

# 390 Selection Table

**NOTES:**

- 1) TABLE SELECTIONS ARE FOR INTERMITTENT OPERATION - If system requires continuous operating pumps consult factory for pump selection.
- 2) Apply firing factor to evaporation rate to obtain actual pump capacity required.
- 3) MODEL NUMBER EXAMPLE:  
391-3 / .75 designates 391-3 pump size with .75 H.P. motor.  
ALL PUMPS ARE 2 POLES OR 3600 RPM MOTOR.
- 4) For selections not shown, please refer to factory.

| BOILER SIZE H.P. | EVAP. RATE IN GPM | PUMP CAPACITY IN GALLONS<br>BOILER OPERATION PRESSURE (PSI) |      |      |      |      |      |      | 281 SIMPLEX<br>(SINGLE BOILER-ONE PUMP) 60 CYCLE |                  |                    | 282 DUPLEX<br>(SINGLE BOILER-ONE STANDBY) 60 CYCLE |                  |                    |
|------------------|-------------------|---|------|------|------|------|------|------|--|------------------|--------------------|--|------------------|--------------------|
|                  |                   |   |      |      |      |      |      |      | TANK CAPACITY GALLONS                            | TANK SIZE INCHES | MAKE-UP VALVE SIZE | TANK CAPACITY GALLONS                              | TANK SIZE INCHES | MAKE-UP VALVE SIZE |
|                  |                   | 15#   | 100# | 125# | 150# | 175# | 200# | 250# |  |                  |                    |  |                  |                    |
| 15               | 1.0               | 2.0   | 4.1  | 4.3  | 4.6  | 4.8  | 5.0  | 5.5  | 30   | 16x37            | 3/4" NPT           | 30   | 16X37            | 3/4" NPT           |
| 20               | 1.4               | 2.4   | 4.5  | 4.7  | 5.0  | 5.2  | 5.4  | 5.9  | 30   | 16x37            | 3/4" NPT           | 30   | 16X37            | 3/4" NPT           |
| 25               | 1.7               | 2.8   | 4.9  | 5.1  | 5.4  | 5.6  | 5.8  | 6.3  | 30   | 16x37            | 3/4" NPT           | 30   | 16X37            | 3/4" NPT           |
| 30               | 2.1               | 3.2   | 5.3  | 5.5  | 5.8  | 6.0  | 6.2  | 6.7  | 30   | 16x37            | 3/4" NPT           | 30   | 16X37            | 3/4" NPT           |
| 40               | 2.8               | 4.0   | 6.1  | 6.3  | 6.6  | 6.8  | 7.0  | 7.4  | 30   | 16x37            | 3/4" NPT           | 30   | 16X37            | 3/4" NPT           |
| 50               | 3.5               | 4.8   | 6.8  | 7.1  | 7.4  | 7.6  | 7.8  | 8.2  | 60   | 22X37            | 3/4" NPT           | 60   | 22X37            | 3/4" NPT           |
| 60               | 4.2               | 5.6   | 7.6  | 7.9  | 8.2  | 8.4  | 8.6  | 9.0  | 60   | 22X37            | 3/4" NPT           | 60   | 22X37            | 3/4" NPT           |
| 70               | 4.8               | 6.4   | 8.4  | 8.7  | 9.0  | 9.2  | 9.4  | 12.9 | 100  | 24X51            | 3/4" NPT           | 100  | 24X51            | 3/4" NPT           |
| 80               | 5.5               | 7.2   | 9.2  | 9.5  | 9.8  | 10.0 | 10.2 | 13.7 | 100  | 24X51            | 3/4" NPT           | 100  | 24X51            | 3/4" NPT           |
| 100              | 6.9               | 8.7   | 10.8 | 11.1 | 11.3 | 11.6 | 11.8 | 15.3 | 100  | 24X51            | 3/4" NPT           | 100  | 24X51            | 3/4" NPT           |
| 125              | 8.6               | 10.7  | 12.8 | 13.1 | 13.3 | 13.6 | 13.8 | 15.7 | 100  | 24X51            | 3/4" NPT           | 100  | 24X51            | 3/4" NPT           |
| 150              | 10.7              | 12.7  | 14.4 | 15.1 | 15.3 | 15.5 | 15.8 | 17.7 | 200  | 30X65            | 1" NPT             | 200  | 30X65            | 1" NPT             |
| 200              | 13.8              | 16.7  | 18.8 | 19.0 | 19.3 | 19.5 | 19.7 | 21.7 | 200  | 30X65            | 1" NPT             | 200  | 30X65            | 1" NPT             |
| 250              | 17.3              | 20.6  | 22.7 | 23.0 | 23.2 | 23.5 | 23.7 | 27.2 | 250  | 36X60            | 1" NPT             | 250  | 36X60            | 1" NPT             |
| 300              | 20.7              | 24.6  | 26.7 | 27.0 | 27.2 | 27.4 | 30.5 | 31.1 | 350  | 42X60            | 1-1/2" NPT         | 350  | 42X60            | 1-1/2" NPT         |
| 350              | 24.2              | 30.8  | 32.9 | 3.4  | 33.8 | 34.2 | 34.5 | 33.6 | 350  | 42X60            | 1-1/2" NPT         | 350  | 42X60            | 1-1/2" NPT         |
| 400              | 27.6              | 34.8  | 36.9 | 37.4 | 37.8 | 38.1 | 38.0 | 34.7 | 350  | 42X60            | 1-1/2" NPT         | 350  | 42X60            | 1-1/2" NPT         |
| 500              | 34.5              | 42.7  | 44.8 | 45.3 | 45.7 | 46.1 | 46.4 | 57.5 | 500  | 42X84            | 1-1/2" NPT         | 500  | 42X84            | 1-1/2" NPT         |
| 600              | 41.5              | 50.7  | 52.8 | 53.2 | 53.6 | 63.2 | 64.0 | 65.4 | 500  | 42X84            | 1-1/2" NPT         | 500  | 42X84            | 1-1/2" NPT         |
| 700              | 48.3              | 58.6  | 60.7 | 61.2 | 61.6 | 71.1 | 71.9 | 73.3 | 750  | 48X96            | 1-1/2" NPT         | 750  | 48X96            | 1-1/2" NPT         |

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**NOTES:**

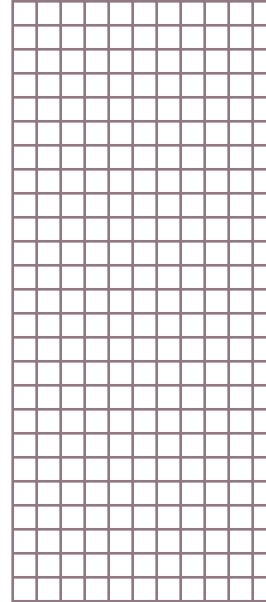
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| BOILER SIZE H.P. | EVAP. RATE IN GPM | PUMP CAPACITY IN GALLONS<br>BOILER OPERATION PRESSURE (PSI) |      |      |      |      |      |      | 282A DUAL<br>(TWO BOILERS-TWO PUMPS-<br>LARGE RECEIVER) 60 CYCLE |                  |                    | 283A TRIPLEX<br>(TWO BOILERS-THREE PUMPS-<br>ONE PUMP STANDBY) 60 CYCLE |                  |                    |
|------------------|-------------------|---|------|------|------|------|------|------|--|------------------|--------------------|---|------------------|--------------------|
|                  |                   |   |      |      |      |      |      |      | TANK CAPACITY GALLONS  | TANK SIZE INCHES | MAKE-UP VALVE SIZE | TANK CAPACITY GALLONS   | TANK SIZE INCHES | MAKE-UP VALVE SIZE |
|                  |                   | 15#   | 100# | 125# | 150# | 175# | 200# | 250# |  |                  |                    |   |                  |                    |
| 15               | 1.0               | 2.0   | 4.1  | 4.3  | 4.6  | 4.8  | 5.0  | 5.5  | 30   | 16x37            | 3/4" NPT           | -   | -                | -                  |
| 20               | 1.4               | 2.4   | 4.5  | 4.7  | 5.0  | 5.2  | 5.4  | 5.9  | 60   | 22X37            | 3/4" NPT           | -   | -                | -                  |
| 25               | 1.7               | 2.8   | 4.9  | 5.1  | 5.4  | 5.6  | 5.8  | 6.3  | 60   | 22X37            | 3/4" NPT           | -   | -                | -                  |
| 30               | 2.1               | 3.2   | 5.3  | 5.5  | 5.8  | 6.0  | 6.2  | 6.7  | 60   | 22X37            | 3/4" NPT           | -   | -                | -                  |
| 40               | 2.8               | 4.0   | 6.1  | 6.3  | 6.6  | 6.8  | 7.0  | 7.4  | 100  | 24X51            | 3/4" NPT           | -   | -                | -                  |
| 50               | 3.5               | 4.8   | 6.8  | 7.1  | 7.4  | 7.6  | 7.8  | 8.2  | 100  | 24X51            | 3/4" NPT           | 350   | 42X60            | 1-1/2" NPT         |
| 60               | 4.2               | 5.6   | 7.6  | 7.9  | 8.2  | 8.4  | 8.6  | 9.0  | 100  | 24X51            | 3/4" NPT           | 350   | 42X60            | 1-1/2" NPT         |
| 70               | 4.8               | 6.4   | 8.4  | 8.7  | 9.0  | 9.2  | 9.4  | 12.9 | 200  | 30X65            | 1" NPT             | 350   | 42X60            | 1-1/2" NPT         |
| 80               | 5.5               | 7.2   | 9.2  | 9.5  | 9.8  | 10.0 | 10.2 | 13.7 | 200  | 30X65            | 1" NPT             | 350   | 42X60            | 1-1/2" NPT         |
| 100              | 6.9               | 8.7   | 10.8 | 11.1 | 11.3 | 11.6 | 11.8 | 15.3 | 250  | 36X60            | 1" NPT             | 350   | 42X60            | 1-1/2" NPT         |
| 125              | 8.6               | 10.7  | 12.8 | 13.1 | 13.3 | 13.6 | 13.8 | 15.7 | 250  | 36X60            | 1" NPT             | 350   | 42X60            | 1-1/2" NPT         |
| 150              | 10.7              | 12.7  | 14.4 | 15.1 | 15.3 | 15.5 | 15.8 | 17.7 | 350  | 42X60            | 1-1/2" NPT         | 350   | 42X60            | 1-1/2" NPT         |
| 200              | 13.8              | 16.7  | 18.8 | 19.0 | 19.3 | 19.5 | 19.7 | 21.7 | 500  | 42X84            | 1-1/2" NPT         | 500   | 42X84            | 1-1/2" NPT         |
| 250              | 17.3              | 20.6  | 22.7 | 23.0 | 23.2 | 23.5 | 23.7 | 27.2 | 500  | 42X84            | 1-1/2" NPT         | 500   | 42X84            | 1-1/2" NPT         |
| 300              | 20.7              | 24.6  | 26.7 | 27.0 | 27.2 | 27.4 | 30.5 | 31.1 | 750  | 48X96            | 1-1/2" NPT         | 750   | 48X96            | 1-1/2" NPT         |
| 350              | 24.2              | 30.8  | 32.9 | 3.4  | 33.8 | 34.2 | 34.5 | 33.6 | 750  | 48X96            | 1-1/2" NPT         | 750   | 48X96            | 1-1/2" NPT         |
| 400              | 27.6              | 34.8  | 36.9 | 37.4 | 37.8 | 38.1 | 38.0 | 34.7 | 1000   | 48X120           | 1-1/2" NPT         | 1000  | 48X120           | 1-1/2" NPT         |
| 500              | 34.5              | 42.7  | 44.8 | 45.3 | 45.7 | 46.1 | 46.4 | 57.5 | 1000   | 48X120           | 1-1/2" NPT         | 1000  | 48X120           | 1-1/2" NPT         |
| 600              | 41.5              | 50.7  | 52.8 | 53.2 | 53.6 | 63.2 | 64.0 | 65.4 | -  | -                | -                  | -   | -                | -                  |
| 700              | 48.3              | 58.6  | 60.7 | 61.2 | 61.6 | 71.1 | 71.9 | 73.3 | -  | -                | -                  | -   | -                | -                  |

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| BOILER SIZE H.P. | EVAP. RATE IN GPM | PUMP CAPACITY IN GALLONS<br>BOILER OPERATION PRESSURE (PSI) |      |      |      |      |      |      | BOILER OPERATING PRESSURE, PSI<br>MODEL NUMBERS |            |            |            |            |            |           |
|------------------|-------------------|---|------|------|------|------|------|------|---|------------|------------|------------|------------|------------|-----------|
|                  |                   |   |      |      |      |      |      |      | 15#   | 100#       | 125#       | 150#       | 175#       | 200#       | 250#      |
|                  |                   | 15#   | 100# | 125# | 150# | 175# | 200# | 250# | 15#   | 100#       | 125#       | 150#       | 175#       | 200#       | 250#      |
| 15               | 1.0               | 2.0   | 4.1  | 4.3  | 4.6  | 4.8  | 5.0  | 5.5  | 391-3/.75                                       | 391-8/2    | 391-9/2    | 391-11/3   | 391-13/3   | 391-15/5   | 391-18//5 |
| 20               | 1.4               | 2.4   | 4.5  | 4.7  | 5.0  | 5.2  | 5.4  | 5.9  | 391-3/.75                                       | 391-8/2    | 391-9/2    | 391-11/3   | 391-13/3   | 391-15/5   | 391-18/5  |
| 25               | 1.7               | 2.8   | 4.9  | 5.1  | 5.4  | 5.6  | 5.8  | 6.3  | 391-3/.75                                       | 391-8/2    | 391-10/3   | 391-11/3   | 391-13/3   | 391-15/5   | 391-18/5  |
| 30               | 2.1               | 3.2   | 5.3  | 5.5  | 5.8  | 6.0  | 6.2  | 6.7  | 391-3/.75                                       | 391-8/2    | 391-10/3   | 391-11/3   | 391-13/3   | 391-15/5   | 391-18/5  |
| 40               | 2.8               | 4.0   | 6.1  | 6.3  | 6.6  | 6.8  | 7.0  | 7.4  | 391-3/.75                                       | 391-8/2    | 391-10/3   | 391-11/3   | 391-13/3   | 391-15/5   | 391-18/5  |
| 50               | 3.5               | 4.8   | 6.8  | 7.1  | 7.4  | 7.6  | 7.8  | 8.2  | 391-3/.75                                       | 391-8/2    | 391-10/3   | 391-13/3   | 391-13/3   | 391-15/5   | 391-18/5  |
| 60               | 4.2               | 5.6   | 7.6  | 7.9  | 8.2  | 8.4  | 8.6  | 9.0  | 391-3/.75                                       | 391-9/2    | 391-10/3   | 391-13/3   | 391-15/5   | 391-15/5   | 391-18/5  |
| 70               | 4.8               | 6.4   | 8.4  | 8.7  | 9.0  | 9.2  | 9.4  | 12.9 | 391-3/.75                                       | 391-9/2    | 391-11/3   | 391-13/3   | 391-15/5   | 391-16/5   | 393-14/15 |
| 80               | 5.5               | 7.2   | 9.2  | 9.5  | 9.8  | 10.0 | 10.2 | 13.7 | 391-3/.75                                       | 391-9/2    | 391-11/3   | 391-13/3   | 391-15/5   | 391-16/5   | 393-14/15 |
| 100              | 6.9               | 8.7   | 10.8 | 11.1 | 11.3 | 11.6 | 11.8 | 15.3 | 391-3/.75                                       | 391-10/3   | 391-13/3   | 391-13/3   | 391-15/5   | 392-15/5   | 393-14/15 |
| 125              | 8.6               | 10.7  | 12.8 | 13.1 | 13.3 | 13.6 | 13.8 | 15.7 | 391-3/.75                                       | 392-8/3    | 392-10/5   | 391-11/5   | 392-13/5   | 392-15/5   | 393-14/15 |
| 150              | 10.7              | 12.7  | 14.4 | 15.1 | 15.3 | 15.5 | 15.8 | 17.7 | 392-3/1   | 392-9/3    | 392-10/5   | 392-11/5   | 392-13/5   | 392-15/5   | 393-14/15 |
| 200              | 13.8              | 16.7  | 18.8 | 19.0 | 19.3 | 19.5 | 19.7 | 21.7 | 392-3/1   | 392-9/3    | 392-11/5   | 392-13/5   | 392-13/5   | 392-15/5   | 393-14/15 |
| 250              | 17.3              | 20.6  | 22.7 | 23.0 | 23.2 | 23.5 | 23.7 | 27.2 | 392-3/1   | 392-9/3    | 392-11/5   | 392-13/5   | 392-15/5   | 392-16/7.5 | 393-14/15 |
| 300              | 20.7              | 24.6  | 26.7 | 27.0 | 27.2 | 27.4 | 30.5 | 31.1 | 392-4/1.5                                       | 392-10/5   | 392-13/5   | 392-15/5   | 392-16/7.5 | 393-15/10  | 393-14/15 |
| 350              | 24.2              | 30.8  | 32.9 | 3.4  | 33.8 | 34.2 | 34.5 | 33.6 | 393-3/3   | 393-7/7.5  | 393-8/7.5  | 393-10/7.5 | 393-12/10  | 393-12/10  | 393-14/15 |
| 400              | 27.6              | 34.8  | 36.9 | 37.4 | 37.8 | 38.1 | 38.0 | 34.7 | 393-3/3   | 393-7/7.5  | 393-10/7.5 | 393-10/7.5 | 393-12/10  | 393-12/10  | 394-12/25 |
| 500              | 34.5              | 42.7  | 44.8 | 45.3 | 45.7 | 46.1 | 46.4 | 57.5 | 393-3/3   | 393-8/7.5  | 393-10/7.5 | 393-12/10  | 393-12/10  | 393-15/15  | 394-12/25 |
| 600              | 41.5              | 50.7  | 52.8 | 53.2 | 53.6 | 63.2 | 64.0 | 65.4 | 393-3/3   | 393-10/7.5 | 393-10/7.5 | 393-12/10  | 394-9/20   | 393-14/15  | 394-12/25 |
| 700              | 48.3              | 58.6  | 60.7 | 61.2 | 61.6 | 71.1 | 71.9 | 73.3 | 393-3/3   | 393-10/7.5 | 393-12/10  | 393-14/15  | 394-9/20   | 394-10/2   | 394-12/25 |