



CFFWA4P-12-1-U Chilled/Hot Water Universal Mount Fan Coil (4-Pipe)

4-Pipe Heat / Cool Fan Coil 36,000 BTUH

HVAC Guide Specifications

Chilled and Hot Water Universal Mount Fan Coil

4-Pipe Nominal Size:

36,000 BTUH

Multiaqua Model Number:

CFFWA4P-12-1-U

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. 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 electrically 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 high quality.
 - 3. Contained with the unit shall be all factory wiring, piping, associated controls.
- B. Unit Cabinet:
 - 1. Composed of galvanized steel with baked polyester powder and high impact polymers.
 - 2. Coil Compartment 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.
 - 5. Unit shall contain a swing motor to distribute the discharge air.
- D. Blower Wheels:
 - 1. Blower wheels are double entry and dynamically balanced.
- E. Water Coils:
 - 1. Manufactured with water coils containing 3/8" copper tubing mechanically bonded to aluminum fins.
 - 2. Maximum operating pressure is 150 psig.
 - 3. Maximum inlet water temperature 160° F
 - 4. Primary coil and Secondary coil connections are opposite ends and are non reversible.
 - 5. Pressure independent flow control required on both coils to not exceed max flow for each coil.
 - i. Consult primary coil and secondary coil data for proper sizing
- F. 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 drain tubing that is accessible from the back, bottom and side of the unit.
- G. Filters:
 - 1. Unit shall contain washable filters.

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

- A. Fan coils shall be completely factory wired and tested.
- B. Unit shall include a terminal block that is capable of incorporating a field supplied 24 VAC thermostat.
- C. Controls shall be capable of incorporating a field supplied three speed fan speed switch and or thermostat.

3.02 Safeties:

- A. Fan coil shall contain a field renewable fuse on the secondary voltage side of the transformer.
- B. Fan coil shall contain a non renewable thermal protector on the primary voltage side of the transformer.

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

- A. Electrical shall include a terminal block for both high voltage and low voltage.
- B. Electrical power supply shall be rated to withstand 120°F operating ambient temperatures.

Part 5- Definitions:**5.01 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.

5.02 Measurements

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

CFFWA4P-12-1-U Product Specifications

| Physical Data | | | | | | | | | |
|----------------------|-------------|-------------|------------|---------------|-----------------------|------------------------------|-------------------------|-----------------------------|--------------------------|
| Model Number | Height (in) | Length (in) | Depth (in) | Weight (lbs.) | Primary Coil Rows FPI | Water Inlet / Outlet OD (in) | Secondary Coil Rows FPI | Water Inlet/ Outlet OD (in) | Drain Connection ID (in) |
| CFFWA4P-12-1-U | 11.3 | 76.7 | 28.3 | 132.3 | 3-14 | .750 | 1/14 | .750 | 1" tube |

All dimensions rounded up to nearest tenth of an inch. All dimensions are as the unit is horizontal/ceiling mounted.

| Electrical Data | | | | | | |
|------------------------|----------------|---------------------|-----------------------|------------------------------|--|-----|
| Model Number | High Speed CFM | Volts/ Phase/ Hertz | Fan Motor (Qty) Watts | Fan Motor Full Load Ampacity | Fuse or HACR Circuit Breaker Per Circuit | |
| | | | | | MCA | MOP |
| CFFWA4P-12-1-U | 1100 | 208/230-1-50/60 | (2)177 | 2.3 | 2.59 | 3.0 |

CFFWA4P-12-1-U Chilled Water Performance Data

| CFFWA4P-12-01-U COOLING CAPACITIES (Primary Coil) | | | | |
|--|-------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | 80° D.B. / 67° W.B. |
| 1100* | 42 | 4.0 | TC | 29634 |
| | | | SC | 23053 |
| | | | WPD | 5.2 |
| | | 5.0 | TC | 33507 |
| | | | SC | 24791 |
| | | | WPD | 7.8 |
| | | 6.0 | TC | 36503 |
| | | | SC | 26153 |
| | | | WPD | 11.0 |
| | | 7.0 | TC | 38832 |
| | | | SC | 27263 |
| | | | WPD | 14.6 |

***High Speed**

| CFFWA4P-12-01-U COOLING CAPACITIES (Primary Coil) | | | | |
|--|-------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | 80° D.B. / 67° W.B. |
| 1100* | 45 | 4.0 | TC | 26675 |
| | | | SC | 21914 |
| | | | WPD | 5.1 |
| | | 5.0 | TC | 29878 |
| | | | SC | 23390 |
| | | | WPD | 7.8 |
| | | 6.0 | TC | 32575 |
| | | | SC | 24579 |
| | | | WPD | 10.9 |
| | | 7.0 | TC | 34620 |
| | | | SC | 25595 |
| | | | WPD | 14.6 |

***High Speed**

Recommended minimum flow rate for the primary coil at ≥ 2 fps is 3.5 gpm

Recommended maximum flow rate for the primary coil at ≤ 6 fps is 9.75 gpm

CFFWA4P-12-1-U Hot Water Performance Data

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

| CFFWA4P-12-01-U HOT WATER CAPACITIES (Primary Coil) | | | | | | | | | | | | | |
|--|-------------|-----|------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| ENTERING AIR (°F) | NOMINAL CFM | GPM | WPD | ENTERING WATER TEMPERATURE (°F) | | | | | | | | | |
| | | | | 90° | 100° | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
| 50 | 1100 | 4.0 | 4.8 | 30813 | 38575 | 46377 | 54212 | 62073 | 69954 | 77850 | 85757 | 93672 | 101590 |
| | | 5.0 | 7.3 | 32524 | 40716 | 48948 | 57211 | 65499 | 73807 | 82129 | 90463 | 98804 | 107149 |
| | | 6.0 | 10.2 | 33725 | 42217 | 50745 | 59303 | 67884 | 76483 | 85097 | 93721 | 102353 | 110989 |
| | | 7.0 | 13.6 | 34611 | 43321 | 52065 | 60836 | 69630 | 78440 | 87264 | 96097 | 104938 | 113784 |

| CFFWA4P-12-01-U HOT WATER CAPACITIES (Primary Coil) | | | | | | | | | | | | | |
|--|-------------|-----|------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| ENTERING AIR (°F) | NOMINAL CFM | GPM | WPD | ENTERING WATER TEMPERATURE (°F) | | | | | | | | | |
| | | | | 90° | 100° | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
| 60 | 1100 | 4.0 | 4.8 | 23231 | 30969 | 38750 | 46565 | 54408 | 62274 | 70156 | 78051 | 85954 | 93863 |
| | | 5.0 | 7.3 | 24498 | 32667 | 40877 | 49121 | 57391 | 65683 | 73992 | 82313 | 90643 | 98978 |
| | | 6.0 | 10.2 | 25388 | 33857 | 42364 | 50903 | 59467 | 68051 | 76651 | 85264 | 93885 | 102512 |
| | | 7.0 | 13.5 | 26045 | 34733 | 43456 | 52209 | 60986 | 69782 | 78593 | 87416 | 96246 | 105083 |

| CFFWA4P-12-01-U HOT WATER CAPACITIES (Primary Coil) | | | | | | | | | | | | | |
|--|-------------|-----|------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | GPM | WPD | ENTERING WATER TEMPERATURE (°F) | | | | | | | | | |
| | | | | 90° | 100° | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
| 70 | 1100 | 4.0 | 4.8 | 15627 | 23343 | 31103 | 38900 | 46727 | 54577 | 62446 | 70329 | 78222 | 86121 |
| | | 5.0 | 7.2 | 16456 | 24602 | 32791 | 41015 | 49269 | 57546 | 65840 | 74149 | 82468 | 90795 |
| | | 6.0 | 10.2 | 17038 | 25483 | 33970 | 42490 | 51038 | 59607 | 68194 | 76795 | 85405 | 94023 |
| | | 7.0 | 13.5 | 17467 | 26132 | 34836 | 43572 | 52333 | 61115 | 69913 | 78724 | 87544 | 96372 |

| CFFWA4P-12-01-U HOT WATER CAPACITIES (Primary Coil) | | | | | | | | | | | | | |
|--|-------------|-----|------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | GPM | WPD | ENTERING WATER TEMPERATURE (°F) | | | | | | | | | |
| | | | | 90° | 100° | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
| 80 | 1100 | 4.0 | 4.8 | 8003 | 15698 | 23439 | 31219 | 39031 | 46867 | 54723 | 62595 | 70478 | 78369 |
| | | 5.0 | 7.2 | 8397 | 16522 | 24691 | 32898 | 41136 | 49398 | 57680 | 65977 | 74286 | 82604 |
| | | 6.0 | 10.1 | 8674 | 17099 | 25566 | 34069 | 42600 | 51156 | 59730 | 68319 | 76920 | 85529 |
| | | 7.0 | 13.5 | 8879 | 17523 | 26208 | 34927 | 43673 | 52441 | 61227 | 70027 | 78838 | 87657 |

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

| CFFWA4P-12-01-U HOT WATER CAPACITY (Primary Coil) | | |
|---|-----|---------------------------------|
| ENTERING AIR TEMPERATURE | GPM | ENTERING WATER TEMPERATURE 140F |
| 70F DB / 60F WB | 4.0 | 54913 |
| | 5.0 | 57936 |
| | 6.0 | 60039 |
| | 7.0 | 61579 |

CFFWA4P-12-1-U Chilled Water Performance Data

| CFFWA4P-12-01-U COOLING CAPACITIES (Secondary Coil) | | | | |
|--|-------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | 80° D.B. / 67° W.B. |
| 1100* | 42 | 4.0 | TC | 13176 |
| | | | SC | 11777 |
| | | | WPD | 2.7 |
| | | 5.0 | TC | 15059 |
| | | | SC | 12668 |
| | | | WPD | 4.2 |
| | | 6.0 | TC | 16572 |
| | | | SC | 13366 |
| | | | WPD | 5.9 |
| | | 7.0 | TC | 17799 |
| | | | SC | 13926 |
| | | | WPD | 7.9 |

***High Speed**

| CFFWA4P-12-01-U COOLING CAPACITIES (Secondary Coil) | | | | |
|--|-------------|-----|------------------------------|---------------------|
| CFM | EWT (°F) | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | | 80° D.B. / 67° W.B. |
| 1100* | 45 | 4.0 | TC | 11816 |
| | | | SC | 10901 |
| | | | WPD | 2.7 |
| | | 5.0 | TC | 13270 |
| | | | SC | 12009 |
| | | | WPD | 4.2 |
| | | 6.0 | TC | 14634 |
| | | | SC | 12642 |
| | | | WPD | 5.9 |
| | | 7.0 | TC | 15720 |
| | | | SC | 13141 |
| | | | WPD | 7.9 |

***High Speed**

Recommended minimum flow rate for the secondary coil at ≥ 2 fps is 3.5 gpm

Recommended maximum flow rate for the secondary coil at ≤ 6 fps is 9.75 gpm

CFFWA4P-12-1-U Hot Water Performance Data

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

| CFFWA4P-12-01-U HOT WATER CAPACITIES (Secondary Coil) | | | | | | | | | | | | | |
|--|-------------|-----|-----|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | GPM | WPD | ENTERING WATER TEMPERATURE (°F) | | | | | | | | | |
| | | | | 90° | 100° | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
| 50 | 1100 | 4.0 | 2.6 | 16434 | 20528 | 24666 | 28841 | 33045 | 37275 | 41525 | 45793 | 50073 | 54365 |
| | | 5.0 | 4.0 | 17199 | 21478 | 25798 | 30151 | 34532 | 38936 | 43358 | 47795 | 52245 | 56705 |
| | | 6.0 | 5.6 | 17760 | 22174 | 26624 | 31105 | 35612 | 40139 | 44684 | 49242 | 53812 | 58390 |
| | | 7.0 | 7.5 | 18191 | 22706 | 27255 | 31833 | 36434 | 41054 | 45690 | 50339 | 54998 | 59665 |

| CFFWA4P-12-01-U HOT WATER CAPACITIES (Secondary Coil) | | | | | | | | | | | | | |
|--|-------------|-----|-----|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | GPM | WPD | ENTERING WATER TEMPERATURE (°F) | | | | | | | | | |
| | | | | 90° | 100° | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
| 60 | 1100 | 4.0 | 2.6 | 12510 | 16577 | 20690 | 24842 | 29026 | 33236 | 37469 | 41721 | 45987 | 50266 |
| | | 5.0 | 4.0 | 13076 | 17329 | 21625 | 25957 | 30318 | 34704 | 39110 | 43533 | 47969 | 52417 |
| | | 6.0 | 5.6 | 13491 | 17880 | 22308 | 26769 | 31257 | 35768 | 40297 | 44842 | 49399 | 53967 |
| | | 7.0 | 7.5 | 13810 | 18302 | 22830 | 27388 | 31972 | 36577 | 41199 | 45835 | 50482 | 55139 |

| CFFWA4P-12-01-U HOT WATER CAPACITIES (Secondary Coil) | | | | | | | | | | | | | |
|--|-------------|-----|-----|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | GPM | WPD | ENTERING WATER TEMPERATURE (°F) | | | | | | | | | |
| | | | | 90° | 100° | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
| 70 | 1100 | 4.0 | 2.6 | 8574 | 12614 | 16703 | 20833 | 24997 | 29189 | 33405 | 37641 | 41894 | 46160 |
| | | 5.0 | 3.9 | 8943 | 13171 | 17444 | 21755 | 26097 | 30465 | 34856 | 39264 | 43688 | 48124 |
| | | 6.0 | 5.6 | 9214 | 13579 | 17985 | 22426 | 26897 | 31391 | 35906 | 40437 | 44982 | 49539 |
| | | 7.0 | 7.5 | 9423 | 13891 | 18399 | 22939 | 27506 | 32095 | 36703 | 41327 | 45963 | 50609 |

| CFFWA4P-12-01-U HOT WATER CAPACITIES (Secondary Coil) | | | | | | | | | | | | | |
|--|-------------|-----|-----|---------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| ENTERING AIR (°F) | NOMINAL CFM | GPM | WPD | ENTERING WATER TEMPERATURE (°F) | | | | | | | | | |
| | | | | 90° | 100° | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
| 80 | 1100 | 4.0 | 2.6 | 4626 | 8641 | 12707 | 16815 | 20959 | 25134 | 29334 | 33556 | 37795 | 42049 |
| | | 5.0 | 3.9 | 4801 | 9005 | 13255 | 17546 | 21869 | 26221 | 30596 | 34991 | 39402 | 43826 |
| | | 6.0 | 5.6 | 4930 | 9271 | 13656 | 18078 | 22531 | 27010 | 31510 | 36028 | 40562 | 45107 |
| | | 7.0 | 7.5 | 5029 | 9475 | 13963 | 18484 | 23035 | 27609 | 32204 | 36815 | 41441 | 46077 |

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

| CFFWA4P-12-01-U HOT WATER CAPACITY (Secondary Coil) | | |
|---|-----|---------------------------------|
| ENTERING AIR TEMPERATURE | GPM | ENTERING WATER TEMPERATURE 140F |
| 70F DB / 60F WB | 4.0 | 29276 |
| | 5.0 | 30561 |
| | 6.0 | 31494 |
| | 7.0 | 32203 |

CFFWA4P-12-1-U Chilled Water Performance Data

| CFFWA4P-12-01-U COOLING CAPACITIES (Both Coils) | | | | |
|--|-------------|------|------------------------------|-------|
| CFM | EWT (°F) | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | 80° D.B. / 67° W.B. | |
| 1100* | 42 | 8.0 | TC | 41491 |
| | | | SC | 29357 |
| | | | WPD | 6.4 |
| | | 10.0 | TC | 45688 |
| | | | SC | 31189 |
| | | | WPD | 9.8 |
| | | 12.0 | TC | 48510 |
| | | | SC | 32461 |
| | | | WPD | 13.9 |
| | | 14.0 | TC | 51157 |
| | | | SC | 33730 |
| | | | WPD | 18.7 |

***High Speed**

| CFFWA4P-12-01-U COOLING CAPACITIES (Both Coils) | | | | |
|--|-------------|------|------------------------------|-------|
| CFM | EWT (°F) | GPM | ENTERING AIR TEMPERATURE (F) | |
| | | | 80° D.B. / 67° W.B. | |
| 1100* | 45 | 8.0 | TC | 36982 |
| | | | SC | 27546 |
| | | | WPD | 6.4 |
| | | 10.0 | TC | 40646 |
| | | | SC | 29133 |
| | | | WPD | 9.8 |
| | | 12.0 | TC | 43470 |
| | | | SC | 30344 |
| | | | WPD | 13.8 |
| | | 14.0 | TC | 45470 |
| | | | SC | 31227 |
| | | | WPD | 18.6 |

***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 6.75 gpm

Recommended minimum flow rate for both coils piped in parallel at \leq 6fps is 19.5 gpm

CFFWA4P-12-1-U Hot Water Performance Data

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

| CFFWA4P-12-01-U HOT WATER CAPACITIES (Both Coils) | | | | | | | | | | | | | |
|--|-------------|------|------|---------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| ENTERING AIR (°F) | NOMINAL CFM | GPM | WPD | ENTERING WATER TEMPERATURE (°F) | | | | | | | | | |
| | | | | 90° | 100° | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
| 50 | 1100 | 8.0 | 6.1 | 38501 | 48265 | 58080 | 67938 | 77830 | 87750 | 97693 | 107654 | 117628 | 127614 |
| | | 10.0 | 9.3 | 39604 | 49626 | 59692 | 69794 | 79926 | 90082 | 100257 | 110448 | 120650 | 130863 |
| | | 12.0 | 13.2 | 40326 | 50513 | 60738 | 70994 | 81277 | 91580 | 101899 | 112233 | 122576 | 132928 |
| | | 14.0 | 17.8 | 40838 | 51139 | 61474 | 71838 | 82224 | 92628 | 103047 | 113478 | 123918 | 134365 |

| CFFWA4P-12-01-U HOT WATER CAPACITIES (Both Coils) | | | | | | | | | | | | | |
|--|-------------|------|------|---------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| ENTERING AIR (°F) | NOMINAL CFM | GPM | WPD | ENTERING WATER TEMPERATURE (°F) | | | | | | | | | |
| | | | | 90° | 100° | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
| 60 | 1100 | 8.0 | 6.1 | 28949 | 38680 | 48465 | 58295 | 68163 | 78061 | 87983 | 97926 | 107884 | 117855 |
| | | 10.0 | 9.3 | 29764 | 39756 | 49795 | 59873 | 69984 | 80120 | 90278 | 100453 | 110641 | 120841 |
| | | 12.0 | 13.2 | 30298 | 40458 | 50659 | 60894 | 71158 | 81444 | 91748 | 102067 | 112399 | 122740 |
| | | 14.0 | 17.7 | 30677 | 40954 | 51268 | 61612 | 71981 | 82370 | 92776 | 103194 | 113623 | 124061 |

| CFFWA4P-12-01-U HOT WATER CAPACITIES (Both Coils) | | | | | | | | | | | | | |
|--|-------------|------|------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| ENTERING AIR (°F) | NOMINAL CFM | GPM | WPD | ENTERING WATER TEMPERATURE (°F) | | | | | | | | | |
| | | | | 90° | 100° | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
| 70 | 1100 | 8.0 | 6.1 | 19380 | 29078 | 38833 | 48637 | 58480 | 68356 | 78259 | 88184 | 98126 | 108083 |
| | | 10.0 | 9.3 | 19911 | 29874 | 39886 | 49941 | 60029 | 70146 | 80287 | 90446 | 100620 | 110807 |
| | | 12.0 | 13.2 | 20260 | 30393 | 40570 | 50784 | 61028 | 71297 | 81586 | 91892 | 102210 | 112540 |
| | | 14.0 | 17.7 | 20507 | 30760 | 41052 | 51378 | 61729 | 72103 | 82494 | 92901 | 103319 | 113746 |

| CFFWA4P-12-01-U HOT WATER CAPACITIES (Both Coils) | | | | | | | | | | | | | |
|--|-------------|------|------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| ENTERING AIR (°F) | NOMINAL CFM | GPM | WPD | ENTERING WATER TEMPERATURE (°F) | | | | | | | | | |
| | | | | 90° | 100° | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° |
| 80 | 1100 | 8.0 | 6.1 | 9796 | 19462 | 29190 | 38968 | 48788 | 58643 | 68527 | 78465 | 88362 | 98304 |
| | | 10.0 | 9.3 | 10048 | 19982 | 29969 | 40001 | 50069 | 60167 | 70290 | 80434 | 90595 | 100769 |
| | | 12.0 | 13.2 | 10214 | 20321 | 30476 | 40669 | 50894 | 61146 | 71420 | 81712 | 92019 | 102338 |
| | | 14.0 | 17.7 | 10331 | 20561 | 30833 | 41139 | 51474 | 61833 | 72211 | 82605 | 93012 | 103430 |

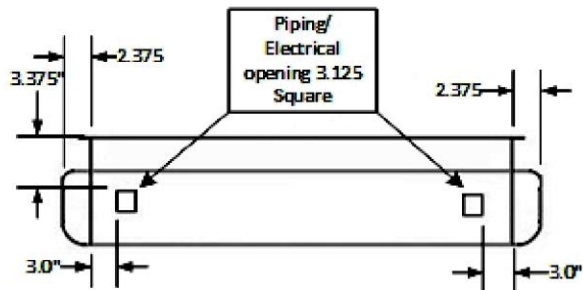
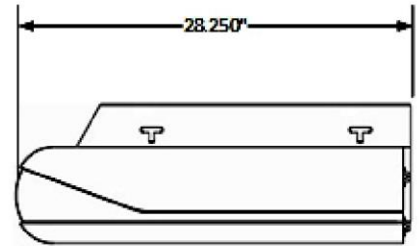
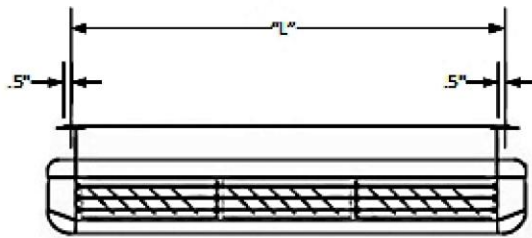
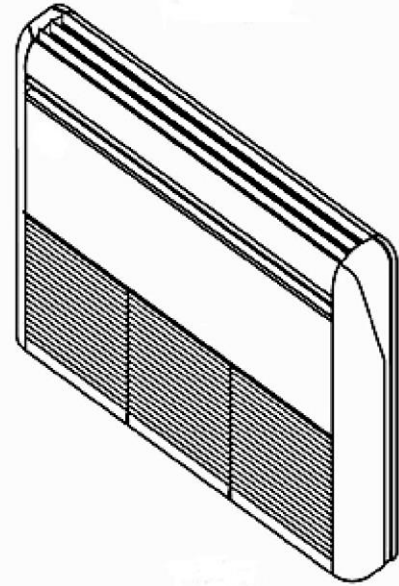
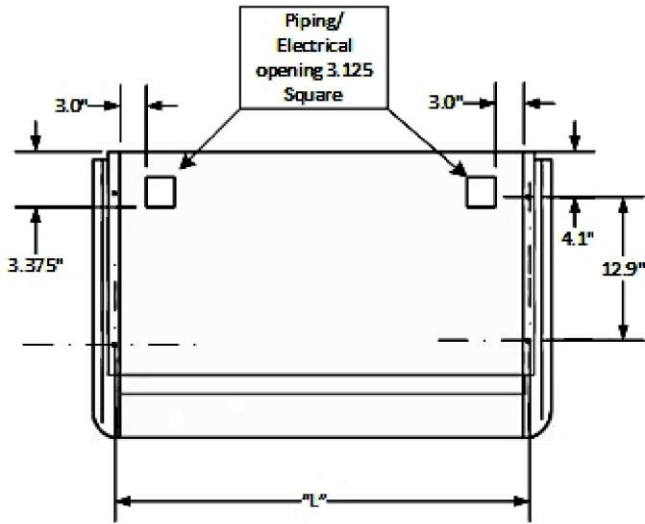
Heating at ANSI/AHRI 440 with addendum 1, 6.3.2 Table 1 as follows:

| CFFWA4P-12-01-U HOT WATER CAPACITY (Both Coils) | | |
|---|------|---------------------------------|
| ENTERING AIR TEMPERATURE | GPM | ENTERING WATER TEMPERATURE 140F |
| 70F DB / 60F WB | 8.0 | 68960 |
| | 10.0 | 70808 |
| | 12.0 | 71999 |
| | 14.0 | 72834 |

CFFWA4P-12-01-U CFM Data

| MODEL # | CFFWA4P-12-01-U |
|-------------------------|-----------------|
| Fan Speed | CFM |
| L | 925 |
| M | 975 |
| H | 1100 |
| Wattage @ High Speed | 292 |

CFFWA4P-12-01-U Dimensional Drawing



| Model | "L" Dimension |
|------------|---------------|
| CFFWA4P-04 | 48.3 |
| CFFWA4P-06 | 48.3 |
| CFFWA4P-08 | 60.1 |
| CFFWA4P-12 | 71.9 |
| CFFWA4P-16 | 83.7 |
| CFFWA4P-20 | 83.7 |

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