

MFCHD-AECM



MFCHD units are air-treatment fan coil units ideal for installations where ducted air distribution is necessary. The units are designed for installation in suspended ceilings or lining walls and are characterized by their compactness and extremely low noise.

- » 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 ECM motor available for higher energy efficiency
- » Completed controller with VAV & VWV control logic;
- » Merv 4 class filter as standard; Merv 8 class filter as optional;
- » Special grade GI steel with Al + Zn coating known as 'Galvalume'
- » 2-way /3-way modulating valve kit with Isolation ball valves & strainer can be pre-installation in factory.
- » 6-way valve as optional;

MFCHD- 1000 - V X - S - AECM

	AECM	EC motor configuration
	S	Complete controller with VAV&VWV control logic
	W	EC motor driver suitable for connection to 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
	1000~2400	Unit Sizes
	MFCHD	High ESP horizontal ceiling concealed unit with Plenum & filter

Technical Data



MFCHD

MFCHD(3R)-V-AECM

Product range: MFCHD(3R)-V~AECM Hydronic Ducted 2-pipe

Unit with 3-row Coil and EC motor

MFCHD(3R)-[Size]-V~-AECM					1000	1200	1600	2000	2400
Unit Configuration		Configuration			2-pipe				
		Number Of Fan Blowers			Twin			Four	
		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 EC modulating thermostat									
Performance Data	Air	Total Air Flow	H	CFM	1195	1399	1693	2111	2564
			M		838	1172	1337	1820	2249
			L		406	616	909	1013	1434
		External Static Pressure	H	in.wg	0.48	0.48	0.48	0.48	0.48
			M		0.48	0.48	0.48	0.48	0.48
			L		0.28	0.28	0.28	0.28	0.28
	Cooling	Cooling Capacity	H	BTU/Hr	30858	36547	45899	56911	69144
			M		23509	32080	38193	51041	62655
			L		13148	19332	28521	32435	44195
		Sensible Cooling Capacity	H		21193	24989	31205	38692	46810
			M		15836	21684	25596	34349	42002
			L		8675	12691	18808	21277	29109
	Heating	Heating Capacity	H	Btu/Hr	47969	56814	71351	88471	107488
			M		36546	49871	59373	79346	97400
			L		20440	30052	44337	50422	68704
		Max. Electric Heater Capacity			kW	4	5	6	6
	Sound	Sound Pressure Level (outlet)		dB(A)	62/59/51	65/63/53	67/64/56	68/66/57	71/69/60
		Sound Pressure Level(Inlet + Radiated)			59/56/48	62/60/50	64/61/53	65/63/54	68/66/57
		Sound Power Level (outlet)			71/68/60	74/72/62	76/73/65	77/75/66	80/78/69
		Sound Power Level(Inlet + Radiated)			68/65/57	71/69/59	73/70/62	74/72/63	77/75/66
	Electrical	Fan Motor Power	H	W	280	360	480	580	700
			M		180	260	350	450	540
			L		60	66	120	130	160
	Hydraulic	Cooling Water Flow Rate	H	GPM	6.09	7.22	9.06	11.24	13.65
			M		4.64	6.34	7.54	10.08	12.37
			L		2.6	3.82	5.63	6.41	8.73
		Cooling Pressure Drop	H	ft.wg	10.73	16.09	14.31	13.48	14.54
			M		6.58	12.72	10.28	11.08	12.18
			L		2.31	5.11	6.08	4.9	6.5
		Heating Pressure Drop	H	ft.wg	9.66	14.48	12.88	12.13	14.14
			M		5.92	11.45	9.25	9.97	11.79
			L		2.08	4.6	5.47	4.41	5.86
		Water content			gal	0.632	0.734	1.014	1.251
Construction and Packing Data		Water Connections	Type		Socket (NPT Threaded)				
			In	inch	NPT3/4"			NPT1"	
		Out	NPT3/4"						
		Condensate Drainage Connection			NPT3/4"				
		Dimensions	L	inch	48 1/4	54 3/16	62 1/16	73 7/8	73 7/8
			W		29 15/16	29 15/16	29 15/16	29 15/16	29 15/16
			H		13 3/4	13 3/4	14 15/16	14 15/16	16 15/16
Net Weight			lbs	99	110	128	143	165	

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



MFCHD

MFCHD(4R)-V-AECM

Product range: MFCHD(4R)-V~AECM Hydronic Ducted 2-pipe
Unit with 4-row Coil and EC motor

MFCHD(4R)-[Size]-V~-AECM					1000	1200	1600	2000	2400
Unit Configurat ion	Configuration				2-pipe				
	Number Of Fan Blowers				Twin			Four	
	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 EC modulating thermostat				
Performance Data	Air	Total Air Flow	H	CFM	1129	1334	1629	2090	2490
			M		750	1098	1265	1705	2164
			L		333	502	813	842	1309
		External Static Pressure	H	in.wg	0.48	0.48	0.48	0.48	0.48
			M		0.48	0.48	0.48	0.48	
			L		0.28	0.28	0.28	0.28	
	Cooling	Cooling Capacity	H	BTU/Hr	34560	41395	52332	66794	77691
			M		25232	35741	43093	57025	70131
			L		13249	19552	30535	33026	47290
		Sensible Cooling Capacity	H		23465	27865	34914	44653	52138
			M		16800	23737	28416	37653	46642
			L		8772	12631	19710	21277	30717
	Heating	Heating Capacity	H	Btu/Hr	53726	64350	81352	103835	120774
			M		39224	55561	66990	88648	109021
			L		20597	30394	47468	51341	73514
		Max. Electric Heater Capacity		kW	4	5	6	6	6
	Sound	Sound Pressure Level (outlet)		dB(A)	62/59/51	65/63/53	67/64/56	68/66/57	71/69/60
		Sound Pressure Level(Inlet + Radiated)			59/56/48	62/60/50	64/61/53	65/63/54	68/66/57
		Sound Power Level (outlet)			71/68/60	74/72/62	76/73/65	77/75/66	80/78/69
		Sound Power Level(Inlet + Radiated)			68/65/57	71/69/59	73/70/62	74/72/63	77/75/66
	Electrical	Fan Motor Power	H	W	280	360	480	580	700
			M		180	260	350	450	540
			L		60	66	120	130	160
	Hydraulic	Cooling Water Flow Rate	H	GPM	6.82	8.17	10.33	13.19	15.34
			M		4.98	7.06	8.51	11.26	13.85
			L		2.62	3.86	6.03	6.52	9.34
		Cooling Pressure Drop	H	ft.wg	7.97	12.13	13.14	14.41	9.69
			M		4.52	9.31	9.26	10.84	8.06
			L		1.42	3.14	4.98	4.06	3.97
		Heating Pressure Drop	H	ft.wg	7.17	10.91	11.83	12.97	8.72
			M		4.07	8.38	8.34	9.76	7.26
			L		1.28	2.83	4.49	3.65	3.57
		Water content			gal	0.843	0.978	1.352	1.668
Construction and Packing Data	Water Connections	Type		Socket (NPT Threaded)					
		In	inch	NPT3/4"			NPT1"		
		Out							
	Condensate Drainage Connection			inch	NPT3/4"				
	Dimensions	L	48 1/4		54 3/16	62 1/16	73 7/8	73 7/8	
		W	29 15/16		29 15/16	29 15/16	29 15/16	29 15/16	
		H	13 3/4	13 3/4	14 15/16	14 15/16	16 15/16		
Net Weight			lbs	99	110	128	143	165	

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



MFCHD

MFCHD(6R)-V-AECM

Product range: MFCHD(6R)-V~AECM Hydronic Ducted 2-pipe
Unit with 6-row Coil and EC motor

MFCHD(6R)-[Size]-V~-AECM					1000	1200	1600	2000	2400	
Unit Configuration		Configuration			2-pipe					
		Number Of Fan Blowers			Twin			Four		
		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 EC modulating thermostat					
Performance Data	Air	Total Air Flow	H	CFM	1020	1224	1564	1881	2341	
			M		604	974	1145	1475	1993	
			L		242	360	693	587	1121	
		External Static Pressure	H	in.wg	0.48	0.48	0.48	0.48	0.48	
			M		0.48	0.48	0.48	0.48	0.48	
			L		0.24	0.24	0.24	0.24	0.24	
	Cooling	Cooling Capacity	H	BTU/Hr	29106	35035	45552	55162	68076	
			M		19461	29464	35483	45545	59743	
			L		9060	13308	23954	21546	38204	
		Sensible Cooling Capacity	H		18547	22301	28862	34978	43012	
			M		12126	18545	22230	28659	37478	
			L		5626	8320	14671	13480	23397	
	Heating	Heating Capacity	H	Btu/Hr	45247	54464	70813	85751	105827	
			M		30253	45803	55161	70802	92873	
			L		14085	20688	37238	33494	59389	
		Max. Electric Heater Capacity		kW		4	5	6	6	6
	Sound	Sound Pressure Level (outlet)			dB(A)	62/59/51	65/63/53	67/64/56	68/66/57	71/69/60
		Sound Pressure Level(Inlet + Radiated)				59/56/48	62/60/50	64/61/53	65/63/54	68/66/57
		Sound Power Level (outlet)				71/68/60	74/72/62	76/73/65	77/75/66	80/78/69
		Sound Power Level(Inlet + Radiated)				68/65/57	71/69/59	73/70/62	74/72/63	77/75/66
	Electrical	Fan Motor Power	H	W	280	360	480	580	700	
			M		180	260	350	450	540	
			L		60	66	120	130	160	
	Hydraulic	Cooling Water Flow Rate	H	GPM	3.88	4.67	6.07	7.35	9.07	
			M		2.59	3.93	4.73	6.07	7.96	
			L		1.21	1.77	3.19	2.87	5.09	
		Cooling Pressure Drop	H	ft.wg	9.41	14.46	13.72	12.3	20.35	
			M		4.56	10.59	8.75	8.72	16.09	
			L		1.15	2.53	4.32	2.27	7.2	
		Heating Pressure Drop	H	ft.wg	8.47	13.02	12.35	11.07	18.32	
			M		4.1	9.53	7.88	7.84	14.48	
			L		1.04	2.28	3.88	2.04	6.48	
		Water content			gal	1.265	1.468	2.028	2.502	2.859
Construction and Packing Data	Water Connections	Type			Socket (NPT Threaded)					
		In	inch	NPT3/4"			NPT1"			
		Out								
	Condensate Drainage Connection			3/4"						
	Dimensions	L	inch	48 1/4	54 3/16	62 1/16	73 7/8	73 7/8		
		W		29 15/16	29 15/16	29 15/16	29 15/16	29 15/16		
		H		13 3/4	13 3/4	14 15/16	14 15/16	16 15/16		
	Net Weight			lbs	99	110	128	143	165	

Testing conditions:

a. Cooling mode:

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

Inlet/ outlet water temperature: 45F/ 60F.

b. Heating mode:

- Return air temperature: 70F.

- Inlet water temperature: 140F.

-Water flow same to cooling mode.

Technical Data



MFCHD



MFCHD(3R+1)-P-AECM

Product range: MFCHD(3R+1)-P~-AECM Hydronic Ducted 4-pipe Unit
with 3-row cooling Coil, 1-row heating coil and EC motor

MFCHD(3R+1)-[Size]-P~-AECM					1000	1200	1600	2000	2400	
Unit Configuration		Configuration			4-pipe					
		Number Of Fan Blowers			Twin				Four	
		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 EC modulating thermostat					
Performance Data	Air	Total Air Flow	H	CFM	1129	1334	1629	2090	2490	
			M		750	1098	1265	1705	2164	
			L		333	502	813	842	1309	
		External Static Pressure	H	in.wg	0.48	0.48	0.48	0.48	0.48	
			M		0.48	0.48	0.48	0.48	0.48	
			L		0.28	0.28	0.28	0.28	0.28	
	Cooling	Cooling Capacity	H	BTU/Hr	29555	35233	44487	56470	67550	
			M		21577	30421	36633	48211	60977	
			L		11330	16642	25958	27922	41117	
		Sensible Cooling Capacity	H		20260	24051	30136	38358	45608	
			M		14505	20488	24527	32345	40799	
			L		7574	10902	17013	18277	26870	
	Heating	Heating Capacity	H	BTU/Hr	28967	34046	42978	54770	64664	
			M		21149	29396	35391	46759	58372	
			L		11105	16081	25078	27081	39361	
		Max. Electric Heater Capacity		kW	4	5	6	6	6	
	Sound	Sound Pressure Level (outlet)		dB(A)	62/59/51	65/63/53	67/64/56	68/66/57	71/69/60	
		Sound Pressure Level(Inlet + Radiated)			59/56/48	62/60/50	64/61/53	65/63/54	68/66/57	
		Sound Power Level (outlet)			71/68/60	74/72/62	76/73/65	77/75/66	80/78/69	
		Sound Power Level(Inlet + Radiated)			68/65/57	71/69/59	73/70/62	74/72/63	77/75/66	
	Electrical	Fan Motor Power	H	W	280	360	480	580	700	
			M		180	260	350	450	540	
			L		60	66	120	130	160	
	Hydraulic	Cooling Water Flow Rate	H	GPM	5.84	6.96	8.79	11.15	13.34	
			M		4.26	6.01	7.23	9.52	12.04	
			L		2.24	3.29	5.13	5.51	8.12	
		Cooling Pressure Drop	H	ft.wg	9.93	15.06	13.53	13.29	15.49	
			M		5.64	11.56	9.54	10	12.88	
			L		1.77	3.9	5.13	3.74	6.34	
		Heating Water Flow Rate	H	GPM	1.44	1.70	2.14	2.73	3.22	
			M		1.05	1.46	1.76	2.33	2.91	
			L		0.55	0.80	1.25	1.35	1.96	
		Heating Pressure Drop	H	ft.wg	0.96	1.43	1.29	2.39	3.69	
			M		0.54	1.1	0.91	1.8	3.07	
			L		0.17	0.37	0.49	0.67	1.51	
		cooling water content		gal	0.632	0.734	1.014	1.251	1.430	
		heating water content			0.211	0.245	0.338	0.417	0.477	
Construction and Packing Data		Chilled Water Connections	Type		Socket (NPT Threaded)					
			In	Out	inch	NPT3/4"			NPT1"	
						NPT3/4"				
		Hot Water Connections	In	Out		NPT3/4"				
						3/4"				
		Condensate Drainage Connection		3/4"						
		Dimensions	L	inch		48 1/4	54 3/16	62 1/16	73 7/8	73 7/8
			W			29 15/16	29 15/16	29 15/16	29 15/16	29 15/16
			H			13 3/4	13 3/4	14 15/16	14 15/16	16 15/16
Net Weight			lbs	99	110	128	143	165		

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



MFCHD

MFCHD(4R+1)-P-AECM

Product range: MFCHD(4R+1)-P~-AECM Hydronic Ducted 4-pipe

Unit with 4-row cooling Coil, 1-row heating coil and EC motor

MFCHD(4R+1)-[Size]-P~-AECM					1000	1200	1600	2000	2400	
Unit Configuration		Configuration			4-pipe					
		Number Of Fan Blowers			Twin				Four	
		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 EC modulating thermostat					
Performance Data	Air	Total Air Flow	H	CFM	1075	1279	1596	1985	2415	
			M		677	1036	1205	1590	2078	
			L		291	436	757	723	1221	
		External Static Pressure	H	in.wg	0.48	0.48	0.48	0.48	0.48	
			M		0.48	0.48	0.48	0.48	0.48	
			L		0.28	0.28	0.28	0.28	0.28	
	Cooling	Cooling Capacity	H	BTU/Hr	33291	40160	51502	64187	76468	
			M		23174	34100	41717	54143	68201	
			L		11797	16968	28961	28661	44975	
		Sensible Cooling Capacity	H		22553	26969	34295	42709	51222	
			M		15381	22583	27487	35709	45267	
			L		7807	11092	18666	18686	29175	
	Heating	Heating Capacity	H	BTU/Hr	27903	33030	42297	52632	63647	
			M		19424	28046	34261	44397	56765	
			L		9888	13955	23785	23502	37434	
		Max. Electric Heater Capacity		kW	4	5	6	6	6	
	Sound	Sound Pressure Level (outlet)			dB(A)	62/59/51	65/63/53	67/64/56	68/66/57	71/69/60
		Sound Pressure Level(Inlet + Radiated)				59/56/48	62/60/50	64/61/53	65/63/54	68/66/57
		Sound Power Level (outlet)				71/68/60	74/72/62	76/73/65	77/75/66	80/78/69
		Sound Power Level(Inlet + Radiated)				68/65/57	71/69/59	73/70/62	74/72/63	77/75/66
	Electrical	Fan Motor Power	H	W	280	360	480	580	700	
			M		180	260	350	450	540	
			L		60	66	120	130	160	
	Hydraulic	Cooling Water Flow Rate	H	GPM	6.57	7.93	10.17	12.68	15.1	
			M		4.58	6.73	8.24	10.69	13.47	
			L		2.33	3.35	5.72	5.66	8.88	
		Cooling Pressure Drop	H	ft.wg	7.45	11.48	12.77	13.42	9.42	
			M		3.88	8.56	8.74	9.88	7.67	
			L		1.15	2.44	4.53	3.14	3.62	
		Heating Water Flow Rate	H	GPM	1.39	1.65	2.11	2.62	3.17	
			M		0.97	1.40	1.71	2.21	2.83	
			L		0.49	0.70	1.18	1.17	1.86	
		Heating Pressure Drop	H	ft.wg	0.89	1.36	1.25	2.22	3.58	
			M		0.47	1.01	0.86	1.64	2.92	
			L		0.14	0.29	0.44	0.52	1.38	
cooling water content			gal	0.843	0.978	1.352	1.668	1.906		
heating water content				0.211	0.245	0.338	0.417	0.477		
Construction and Packing Data		Chilled Water Connections	Type		Socket (NPT Threaded)					
			In	inch	NPT3/4"			NPT1"		
		Out								
		Hot Water Connections	In		NPT3/4"					
			Out							
		Condensate Drainage Connection			3/4"					
		Dimensions	L	inch	48 1/4	54 3/16	62 1/16	73 7/8	73 7/8	
			W		29 15/16	29 15/16	29 15/16	29 15/16	29 15/16	
			H		13 3/4	13 3/4	14 15/16	14 15/16	16 15/16	
		Net Weight			lbs	99	110	128	143	165

Testing conditions:

a. Cooling mode:

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

Inlet/ outlet water temperature: 45F/ 60F.

b. Heating mode:

- Return air temperature: 70F.

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

Technical Data



MFCHD

MFCHD(4R+2)-P-AECM

Product range: MFCHD(4R+2)-P~-AECM Hydronic Ducted 4-pipe Unit
with 4-row cooling Coil, 2-row heating coil and EC motor

MFCHD(4R+2)-[Size]-P~-AECM					1000	1200	1600	2000	2400
Unit Configuration		Configuration			4-pipe				
		Number Of Fan Blowers			Twin			Four	
		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 EC modulating thermostat				
Performance Data	Air	Total Air Flow	H	CFM	1020	1224	1564	1881	2341
			M		604	974	1145	1475	1993
			L		242	360	693	587	1121
		External Static Pressure	H	in.wg	0.48	0.48	0.48	0.48	0.48
			M		0.48	0.48	0.48	0.48	0.48
			L		0.28	0.28	0.28	0.28	0.28
	Cooling	Cooling Capacity	H	BTU/Hr	32021	38925	51087	62019	74635
			M		21410	32736	39795	51207	65498
			L		9968	14786	26865	24224	41884
		Sensible Cooling Capacity	H		21596	26046	33986	41153	49848
			M		14120	21659	26177	33719	43435
			L		6551	9718	17275	15860	27115
	Heating	Heating Capacity	H	BTU/Hr	45073	53804	70093	85160	103508
			M		30137	45248	54600	70314	90837
			L		14030	20437	36860	33263	58087
		Max. Electric Heater Capacity		kW		4	5	6	6
	Sound	Sound Pressure Level (outlet)		dB(A)	62/59/51	65/63/53	67/64/56	68/66/57	71/69/60
		Sound Pressure Level(Inlet + Radiated)			59/56/48	62/60/50	64/61/53	65/63/54	68/66/57
		Sound Power Level (outlet)			71/68/60	74/72/62	76/73/65	77/75/66	80/78/69
		Sound Power Level(Inlet + Radiated)			68/65/57	71/69/59	73/70/62	74/72/63	77/75/66
	Electrical	Fan Motor Power	H	W	280	360	480	580	700
			M		180	260	350	450	540
			L		60	66	120	130	160
	Hydraulic	Cooling Water Flow Rate	H	GPM	6.32	7.69	10.09	12.25	14.74
			M		4.23	6.46	7.86	10.11	12.93
			L		1.97	2.92	5.31	4.78	8.27
		Cooling Pressure Drop	H	ft.wg	6.94	10.86	12.59	12.61	9.02
			M		3.36	7.95	8.03	8.93	7.13
			L		0.85	1.9	3.96	2.32	3.19
		Heating Water Flow Rate	H	GPM	2.25	2.68	3.49	4.24	5.16
			M		1.50	2.25	2.72	3.50	4.52
			L		0.70	1.02	1.84	1.66	2.89
		Heating Pressure Drop	H	ft.wg	1.92	2.94	2.03	3.41	2.47
			M		0.93	2.15	1.29	2.42	1.95
			L		0.23	0.51	0.64	0.63	0.87
cooling water content		gal		0.843	0.978	1.352	1.668	1.906	
heating water content		gal		0.422	0.489	0.676	0.834	0.953	
Construction and Packing Data	Chilled Water Connections	Type			Socket (NPT Threaded)				
		In	inch	NPT3/4"			NPT1"		
	Out	NPT3/4"							
	Hot Water Connections	In		3/4"					
		Out							
	Condensate Drainage Connection								
	Dimensions	L	inch	48 1/4	54 3/16	62 1/16	73 7/8	73 7/8	
		W		29 15/16	29 15/16	29 15/16	29 15/16	29 15/16	
H		13 3/4		13 3/4	14 15/16	14 15/16	16 15/16		
Net Weight			lbs	99	110	128	143	165	

Testing conditions:

a. Cooling mode:

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

Inlet/ outlet water temperature: 45F/ 60F.

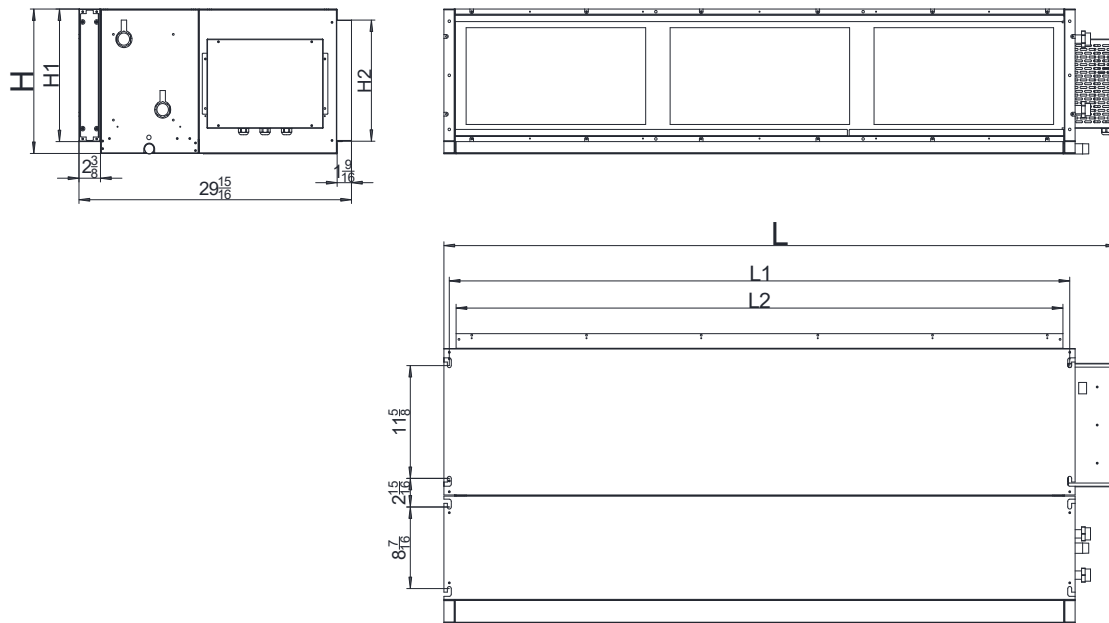
b. Heating mode:

- Return air temperature: 70F.

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

Technical Data

Dimensional drawings



Model	L	L1	L2	H	H1	H2
iFCHD-1000-P	48 1/4"	42 1/2"	41 5/16"	13 3/4"	12 5/8"	11 7/16"
iFCHD-1200-P	54 3/16"	48 7/16"	47 1/4"	13 3/4"	12 5/8"	11 7/16"
iFCHD-1600-P	62 1/16"	56 5/16"	55 1/8"	14 15/16"	13 3/4"	12 5/8"
iFCHD-2000-P	73 7/8"	68 1/8"	66 15/16"	14 15/16"	13 3/4"	12 5/8"
iFCHD-2400-P	73 7/8"	68 1/8"	66 15/16"	16 15/16"	15 3/4"	14 9/16"

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

Technical Data



MFCHD

Accessories (Optional Parts)

Accessories	Photo	Code	Description
1.Heating coil modular		BCP-COIL(L1)-MFCHD-001	Additional 1-row heating coil module for MFCHD-1000
		BCP-COIL(L1)-MFCHD-002	Additional 1-row heating coil module for MFCHD-1200
		BCP-COIL(L1)-MFCHD-003	Additional 1-row heating coil module for MFCHD-1600
		BCP-COIL(L1)-MFCHD-004	Additional 1-row heating coil module for MFCHD-2000
		BCP-COIL(L1)-MFCHD-005	Additional 1-row heating coil module for MFCHD-2400
		BCP-COIL(L2)-MFCHD-001	Additional 2-row heating coil module for MFCHD-1000
		BCP-COIL(L2)-MFCHD-002	Additional 2-row heating coil module for MFCHD-1200
		BCP-COIL(L2)-MFCHD-003	Additional 2-row heating coil module for MFCHD-1600
		BCP-COIL(L2)-MFCHD-004	Additional 2-row heating coil module for MFCHD-2000
		BCP-COIL(L2)-MFCHD-005	Additional 2-row heating coil module for MFCHD-2400
2.Drain pan		BCP-SSDP-MFCHD-001	Stainless steel drain-pan for MFCHD-1000
		BCP-SSDP-MFCHD-002	Stainless steel drain-pan for MFCHD-1200
		BCP-SSDP-MFCHD-003	Stainless steel drain-pan for MFCHD-1600
		BCP-SSDP-MFCHD-004	Stainless steel drain-pan for MFCHD-2000
		BCP-SSDP-MFCHD-005	Stainless steel drain-pan for MFCHD-2400
3.E-heater modular		BCP25-EH-SSR-MFCHD-001	4kW electric heat module (220V/1Ph) with SSR for MFCHD-1000
		BCP25-EH-SSR-MFCHD-002	5kW electric heat module (220V/1Ph) with SSR for MFCHD-1200
		BCP25-EH-SSR-MFCHD-003	6kW electric heat module (220V/1Ph) with SSR for MFCHD-1600
		BCP25-EH-SSR-MFCHD-004	6kW electric heat module (220V/1Ph) with SSR for MFCHD-2000
		BCP25-EH-SSR-MFCHD-005	6kW electric heat module (220V/1Ph)for with SSR MFCHD-2400
		BCP25-EH-SSR-MFCHD-001	4kW electric heat module (220V/1Ph) with Contact Relay for MFCHD-1000
		BCP25-EH-SSR-MFCHD-002	5kW electric heat module (220V/1Ph) with Contact Relay for MFCHD-1200
		BCP25-EH-SSR-MFCHD-003	6kW electric heat module (220V/1Ph) with Contact Relay for MFCHD-1600
		BCP25-EH-SSR-MFCHD-004	6kW electric heat module (220V/1Ph) with Contact Relay for MFCHD-2000
		BCP25-EH-SSR-MFCHD-005	6kW electric heat module (220V/1Ph)for with Contact Relay MFCHD-2400
		BCP25-EH-CR400-MFCHD-001	6kW electric heat module (380V/3Ph) with Contact Relay for MFCHD-1000
		BCP25-EH-CR400-MFCHD-002	6kW electric heat module (380V/3Ph) with Contact Relay for MFCHD-1200
		BCP25-EH-CR400-MFCHD-003	9kW electric heat module (380V/3Ph) with Contact Relay for MFCHD-1600
		BCP25-EH-CR400-MFCHD-004	9kW electric heat module (380V/3Ph) with Contact Relay for MFCHD-2000
		BCP25-EH-CR400-MFCHD-005	9kW electric heat module (380V/3Ph)for with Contact Relay MFCHD-2400
4.Merv 14		BCP25-M14-MFCHD-001	Merv 14 filter module for MFCHD-1000
		BCP25-M14-MFCHD-002	Merv 14 filter module for MFCHD-1200
		BCP25-M14-MFCHD-003	Merv 14 filter module for MFCHD-1600
		BCP25-M14-MFCHD-004	Merv 14 filter module for MFCHD-2000
		BCP25-M14-MFCHD-005	Merv 14 filter module for MFCHD-2400
5.Merv 8		AA14-M8-MFCHD-001	Merv 8 or G4 filter for MFCHD-1000
		AA14-M8-MFCHD-002	Merv 8 or G4 filter for MFCHD-1200
		AA14-M8-MFCHD-003	Merv 8 or G4 filter for MFCHD-1600
		AA14-M8-MFCHD-004	Merv 8 or G4 filter for MFCHD-2000
		AA14-M8-MFCHD-005	Merv 8 or G4 filter for MFCHD-2400

Technical Data



MFCHD

Accessories (Optional Parts)

Accessories	Photo	Code	Description
6. Duct connection parts		BCP-PLENUM-MFCHD-001	Standard plenum for return air or air discharge for MFCHD-1000
		BCP-PLENUM-MFCHD-002	Standard plenum for return air or air discharge for MFCHD-1200
		BCP-PLENUM-MFCHD-003	Standard plenum for return air or air discharge for MFCHD-1600
		BCP-PLENUM-MFCHD-004	Standard plenum for return air or air discharge for MFCHD-2000
		BCP-PLENUM-MFCHD-005	Standard plenum for return air or air discharge for MFCHD-2400
		BCP-DAMPER-MFCHD-001	2-way inlet plenum with adjustable damper for MFCHD-1000
		BCP-DAMPER-MFCHD-002	2-way inlet plenum with adjustable damper for MFCHD-1200
		BCP-DAMPER-MFCHD-003	2-way inlet plenum with adjustable damper for MFCHD-1600
		BCP-DAMPER-MFCHD-004	2-way inlet plenum with adjustable damper for MFCHD-2000
		BCP-DAMPER-MFCHD-005	2-way inlet plenum with adjustable damper for MFCHD-2400
		BCP-ROUND-MFCHD-001	Discharge plenum for round ducting for MFCHD-1000
		BCP-ROUND-MFCHD-002	Discharge plenum for round ducting for MFCHD-1200
		BCP-ROUND-MFCHD-003	Discharge plenum for round ducting for MFCHD-1600
		BCP-ROUND-MFCHD-004	Discharge plenum for round ducting for MFCHD-2000
		BCP-ROUND-MFCHD-005	Discharge plenum for round ducting for MFCHD-2400
7. Valve kit		BCP25-RCS-VALVE-MFCHD-003	24VAC 3/4" Belimo Modulating 2-way ball valve kit
		BCP25-RCS-VALVE-MFCHD-004	24VAC 3/4" Belimo Modulating 3-way ball valve kit
		BCP25-RCS-VALVE-MFCHD-007	24VAC 1" Modulating 2-way ball valve kit
		BCP25-RCS-VALVE-MFCHD-008	24VAC 1" Modulating 3-way ball valve kit
		BCP25-RCS-VALVE-MFCHD-009	24VAC 3/4" Motorized 2-way ball valve kit
		BCP25-RCS-VALVE-MFCHD-010	24VAC 3/4" Motorized 3-way ball valve kit
		BCP25-RCS-VALVE-MFCHD-011	24VAC 1" Motorized 2-way ball valve kit
8. Pump kit		BCP25-PUMP-MFCHD-001	220V pump kit
		BCP25-PUMP-MFCHD-002	115V pump kit





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