

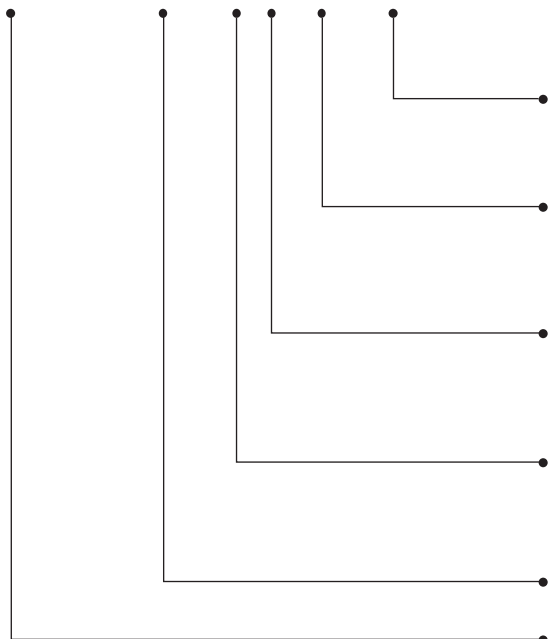
# CFCVU-AECM



The slim, space-saving CFCVU unit is designed specifically for under-ceiling mounting or vertical mounting. This flexibility allows the unit to be customized to meet a variety of job requirements.

- » Cabinet depth is 5 1/8" on all models
- » Performance in accordance to Standard AHRI440
- » Sound Performance tested as per AHRI Standard 350-2000 (non-ducted equipment)
- » ETL-Listed, Constructed in compliance with ANSI/UL 1995 Standard
- » High-efficiency Variable speed EC motor available for higher energy efficiency
- » Completed controller with VAV & VWV control logic
- » Merv 4 class filter as standard
- » RAL9010 powered coat cabinet
- » 2-way /3-way modulating valve kit with Isolation ball valves & strainer is optional
- » 6-way valve is optional

## CFCVU - 01 - V X - S - AECM



AECM	EC motor configuration
S	Complete controller with VAV&VWV control logic
W	EC motor driver suitable for connection to AC or EC modulating thermostat
X	220V/1P/60Hz EC motor
Y	115V/1P/60Hz EC motor
P	Chilled/Hot Water, 4-Pipe
V	Chilled/Hot Water, 2-Pipe
VEH	Chilled Water, 2-Pipe with Electric Heater
01~05	Unit Sizes
CFCVU	Horizontal or Vertical Ultra Thin

# Technical Data

## CFCVU-V-AECM



Ultra Thin Console Unit 2-pipe with EC Motor

CFCVU-[Size]-V~AECM				01	02	03	04	05	
<b>Unit Configuration</b>		Configuration		2-pipe					
		Number Of Fan Blowers		1			2		
		Power Supply	(V/Ph/Hz)	115/1/60 or 220/1/60					
		Operation Control		~S: Complete controller with VAV&VWV control logic ~W: EC motor driver suitable for connection to AC or EC modulating thermostat					
<b>Performance Data</b>	Air	Air Flow	H	CFM	108	176	247	308	347
			M		86	135	196	242	265
			L		54	84	134	198	231
	Cooling	Cooling Capacity	H	BTU/Hr	3249	5552	7992	9880	11480
			M		2718	4535	6738	8243	9379
			L		1898	3103	5010	7094	8452
		Sensible Cooling Capacity	H		2227	3738	5328	6618	7635
			M		1839	3015	4439	5455	6159
			L		1257	2018	3244	4672	5532
	Heating	Heating Capacity	H	BTU/Hr	5051	8630	12424	15358	17846
			M		4225	7051	10474	12815	14580
			L		2951	4824	7789	11028	13139
		Max. Electric Heater Capacity @ 220V	kW		0.75	1	1.5		
	Sound	Sound Pressure Level		dB(A)	39/33/28	43/37/31	45/41/34	47/41/35	49/45/38
		Sound Power Level			48/42/37	52/46/40	54/50/43	56/50/44	58/54/47
	Electrical	Fan Motor Power	H	W	14	17	22	22	24
			M		10	12	15	14	16.3
			L		6	8	9	10	11
	Hydraulic	Cooling Water Flow Rate	H	GPM	0.64	1.1	1.58	1.95	2.27
			M		0.54	0.9	1.33	1.63	1.85
			L		0.37	0.61	0.99	1.4	1.67
		Cooling Pressure Drop	H	ft.wg.	1.0	3.2	7.4	4.2	6.3
			M		0.7	2.3	5.5	3.1	4.5
			L		0.4	1.2	3.3	2.4	3.8
Hot Water Flow Rate		H	GPM	0.64	1.1	1.58	1.95	2.27	
		M		0.54	0.9	1.33	1.63	1.85	
		L		0.37	0.61	0.99	1.4	1.67	
Hot Water Pressure Drop		H	ft.wg.	0.7	2.4	5.4	3.1	4.7	
		M		0.5	1.7	4.1	2.3	3.3	
		L		0.3	0.9	2.5	1.8	2.8	
Water Content		US gal	0.116	0.193	0.272	0.349	0.425		
<b>Construction and Packing Data</b>	Water	Type		Socket (Female Threaded)					
		In	Inch	NPT 3/4"					
	Out	5/8"							
	Condensate Drainage Connection		5/8"						
	Dimensions	L	Inch	29 1/8	37	44 7/8	52 3/4	60 5/8	
		W		5 1/8					
H		22 13/16							
Net Weight		Lbs	41.9	48.5	55.2	61.8	68.4		

a. Cooling mode (2-pipe):

~Return air temperature: 80F DB/ 67F WB.

~Inlet/ outlet water temperature: 45F/ 55F.

b. Heating mode (2-pipe):

~ Return air temperature: 70F.

~ Inlet water temperature: 140F

~ Water flow same to cooling mode

# Technical Data

## CFCVU-P-ECM



Ultra Thin Console Unit 4-pipe with EC Motor

CFCVU-[Size]-P~-AECM				01	02	03	04	05			
<b>Unit Configuration</b>				Configuration		4-pipe					
				Number Of Fan Blowers		1		2			
				Power Supply	(V/Ph/Hz)	115/1/60 or 220/1/60					
				Operation Control		~S: Complete controller with VAV&VWV control logic ~W: EC motor driver suitable for connection to AC or EC modulating thermostat					
<b>Performance Data</b>	Air	Air Flow	H	CFM	108	176	247	308	347		
			M		86	135	196	242	265		
			L		54	84	134	198	231		
	Cooling	Total Cooling Capacity	H	BTU/Hr	3228	5400	7685	9607	11143		
			M		2700	4411	6479	8016	9103		
			L		1886	3018	4818	6898	8204		
		Sensible Cooling Capacity	H		2182	3588	5124	6410	7415		
			M		1802	2894	4269	5284	5982		
			L		1231	1937	3119	4525	5373		
	Heating	Heating Capacity	H	BTU/Hr	4123	6746	9522	11836	13722		
			M		3422	5496	7968	9878	11115		
			L		2383	3801	5937	8440	9963		
	Sound	Sound Pressure Level		dB(A)	39/33/28	43/37/31	45/41/34	47/41/35	49/45/48		
		Sound Power Level			48/42/37	52/46/40	54/50/43	56/50/44	58/54/57		
	Electrical	Fan Motor Power	H	W	14	17	22	22	24		
			M		10	12	15	14	16.3		
			L		6	8	9	10	11		
	Hydraulic	Cooling Water Flow Rate	H	GPM	0.64	1.07	1.52	1.9	2.2		
			M		0.53	0.87	1.28	1.58	1.8		
			L		0.37	0.6	0.95	1.36	1.62		
Cooling Pressure Drop		H	Ft.wg.	2.5	8.1	6.2	5	7.6			
		M		1.9	5.8	4.7	3.7	5.4			
		L		1	3	2.8	2.9	4.5			
Hot Water Flow Rate		H	GPM	0.21	0.34	0.47	0.59	0.68			
		M		0.17	0.27	0.4	0.49	0.55			
		L		0.12	0.19	0.3	0.42	0.5			
Heating Pressure Drop		H	Ft.wg.	0.9	3	7.1	1.8	2.7			
	M	0.7		2.1	5.2	1.3	1.9				
	L	0.4		1.1	3.2	1	1.6				
Chilled Water Content		US gal	0.06	0.1	0.14	0.18	0.22				
Hot Water Content			0.03	0.05	0.07	0.09	0.11				
<b>Construction and Packing Data</b>				Water Connection		Socket (Female Threaded)					
				Chilled Water	In	Inch	NPT: 1/2"				
					Out						
				Hot water	In						
					Out						
				Condensate Drainage Connection		5/8"					
				Dimensions	L	Inch	29 1/8	37	44 7/8	52 3/4	60 5/8
W	5 1/8										
H	22 13/16										
Net Weight		Lbs	41.9	48.5	55.2	61.8	68.4				

a. Cooling mode (4-pipe):

~Return air temperature: 80F DB/ 67F WB.

~Inlet/ outlet water temperature: 45F/ 55F.

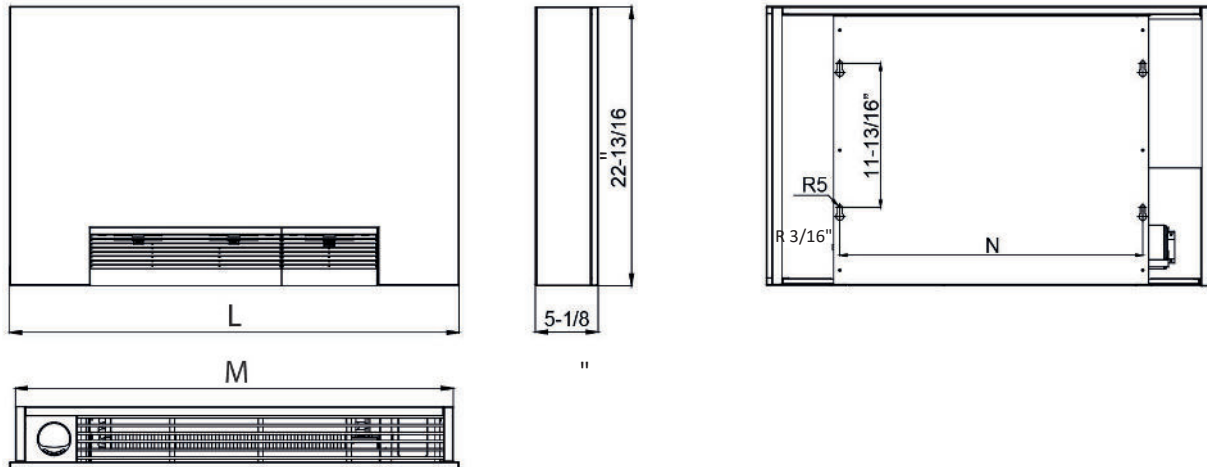
b. Heating mode (4-pipe):

~ Return air temperature: 70F.

~ Inlet/Outlet water temperature: 180F/140F

# Technical Data


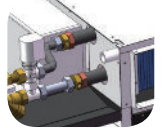
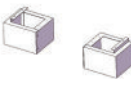
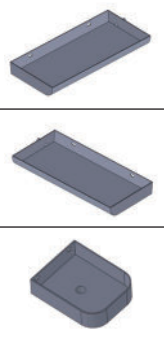
## Dimensional drawings



MODEL	CFCVU-01	CFCVU-02	CFCVU-03	CFCVU-04	CFCVU-05
L	29 1/8"	37"	44 7/8"	52 3/4"	60 5/8"
M	28 3/16"	36 1/16"	43 15/16"	51 13/16"	59 11/16"
N	17 1/16"	24 15/16"	32 13/16"	40 11/16"	48 9/16"

(All dimensions are approximate within 1/16 of an inch of those indicated)

## Accessories / Options

Accessories	Photo	Code	Description
E-heater kits		BCP18-EH-CFCVU-PTC-00	0.75 KW 220Vac electric heater kit
		BCP18-EH-CFCVU-PTC-01	1.0 KW 220Vac electric heater kit
		BCP18-EH-CFCVU-PTC-02	1.5 KW 220Vac electric heater kit
Valve kits		BCP18-RCS-VALVE-CFCVU-001	115~240VAC 3/4" 2-way on/off thermal valve kit
		BCP18-RCS-VALVE-CFCVU-002	115~240VAC 3/4" 3-way on/off thermal valve kit
		BCP18-RCS-VALVE-CFCVU-003	24VAC 3/4" Modulating 2-way thermal valve kit
		BCP18-RCS-VALVE-CFCVU-004	24VAC 3/4" Modulating 3-way thermal valve kit
Metal feet		BCP-CFCVU-001	metal supporting feet for floor standing applications
External Drain Pans		BCP-CFCVU-002	Painted steel drain pan for suspended ceiling installation or built-in horizontal installation with right-sided coil connections
		BCP-CFCVU-003	Painted steel drain pan for suspended ceiling installation or built-in horizontal installation with left-sided coil connections
		BCP-CFCVU-004	Painted steel drain pan for floor standing installation, fixed wall installation and built-in vertical installations. Suitable for left-side and right-side unit coil connections.





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