



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

(CW) 90,000 - 500,000 BTU/HR

|                                      | CW-090      | CW-135      | CW-180      | CW-199      | CW-225      | CW-270      | CW-315      | CW-360      | CW-399      | CW-500      |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>WATER</b>                         |             |             |             |             |             |             |             |             |             |             |
| GALLON CAPACITY                      | 0.8         | 0.8         | 0.9         | 0.9         | 0.9         | 1.0         | 1.0         | 1.0         | 1.1         | 1.2         |
| HEATING SURFACE (SQ. FT.)            | 10.6        | 15.3        | 19.9        | 23.5        | 23.5        | 26.9        | 30.5        | 34.0        | 43.0        | 52.1        |
| WATER CONNECTIONS                    | 2"          | 2"          | 2"          | 2"          | 2"          | 2"          | 2"          | 2"          | 2"          | 2"          |
| DRAIN                                | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        |
| WATER FLOW RATE (GPM)                | 30          | 30          | 30          | 30          | 30          | 30          | 30          | 30          | 30          | 30          |
| HEAD LOSS (FT. OF HD.)               | 5.5         | 5.7         | 5.9         | 6.1         | 6.1         | 6.3         | 6.5         | 6.7         | 6.9         | 7.0         |
| MAX. WORKING PRESSURE (PSI)          | 160         | 160         | 160         | 160         | 160         | 160         | 160         | 160         | 160         | 160         |
| MAX. WATER HARDNESS (GRAINS)         | 25          | 25          | 25          | 25          | 25          | 25          | 25          | 25          | 25          | 25          |
| GPH @ 70°F RISE                      | 127         | 191         | 256         | 283         | 320         | 383         | 447         | 511         | 567         | 710         |
| GPH @ 100°F RISE                     | 89          | 134         | 179         | 198         | 224         | 268         | 313         | 358         | 397         | 497         |
| GPH @ 140°F RISE                     | 64          | 96          | 128         | 141         | 160         | 191         | 224         | 256         | 284         | 355         |
| # OF RELIEF VALVES                   | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           |
| RELIEF VALVE SIZE                    | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        |
| RELIEF VALVE RATING (MBH)            | 500         | 500         | 500         | 500         | 500         | 500         | 500         | 500         | 1,912       | 1,912       |
| RELIEF VALVE PRESSURE RATING (PSI)   | 150         | 150         | 150         | 150         | 150         | 150         | 150         | 150         | 150         | 150         |
| RELIEF VALVE TEMPERATURE RATING (°F) | 210         | 210         | 210         | 210         | 210         | 210         | 210         | 210         | 210         | 210         |
| <b>GAS</b>                           |             |             |             |             |             |             |             |             |             |             |
| INLET CONNECTION                     | 1/2"        | 1/2"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 3/4"        | 1"          | 1"          | 1"          |
| MAX. INLET PRESSURE, NAT             | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    |
| MIN. INLET PRESSURE, NAT             | 4.5" w.c.   | 4.5" w.c.   | 4.5" w.c.   | 4.5" w.c.   | 4.5" w.c.   | 4.5" w.c.   | 4.5" w.c.   | 4.5" w.c.   | 5.0" w.c.   | 5.0" w.c.   |
| MANIFOLD PRESSURE, NAT               | 3.5" w.c.   | 3.5" w.c.   | 3.5" w.c.   | 2.9" w.c.   | 3.5" w.c.   | 3.5" w.c.   | 3.5" w.c.   | 3.5" w.c.   | 3.5" w.c.   | 3.5" w.c.   |
| MAX. INLET PRESSURE, LP              | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    | 14" w.c.    |
| MIN. INLET PRESSURE, LP              | 11.0" w.c.  | 11.0" w.c.  | 11.0" w.c.  | 11.0" w.c.  | 11.0" w.c.  | 11.0" w.c.  | 11.0" w.c.  | 11.0" w.c.  | 11.0" w.c.  | 11.0" w.c.  |
| MANIFOLD PRESSURE, LP                | 10" w.c.    | 10" w.c.    | 10" w.c.    | 7.5" w.c.   | 10" w.c.    | 10" w.c.    | 10" w.c.    | 10" w.c.    | 10" w.c.    | 10" w.c.    |
| BTU/HR INPUT                         | 90,000      | 135,000     | 180,000     | 199,999     | 225,000     | 270,000     | 315,000     | 360,000     | 399,999     | 500,000     |
| <b>ELECTRICAL</b>                    |             |             |             |             |             |             |             |             |             |             |
| VOLTAGE/HEATER                       | 120         | 120         | 120         | 120         | 120         | 120         | 120         | 120         | 120         | 120         |
| VOLTAGE/PUMP                         | 120         | 120         | 120         | 120         | 120         | 120         | 120         | 120         | 120         | 120         |
| VOLTAGE/CONTROL                      | 24          | 24          | 24          | 24          | 24          | 24          | 24          | 24          | 24          | 24          |
| TOTAL AMPS W/PUMP                    | 6.1         | 6.1         | 6.1         | 6.1         | 6.1         | 6.1         | 6.1         | 6.1         | 6.1         | 6.1         |
| # OF ELECTRICAL CONNECTIONS          | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           |
| <b>DIMENSIONS</b>                    |             |             |             |             |             |             |             |             |             |             |
| HEIGHT                               | 29-1/2"     | 29-1/2"     | 29-1/2"     | 29-1/2"     | 29-1/2"     | 29-1/2"     | 29-1/2"     | 29-1/2"     | 29-1/2"     | 34-1/2"     |
| WIDTH (INCLUDES PUMP)                | 25-1/4"     | 29-1/4"     | 33-1/4"     | 36-1/4"     | 36-1/4"     | 39-1/4"     | 42-1/4"     | 45-1/4"     | 54-1/4"     | 62-1/4"     |
| DEPTH                                | 21-1/2"     | 21-1/2"     | 21-1/2"     | 21-1/2"     | 21-1/2"     | 21-1/2"     | 21-1/2"     | 21-1/2"     | 22"         | 22"         |
| <b>SERVICE CLEARANCES</b>            |             |             |             |             |             |             |             |             |             |             |
| FRONT                                | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         |
| BACK                                 | 6"          | 6"          | 6"          | 6"          | 6"          | 6"          | 6"          | 6"          | 6"          | 6"          |
| RIGHT SIDE                           | 6"          | 6"          | 6"          | 6"          | 6"          | 6"          | 6"          | 6"          | 6"          | 6"          |
| LEFT SIDE (PIPING)                   | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         | 24"         |
| TOP                                  | 14"         | 14"         | 14"         | 29"         | 29"         | 29"         | 29"         | 29"         | 29"         | 29"         |
| <b>VENTING</b>                       |             |             |             |             |             |             |             |             |             |             |
| SIZE                                 | 5"          | 6"          | 7"          | 7"          | 7"          | 8"          | 8"          | 9"          | 10"         | 10"         |
| VENT CATEGORY                        | I           | 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      | B-VENT      |
| MAXIMUM DRAFT                        | -0.05" w.c. | -0.05" w.c. | -0.05" w.c. | -0.05" w.c. | -0.05" w.c. | -0.05" w.c. | -0.05" w.c. | -0.05" w.c. | -0.05" w.c. | -0.05" 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. | -0.02" w.c. |

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