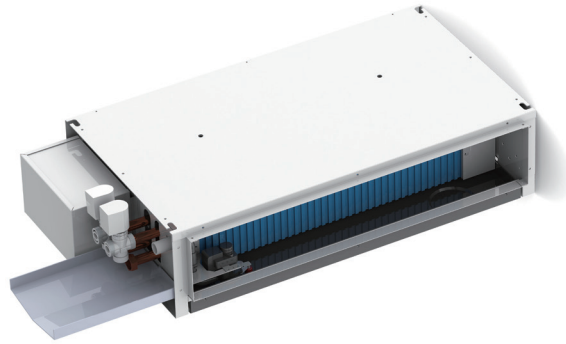


MFCHU-AECM



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

- » Performance in accordance to Standard AHRI 440;
- » 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 ECM motor available for higher energy efficiency;
- » Completed controller with VAV & VWV control logic;
- » Drainage condensate water pump with 28 inch head;
- » Merv 8 class filter & External drain pan as standard;
- » Plenum is field reversible for either rear or bottom return without the need for special adapters and tools;
- » Special grade GI steel with Al + Zn coating known as 'Galvalume';
- » 2-way / 3-way modulating valve kit with Isolation ball valves & strainer as optional;
- » 6-way valve as optional;

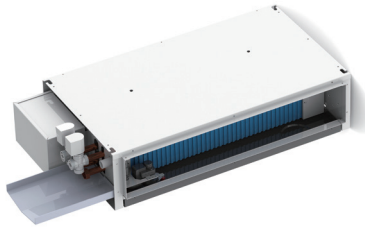
MFCHU(3R) - 400 - V X - S - AECM - L

	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
	400~800	Unit Sizes
	3R	3R — 2-pipe 3-row 3R+1 — 4-pipe 3-row for cooling and 1 row for heating
	FCHU	Horizontal Ultra Thin with Plenum & filter
	M	Intelligent Fan Coil Unit

Technical Data



MFCHU



MFCHU(3R)-V-AECM

Product range: MFCHU(3R)-VY/VX~AECM Horizontal Ultra Thin Unit 3-Row Coil 2-Pipe with EC motor

M FCHU(3R)-[Size]-V-AECM						400	600	800	
Unit Configuration		Configuration				2-pipe			
		Number Of Fan Blowers				2	3	4	
		Power Supply		(V/Ph/Hz)	115/ 1 / 60 or220/ 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									
Performance Data	Air	Air Flow	H	3	CFM	351	539	726	
			M	2		254	379	506	
			L	1		101	155	225	
		ESP	H	3	in.wg	0.05	0.05	0.05	
			M	2					
			L	1					
	Cooling	Cooling Capacity	H	3	BTU/Hr	10150	16124	21426	
			M	2		7807	12174	16178	
			L	1		3667	5921	8407	
		Sensible Cooling Capacity	H	3		6812	10778	14340	
			M	2		5186	8045	10704	
			L	1		2425	3900	5559	
	Heating	Heating Capacity	H	3	BTU/Hr	15779	25066	33308	
			M	2		12137	18926	25149	
			L	1		5701	9205	13069	
		Max. Electric Heater Capacity				1.5	2	3	
	Sound	Sound Pressure Level (Outlet)				dB(A)	43/37/22	45/40/25	46/41/26
		Sound Pressure Level(Inlet + Radiated)					46/40/25	48/43/28	49/44/29
		Sound Power Level (Outlet)					52/46/31	54/49/34	55/50/35
		Sound Power Level(Inlet + Radiated)					55/49/34	57/52/37	58/53/38
	Electrical	Fan Motor Power	H	3	W	42	70	84	
			M	2		23	40	43	
			L	1		11	15	17	
	Hydraulic	Cooling Water Flow Rate			3	GPM	2.0	3.2	4.2
					2		1.5	2.4	3.2
					1		0.7	1.2	1.7
		Cooling Pressure Drop			3	ft WG	9.62	10.31	9.58
					2		6	6.22	5.78
					1		1.54	1.7	1.78
		Heating Water Flow Rate			3	GPM	2.0	3.2	4.2
					2		1.5	2.4	3.2
					1		0.7	1.2	1.7
		Heating Pressure Drop			3	ft WG	8.66	9.28	8.62
					2		5.4	5.6	5.2
					1		1.39	1.53	1.6
		Water Content				US gal	0.208	0.35	0.475
Construction and Packing Data		WaterConnections		Type		Socket(Threaded Female)			
				in	3/4"				
					1"				
		Condensate Drainage Connection			1"				
		Dimensions		L	inch	35-7/8"	53"	66-1/8"	
				W		20"			
				H		7 7/8"			
Net Weight				lbs	44	62	77		

Testing conditions:

a. Cooling mode :

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

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

b. Heating mode :

~ Return air temperature: 70F.

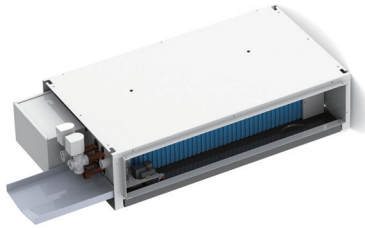
~ Inlet water temperature: 140F

~ Water flow same to cooling mode

Technical Data



MFCHU



MFCHU(3R+1)-P-AECM

Product range:MFCHU(3R+1)-VY/VX~AECM Horizontal Ultra Thin Unit 3-Row cooling coil and 1-Row heating coil 4-Pipe with EC motor

MFCHU(3R+1)-[Size]-P-AECM						400	600	800
Unit Configuration		Configuration				4-pipe		
		Number Of Fan Blowers				2	3	4
		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		
Performance Data	Air	Air Flow	H	3	CFM	364	553	735
			M	2		266	397	523
			L	1		103	143	181
		ESP	H	3	in.wg	0.05	0.05	0.05
			M	2				
			L	1				
	Cooling	Cooling Capacity	H	3	BTU/Hr	10435	16420	21819
			M	2		8120	12663	16610
			L	1		3797	5516	7061
		Sensible Cooling Capacity	H	3		7017	10990	14622
			M	2		5411	8393	11018
			L	1		2515	3623	4635
	Heating	Heating Capacity	H	3	BTU/Hr	9716	15205	20342
			M	2		7561	11726	15486
			L	1		3536	5108	6583
		Max. Electric Heater Capacity				1.5	2	3
	Sound	Sound Pressure Level (Outlet)			dB(A)	43/37/22	45/40/25	46/41/26
		Sound Pressure Level(Inlet + Radiated)				46/40/25	48/43/28	49/44/29
		Sound Power Level (Outlet)				52/46/31	54/49/34	55/50/35
		Sound Power Level(Inlet + Radiated)				55/49/34	57/52/37	58/53/38
	Electrical	Fan Motor Power	H	3	W	42	70	84
			M	2		23	40	43
			L	1		11	15	17
	Hydraulic	Cooling Water Flow Rate			GPM	2.1	3.2	4.3
						1.6	2.5	3.3
						0.8	1.1	1.4
						10.11	10.66	9.9
		Cooling Pressure Drop			ft WG	6.44	6.68	6.06
						1.64	1.5	1.3
						0.5	0.8	1.0
						0.4	0.6	0.8
		Heating Water Flow Rate			GPM	0.2	0.3	0.3
						1.23	0.58	1.23
						0.78	0.37	0.75
						0.2	0.08	0.16
		Heating Pressure Drop			ft. wg	0.208	0.35	0.475
						0.069	0.117	0.158
Construction and Packing Data	Water Connections		Type		Socket(Threaded Female)			
			In	in	3/4"			
	Out	1"						
	Condensate Drainage Connection			35-7/8"			53"	66-1/8"
	Dimensions		L	inch	20"			
			W		7 7/8			
			H					
Net Weight			lbs	44	62	77		

Testing conditions:

a. Cooling mode :

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

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

b. Heating mode:

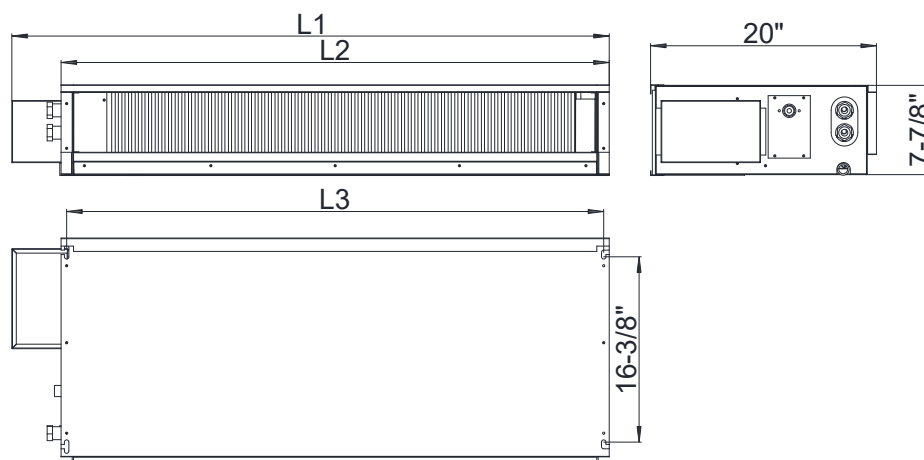
~ Return air temperature: 70F.

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

Technical Data



Dimensional drawings



Model	400	600	800
L	35-7/8"	53"	66-1/8"
L1	31-1/2"	48-5/8"	61-7/8"
L2	30-1/2"	47-5/8"	60-7/8"

All dimensions are approximate and within 1/16 of an inch of those indicated.

Accessories (Optional Parts)

Accessories	Photo	Code	Description
1. Drain pan		BCP-SSDP-MFCHU-001	Stainless steel drain-pan for MFCHU-400
		BCP-SSDP-MFCHU-002	Stainless steel drain-pan for MFCHU-600
		BCP-SSDP-MFCHU-003	Stainless steel drain-pan for MFCHU-800
2. E-heater kit		BCP-EH-220-MFCHU-PTC-001	Electrical heater module maximum 1.5kw 220V for MFCHU-400
		BCP-EH-220-MFCHU-PTC-002	Electrical heater module maximum 2kw 220V for MFCHU-600
		BCP-EH-220-MFCHU-PTC-003	Electrical heater module maximum 3kw 220V for MFCHU-800
3. Valve kit		BCP25-RCS-VALVE-MFCHU-001B	24VAC 3/4" 2-way thermal valve kit
		BCP25-RCS-VALVE-MFCHU-002B	24VAC 3/4" 3-way thermal valve kit
		BCP25-RCS-VALVE-MFCHU-003	24VAC 3/4" Modulating 2-way thermal valve kit
4.Round plenum		BCP-Round-MFCHU-001	Discharge/Return Round plenum for MFCHU-400
		BCP-Round-MFCHU-002	Discharge/Return Round plenum for MFCHU-600
		BCP-Round-MFCHU-003	Discharge/Return Round plenum for MFCHU-800





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