0000510044	ADZ225	316.5	288	1212.5	1068.0	175	268	
39CBFI0811	ADZ/RDZ250	316.5	322	1224.0	1068.0	175	257	
0000510040	ADZ/RDZ250	366.5	322	1324.0	1168.0	175	257	
39CBFI0912	ADZ/RDZ280	340.5	361	1341.0	1168.0	175	306	
0000510040	ADZ/RDZ280	390.5	361	1341.0	1168.0	175	306	
39CBFI0913	ADZ/RDZ315	347.5	404	1360.0	1168.0	175	293	
0000510044	ADZ/RDZ315	397.5	404	1360.0	1168.0	175	293	
39CBFI0914	ADZ/RDZ355	400.5	453	1385.0	1193.0	175	315	
0000514045	ADZ/RDZ355	450.5	453	1485.0	1293.0	175	315	
39CBFI1015	ADZ/RDZ400	399.5	507	1513.0	1293.0	175	345	
0000514447	ADZ/RDZ400	499.5	507	1613.0	1393.0	175	345	
39CBFI1117	ADZ/RDZ450	439.5	569	1642.0	1393.0	175	373	
	ADZ/RDZ400	499.5	507	1813.0	1593.0	175	345	
39CBFI1317	ADZ/RDZ450	394.5	569	1842.0	1593.0	175	373	
	ADZ/RDZ450	444.5	569	1942.0	1693.0	175	373	
39CBFI1418	ADZ/RDZ500	425.5	638	1963.0	1693.0	175	395	
	ADZ/RDZ500	525.5	638	1963.0	1693.0	175	395	
39CBFI1420	ADZ/RDZ560	516.5	715	2054.0	1753.0	175	426	
	ADZ/RDZ560	516.5	715	2254.0	1953.0	175	426	
39CBFI1621	ADZ/RDZ630	430.5	801	2296.0	1953.0	175	469	

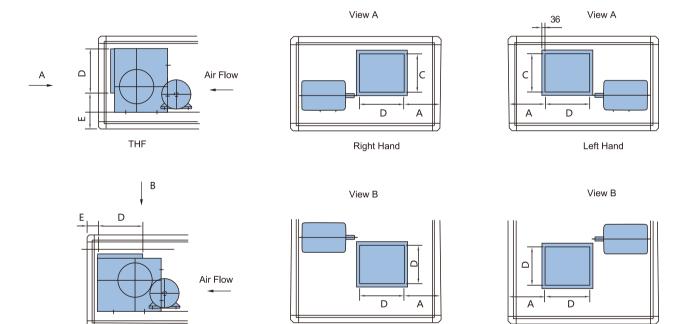
A (39CBF)=A(39CBFI)+5mm, Value D is same \circ For type BHF and THF, E(39CBF)=E(39CBFI)+ 10mm; For UBF and UBR, E(39CBF)=E(39CBFI)+ 5mm

Note: the datas in table are just for your reference

Fan & Motor (2532~4750)

Unit Size	Fan Model	Max. Motor Power	Max. Motor Model	Fan Section Length		
Offit Size	ran wodel	(kW)	Iviax, iviolor iviouer	THF	UBF	
39CBFI/CBF2532	KHF900	45	Y225	2600/2610	2600/2610	
390DFI/0DF2332	KHF1000	55	Y250	2600/2610	2600/2610	
39CBFLCBF2832	KHF1000	55	Y250	2600/2610	2600/2610	
39CBFI CBF2832	KHF1120	90	Y280	2800/2810	2800/2810	
39CBFI/CBF3132	KHF1000	55	Y250	2600/2610	2600/2610	
	KHF1120	90	Y280	2800/2810	2800/2810	
39CBFI/CBF3438	KHF1250	90	Y280	2900/2910	2900/2910	
39CBFI/CBF3841	KHF1250	90	Y280	2900/2910	2900/2910	
390DFI/0BF3841	KHF1400	132	Y315	3700/3710	4100/4110	
39CBFI/CBF4444	KHF1400	132	Y315	3700/3710	4100/4110	
39CBFI/CBF4750	KHF1600	132	Y315	4000/4010	4400/4410	

Fan Arrangement - Horizontal Unit (2532~4750)



(mm)

Left Hand

11-70	Fan Model A		D	E		
Unit Size	Fan Model	Α	D	THF	UBF	
39CBFI/CBF 2532	KHF900	940	1130	830/840	284	
39CBI /CBI 2332	KHF1000	788.5	1267	872.5/882.5	195	
39CBFI/CBF 2832	KHF1000	788.5	1267	872.5/882.5	195	
39CBFI/CBF 2632	KHF1120	561	1422	983/993	200	
39CBFI/CBF 3132	KHF1000	788.5	1267	872.5/882.5	195	
	KHF1120	561	1422	983/993	200	
39CBFI/CBF 3438	KHF1250	1043	1524	1152/1162	104	
39CBFI/CBF 3841	KHF1250	1343	1524	1152/1162	104	
39CBFI/CBF 3641	KHF1400	1208	1794	1204/1214	150	
39CBFI/CBF 4444	KHF1400	1358	1794	1204/1214	150	
39CBFI/CBF 4750	KHF1600	1545	2020	1343/1353	150	

Right Hand

Note: the datas in table are just for your reference

UBF



Carrier improves the world around us; Carrier improves people's lives; our products and services improve building performance; our culture of improvement will not allow us to rest when it comes to the environment.





Version:	CAT_39CBFI/CBF_E-1204_01_CHK
Supersede:	E-39CBFI/39CBF-1106-01
Effective Date:	Apr, 2012