



# COPPER-FIN II<sup>®</sup> WATER HEATER PRODUCT SUMMARY

(CF) 400,000 - 2,070,000 BTU/HR

|                                      | CF-0401     | CF-0501     | CF-0651     | CF-0751     | CF-0991     | CF-1261     | CF-1441     | CF-1801     | CF-2071     |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>WATER</b>                         |             |             |             |             |             |             |             |             |             |
| GALLON CAPACITY                      | 1.5         | 1.7         | 1.9         | 2.0         | 3.4         | 3.7         | 4.1         | 4.5         | 4.8         |
| HEATING SURFACE (SQ. FT.)            | 46.9        | 59.0        | 76.8        | 88.1        | 96.0        | 120.2       | 144.0       | 176.0       | 200.0       |
| WATER CONNECTIONS                    | 2"          | 2"          | 2"          | 2"          | 2-1/2"      | 2-1/2"      | 2-1/2"      | 2-1/2"      | 2-1/2"      |
| DRAIN                                | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        |
| WATER FLOW RATE (GPM)                | 55          | 55          | 55          | 55          | 90          | 90          | 90          | 90          | 90          |
| HEAD LOSS (FT. OF HD.)               | 6.4         | 6.5         | 6.7         | 6.8         | 5.8         | 6.6         | 7.2         | 8.4         | 9.2         |
| MAX. WORKING PRESSURE (PSI)          | 160         | 160         | 160         | 160         | 160         | 160         | 160         | 160         | 160         |
| MAX. WATER HARDNESS (GRAINS)         | 25          | 25          | 25          | 25          | 25          | 25          | 25          | 25          | 25          |
| GPH @ 70°F RISE                      | 589         | 736         | 957         | 1,104       | 1,457       | 1,855       | 2,120       | 2,650       | 3,047       |
| GPH @ 100°F RISE                     | 412         | 515         | 670         | 773         | 1,020       | 1,298       | 1,484       | 1,855       | 2,133       |
| GPH @ 140°F RISE                     | 294         | 368         | 479         | 552         | 729         | 927         | 1,060       | 1,325       | 1,524       |
| # OF RELIEF VALVES                   | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 2           |
| RELIEF VALVE SIZE                    | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        |
| RELIEF VALVE RATING (MBH)            | 500         | 1,912       | 1,912       | 1,912       | 1,912       | 1,912       | 1,912       | 1,912       | 1,912       |
| RELIEF VALVE PRESSURE RATING (PSI)   | 150         | 150         | 150         | 150         | 150         | 150         | 150         | 150         | 150         |
| RELIEF VALVE TEMPERATURE RATING (°F) | 210         | 210         | 210         | 210         | 210         | 210         | 210         | 210         | 210         |
| <b>GAS</b>                           |             |             |             |             |             |             |             |             |             |
| INLET CONNECTION                     | 1-1/4"      | 1-1/4"      | 1-1/4"      | 1-1/4"      | 2"          | 2"          | 2"          | 2"          | 2"          |
| MAX. INLET PRESSURE, NAT             | 10.5" w.c.  | 10.5" w.c.  | 10.5" w.c.  | 10.5" w.c.  | 10.5" w.c.  | 10.5" w.c.  | 10.5" w.c.  | 10.5" w.c.  | 10.5" w.c.  |
| MIN. INLET PRESSURE, NAT             | 4.0" w.c.   | 4.0" w.c.   | 4.0" w.c.   | 4.0" w.c.   | 4.0" w.c.   | 4.0" w.c.   | 4.0" w.c.   | 4.0" w.c.   | 4.0" w.c.   |
| MANIFOLD PRESSURE, NAT               | 1.8" w.c.   | 1.8" w.c.   | 1.8" w.c.   | 1.8" w.c.   | 1.2" w.c.   | 1.2" w.c.   | 1.2" w.c.   | 1.2" w.c.   | 1.2" w.c.   |
| MAX. INLET PRESSURE, LP              | 13.0" w.c.  | 13.0" w.c.  | 13.0" w.c.  | 13.0" w.c.  | 13.0" w.c.  | 13.0" w.c.  | 13.0" w.c.  | 13.0" w.c.  | 13.0" w.c.  |
| MIN. INLET PRESSURE, LP              | 8.0" w.c.   | 8.0" w.c.   | 8.0" w.c.   | 8.0" w.c.   | 8.0" w.c.   | 8.0" w.c.   | 8.0" w.c.   | 8.0" w.c.   | 8.0" w.c.   |
| MANIFOLD PRESSURE, LP                | 4.6" w.c.   | 4.6" w.c.   | 4.6" w.c.   | 4.6" w.c.   | 4.6" w.c.   | 4.6" w.c.   | 4.6" w.c.   | 4.6" w.c.   | 4.6" w.c.   |
| BTU/HR INPUT                         | 399,999     | 500,000     | 650,000     | 750,000     | 990,000     | 1,260,000   | 1,440,000   | 1,800,000   | 2,070,000   |
| <b>ELECTRICAL</b>                    |             |             |             |             |             |             |             |             |             |
| VOLTAGE/HEATER                       | 120         | 120         | 120         | 120         | 120         | 120         | 120         | 120         | 120         |
| VOLTAGE/PUMP                         | 120         | 120         | 120         | 120         | 120         | 120         | 120         | 120         | 120         |
| VOLTAGE/CONTROL                      | 24          | 24          | 24          | 24          | 24          | 24          | 24          | 24          | 24          |
| TOTAL AMPS W/PUMP                    | 11.3        | 11.3        | 13.8        | 13.8        | 16.3        | 16.3        | 19.8        | 19.8        | 19.8        |
| # OF ELECTRICAL CONNECTIONS          | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           |
| <b>DIMENSIONS</b>                    |             |             |             |             |             |             |             |             |             |
| HEIGHT                               | 31-1/2"     | 31-1/2"     | 31-1/2"     | 31-1/2"     | 36"         | 36"         | 36"         | 36"         | 36"         |
| WIDTH (INCLUDES PUMP)                | 56-1/4"     | 64"         | 75-1/4"     | 82-1/2"     | 68-3/4"     | 79"         | 89-1/4"     | 102-3/4"    | 113"        |
| DEPTH                                | 22-1/4"     | 22-1/4"     | 22-1/4"     | 22-1/4"     | 33-1/2"     | 33-1/2"     | 33-1/2"     | 33-1/2"     | 33-1/2"     |
| <b>SERVICE CLEARANCES</b>            |             |             |             |             |             |             |             |             |             |
| FRONT                                | 24"         | 24"         | 24"         | 24"         | 30"         | 30"         | 30"         | 30"         | 30"         |
| BACK                                 | 1"          | 1"          | 1"          | 1"          | 3"          | 3"          | 3"          | 3"          | 3"          |
| RIGHT SIDE                           | 1"          | 1"          | 1"          | 1"          | 3"          | 3"          | 3"          | 3"          | 3"          |
| LEFT SIDE (PIPING)                   | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         |
| TOP                                  | 1"          | 1"          | 1"          | 1"          | 3"          | 3"          | 3"          | 3"          | 3"          |
| <b>VENTING</b>                       |             |             |             |             |             |             |             |             |             |
| SIZE                                 | 6"          | 6"          | 8"          | 8"          | 10"         | 12"         | 12"         | 14"         | 14"         |
| VENT CATEGORY                        | I           | I           | I           | I           | I           | I           | I           | I           | I           |
| VENT MATERIAL                        | B-VENT      | B-VENT      | B-VENT      | B-VENT      | B-VENT      | B-VENT      | B-VENT      | B-VENT      | B-VENT      |
| MAXIMUM DRAFT                        | -0.08" w.c. | -0.08" w.c. | -0.08" w.c. | -0.08" w.c. | -0.08" w.c. | -0.08" w.c. | -0.08" w.c. | -0.08" w.c. | -0.08" w.c. |
| MINIMUM DRAFT                        | -0.02" w.c. | -0.02" w.c. | -0.02" w.c. | -0.02" w.c. | -0.02" w.c. | -0.02" w.c. | -0.02" w.c. | -0.02" w.c. | -0.02" w.c. |

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