

## VERTICAL FAN COIL UNIT (VFCU) CERTIFIED DRAWING

DWG. NO.

REV. -

PROJECT	DATE	BY	REVISIONS			
PURCHASER	P.O. #	QTY	DATE	BY	DESCRIPTION	
ARCHITECT	SHIPPING DATES					
ENGINEER						
HVAC CONTR.						
GEN. CONTR.						

DESIGNATION	MODEL NUMBER	QTY	MOTORIZED VALVE		PIPING	
			YES	NO	LEFT	RIGHT
<b>TOTAL</b>						

### UNIT SPECIFICATIONS+

MODEL	5FCV_02	5FCV_03	5FCV_04	5FCV_06	5FCV_08	5FCV_10	5FCV_12	
AIR FLOW (CFM)	HIGH	180	260	400	580	870	920	
	MED	130	200	270	460	710	770	
	LOW	100	160	220	330	550	640	
COOLING CAPACITY (BTU)	HIGH	4900	7000	11900	15300	23400	25400	
	MED	4400	6400	9800	13600	22000	23200	
	LOW	3900	5700	8500	11700	19500	21300	
HEATING CAPACITY (BTU)	HIGH	8300	11600	19600	26700	38500	41300	
	MED	7100	9900	15000	22800	34400	36000	
	LOW	6100	8200	12200	17700	29800	31600	
FAN	TYPE	DOUBLE INLET FORWARD CURVED						
	NUMBER	1	2	2	2	3	4	4
MOTOR	VOLTAGE/Hz	115V/60Hz						
COIL	TYPE	ALUMINUM FIN AND COPPER TUBE						
PIPING CONNECTIONS (IN)	Inlet/Outlet	1/2						
	Condensate	5/8						
SOUND LEVEL (DBA)	HIGH	33	36	37	44	44	47	49
	MED	27	28	29	38	39	42	45
	LOW	22	24	24	30	32	32	34
DIMENSIONS (IN)	Width Concealed "C"	25 1/2	25 1/2	33 1/4	37 1/4	48 3/4		60 3/4
	Width Exposed "E"	41	45	51	61	63	77	85
	Height	25						
	Depth	9 1/4						

#### GENERAL NOTES:

- 1: ENCLOSURE FOR EXPOSED UNITS TO BE FURNITURE TYPE PAINT-GRIP STEEL
- 2: UNITS PROVIDED TO BE HARDWIRED
- 3: PIPING SIDE BREAKDOWN TO BE PROVIDED BY MECHANICAL CONTRACTOR
- 4: SEE ACCOMPANYING DRAWINGS FOR UNIT CONFIGURATION
- 5: STANDARD ENCLOSURE COLOR FOR EXPOSED UNITS TO BE "ANTIQUE WHITE"

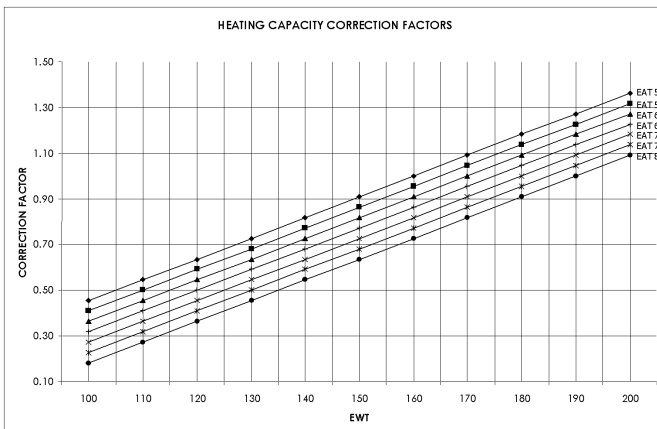
#### CUSTOM NOTES:

1:

#### SPECIFICATION NOTES:

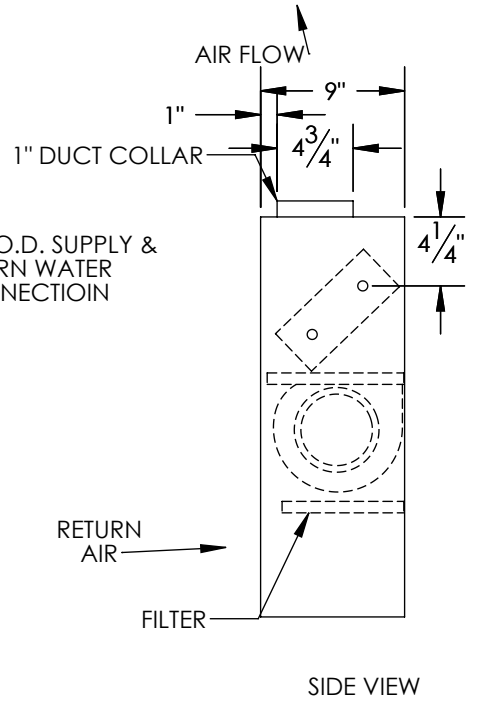
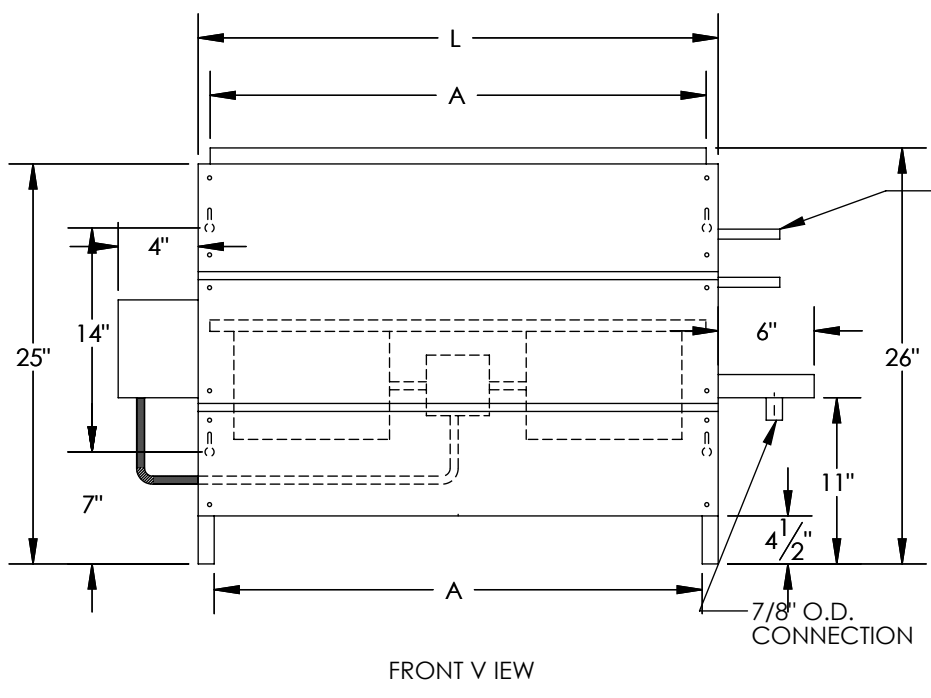
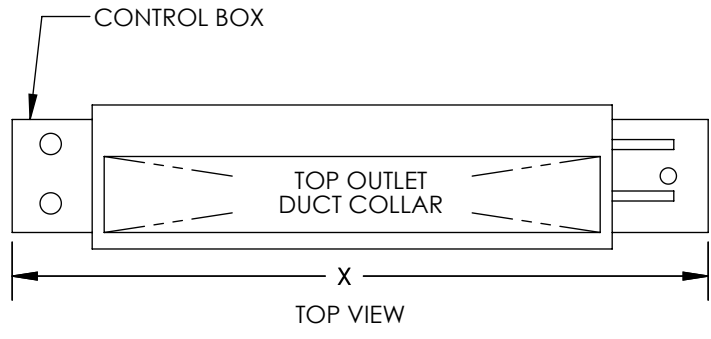
- 1: COOLING: 80F DB, 67F WB, 45F ENTERING WATER, 10F TEMPERATURE DIFFERENTIAL
- 2: HEATING: 70F DB, 180F ENTERING WATER

### PERFORMANCE DATA



#### COIL Cv FACTORS

UNIT SIZE	1 ROW	2 ROWS	3 ROWS
02	2.1	1.4	1.1
03	1.9	1.3	1.0
04	1.8	1.2	0.9
06	1.5	2.8	2.4
08	1.4	2.6	2.2
10	1.3	2.4	3.3
12	1.2	2.2	3.2



**Ice-Air Vertical Concealed Unit**

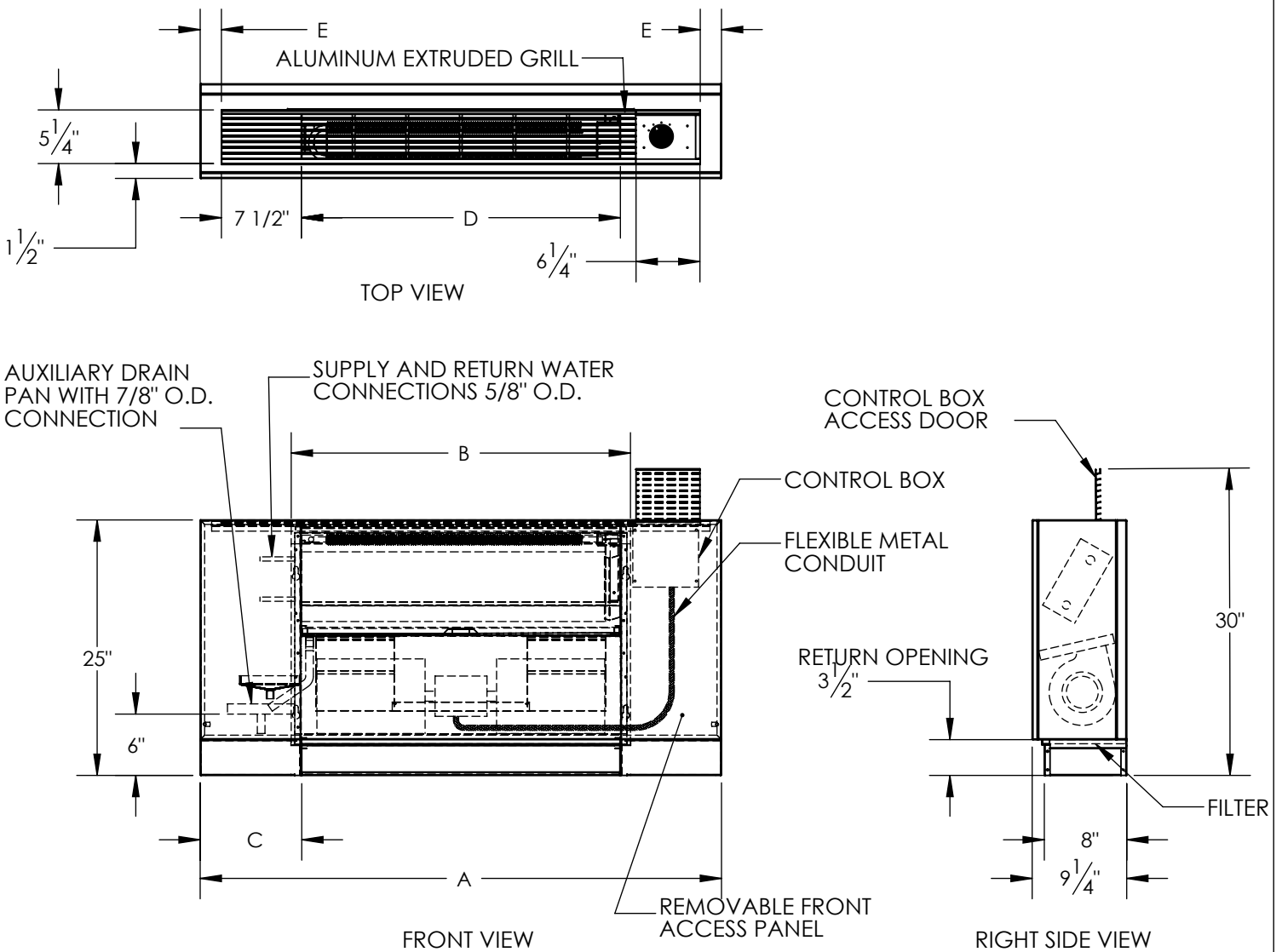
Model	FCVC02	FCVC03	FCVC04	FCVC06	FCVC08	FCVC10	FCVC12
Dimensions	L	19"	19"	29"	33"	48 3/4	48 3/4
	A	17 1/2	17 1/2	27 1/2	31 1/2	47 1/4	47 1/4
							56 1/2
							55"

- NOTES.
1. COIL CONNECTIONS ARE ALWAYS ON THE SIDE OPPOSITE THE CONTROL BOX.
  2. ALL DUCT COLLAR DIMENSIONS ARE TO THE OUTSIDE OF THE COLLAR.
  3. COIL CONNECTIONS ARE 5/8" O.D. SWEAT.
  4. ALL DIMENSIONS ARE ± 1/4"

MATERIAL:	<b>ICE-AIR LLC.</b> 80 HARTFORD AVENUE MOUNT VERNON, NY 10553		
WEIGHT (LBS):			
FINISH:	TITLE: VERTICAL CONCEALED FAN COIL UNIT		
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± ° BEND ± 1° TWO PLACE DECIMAL ± .03 THREE PLACE DECIMAL ± .015	MODEL BY:	DATE:	DWG. NO.
	DRAWING BY:	DATE:	
SIZE <b>A</b>	SCALE: NONE DO NOT SCALE DRAWING	SHEET 2 OF 3	REV

Third Angle Projection

THIS DRAWING IS THE INTELLECTUAL PROPERTY OF ICE-AIR, LLC AND CONSISTS OF CONFIDENTIAL DATA BELONGING SOLELY TO ICE-AIR. THE SHARING OF THIS DATA WITH YOU DOES NOT CONSTITUTE A LICENSE TO SHARE THIS DATA WITH ANY THIRD PARTY, WHICH IS STRICTLY PROHIBITED WITHOUT ICE-AIR'S PRIOR WRITTEN CONSENT.



Ice-Air Vertical Exposed Unit								
Model	FCVE02	FCVE03	FCVE04	FCVE06	FCVE08	FCVE10	FCVE12	
Dimension	A	41	45	51	61	63	77	85
	B	25 1/2	25 1/2	33 1/4	37 1/4	48 7/8	48 7/8	60 5/8
	C	8 7/8	10 7/8	10	13	8	15	13 1/4
	D	23 1/2	23 1/2	31 1/4	35 1/4	47	47	58 1/2
	E	1	3	2	5	1/4	7 1/4	5 3/8

**NOTES.**

1. ALL DIMENSIONS ARE  $\pm 1/4"$
2. RH SHOWN, LH OPPOSITE.
3. DRAWING IS PROVIDED FOR REFERENCE ONLY. PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

MATERIAL:	<b>ICE-AIR LLC.</b> 80 HARTFORD AVENUE MOUNT VERNON, NY 10553		
WEIGHT (LBS):			
FINISH: N/A	TITLE: VERTICAL EXPOSED FAN COIL UNIT		
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/32$ ANGULAR: MACH $\pm$ ° BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .03$ THREE PLACE DECIMAL $\pm .015$	MODEL BY: VP	DATE: 01/12/09	DWG. NO.
	DRAWING BY:	DATE:	
SIZE <b>A</b>	SCALE: NONE DO NOT SCALE DRAWING	SHEET 3 OF 3	REV

Cooling Capacity										
Unit	GPM	80F DB/67F WB								
		40F EWT			45F EWT			50F EWT		
		dT	Total	Sensible	dT	Total	Sensible	dT	Total	Sensible
02	1	12.5	6.3	4.8	10.5	5.3	4.3	8.6	4.4	3.9
	1.5	9.8	7.6	5.2	8.2	6.3	4.7	6.6	5.0	4.2
	2	8.1	8.3	5.5	6.7	6.8	4.9	5.3	5.4	4.4
	2.5	6.8	8.7	5.7	5.6	7.1	5.1	4.5	5.7	4.5
03	1	15.6	7.6	6.0	13.2	6.4	5.5	11	5.3	5.0
	1.5	12.5	9.1	6.7	10.5	7.7	6.1	8.5	6.2	5.4
	2	10.5	10.2	7.1	8.7	8.5	6.4	6.9	6.8	5.7
	3	7.8	11.4	7.6	6.4	9.4	6.8	5.1	7.4	6.0
04	1	18.4	9.8	8.1	15.7	8.3	7.4	13.2	7.0	6.7
	1.5	15	11.9	9.1	12.6	10.0	8.3	10.3	8.2	7.5
	2	12.7	13.5	9.8	10.5	11.2	8.8	8.5	9.0	7.9
	3	9.6	15.4	10.5	8	12.8	9.5	6.3	10.1	8.4
	3.5	8.6	16.0	10.8	7.1	13.3	9.7	5.6	10.4	8.6
06	1.5	17.6	14.5	12.2	15.4	12.7	11.2	13.2	10.9	10.1
	2	15.3	16.8	13.3	13.1	14.4	12.3	11.1	12.2	11.1
	3	12.2	20.1	14.7	10.3	17.0	13.4	9.4	14.0	12.2
	4	10.2	22.3	15.7	8.5	18.7	14.2	6.8	15.0	12.7
	5	8.7	23.9	16.3	7.2	19.8	14.6	5.7	15.7	13.1
08	2	18.3	23.1	19.0	15.9	20.1	17.6	13.6	17.2	15.8
	3	14.7	28.0	21.2	12.5	23.8	19.5	10.4	19.9	17.7
	4	12.4	31.2	22.6	10.4	26.3	20.6	8.5	21.4	18.6
	6	9.3	35.4	24.4	7.8	29.5	22.0	6.2	23.5	19.6
10	8	.	.	.	.	.	.	.	.	.
	3	15.5	26.8	22.1	13.6	23.6	20.6	11.7	20.3	18.6
	4	13.5	31.1	24.1	11.6	26.7	22.2	9.8	22.6	20.2
	5	11.9	34.3	25.4	10.1	29.2	23.3	8.4	24.2	21.2
	6	10.6	36.8	26.6	9	31.2	24.2	7.4	25.6	21.9
	8	8.8	40.8	28.2	7.4	34.3	25.5	6	27.5	22.9
12	3	17.4	29.2	24.5	15.4	25.7	22.6	13.3	22.3	20.4
	4	15.2	33.9	26.7	13.2	29.3	24.8	11.2	25.1	22.4
	5	13.4	37.4	28.3	11.5	32.1	26.1	9.7	27.0	23.7
	6	12.1	40.4	29.6	10.3	34.3	27.2	8.5	28.4	24.5
	8	10.1	44.9	31.5	8.5	37.9	28.6	6.9	30.6	25.7

All capacities are given in 1000 BTU/h

**Air Flow Correction Factors**

CFM	Unit Size													
	02		03		04		06		08		10		12	
	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible
100	0.62	0.57	.	.	.	.	.	.	.	.	.	.	.	.
125	0.72	0.69	0.54	0.48	0.44	0.39	.	.	.	.	.	.	.	.
150	0.82	0.80	0.62	0.57	0.51	0.45	.	.	.	.	.	.	.	.
175	0.92	0.91	0.69	0.65	0.57	0.50	.	.	.	.	.	.	.	.
200	1.00	1.00	0.76	0.73	0.62	0.57	0.46	0.41	.	.	.	.	.	.
225	1.08	1.08	0.82	0.80	0.67	0.63	0.51	0.45	.	.	.	.	.	.
250	1.16	1.18	0.89	0.87	0.72	0.69	0.55	0.49	.	.	.	.	.	.
275	.	.	0.95	0.94	0.77	0.74	0.58	0.53	0.47	0.42	.	.	.	.
300	.	.	1.00	1.00	0.82	0.80	0.62	0.57	0.51	0.45	0.43	0.38	.	.
350	.	.	1.11	1.12	0.92	0.91	0.69	0.65	0.57	0.50	0.48	0.46	.	.
400	.	.	.	.	1.00	1.00	0.76	0.73	0.62	0.57	0.53	0.47	0.46	0.41
450	.	.	.	.	1.08	1.08	0.82	0.80	0.67	0.63	0.58	0.52	0.51	0.45
500	.	.	.	.	1.16	1.18	0.89	0.87	0.72	0.69	0.62	0.57	0.55	0.47
550	.	.	.	.	.	.	0.95	0.94	0.77	0.74	0.66	0.62	0.58	0.53
600	.	.	.	.	.	.	1.00	1.00	0.82	0.80	0.70	0.67	0.62	0.57
700	.	.	.	.	.	.	1.11	1.12	0.92	0.91	0.78	0.76	0.69	0.65
800	.	.	.	.	.	.	.	.	1.00	1.00	0.86	0.85	0.76	0.73
900	.	.	.	.	.	.	.	.	1.08	1.08	0.94	0.93	0.82	0.80
1000	.	.	.	.	.	.	.	.	1.16	1.18	1.00	1.00	0.89	0.87
1200	.	.	.	.	.	.	.	.	.	.	1.13	1.14	1.00	1.00
1400	.	.	.	.	.	.	.	.	.	.	.	.	1.11	1.12