



MCFCW-16-4HS-1 (4-Pipe) High Static Chilled/Hot Water Ceiling Concealed Cased Fan Coil 208/230V

4-Pipe Heating & Cooling Fan Coil 48,000 BTUH

*These specifications are subject to change without notice.
Check www.multiaqua.com for the latest information.*

HVAC Guide Specifications

Chilled and Hot Water Fan Coil High Static

4-Pipe

Nominal Size:

48,000 BTUH

Multiaqua Model Number:

MCFCW-16-4HS-1

Part 1-General

1.01 System Description

Multiaqua Chilled Water Fan Coils are manufactured with heavy gauge galvanized steel to resist corrosion.

1.02 Quality Assurance

- A. Certified in accordance with U.L. Standard 95, latest version (U.S.A.)
- B. Manufactured in a facility registered to ISO 9002, Manufacturing Quality Standard.
- C. Fully load tested at the factory.
- D. Damage resistant packaging.

1.03 Delivery, Storage and Handling

- A. Packaged and readied for shipment from the factory.
- B. Controls shall be capable of withstanding 150°F storage temperatures in the control compartment.
- C. Stored and handled per manufacturer's recommendations.

Part 2-Product

2.01 Equipment

A. General:

- 1. Unit shall be a factory assembled and tested chilled and hot water fan coil.
- 2. Shall be assembled with heavy gauge galvanized steel.
 - 3. Contained with the unit shall be all factory wiring, piping, associated controls and special accessories required prior to start up. Filters are not included with the fan coil.
 - 4. A filter rack is built into the return of each fan coil.

B. Unit Cabinet:

- 1. Composed of heavy gauge galvanized steel casing with a baked polyester powder.
- 2. Shall be internally insulated to ensure quiet operation.

C. Fan Motors:

- 1. Shall be available in 208/230-1-50/60 VAC.
- 2. Fan motors shall be three speed, direct drive, and PSC type.
- 3. Totally enclosed.
- 4. Internal overload protected.

D. Blower Wheels:

- 1. Blower wheels are forward curved and dynamically balanced.

E. External Static Pressure

- 1. Unit shall be rated for a max external static pressure of .5" WG.

F. Water Coil:

- 1. Manufactured with water coils containing 3/8 copper tubing mechanically bonded to aluminum fins.
- 2. Contain both a manual water/ air bleed port per coil.
- 3. Coils shall be factory tested to 350 psig.
- 4. Coils have a max operating pressure of 200 PSI.
- 5. Maximum liquid solution temperature is 180 degrees F.

G. Drain Pan:

1. All drain pans shall be coated on both the interior and exterior with baked polyester powder to resist corrosion.
2. The exterior of all drain pans shall be insulated with closed cell insulation to prevent condensation.
3. Pans shall contain sloped drain connection as well as a sloped secondary drain connection.
4. Field supplied and installed P-Traps are required.

Part 3-Controls and Safeties**3.01 Controls**

- A. Fan coils shall be completely factory wired and tested.
- B. All components shall be wired to an internal terminal block to allow for a field installed 24 vac thermostat and or fan speed control.
- C. Controls shall include the following components.
 1. 24vac transformer.
 2. Three fan relays.
 3. Optional thermostats.

3.02 Safeties:

- A. Fan coil shall contain a non-reusable fuse on the secondary voltage side of the transformer.

Part 4-Operating Characteristics:**4.01 Electrical Requirements**

- A. Primary electrical power supply shall enter the unit at a single location.
- B. Electrical power supply shall be rated to withstand 120°F operating ambient temperatures.
- C. Control and high voltage points shall be accessed through terminal block.

Part 6- Definitions:**6.01 Abbreviations**

- A. CFM = Cubic Feet per Minute
- B. DB = Dry Bulb Temperature
- C. EWT = Entering Water Temperature
- D. GPM = US Gallons Per Minute
- E. MBH = BTU X 1000
- F. SC = Sensible Cooling
- G. TC = Total Cooling = Sensible + Latent
- H. WB = Wet Bulb Temperature
- I. WPD = Water Pressure Drop in feet of head
- J. dB = Decibel Level
- K. M = Meter
- L. In = Inches
- M. FPI = Fins per Inch
- N. OD = Outside Diameter
- O. ID = Inside Diameter
- P. MCA = Minimum Circuit Amps
- Q. MOP = Maximum Over current Protection
- R. LBS = Pounds U.S.

6.02 Measurements

- A. All measurements with regard to length, width, and height shall be in inches.

MCFCW-16-4HS-1 Product Specifications

Physical Data										
Model Number	Height (in)	Length (in)	Depth (in)	Weight (lbs.)	Primary Rows FPI	Secondary Rows FPI	Copper Diameter (in)	Water Inlet O.D(in)	Water Outlet O.D(in)	Drain (in)
MCFCW-16-4HS-1	14.25	55.00	31.57	166	4-14	1-14	3/8	3/4	3/4	3/4

Electrical Data						
Model Number	Nominal CFM	Volts/ Phase/ Hertz	Fan Motor HP	Full Load Ampacity	Fuse or HACR Circuit Breaker Per Circuit	
					MCA	MOP
MCFCW-16-4HS-1	1600	208/230-1-50/60	1	5.62	7.03	15

MCFCW-16-4HS-1 Chilled Water Performance Data

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2500	42	0.00	8.0	TC	60936
				SC	46080
				WPD FT	8.0
			9.0	TC	64626
				SC	47904
				WPD FT	9.9
			10.0	TC	67944
				SC	49559
				WPD FT	12.1
MCFCW-16-4HS-1 COOLING CAPACITIES (Primary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2260	42	0.10	8.0	TC	58964
				SC	43662
				WPD FT	8.0
			9.0	TC	62399
				SC	45355
				WPD FT	9.9
			10.0	TC	65578
				SC	46869
				WPD FT	12.1
MCFCW-16-4HS-1 COOLING CAPACITIES (Primary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2214	42	0.20	8.0	TC	58586
				SC	43191
				WPD FT	8.0
			9.0	TC	62008
				SC	44888
				WPD FT	9.9
			10.0	TC	65125
				SC	46352
				WPD FT	12.1

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MCFCW-16-4HS-1 COOLING CAPACITIES (Primary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2052	42	0.30	8.0	TC	57087
				SC	41480
				WPD FT	8.0
			9.0	TC	60397
				SC	43066
				WPD FT	9.9
			10.0	TC	63333
				SC	44443
				WPD FT	12.1

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
1807	42	0.40	8.0	TC	54557
				SC	38626
				WPD FT	8.0
			9.0	TC	57570
				SC	40038
				WPD FT	9.9
			10.0	TC	60264
				SC	41277
				WPD FT	12.1

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
1532	42	0.50	8.0	TC	51179
				SC	35085
				WPD FT	8.0
			9.0	TC	53835
				SC	36300
				WPD FT	10.0
			10.0	TC	56154
				SC	37354
				WPD FT	12.1

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MCFCW-16-4HS-1 COOLING CAPACITIES (Primary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2500	45	0.00	8.0	TC	54916
				SC	43602
				WPD FT	7.9
			9.0	TC	58069
				SC	45284
				WPD FT	9.9
			10.0	TC	60918
				SC	45724
				WPD FT	12.0

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2260	45	0.10	8.0	TC	53007
				SC	41244
				WPD FT	7.9
			9.0	TC	55971
				SC	42792
				WPD FT	9.9
			10.0	TC	58645
				SC	44067
				WPD FT	12.0

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2214	45	0.20	8.0	TC	52643
				SC	40808
				WPD FT	7.9
			9.0	TC	55586
				SC	42331
				WPD FT	9.9
			10.0	TC	58210
				SC	43574
				WPD FT	12.0

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2052	45	0.30	8.0	TC	51212
				SC	39133
				WPD FT	7.9
			9.0	TC	54048
				SC	40493
				WPD FT	9.9
			10.0	TC	56565
				SC	41698
				WPD FT	12.0

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
1807	45	0.40	8.0	TC	48798
				SC	36273
				WPD FT	7.9
			9.0	TC	51421
				SC	37528
				WPD FT	9.9
			10.0	TC	53733
				SC	38599
				WPD FT	12.1

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
1532	45	0.50	8.0	TC	45673
				SC	32823
				WPD FT	7.9
			9.0	TC	47964
				SC	33873
				WPD FT	9.9
			10.0	TC	50020
				SC	34786
				WPD FT	12.1

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MCFCW-16-4HS-1 COOLING CAPACITIES (Secondary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2500	42	0.00	8.0	TC	21902
				SC	17583
				WPD FT	9.4
			9.0	TC	23342
				SC	18091
				WPD FT	11.8
			10.0	TC	24362
				SC	18514
				WPD FT	14.4

MCFCW-16-4HS-1 COOLING CAPACITIES (Secondary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2260	42	0.10	8.0	TC	21639
				SC	16774
				WPD FT	9.4
			9.0	TC	22808
				SC	17257
				WPD FT	11.8
			10.0	TC	23781
				SC	17659
				WPD FT	14.4

MCFCW-16-4HS-1 COOLING CAPACITIES (Secondary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2214	42	0.20	8.0	TC	21577
				SC	16650
				WPD FT	9.4
			9.0	TC	22735
				SC	17128
				WPD FT	11.8
			10.0	TC	23698
				SC	17526
				WPD FT	14.4

MCFCW-16-4HS-1 COOLING CAPACITIES (Secondary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2052	42	0.30	8.0	TC	21265
				SC	161245
				WPD FT	9.4
			9.0	TC	22384
				SC	16584
				WPD FT	11.8
			10.0	TC	23311
				SC	16967
				WPD FT	14.4

MCFCW-16-4HS-1 COOLING CAPACITIES (Secondary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
1807	42	0.40	8.0	TC	20657
				SC	15208
				WPD FT	9.4
			9.0	TC	21710
				SC	15610
				WPD FT	11.8
			10.0	TC	22576
				SC	15997
				WPD FT	14.4

MCFCW-16-4HS-1 COOLING CAPACITIES (Secondary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
1532	42	0.50	8.0	TC	19867
				SC	14108
				WPD FT	9.4
			9.0	TC	20833
				SC	14504
				WPD FT	11.8
			10.0	TC	21623
				SC	14828
				WPD FT	14.4

MCFCW-16-4HS-1 COOLING CAPACITIES (Secondary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2500	45	0.00	8.0	TC	18823
				SC	16519
				WPD FT	9.4
			9.0	TC	19993
				SC	16952
				WPD FT	11.7
			10.0	TC	20825
				SC	17329
				WPD FT	14.3

MCFCW-16-4HS-1 COOLING CAPACITIES (Secondary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2260	45	0.10	8.0	TC	18568
				SC	15724
				WPD FT	9.4
			9.0	TC	19479
				SC	16138
				WPD FT	11.7
			10.0	TC	20496
				SC	16496
				WPD FT	14.3

MCFCW-16-4HS-1 COOLING CAPACITIES (Secondary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2214	45	0.20	8.0	TC	18508
				SC	15604
				WPD FT	9.4
			9.0	TC	19410
				SC	16013
				WPD FT	11.7
			10.0	TC	20431
				SC	16367
				WPD FT	14.3

MCFCW-16-4HS-1 COOLING CAPACITIES (Secondary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2052	45	0.30	8.0	TC	18210
				SC	15092
				WPD FT	9.4
			9.0	TC	19079
				SC	15485
				WPD FT	11.7
			10.0	TC	20109
				SC	15825
				WPD FT	14.3

MCFCW-16-4HS-1 COOLING CAPACITIES (Secondary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
1807	45	0.40	8.0	TC	17632
				SC	14201
				WPD FT	9.4
			9.0	TC	18713
				SC	14568
				WPD FT	11.7
			10.0	TC	19487
				SC	14885
				WPD FT	14.3

MCFCW-16-4HS-1 COOLING CAPACITIES (Secondary Coil Only)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
1532	45	0.50	8.0	TC	17160
				SC	13136
				WPD FT	9.4
			9.0	TC	17977
				SC	13470
				WPD FT	11.7
			10.0	TC	18682
				SC	13757
				WPD FT	14.3

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary and Secondary Coil)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2500	42	0.00	8.0	TC	68341
				SC	50156
				WPD FT	5.8
			9.0	TC	72389
				SC	52264
				WPD FT	7.3
			10.0	TC	76039
				SC	54109
				WPD FT	8.9

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary and Secondary Coil)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2260	42	0.10	8.0	TC	65960
				SC	47516
				WPD FT	5.8
			9.0	TC	69746
				SC	49428
				WPD FT	7.3
			10.0	TC	73214
				SC	51117
				WPD FT	8.9

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary and Secondary Coil)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2214	42	0.20	8.0	TC	65507
				SC	47021
				WPD FT	5.8
			9.0	TC	69247
				SC	48898
				WPD FT	7.3
			10.0	TC	72660
				SC	50544
				WPD FT	8.9

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary and Secondary Coil)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2052	42	0.30	8.0	TC	63734
				SC	45119
				WPD FT	5.8
			9.0	TC	67326
				SC	46872
				WPD FT	7.3
			10.0	TC	70490
				SC	48392
				WPD FT	8.9

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary and Secondary Coil)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
1807	42	0.40	8.0	TC	60658
				SC	41940
				WPD FT	5.9
			9.0	TC	63902
				SC	43477
				WPD FT	7.3
			10.0	TC	66800
				SC	44836
				WPD FT	8.9

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary and Secondary Coil)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
1532	42	0.50	8.0	TC	56570
				SC	37956
				WPD FT	5.9
			9.0	TC	59413
				SC	39276
				WPD FT	7.3
			10.0	TC	61889
				SC	40421
				WPD FT	8.9

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CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2500	45	0.00	8.0	TC	61765
				SC	47529
				WPD FT	5.8
			9.0	TC	65262
				SC	49410
				WPD FT	7.3
			10.0	TC	68397
				SC	51031
				WPD FT	8.8

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary and Secondary Coil)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2260	45	0.10	8.0	TC	59490
				SC	44927
				WPD FT	5.8
			9.0	TC	62754
				SC	46616
				WPD FT	7.3
			10.0	TC	65683
				SC	48048
				WPD FT	8.9

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary and Secondary Coil)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2214	45	0.20	8.0	TC	59042
				SC	44435
				WPD FT	5.8
			9.0	TC	62278
				SC	46083
				WPD FT	7.3
			10.0	TC	65161
				SC	47491
				WPD FT	8.9

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary and Secondary Coil)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
2052	45	0.30	8.0	TC	57372
				SC	42568
				WPD FT	5.8
			9.0	TC	60429
				SC	44057
				WPD FT	7.3
			10.0	TC	63135
				SC	45378
				WPD FT	8.9

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary and Secondary Coil)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
1807	45	0.40	8.0	TC	54443
				SC	39391
				WPD FT	5.8
			9.0	TC	57221
				SC	40722
				WPD FT	7.3
			10.0	TC	59703
				SC	41876
				WPD FT	8.9

MCFCW-16-4HS-1 COOLING CAPACITIES (Primary and Secondary Coil)					
CFM	EWT (°F)	ESP IN WC	GPM	ENTERING AIR TEMPERATURE (F)	
					80° D.B. / 67° W.B.
1532	45	0.50	8.0	TC	50619
				SC	35481
				WPD FT	5.8
			9.0	TC	53049
				SC	36593
				WPD FT	7.3
			10.0	TC	55225
				SC	37588
				WPD FT	8.9

MCFCW-16-4HS-1 Hot Water Performance Data

This heating performance data is at dry bulb temperature indicated / wet bulb temperature is 56 degrees F.

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Primary Coil)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	2500	0.00	8.0	7.3	53046	69534	86129	102813	119570	136386	153251
			9.0	9.1	54706	71744	88889	106121	123426	140790	158202
			10.0	11.1	56085	73579	91176	108860	126615	144428	162287
			11.0	13.3	57247	75122	93099	111159	129289	147475	165707

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Primary Coil)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	2260	0.10	8.0	7.3	50764	66483	82300	98199	114165	130186	146250
			9.0	9.1	52228	68432	84731	101111	117556	134055	150597
			10.0	11.1	53438	70039	86733	103505	120341	137229	154160
			11.0	13.3	54453	71385	88407	105505	122665	139875	157127

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Primary Coil)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	2214	0.20	8.0	7.3	50258	65820	81478	97216	113020	128877	144778
			9.0	9.1	51684	67717	83844	100049	116319	132641	149006
			10.0	11.1	52861	69280	85790	102377	119025	135726	152467
			11.0	13.3	53847	70587	87416	104318	121281	138293	155346

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Primary Coil)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	2052	0.30	8.0	7.3	48458	63436	78503	93645	108848	124101	139394
			9.0	9.1	49747	65149	80638	96199	111820	127489	143198
			10.0	11.1	50805	66553	82385	98286	114246	130252	146296
			11.0	13.3	51688	67722	83838	100021	116259	132542	148862

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Primary Coil)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	1807	0.40	8.0	7.3	45496	59494	73570	87712	101906	116145	130418
			9.0	9.1	46571	60919	75344	89830	104368	118948	133562
			10.0	11.1	47445	62078	76783	91547	106361	121215	136102
			11.0	13.3	48170	63036	77971	92964	108003	123081	138190

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Primary Coil)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	1532	0.50	8.0	7.3	41616	54344	67138	79984	92875	105801	118757
			9.0	9.1	42442	55438	68495	81603	94753	107936	121147
			10.0	11.1	43108	56317	69585	82900	96255	109642	123055
			11.0	13.3	43653	57037	70476	83960	97481	111033	124609

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Secondary Coil)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	2500	0.00	8.0	8.7	24950	31959	39032	46160	53334	60546	67791
			9.0	10.9	25415	32572	39790	47061	54375	61725	69106
			10.0	13.3	25806	33086	40425	47814	55245	62709	70203
			11.0	15.9	26140	33524	40966	48455	55983	63544	71133

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MCFCW-16-4HS-1 HOT WATER CAPACITIES (Secondary Coil)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	2260	0.10	8.0	8.7	24162	30912	37722	44583	51486	58425	65393
			9.0	10.9	24593	31480	38424	45416	52448	59514	66608
			10.0	13.3	24955	31955	39010	46111	53250	60422	67619
			11.0	15.9	25263	32359	39509	46702	59931	61191	68476

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Secondary Coil)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	2214	0.20	8.0	8.7	23964	30662	34418	44225	51073	57956	64869
			9.0	10.9	24388	31220	38108	45044	52019	59027	66063
			10.0	13.3	24744	31688	38685	45728	52808	59920	67058
			11.0	15.9	25047	32085	39176	46309	53478	60677	67900

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Secondary Coil)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	2052	0.30	8.0	8.7	23309	29812	36373	42980	49626	56305	63012
			9.0	10.9	23708	30338	37022	43750	50516	57312	64135
			10.0	13.3	24043	30778	37564	44393	51257	58151	65069
			11.0	15.9	24327	31152	38025	44938	51885	58860	65859

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Secondary Coil)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	1807	0.40	8.0	8.7	22280	28463	34698	40974	47286	53628	59994
			9.0	10.9	22640	28937	35282	41668	48086	54533	61003
			10.0	13.3	22941	29333	35770	42245	48752	55286	61841
			11.0	15.9	23197	29668	36183	42734	49315	55922	62549

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Secondary Coil)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	1532	0.50	8.0	8.7	20917	26691	32508	38363	44248	50159	56091
			9.0	10.9	21230	27102	33015	38964	44941	50943	56964
			10.0	13.3	21491	27445	33437	39463	45517	51593	57687
			11.0	15.9	21713	27735	33794	39885	46002	52141	58297

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Primary and Secondary)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	2500	0.0	8.0	5.4	57962	76136	94437	112844	131337	149902	168525
			9.0	6.7	59869	78678	97612	116651	135776	154973	174227
			10.0	8.2	61439	80766	100216	119769	139407	159114	178879
			11.0	9.8	62749	82506	102383	122359	142418	162545	182728

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Primary and Secondary)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	2260	0.10	8.0	5.4	55408	72721	90149	107674	125279	142950	160675
			9.0	6.7	57067	74927	926902	110971	129119	147331	165596
			10.0	8.2	58420	76725	95140	113647	132231	150877	169575
			11.0	9.8	59541	78211	96987	115852	134791	153791	172841

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Primary and Secondary)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	2214	0.20	8.0	5.4	54845	71980	89229	106572	123994	141481	159020
			9.0	6.7	56454	74121	91898	109769	127716	145727	163789
			10.0	8.2	57766	75861	94065	112359	130727	149157	167637
			11.0	9.8	58850	77298	95850	114490	133201	151971	170790

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Primary and Secondary)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	2052	0.30	8.0	5.4	52825	69300	85880	102549	119290	136092	152943
			9.0	6.7	54259	71205	88253	105387	122592	139856	157166
			10.0	8.2	55420	72743	90166	107671	125244	142874	160549
			11.0	9.8	56374	74006	91732	109538	127409	145334	163304

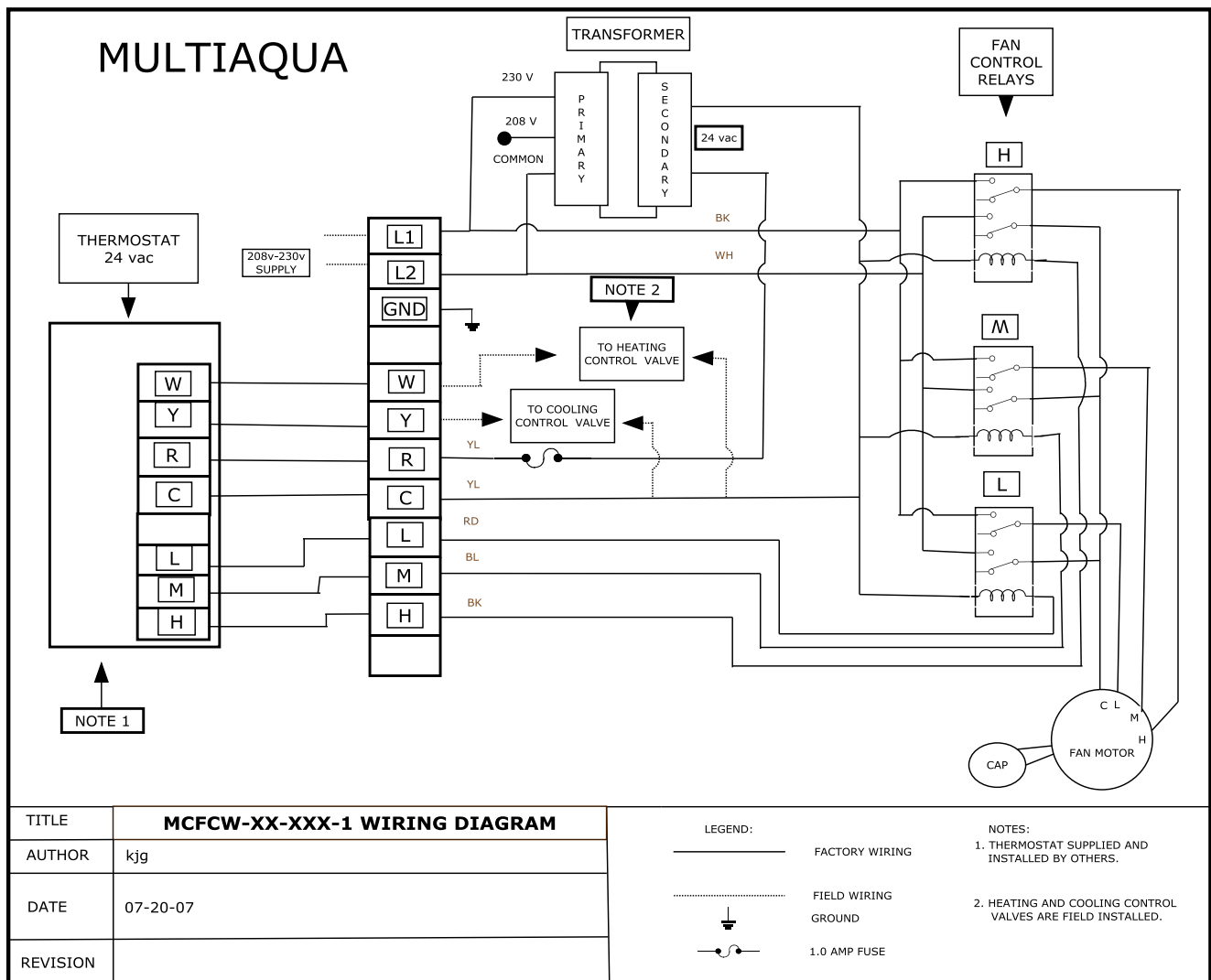
MCFCW-16-4HS-1 HOT WATER CAPACITIES (Primary and Secondary)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	1807	0.40	8.0	5.4	49475	64834	80285	95813	111405	127050	142737
			9.0	6.7	50638	66375	82200	98099	114059	130069	146120
			10.0	8.2	51567	67604	83724	99915	116164	132460	148795
			11.0	9.8	52323	68601	84959	101383	117863	134388	150950

MCFCW-16-4HS-1 HOT WATER CAPACITIES (Primary and Secondary)											
ENTERING AIR (°F)	NOMINAL CFM	ESP "WC	GPM	WPD	ENTERING AIR TEMPERATURE (F)						
					100°	110°	120°	130°	140°	150°	160°
70	1532	0.50	8.0	5.4	45064	58969	72948	86991	101085	115221	129393
			9.0	6.7	45917	60096	74345	88652	103008	117404	131833
			10.0	8.2	46588	60979	75436	89948	104506	119100	133726
			11.0	9.8	47125	61685	76307	90980	105696	120446	135226

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MCFCW-16-4HS-1

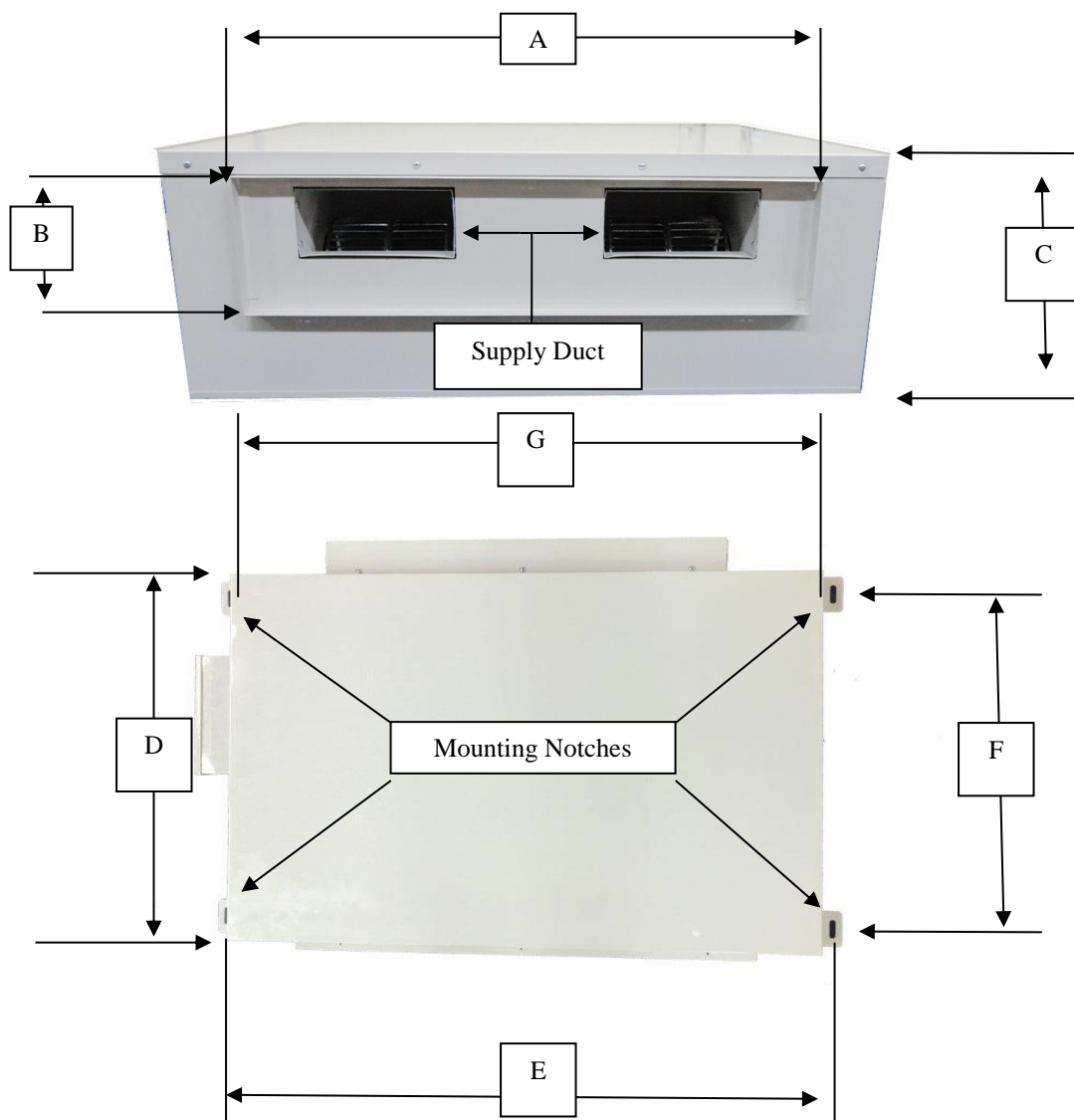
Wiring Diagram



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MCFCW-16-4HS-1 Dimensional Drawing

FAN COIL DIMENSIONS (in.)									
Fan Coil Model Number	A	B	C	D	E	F	G	H	I
MCFCW-16-4HS-01	33.00	12.00	14.17	31.58	54.92	24.25	57.00	49.00	12.00



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