



MCFCW-12-4LS-1 (4-Pipe) Low Static Chilled/Hot Water Ceiling Concealed Cased Fan Coil 208/230V

4-Pipe Heating & Cooling Fan Coil 24,000 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 Low Static
4-Pipe
Nominal Size:
36,000 BTUH

MultiAqua Model Number:
MCFCW-12-4LS-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 .3" 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 have a max operating pressure of 150 PSI.
- 4. 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-12-4LS-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-12-4LS-1 | 14.25 | 55.00 | 29.25 | 144 | 3-14 | 1-14 | 3/4-1/2 | 5/8 | 5/8 | 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-12-4LS-1 | 1200 | 208/230-1-50/60 | 1/2 | 2.32 | 2.90 | 7 | |

MCFCW-12-4LS-1 Chilled Water Performance Data

| MCFCW-12-4LS-1 COOLING CAPACITIES (Primary Coil Only) | | | | | |
|----------------------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1850 | 42 | 0.00 | 5.0 | TC | 39915 |
| | | | | SC | 32082 |
| | | | | WPD FT | 5.8 |
| | | | 5.5 | TC | 42008 |
| | | | | SC | 33195 |
| | | | | WPD FT | 6.9 |
| | | | 6.0 | TC | 43972 |
| | | | | SC | 34196 |
| | | | | WPD FT | 8.2 |

| MCFCW-12-4LS-1 COOLING CAPACITIES (Primary Coil Only) | | | | | |
|----------------------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1516 | 42 | 0.10 | 5.0 | TC | 37622 |
| | | | | SC | 29084 |
| | | | | WPD FT | 5.8 |
| | | | 5.5 | TC | 39514 |
| | | | | SC | 29992 |
| | | | | WPD FT | 6.9 |
| | | | 6.0 | TC | 41275 |
| | | | | SC | 30810 |
| | | | | WPD FT | 8.2 |

| MCFCW-12-4LS-1 COOLING CAPACITIES (Primary Coil Only) | | | | | |
|----------------------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1384 | 42 | 0.20 | 5.0 | TC | 36607 |
| | | | | SC | 27775 |
| | | | | WPD FT | 5.8 |
| | | | 5.5 | TC | 38409 |
| | | | | SC | 28621 |
| | | | | WPD FT | 6.9 |
| | | | 6.0 | TC | 40076 |
| | | | | SC | 29375 |
| | | | | WPD FT | 8.2 |

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|----------------------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1202 | 42 | 0.30 | 5.0 | TC | 34935 |
| | | | | SC | 25759 |
| | | | | WPD FT | 5.8 |
| | | | 5.5 | TC | 36582 |
| | | | | SC | 26500 |
| | | | | WPD FT | 6.9 |
| | | | 6.0 | TC | 38108 |
| | | | | SC | 27198 |
| | | | | WPD FT | 8.2 |

| MCFCW-12-4LS-1 COOLING CAPACITIES (Primary Coil Only) | | | | | |
|----------------------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1850 | 45 | 0.00 | 5.0 | TC | 36226 |
| | | | | SC | 30510 |
| | | | | WPD FT | 5.8 |
| | | | 5.5 | TC | 37991 |
| | | | | SC | 31556 |
| | | | | WPD FT | 6.9 |
| | | | 6.0 | TC | 39616 |
| | | | | SC | 32396 |
| | | | | WPD FT | 8.1 |

| MCFCW-12-4LS-1 COOLING CAPACITIES (Primary Coil Only) | | | | | |
|----------------------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1516 | 45 | 0.10 | 5.0 | TC | 33906 |
| | | | | SC | 27548 |
| | | | | WPD FT | 5.8 |
| | | | 5.5 | TC | 35570 |
| | | | | SC | 28371 |
| | | | | WPD FT | 6.9 |
| | | | 6.0 | TC | 37089 |
| | | | | SC | 29134 |
| | | | | WPD FT | 8.1 |

| MCFCW-12-4LS-1 COOLING CAPACITIES | | | | | |
|------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| (Primary Coil Only) | | | | | |
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1384 | 45 | 0.20 | 5.0 | TC | 32965 |
| | | | | SC | 26278 |
| | | | | WPD FT | 5.8 |
| | | | 5.5 | TC | 34534 |
| | | | | SC | 27064 |
| | | | | WPD FT | 6.9 |
| | | | 6.0 | TC | 35954 |
| | | | | SC | 27730 |
| | | | | WPD FT | 8.1 |

| MCFCW-12-4LS-1 COOLING CAPACITIES | | | | | |
|------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| (Primary Coil Only) | | | | | |
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1202 | 45 | 0.30 | 5.0 | TC | 31401 |
| | | | | SC | 24311 |
| | | | | WPD FT | 5.8 |
| | | | 5.5 | TC | 32802 |
| | | | | SC | 24983 |
| | | | | WPD FT | 6.9 |
| | | | 6.0 | TC | 34134 |
| | | | | SC | 25560 |
| | | | | WPD FT | 8.1 |

| MCFCW-12-4LS-1 COOLING CAPACITIES | | | | | |
|------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| (Secondary Coil Only) | | | | | |
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1850 | 42 | 0.00 | 5.0 | TC | 19397 |
| | | | | SC | 16263 |
| | | | | WPD FT | 6.9 |
| | | | 5.5 | TC | 20323 |
| | | | | SC | 16702 |
| | | | | WPD FT | 8.2 |
| | | | 6.0 | TC | 21548 |
| | | | | SC | 17099 |
| | | | | WPD FT | 9.7 |

| MCFCW-12-4LS-1 COOLING CAPACITIES | | | | | |
|------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| (Secondary Coil Only) | | | | | |
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1516 | 42 | 0.10 | 5.0 | TC | 18742 |
| | | | | SC | 14958 |
| | | | | WPD FT | 6.9 |
| | | | 5.5 | TC | 19740 |
| | | | | SC | 15357 |
| | | | | WPD FT | 8.2 |
| | | | 6.0 | TC | 20640 |
| | | | | SC | 15716 |
| | | | | WPD FT | 9.7 |

| MCFCW-12-4LS-1 COOLING CAPACITIES | | | | | |
|------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| (Secondary Coil Only) | | | | | |
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1384 | 42 | 0.20 | 5.0 | TC | 18451 |
| | | | | SC | 14447 |
| | | | | WPD FT | 6.9 |
| | | | 5.5 | TC | 19405 |
| | | | | SC | 14828 |
| | | | | WPD FT | 8.2 |
| | | | 6.0 | TC | 20265 |
| | | | | SC | 15171 |
| | | | | WPD FT | 9.7 |

| MCFCW-12-4LS-1 COOLING CAPACITIES | | | | | |
|------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| (Secondary Coil Only) | | | | | |
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1202 | 42 | 0.30 | 5.0 | TC | 17900 |
| | | | | SC | 13612 |
| | | | | WPD FT | 6.9 |
| | | | 5.5 | TC | 18789 |
| | | | | SC | 13966 |
| | | | | WPD FT | 8.2 |
| | | | 6.0 | TC | 19583 |
| | | | | SC | 14283 |
| | | | | WPD FT | 9.7 |

| MCFCW-12-4LS-1 COOLING CAPACITIES (Secondary Coil Only) | | | | | |
|------------------------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1850 | 45 | 0.00 | 5.0 | TC | 17218 |
| | | | | SC | 15650 |
| | | | | WPD FT | 6.9 |
| | | | 5.5 | TC | 18182 |
| | | | | SC | 15841 |
| | | | | WPD FT | 8.2 |
| | | | 6.0 | TC | 18910 |
| | | | | SC | 16187 |
| | | | | WPD FT | 9.7 |

| MCFCW-12-4LS-1 COOLING CAPACITIES (Secondary Coil Only) | | | | | |
|------------------------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1516 | 45 | 0.10 | 5.0 | TC | 16506 |
| | | | | SC | 14168 |
| | | | | WPD FT | 6.9 |
| | | | 5.5 | TC | 17254 |
| | | | | SC | 14522 |
| | | | | WPD FT | 8.2 |
| | | | 6.0 | TC | 18169 |
| | | | | SC | 14838 |
| | | | | WPD FT | 9.7 |

| MCFCW-12-4LS-1 COOLING CAPACITIES (Secondary Coil Only) | | | | | |
|------------------------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1384 | 45 | 0.20 | 5.0 | TC | 16170 |
| | | | | SC | 13669 |
| | | | | WPD FT | 6.9 |
| | | | 5.5 | TC | 16880 |
| | | | | SC | 14006 |
| | | | | WPD FT | 8.2 |
| | | | 6.0 | TC | 17855 |
| | | | | SC | 14309 |
| | | | | WPD FT | 9.7 |

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|------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| (Secondary Coil Only) | | | | | |
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1202 | 45 | 0.30 | 5.0 | TC | 15563 |
| | | | | SC | 12853 |
| | | | | WPD FT | 6.9 |
| | | | 5.5 | TC | 16561 |
| | | | | SC | 13167 |
| | | | | WPD FT | 8.2 |
| | | | 6.0 | TC | 17267 |
| | | | | SC | 13445 |
| | | | | WPD FT | 9.7 |

| MCFCW-12-4LS-1 COOLING CAPACITIES | | | | | |
|------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| (Primary and Secondary Coil) | | | | | |
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1850 | 42 | 0.00 | 5.0 | TC | 45250 |
| | | | | SC | 35362 |
| | | | | WPD FT | 3.9 |
| | | | 5.5 | TC | 47649 |
| | | | | SC | 36648 |
| | | | | WPD FT | 4.7 |
| | | | 6.0 | TC | 49845 |
| | | | | SC | 37793 |
| | | | | WPD FT | 5.6 |

| MCFCW-12-4LS-1 COOLING CAPACITIES | | | | | |
|------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| (Primary and Secondary Coil) | | | | | |
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1516 | 42 | 0.10 | 5.0 | TC | 42495 |
| | | | | SC | 31979 |
| | | | | WPD FT | 3.9 |
| | | | 5.5 | TC | 44620 |
| | | | | SC | 33060 |
| | | | | WPD FT | 4.7 |
| | | | 6.0 | TC | 46580 |
| | | | | SC | 33977 |
| | | | | WPD FT | 5.6 |

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| MCFCW-12-4LS-1 COOLING CAPACITIES (Primary and Secondary Coil) | | | | | |
|-------------------------------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1384 | 42 | 0.20 | 5.0 | TC | 41252 |
| | | | | SC | 30531 |
| | | | | WPD FT | 3.9 |
| | | | 5.5 | TC | 43261 |
| | | | | SC | 31476 |
| | | | | WPD FT | 4.7 |
| | | | 6.0 | TC | 45117 |
| | | | | SC | 32363 |
| | | | | WPD FT | 5.6 |

| MCFCW-12-4LS-1 COOLING CAPACITIES (Primary and Secondary Coil) | | | | | |
|-------------------------------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1202 | 42 | 0.30 | 5.0 | TC | 39192 |
| | | | | SC | 28212 |
| | | | | WPD FT | 3.9 |
| | | | 5.5 | TC | 41046 |
| | | | | SC | 29083 |
| | | | | WPD FT | 4.7 |
| | | | 6.0 | TC | 42727 |
| | | | | SC | 29855 |
| | | | | WPD FT | 5.6 |

| MCFCW-12-4LS-1 COOLING CAPACITIES (Primary and Secondary Coil) | | | | | |
|-------------------------------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1850 | 45 | 0.00 | 5.0 | TC | 41218 |
| | | | | SC | 33652 |
| | | | | WPD FT | 3.9 |
| | | | 5.5 | TC | 43254 |
| | | | | SC | 34844 |
| | | | | WPD FT | 4.7 |
| | | | 6.0 | TC | 45130 |
| | | | | SC | 35871 |
| | | | | WPD FT | 5.6 |

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| MCFCW-12-4LS-1 COOLING CAPACITIES | | | | | |
|------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| (Primary and Secondary Coil) | | | | | |
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1516 | 45 | 0.10 | 5.0 | TC | 38467 |
| | | | | SC | 30355 |
| | | | | WPD FT | 3.9 |
| | | | 5.5 | TC | 40333 |
| | | | | SC | 31284 |
| | | | | WPD FT | 4.7 |
| | | | 6.0 | TC | 41996 |
| | | | | SC | 32136 |
| | | | | WPD FT | 5.6 |

| MCFCW-12-4LS-1 COO32904LING CAPACITIES | | | | | |
|-----------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| (Primary and Secondary Coil) | | | | | |
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1384 | 45 | 0.20 | 5.0 | TC | 37311 |
| | | | | SC | 28916 |
| | | | | WPD FT | 3.9 |
| | | | 5.5 | TC | 39015 |
| | | | | SC | 29767 |
| | | | | WPD FT | 4.7 |
| | | | 6.0 | TC | 40618 |
| | | | | SC | 30528 |
| | | | | WPD FT | 5.6 |

| MCFCW-12-4LS-1 COOLING CAPACITIES | | | | | |
|------------------------------------------|-------------|--------------|-----|------------------------------|---------------------|
| (Primary and Secondary Coil) | | | | | |
| CFM | EWT (°F) | ESP IN WC | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | | 80° D.B. / 67° W.B. |
| 1202 | 45 | 0.30 | 5.0 | TC | 35339 |
| | | | | SC | 26647 |
| | | | | WPD FT | 3.9 |
| | | | 5.5 | TC | 36910 |
| | | | | SC | 27380 |
| | | | | WPD FT | 4.7 |
| | | | 6.0 | TC | 38356 |
| | | | | SC | 28048 |
| | | | | WPD FT | 5.6 |

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MCFCW-12-4LS-1 Hot Water Performance Data

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

| MCFCW-12-4LS-1 HOT WATER CAPACITIES (Primary Coil) | | | | | | | | | | | |
|-------------------------------------------------------|----------------|------------|-----|-----|--------------------------------|-------|-------|-------|-------|-------|--------|
| ENTERING AIR (°F) | NOMINAL CFM | ESP "WC | GPM | WPD | ENTERING WATER TEMPERATURE (F) | | | | | | |
| | | | | | 100° | 110° | 120° | 130° | 140° | 150° | 160° |
| 70 | 1850 | 0.00 | 5.0 | 5.3 | 34311 | 45314 | 56387 | 67518 | 78696 | 89912 | 101158 |
| | | | 5.5 | 6.4 | 35340 | 46688 | 58107 | 69583 | 81107 | 92669 | 104262 |
| | | | 6.0 | 7.5 | 36236 | 47883 | 59600 | 71374 | 83197 | 95058 | 106949 |
| | | | 6.5 | 8.7 | 37022 | 48929 | 60907 | 72941 | 85024 | 97144 | 109295 |

| MCFCW-12-4LS-1 HOT WATER CAPACITIES (Primary Coil) | | | | | | | | | | | |
|-------------------------------------------------------|----------------|------------|-----|-----|--------------------------------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | ESP "WC | GPM | WPD | ENTERING WATER TEMPERATURE (F) | | | | | | |
| | | | | | 100° | 110° | 120° | 130° | 140° | 150° | 160° |
| 70 | 1516 | 0.10 | 5.0 | 5.3 | 31435 | 41491 | 51606 | 61771 | 71975 | 82212 | 92474 |
| | | | 5.5 | 6.4 | 32259 | 42589 | 52978 | 63415 | 73893 | 84402 | 94937 |
| | | | 6.0 | 7.5 | 32970 | 43535 | 54158 | 64829 | 75539 | 86282 | 97050 |
| | | | 6.5 | 8.7 | 33588 | 44356 | 55182 | 66055 | 76967 | 87910 | 98878 |

| MCFCW-12-4LS-1 HOT WATER CAPACITIES (Primary Coil) | | | | | | | | | | | |
|-------------------------------------------------------|----------------|------------|-----|-----|--------------------------------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | ESP "WC | GPM | WPD | ENTERING WATER TEMPERATURE (F) | | | | | | |
| | | | | | 100° | 110° | 120° | 130° | 140° | 150° | 160° |
| 70 | 1384 | 0.20 | 5.0 | 5.3 | 30041 | 39658 | 49329 | 59046 | 68799 | 78582 | 88389 |
| | | | 5.5 | 6.4 | 30777 | 40638 | 50553 | 60513 | 70508 | 80534 | 90582 |
| | | | 6.0 | 7.5 | 31410 | 41479 | 51602 | 61768 | 71970 | 82201 | 92454 |
| | | | 6.5 | 8.7 | 31958 | 42207 | 52509 | 62853 | 73232 | 83639 | 94069 |

| MCFCW-12-4LS-1 HOT WATER CAPACITIES (Primary Coil) | | | | | | | | | | | |
|-------------------------------------------------------|----------------|------------|-----|-----|--------------------------------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | ESP "WC | GPM | WPD | ENTERING WATER TEMPERATURE (F) | | | | | | |
| | | | | | 100° | 110° | 120° | 130° | 140° | 150° | 160° |
| 70 | 1202 | 0.30 | 5.0 | 5.3 | 27945 | 36982 | 45862 | 54884 | 63937 | 73017 | 82116 |
| | | | 5.5 | 6.4 | 28556 | 37787 | 46875 | 56096 | 65348 | 74625 | 83923 |
| | | | 6.0 | 7.5 | 29077 | 38473 | 47736 | 57126 | 66545 | 75990 | 85454 |
| | | | 6.5 | 8.7 | 29526 | 39063 | 48477 | 58010 | 67573 | 77160 | 86766 |

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| MCFCW-12-4LS-1 HOT WATER CAPACITIES (Secondary Coil) | | | | | | | | | | | |
|-----------------------------------------------------------------|----------------|------------|-----|------|--------------------------------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | ESP "WC | GPM | WPD | ENTERING WATER TEMPERATURE (F) | | | | | | |
| | | | | | 100° | 110° | 120° | 130° | 140° | 150° | 160° |
| 70 | 1850 | 0.00 | 5.0 | 6.3 | 18879 | 24691 | 30555 | 36464 | 42411 | 48388 | 54392 |
| | | | 5.5 | 7.6 | 19249 | 25180 | 31163 | 37189 | 43251 | 49343 | 55461 |
| | | | 6.0 | 8.9 | 19571 | 25606 | 31691 | 37818 | 43980 | 50171 | 56386 |
| | | | 6.5 | 10.4 | 19854 | 25980 | 32154 | 38369 | 44618 | 50896 | 57196 |

| MCFCW-12-4LS-1 HOT WATER CAPACITIES (Secondary Coil) | | | | | | | | | | | |
|-----------------------------------------------------------------|----------------|------------|-----|------|--------------------------------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | ESP "WC | GPM | WPD | ENTERING WATER TEMPERATURE (F) | | | | | | |
| | | | | | 100° | 110° | 120° | 130° | 140° | 150° | 160° |
| 70 | 1516 | 0.10 | 5.0 | 6.3 | 17535 | 22918 | 28347 | 33814 | 39313 | 44838 | 50385 |
| | | | 5.5 | 7.6 | 17851 | 23336 | 28865 | 34430 | 40027 | 45649 | 51293 |
| | | | 6.0 | 8.9 | 18125 | 23697 | 29313 | 34964 | 40645 | 46350 | 52076 |
| | | | 6.5 | 10.4 | 18365 | 24014 | 29705 | 35431 | 41185 | 46962 | 52760 |

| MCFCW-12-4LS-1 HOT WATER CAPACITIES (Secondary Coil) | | | | | | | | | | | |
|-----------------------------------------------------------------|----------------|------------|-----|------|--------------------------------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | ESP "WC | GPM | WPD | ENTERING WATER TEMPERATURE (F) | | | | | | |
| | | | | | 100° | 110° | 120° | 130° | 140° | 150° | 160° |
| 70 | 1384 | 0.20 | 5.0 | 6.3 | 16861 | 22049 | 27280 | 32547 | 37843 | 43164 | 48505 |
| | | | 5.5 | 7.6 | 17153 | 22436 | 27760 | 33118 | 38504 | 43914 | 49344 |
| | | | 6.0 | 8.9 | 17407 | 22771 | 28174 | 33611 | 39075 | 44561 | 50067 |
| | | | 6.5 | 10.4 | 17629 | 23064 | 28537 | 34041 | 39573 | 45126 | 50697 |

| MCFCW-12-4LS-1 HOT WATER CAPACITIES (Secondary Coil) | | | | | | | | | | | |
|-----------------------------------------------------------------|----------------|------------|-----|------|--------------------------------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | ESP "WC | GPM | WPD | ENTERING WATER TEMPERATURE (F) | | | | | | |
| | | | | | 100° | 110° | 120° | 130° | 140° | 150° | 160° |
| 70 | 1202 | 0.30 | 5.0 | 6.3 | 15894 | 25712 | 25712 | 30672 | 35658 | 40665 | 45691 |
| | | | 5.5 | 7.6 | 16153 | 26136 | 26136 | 31176 | 36241 | 41326 | 46430 |
| | | | 6.0 | 8.9 | 16377 | 26501 | 26501 | 31610 | 36743 | 41896 | 47066 |
| | | | 6.5 | 10.4 | 16572 | 26820 | 26820 | 31989 | 37181 | 42392 | 47619 |

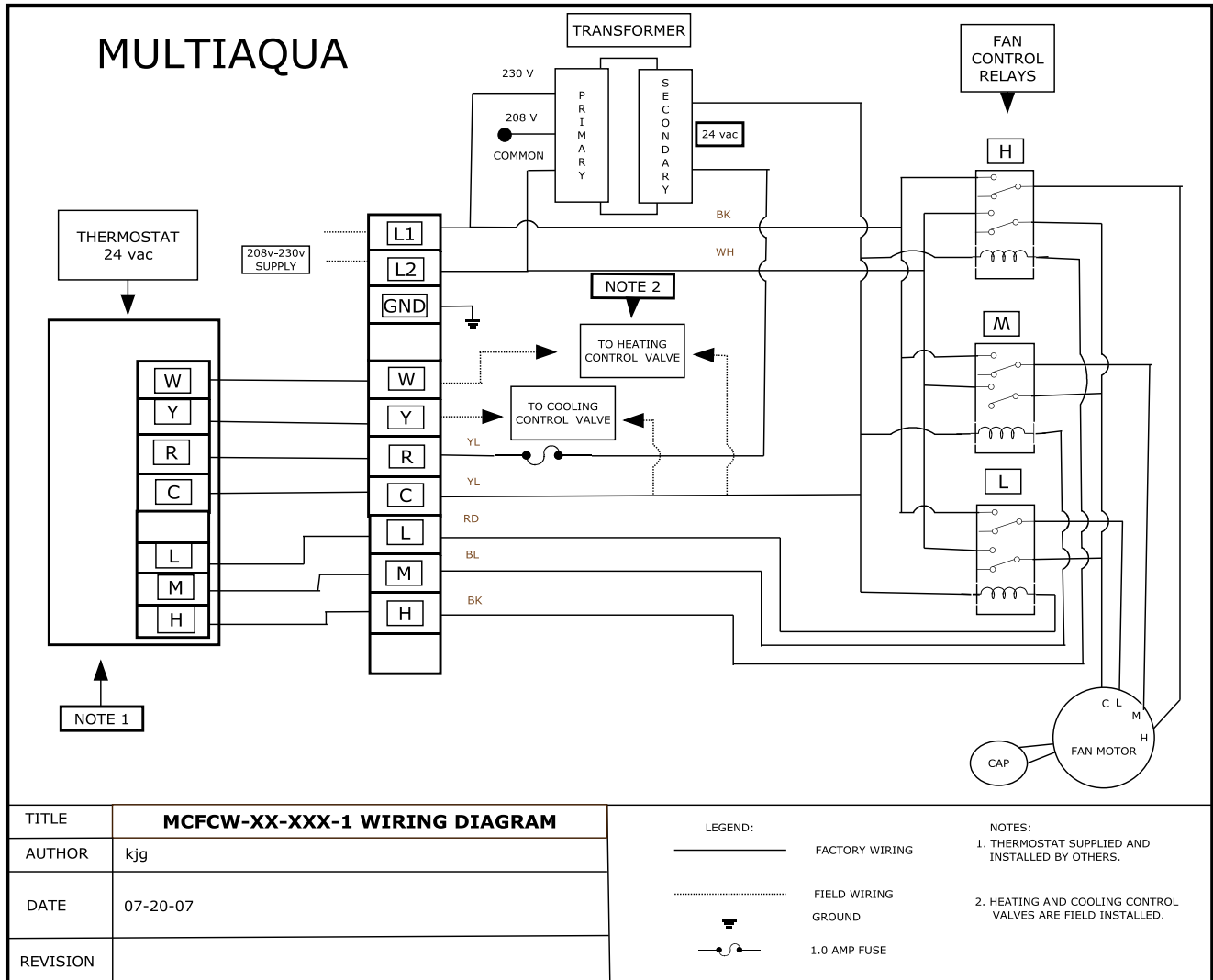
| MCFCW-12-4LS-1 HOT WATER CAPACITIES (Primary and Secondary) | | | | | | | | | | | |
|------------------------------------------------------------------------|----------------|------------|-----|-----|--------------------------------|-------|-------|-------|-------|--------|--------|
| ENTERING AIR (°F) | NOMINAL CFM | ESP "WC | GPM | WPD | ENTERING WATER TEMPERATURE (F) | | | | | | |
| | | | | | 100° | 110° | 120° | 130° | 140° | 150° | 160° |
| 70 | 1850 | 0.0 | 5.0 | 3.7 | 38243 | 50589 | 63016 | 75511 | 88061 | 100656 | 113286 |
| | | | 5.5 | 4.4 | 39496 | 52262 | 65112 | 78030 | 91005 | 104026 | 117083 |
| | | | 6.0 | 5.2 | 40581 | 53710 | 66923 | 80206 | 93545 | 106931 | 120353 |
| | | | 6.5 | 6.0 | 41528 | 54973 | 68501 | 82098 | 95753 | 109453 | 123191 |

| MCFCW-12-4LS-1 HOT WATER CAPACITIES (Primary and Secondary) | | | | | | | | | | | |
|------------------------------------------------------------------------|----------------|------------|-----|-----|--------------------------------|-------|-------|-------|-------|-------|--------|
| ENTERING AIR (°F) | NOMINAL CFM | ESP "WC | GPM | WPD | ENTERING WATER TEMPERATURE (F) | | | | | | |
| | | | | | 100° | 110° | 120° | 130° | 140° | 150° | 160° |
| 70 | 1516 | 0.10 | 5.0 | 3.7 | 34988 | 46256 | 57595 | 68991 | 80436 | 91919 | 103433 |
| | | | 5.5 | 4.4 | 35965 | 47558 | 59221 | 70943 | 82712 | 94521 | 106360 |
| | | | 6.0 | 5.2 | 36799 | 48669 | 60608 | 72605 | 84649 | 96732 | 108845 |
| | | | 6.5 | 6.0 | 37519 | 49626 | 61802 | 74024 | 86312 | 98628 | 110975 |

| MCFCW-12-4LS-1 HOT WATER CAPACITIES (Primary and Secondary) | | | | | | | | | | | |
|------------------------------------------------------------------------|----------------|------------|-----|-----|--------------------------------|-------|-------|-------|-------|-------|--------|
| ENTERING AIR (°F) | NOMINAL CFM | ESP "WC | GPM | WPD | ENTERING WATER TEMPERATURE (F) | | | | | | |
| | | | | | 100° | 110° | 120° | 130° | 140° | 150° | 160° |
| 70 | 1384 | 0.20 | 5.0 | 3.7 | 33400 | 44162 | 54989 | 65870 | 76794 | 87755 | 98744 |
| | | | 5.5 | 4.4 | 34259 | 45306 | 56417 | 67581 | 78789 | 90032 | 101304 |
| | | | 6.0 | 5.2 | 34989 | 46276 | 57627 | 69029 | 80475 | 91955 | 103463 |
| | | | 6.5 | 6.0 | 35614 | 47107 | 58661 | 70266 | 81913 | 93594 | 105303 |

| MCFCW-12-4LS-1 HOT WATER CAPACITIES (Primary and Secondary) | | | | | | | | | | | |
|------------------------------------------------------------------------|----------------|------------|-----|-----|--------------------------------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | ESP "WC | GPM | WPD | ENTERING WATER TEMPERATURE (F) | | | | | | |
| | | | | | 100° | 110° | 120° | 130° | 140° | 150° | 160° |
| 70 | 1202 | 0.30 | 5.0 | 3.7 | 30983 | 50979 | 50979 | 61051 | 71161 | 81303 | 91468 |
| | | | 5.5 | 4.4 | 31675 | 52124 | 52124 | 62420 | 72754 | 83119 | 93507 |
| | | | 6.0 | 5.2 | 32256 | 53083 | 53083 | 63566 | 74086 | 84635 | 95208 |
| | | | 6.5 | 6.0 | 32750 | 53895 | 53895 | 64536 | 75212 | 85916 | 96643 |

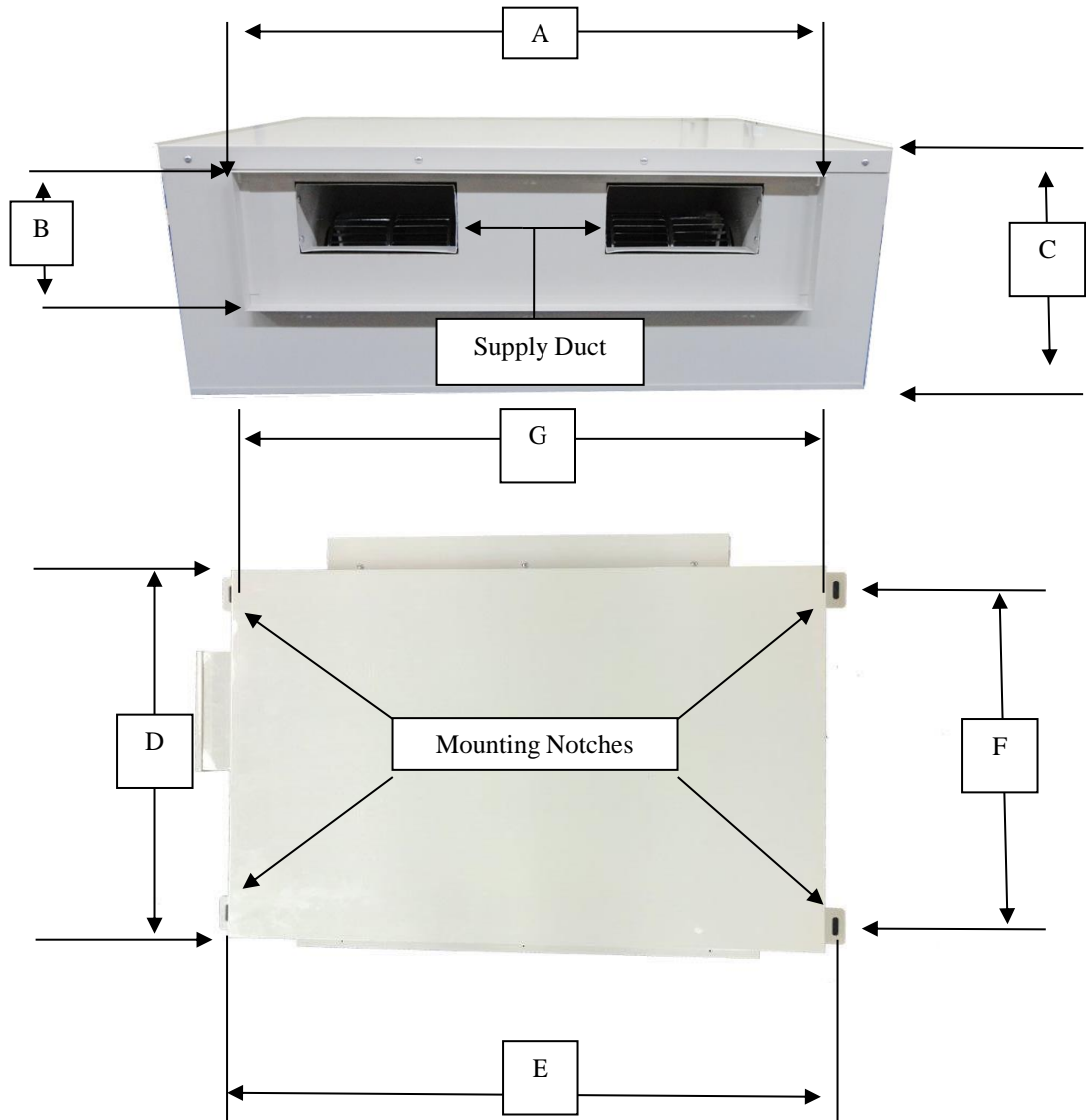
MCFCW-12-4LS-1 Wiring Diagram



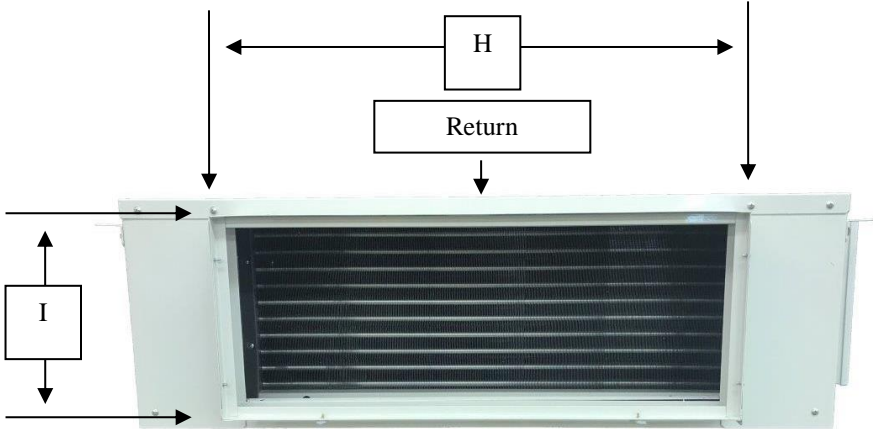
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MCFCW-12-4LS-1 Dimensional Drawing

| FAN COIL DIMENSIONS (in.) | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Fan Coil Model Number | A | B | C | D | E | F | G | H | I |
| MCFCW-12-4LS-01 | 33.00 | 12.00 | 12.25 | 29.25 | 54.92 | 24.25 | 48.00 | 49.00 | 12.00 |



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