



# MHCFC4W-04-01 Chilled/Hot Water Cassette Fan Coil

**4-Pipe Heat / Cool Fan Coil 12,000 BTUH**

# HVAC Guide Specifications

Chilled and Hot Water Cassette Fan Coil

4-Pipe

Nominal Size:

**12,000 BTUH**

MultiAqua Model Number:

**MHCFC4W-04-1**

## Part 1 - General

### 1.01 System Description:

MultiAqua Chilled Water Fan Coils are manufactured with galvanized steel and high impact molded polymers.

### 1.02 Quality Assurance:

- A. ETL 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.

## Part 2 - Product

### 2.01 Equipment:

- A. General:
  1. Unit shall be a factory assembled and tested water fan coil.
  2. Unit shall be assembled with high quality.
  3. Contained within the unit shall be all factory wiring, piping, and associated controls.
- B. Unit Cabinet and Cover:
  1. Cabinet is constructed of galvanized sheet metal.
  2. Cover composed of high impact polymers.
  3. Internally and externally insulated to ensure quiet operation.
- C. Fan Motor and Blower Wheels:
  1. Available in 208/230-1-50/60 VAC.
  2. Fan motor shall be three speed, direct drive, and PSC type.
  3. Fan motor shall be totally enclosed.
  4. Fan motor shall be internal overload protected.
  5. Radial blower wheel is dynamically balanced.
- D. Air Distribution:
  1. Unit contains four manually adjustable discharge air louvers.
- E. Water Coil:
  1. Manufactured with water coils containing copper tubing mechanically bonded to aluminum fins.
  2. Coils are factory tested to 300 psig.
  3. Coils are designed to accept an entering water temperature not to exceed 160°F
  4. Pressure independent flow control required on both coils to not exceed max flow for each coil.  
Consult primary coil and secondary coil data for proper sizing
- F. Drain Pan:
  1. Constructed of injected molded polystyrene.

**G. Filters:**

1. Unit shall contain a woven panel washable filter.

**H. Fresh Air:**

1. Unit shall be able to receive up to 50% filtered fresh air.
2. Fresh air introduced shall be externally fan forced and externally controlled.

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

- A. Fan coils are factory wired and tested.
- B. Unit includes a terminal block that is capable of incorporating a 24 vac, field supplied, hard wired thermostat.

**3.02 Safeties:**

- A. Fan coil contains a renewable fuse on the low voltage side of the transformer.
- B. Coils shall be designed to accept an entering water temperature not to exceed 160°F

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

- A. Electrical line voltage connections shall be made at the factory supplied terminal block.
- B. Factory wiring shall be rated according to UL listing at the time of manufacturing.

**4.02 Installation in high ambient/high humidity environments**

- A. Cabinets are internally insulated from the factory. However, when these units are installed in high ambient/high humidity environments, additional external cabinet insulation may be required.

**Part 5- Definitions****5.01 Abbreviations:**

CFM = Cubic Feet per Minute  
DB = Dry Bulb Temperature  
EWT = Entering Water Temperature  
GPM = US Gallons Per Minute  
MBH = BTU X 1000  
SC = Sensible Cooling  
TC = Total Cooling = Sensible + Latent  
WB = Wet Bulb Temperature  
WPD = Water Pressure Drop in feet of head  
dB = Decibel Level  
m = Meter  
In = Inches  
FP I= Fins per Inch  
OD = Outside Diameter  
ID = Inside Diameter  
MCA = Minimum Circuit Amps  
MOP = Maximum Over current Protection  
LBS = Pounds U.S.

**5.02 Measurements**

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

# MHCFC4W-04-01

## Product Specifications

| Physical Data |                     |                     |              |               |                  |                  |                         |            |
|---------------|---------------------|---------------------|--------------|---------------|------------------|------------------|-------------------------|------------|
| Model Number  | Overall Height (in) | Overall Width* (in) | Width** (in) | Weight (lbs.) | Cooling Rows FPI | Heating Rows FPI | Water Inlet/Outlet (in) | Drain (in) |
| MHCFC4W-04-1  | 16.8                | 26.8                | 22.8         | 50.7          | 2/14             | 1/14             | ¾" FPT                  | 1" barb    |

\*Units are Square. Overall width is the cover dimension. See IOM for drawing details.

\*\* Units are Square. Width is the cabinet dimension. See IOM for drawing details.

| Electrical Data*** |     |                   |             |                |  |     |  |
|--------------------|-----|-------------------|-------------|----------------|--|-----|--|
| Model Number       | CFM | Volts/Phase/Hertz | Motor Watts | Full Load Amps | Fuse or HACR Circuit Breaker or Glass Fuse Per Circuit |     |  |
|                    |     |                   |             |                | MCA  | MOP |  |
| MHCFC4W-04-1       | 380 | 208/230-150/60    | 80          | .4             | 1  | 1   |  |

\*All Electric Data Shown is at 60 hz

# MHCFC4W-04-01 Chilled Water Performance Data

| MHCFC4W-04-01 COOLING CAPACITIES<br>(Primary Coil) |             |      |                              |                     |
|--|-------------|------|------------------------------|---------------------|
| CFM  | EWT<br>(°F) | GPM  | ENTERING AIR TEMPERATURE (F) |                     |
|  |             |      |                              | 80° D.B. / 67° W.B. |
| 380*   | 42          | 1.5  | TC                           | 10898               |
|  |             |      | SC                           | 8409                |
|  |             |      | WPD                          | 4.5                 |
|  |             | 2.0  | TC                           | 12481               |
|  |             |      | SC                           | 9078                |
|  |             |      | WPD                          | 7.6                 |
|  |             | 3.0  | TC                           | 14649               |
|  |             |      | SC                           | 9964                |
|  |             |      | WPD                          | 16.1                |
|  |             | 3.75 | TC                           | 15635               |
|  |             |      | SC                           | 10377               |
|  |             |      | WPD                          | 24.3                |

**\*High Speed**

| MHCFC4W-04-01 COOLING CAPACITIES<br>(Primary Coil) |             |      |                              |                     |
|--|-------------|------|------------------------------|---------------------|
| CFM  | EWT<br>(°F) | GPM  | ENTERING AIR TEMPERATURE (F) |                     |
|  |             |      |                              | 80° D.B. / 67° W.B. |
| 380*   | 45          | 1.5  | TC                           | 9786                |
|  |             |      | SC                           | 7942                |
|  |             |      | WPD                          | 4.5                 |
|  |             | 2.0  | TC                           | 11183               |
|  |             |      | SC                           | 8552                |
|  |             |      | WPD                          | 7.6                 |
|  |             | 3.0  | TC                           | 13022               |
|  |             |      | SC                           | 9307                |
|  |             |      | WPD                          | 16.0                |
|  |             | 3.75 | TC                           | 13902               |
|  |             |      | SC                           | 9660                |
|  |             |      | WPD                          | 24.1                |

**\*High Speed**

**Recommended minimum flow rate for the primary coil at  $\geq 2$  fps is 1.5 gpm**

**Recommended maximum flow rate for the primary coil at  $\leq 6$  fps is 3.75 gpm**

# MHCFC4W-04-01 Hot Water Performance Data

This heating performance data is at dry bulb temperature indicated / wet bulb temperature not considered

| MHCFC4W-04-01 HOT WATER CAPACITIES<br>(Primary Coil) |             |      |      |                                 |       |       |       |       |       |       |       |
|--|-------------|------|------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F)                                    | NOMINAL CFM | GPM  | WPD  | ENTERING WATER TEMPERATURE (°F) |       |       |       |       |       |       |       |
|  |             |      |      | 90°                             | 100°  | 110°  | 120°  | 130°  | 140°  | 150°  | 160°  |
| 50   | 380         | 1.5  | 4.2  | 10614                           | 13282 | 15960 | 18646 | 21338 | 24034 | 26733 | 29435 |
|  |             | 2.0  | 7.0  | 11318                           | 14162 | 17016 | 19878 | 22745 | 25617 | 28492 | 31370 |
|  |             | 3.0  | 14.7 | 12084                           | 15118 | 18160 | 21208 | 24261 | 27317 | 30377 | 33438 |
|  |             | 3.75 | 22.1 | 12412                           | 15526 | 18646 | 21772 | 24903 | 28037 | 31173 | 34311 |

| MHCFC4W-04-01 HOT WATER CAPACITIES<br>(Primary Coil) |             |      |      |                                 |       |       |       |       |       |       |       |
|--|-------------|------|------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F)                                    | NOMINAL CFM | GPM  | WPD  | ENTERING WATER TEMPERATURE (°F) |       |       |       |       |       |       |       |
|  |             |      |      | 90°                             | 100°  | 110°  | 120°  | 130°  | 140°  | 150°  | 160°  |
| 60   | 380         | 1.5  | 4.1  | 7993                            | 10655 | 13327 | 16008 | 18695 | 21388 | 24084 | 26782 |
|  |             | 2.0  | 7.0  | 8516                            | 11354 | 14202 | 17059 | 19922 | 22790 | 25662 | 28536 |
|  |             | 3.0  | 14.7 | 9085                            | 12113 | 15150 | 18194 | 21243 | 24296 | 27353 | 30411 |
|  |             | 3.75 | 22.1 | 9329                            | 12437 | 15554 | 18676 | 21803 | 24934 | 28068 | 31203 |

| MHCFC4W-04-01 HOT WATER CAPACITIES<br>(Primary Coil) |             |      |      |                                 |      |       |       |       |       |       |       |
|--|-------------|------|------|---------------------------------|------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F)                                    | NOMINAL CFM | GPM  | WPD  | ENTERING WATER TEMPERATURE (°F) |      |       |       |       |       |       |       |
|  |             |      |      | 90°                             | 100° | 110°  | 120°  | 130°  | 140°  | 150°  | 160°  |
| 70   | 380         | 1.5  | 4.1  | 5366                            | 8022 | 10689 | 13365 | 16048 | 18737 | 21430 | 24125 |
|  |             | 2.0  | 7.0  | 5710                            | 8542 | 11385 | 14236 | 17095 | 19959 | 22828 | 25699 |
|  |             | 3.0  | 14.6 | 6084                            | 9106 | 12138 | 15177 | 18222 | 21272 | 24326 | 27382 |
|  |             | 3.75 | 22.0 | 6244                            | 9347 | 12459 | 15577 | 18701 | 21828 | 24959 | 28093 |

| MHCFC4W-04-01 HOT WATER CAPACITIES<br>(Primary Coil) |             |      |      |                                 |      |      |       |       |       |       |       |
|--|-------------|------|------|---------------------------------|------|------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F)                                    | NOMINAL CFM | GPM  | WPD  | ENTERING WATER TEMPERATURE (°F) |      |      |       |       |       |       |       |
|  |             |      |      | 90°                             | 100° | 110° | 120°  | 130°  | 140°  | 150°  | 160°  |
| 80   | 380         | 1.5  | 4.1  | 2735                            | 5385 | 8047 | 10719 | 13398 | 16083 | 18773 | 21466 |
|  |             | 2.0  | 6.9  | 2900                            | 5727 | 8565 | 11412 | 14266 | 17127 | 19992 | 22861 |
|  |             | 3.0  | 14.6 | 3080                            | 6097 | 9125 | 12160 | 15201 | 18248 | 21299 | 24352 |
|  |             | 3.75 | 22.0 | 3157                            | 6256 | 9363 | 12478 | 15598 | 18723 | 21851 | 24983 |

Heating at ANSI/AHRI 440 with addendum 1, 6.3.2 Table 1 as follows:

| MHCFC4W-04-01 HOT WATER CAPACITY (Primary coil) |      |                                 |
|---|------|---------------------------------|
| ENTERING AIR TEMPERATURE                        | GPM  | ENTERING WATER TEMPERATURE 140F |
| 70F DB / 60F WB                                 | 1.5  | 18863                           |
|   | 2.0  | 20110                           |
|   | 3.0  | 21449                           |
|   | 3.75 | 22017                           |

# MHCFC4W-04-01 Chilled Water Performance Data

| MHCFC4W-04-01 COOLING CAPACITIES<br>(Secondary Coil) |             |      |                              |                     |
|--|-------------|------|------------------------------|---------------------|
| CFM  | EWT<br>(°F) | GPM  | ENTERING AIR TEMPERATURE (F) |                     |
|  |             |      |                              | 80° D.B. / 67° W.B. |
| 380*   | 42          | .75  | TC                           | 6133                |
|  |             |      | SC                           | 5263                |
|  |             |      | WPD                          | 4.8                 |
|  |             | 1.0  | TC                           | 7118                |
|  |             |      | SC                           | 5740                |
|  |             |      | WPD                          | 8.1                 |
|  |             | 1.25 | TC                           | 8002                |
|  |             |      | SC                           | 6079                |
|  |             |      | WPD                          | 12.2                |
|  |             | 1.5  | TC                           | 8755                |
|  |             |      | SC                           | 6360                |
|  |             |      | WPD                          | 17.1                |

**\*High Speed**

| MHCFC4W-04-01 COOLING CAPACITIES<br>(Secondary Coil) |             |      |                              |                     |
|--|-------------|------|------------------------------|---------------------|
| CFM  | EWT<br>(°F) | GPM  | ENTERING AIR TEMPERATURE (F) |                     |
|  |             |      |                              | 80° D.B. / 67° W.B. |
| 380*   | 45          | .75  | TC                           | 5550                |
|  |             |      | SC                           | 4988                |
|  |             |      | WPD                          | 4.8                 |
|  |             | 1.0  | TC                           | 6380                |
|  |             |      | SC                           | 5442                |
|  |             |      | WPD                          | 8.1                 |
|  |             | 1.25 | TC                           | 7107                |
|  |             |      | SC                           | 5758                |
|  |             |      | WPD                          | 12.2                |
|  |             | 1.5  | TC                           | 7704                |
|  |             |      | SC                           | 5983                |
|  |             |      | WPD                          | 17.0                |

**\*High Speed**

**Recommended minimum flow rate for the secondary coil at  $\geq 2$  fps is .75 gpm**

**Recommended maximum flow rate for the secondary coil at  $\leq 6$  fps is 1.75 gpm**

# MHCFC4W-04-01 Hot Water Performance Data

This heating performance data is at dry bulb temperature indicated / wet bulb temperature not considered

| MHCFC4W-04-01 HOT WATER CAPACITIES<br>(Secondary Coil) |             |      |      |                                 |      |       |       |       |       |       |       |
|--|-------------|------|------|---------------------------------|------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F)                                      | NOMINAL CFM | GPM  | WPD  | ENTERING WATER TEMPERATURE (°F) |      |       |       |       |       |       |       |
|  |             |      |      | 90°                             | 100° | 110°  | 120°  | 130°  | 140°  | 150°  | 160°  |
| 50   | 380         | .75  | 4.5  | 6725                            | 8393 | 10069 | 11750 | 13436 | 15125 | 16816 | 18509 |
|  |             | 1.0  | 7.5  | 7317                            | 9136 | 10962 | 12795 | 14632 | 16473 | 18316 | 20161 |
|  |             | 1.25 | 11.2 | 7716                            | 9636 | 11563 | 13495 | 15433 | 17373 | 19316 | 21261 |
|  |             | 1.5  | 15.6 | 8006                            | 9998 | 11997 | 14002 | 16011 | 18023 | 20037 | 22053 |

| MHCFC4W-04-01 HOT WATER CAPACITIES<br>(Secondary Coil) |             |      |      |                                 |      |       |       |       |       |       |       |
|--|-------------|------|------|---------------------------------|------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F)                                      | NOMINAL CFM | GPM  | WPD  | ENTERING WATER TEMPERATURE (°F) |      |       |       |       |       |       |       |
|  |             |      |      | 90°                             | 100° | 110°  | 120°  | 130°  | 140°  | 150°  | 160°  |
| 60   | 380         | .75  | 4.4  | 5092                            | 6756 | 8428  | 10106 | 11789 | 13475 | 15164 | 16855 |
|  |             | 1.0  | 7.5  | 5532                            | 7346 | 9169  | 10988 | 12832 | 14669 | 16510 | 18353 |
|  |             | 1.25 | 11.2 | 5828                            | 7743 | 9666  | 11595 | 13529 | 15467 | 17407 | 19349 |
|  |             | 1.5  | 15.6 | 6044                            | 8031 | 10026 | 12027 | 14033 | 16402 | 18054 | 20068 |

| MHCFC4W-04-01 HOT WATER CAPACITIES<br>(Secondary Coil) |             |      |      |                                 |      |      |       |       |       |       |       |
|--|-------------|------|------|---------------------------------|------|------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F)                                      | NOMINAL CFM | GPM  | WPD  | ENTERING WATER TEMPERATURE (°F) |      |      |       |       |       |       |       |
|  |             |      |      | 90°                             | 100° | 110° | 120°  | 130°  | 140°  | 150°  | 160°  |
| 70   | 380         | .75  | 4.4  | 3454                            | 5114 | 6783 | 8458  | 10138 | 11822 | 13509 | 15197 |
|  |             | 1.0  | 7.4  | 3743                            | 5553 | 7371 | 9197  | 11028 | 12863 | 14701 | 16541 |
|  |             | 1.25 | 11.1 | 3937                            | 5848 | 7767 | 9692  | 11623 | 13558 | 15496 | 17436 |
|  |             | 1.5  | 15.5 | 4079                            | 6062 | 8053 | 10050 | 12053 | 14059 | 16069 | 18080 |

| MHCFC4W-04-01 HOT WATER CAPACITIES<br>(Secondary Coil) |             |      |      |                                 |      |      |      |       |       |       |       |
|--|-------------|------|------|---------------------------------|------|------|------|-------|-------|-------|-------|
| ENTERING AIR (°F)                                      | NOMINAL CFM | GPM  | WPD  | ENTERING WATER TEMPERATURE (°F) |      |      |      |       |       |       |       |
|  |             |      |      | 90°                             | 100° | 110° | 120° | 130°  | 140°  | 150°  | 160°  |
| 80   | 380         | .75  | 4.4  | 1811                            | 3468 | 5133 | 6806 | 8483  | 10165 | 11850 | 13537 |
|  |             | 1.0  | 7.4  | 1950                            | 3756 | 5571 | 7393 | 9221  | 11054 | 12890 | 14728 |
|  |             | 1.25 | 11.1 | 2044                            | 3950 | 5865 | 7787 | 9715  | 11647 | 13583 | 15521 |
|  |             | 1.5  | 15.5 | 2112                            | 4091 | 6078 | 8072 | 10072 | 12075 | 14082 | 16092 |

Heating at ANSI/AHRI 440 with addendum 1, 6.3.2 Table 1 as follows:

| MHCFC4W-04-01 HOT WATER CAPACITY (Secondary Coil) |      |                                 |
|---|------|---------------------------------|
| ENTERING AIR TEMPERATURE                          | GPM  | ENTERING WATER TEMPERATURE 140F |
| 70F DB / 60F WB                                   | .75  | 11865                           |
|   | 1.0  | 12917                           |
|   | 1.25 | 13619                           |
|   | 1.5  | 14126                           |



# MHCFC4W-04-01 Chilled Water Performance Data

| MHCFC4W-04-01 COOLING CAPACITIES<br>(Both Coils) |             |     |                              |                     |
|--|-------------|-----|------------------------------|---------------------|
| CFM  | EWT<br>(°F) | GPM | ENTERING AIR TEMPERATURE (F) |                     |
|  |             |     |                              | 80° D.B. / 67° W.B. |
| 380*   | 42          | 2.5 | TC                           | 15591               |
|  |             |     | SC                           | 10813               |
|  |             |     | WPD                          | 5.7                 |
|  |             | 3.5 | TC                           | 17635               |
|  |             |     | SC                           | 11692               |
|  |             |     | WPD                          | 10.6                |
|  |             | 4.5 | TC                           | 18992               |
|  |             |     | SC                           | 12278               |
|  |             |     | WPD                          | 16.9                |
|  |             | 5.5 | TC                           | 19851               |
|  |             |     | SC                           | 12658               |
|  |             |     | WPD                          | 24.4                |

**\*High Speed**

| MHCFC4W-04-01 COOLING CAPACITIES<br>(Both Coils) |             |     |                              |                     |
|--|-------------|-----|------------------------------|---------------------|
| CFM  | EWT<br>(°F) | GPM | ENTERING AIR TEMPERATURE (F) |                     |
|  |             |     |                              | 80° D.B. / 67° W.B. |
| 380*   | 45          | 2.5 | TC                           | 13974               |
|  |             |     | SC                           | 10138               |
|  |             |     | WPD                          | 5.7                 |
|  |             | 3.5 | TC                           | 15796               |
|  |             |     | SC                           | 10905               |
|  |             |     | WPD                          | 10.6                |
|  |             | 4.5 | TC                           | 16961               |
|  |             |     | SC                           | 11396               |
|  |             |     | WPD                          | 16.8                |
|  |             | 5.5 | TC                           | 17724               |
|  |             |     | SC                           | 11719               |
|  |             |     | WPD                          | 24.3                |

**\*High Speed**

**Pressure independent flow control required on both coils to not exceed max flow for each coil  
Consult primary coil and secondary coil data for proper sizing**

**Recommended minimum flow rate for both coils piped in parallel at  $\geq$  2fps is 2.0 gpm**

**Recommended minimum flow rate for both coils piped in parallel at  $\leq$  6fps is 5.75 gpm**

# MHCFC4W-04-01 Hot Water Performance Data

This heating performance data is at dry bulb temperature indicated / wet bulb temperature not considered

| MHCFC4W-04-01 HOT WATER CAPACITIES<br>(Both Coils) |             |     |      |                                 |       |       |       |       |       |       |       |
|--|-------------|-----|------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F)                                  | NOMINAL CFM | GPM | WPD  | ENTERING WATER TEMPERATURE (°F) |       |       |       |       |       |       |       |
|  |             |     |      | 90°                             | 100°  | 110°  | 120°  | 130°  | 140°  | 150°  | 160°  |
| 50   | 380         | 2.5 | 5.3  | 13350                           | 16706 | 20071 | 23443 | 26819 | 30199 | 33580 | 36964 |
|  |             | 3.5 | 9.7  | 13978                           | 17489 | 21007 | 24530 | 28057 | 31588 | 35120 | 38588 |
|  |             | 4.5 | 15.4 | 14330                           | 17927 | 21529 | 25135 | 28745 | 32358 | 35973 | 39588 |
|  |             | 5.5 | 22.2 | 14554                           | 18204 | 21859 | 25518 | 29180 | 32844 | 36509 | 40176 |

| MHCFC4W-04-01 HOT WATER CAPACITIES<br>(Both Coils) |             |     |      |                                 |       |       |       |       |       |       |       |
|--|-------------|-----|------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F)                                  | NOMINAL CFM | GPM | WPD  | ENTERING WATER TEMPERATURE (°F) |       |       |       |       |       |       |       |
|  |             |     |      | 90°                             | 100°  | 110°  | 120°  | 130°  | 140°  | 150°  | 160°  |
| 60   | 380         | 2.5 | 5.2  | 10031                           | 13382 | 16742 | 20109 | 23481 | 26858 | 30237 | 33618 |
|  |             | 3.5 | 9.7  | 10498                           | 14004 | 17517 | 21037 | 24561 | 28088 | 31318 | 35150 |
|  |             | 4.5 | 15.3 | 10759                           | 14352 | 17950 | 21554 | 25161 | 28771 | 32384 | 35998 |
|  |             | 5.5 | 22.1 | 10926                           | 14572 | 18224 | 21880 | 25540 | 29202 | 32866 | 36531 |

| MHCFC4W-04-01 HOT WATER CAPACITIES<br>(Both Coils) |             |     |      |                                 |       |       |       |       |       |       |       |
|--|-------------|-----|------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F)                                  | NOMINAL CFM | GPM | WPD  | ENTERING WATER TEMPERATURE (°F) |       |       |       |       |       |       |       |
|  |             |     |      | 90°                             | 100°  | 110°  | 120°  | 130°  | 140°  | 150°  | 160°  |
| 70   | 380         | 2.5 | 5.2  | 6708                            | 10053 | 13408 | 16771 | 20140 | 23513 | 26889 | 30267 |
|  |             | 3.5 | 9.7  | 7014                            | 10516 | 14025 | 17541 | 21061 | 24586 | 28113 | 31643 |
|  |             | 4.5 | 15.3 | 7186                            | 10774 | 14369 | 17969 | 21574 | 25181 | 28791 | 32403 |
|  |             | 5.5 | 22.1 | 7296                            | 10938 | 14587 | 18240 | 21897 | 25557 | 29219 | 32882 |

| MHCFC4W-04-01 HOT WATER CAPACITIES<br>(Both Coils) |             |     |      |                                 |      |       |       |       |       |       |       |
|--|-------------|-----|------|---------------------------------|------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F)                                  | NOMINAL CFM | GPM | WPD  | ENTERING WATER TEMPERATURE (°F) |      |       |       |       |       |       |       |
|  |             |     |      | 90°                             | 100° | 110°  | 120°  | 130°  | 140°  | 150°  | 160°  |
| 80   | 380         | 2.5 | 5.2  | 3382                            | 6723 | 10073 | 13432 | 16798 | 20168 | 23541 | 26917 |
|  |             | 3.5 | 9.6  | 3530                            | 7026 | 10532 | 14044 | 17562 | 21084 | 24609 | 28136 |
|  |             | 4.5 | 15.3 | 3612                            | 7196 | 10788 | 14385 | 17987 | 21592 | 25201 | 28811 |
|  |             | 5.5 | 22.1 | 3665                            | 7304 | 10950 | 14601 | 18255 | 21913 | 25573 | 29236 |

Heating at ANSI/AHRI 440 with addendum 1, 6.3.2 Table 1 as follows:

| MHCFC4W-04-01 HOT WATER CAPACITY (Both Coils) |     |                                 |
|---|-----|---------------------------------|
| ENTERING AIR TEMPERATURE                      | GPM | ENTERING WATER TEMPERATURE 140F |
| 70F DB / 60F WB                               | 2.5 | 23741                           |
|   | 3.5 | 24847                           |
|   | 4.5 | 25461                           |
|   | 5.5 | 25850                           |

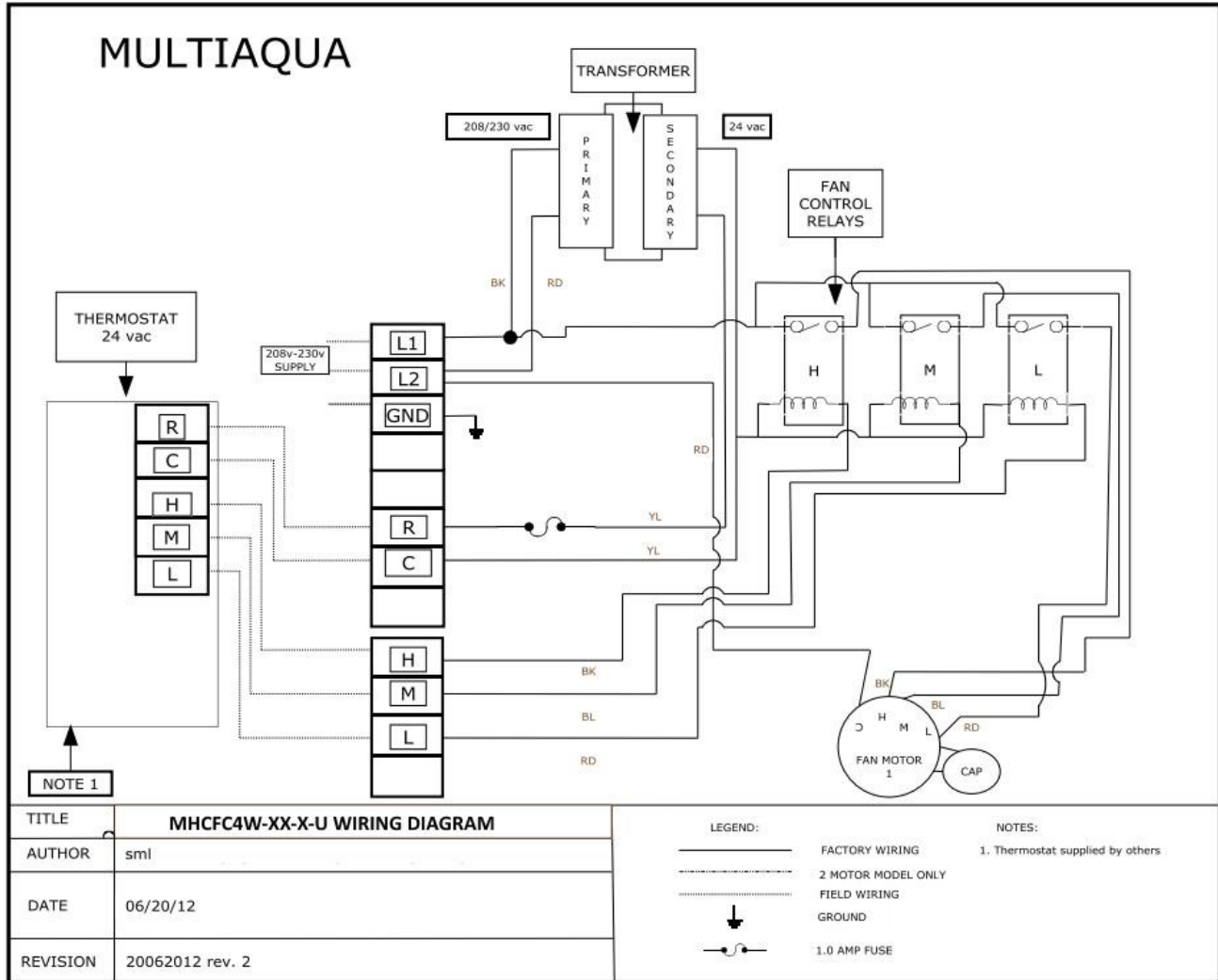
## MHCFC4W-04-01 CFM Data

|                         |                 |
|-------------------------|-----------------|
| MODEL #                 | CFFWA4P-04-01-U |
| Fan Speed               | CFM             |
| L                       | 320             |
| M                       | 350             |
| H                       | 380             |
| Wattage @<br>High Speed | 80              |

## MHCFC4W-04-01 Sound Data

| MODEL #   | MHCFC4W-04-01 |
|-----------|---------------|
| Fan Speed | dB @ 1 m      |
| H         | 41            |
| M         | 38            |
| L         | 35            |

# MHCFC4W-04-01 Wiring Diagram



See Installation and Operation Manual  
for Dimensional Drawings

