

# TCRH-4HW-DC2 240V

| COOLING Capacity |                    |             |  |         |          |         |         |          |         |         |          |  |         |          |         |         |          |         |         |          |
|------------------|--------------------|-------------|--|---------|----------|---------|---------|----------|---------|---------|----------|--|---------|----------|---------|---------|----------|---------|---------|----------|
| Unit Size        | Water Flow (l/sec) | W.P.D (kPa) | Entering Air Condition DB=24.0°C WB=17.8°C (55%) |         |          |         |         |          |         |         |          | Entering Air Condition DB=26.0°C WB=19.5°C (55%) |         |          |         |         |          |         |         |          |
|                  |                    |             | Entering Water Temperature                       |         |          |         |         |          |         |         |          | Entering Water Temperature                       |         |          |         |         |          |         |         |          |
|                  |                    |             | 5°C  |         |          | 7°C     |         |          | 9°C     |         |          | 5°C  |         |          | 7°C     |         |          | 9°C     |         |          |
|                  |                    |             | SH (kW)  | TH (kW) | ΔWT (°C) | SH (kW) | TH (kW) | ΔWT (°C) | SH (kW) | TH (kW) | ΔWT (°C) | SH (kW)  | TH (kW) | ΔWT (°C) | SH (kW) | TH (kW) | ΔWT (°C) | SH (kW) | TH (kW) | ΔWT (°C) |
| 600              | 0.10               | 0.8         | 2.92   | 3.41    | 8.16     | 2.66    | 3.02    | 7.23     | 2.42    | 2.63    | 6.29     | 3.12   | 3.86    | 9.24     | 2.85    | 3.47    | 8.30     | 2.59    | 3.07    | 7.34     |
|                  | 0.15               | 1.7         | 3.60   | 4.35    | 6.93     | 3.26    | 3.84    | 6.13     | 2.96    | 3.33    | 5.31     | 3.85   | 4.95    | 7.88     | 3.51    | 4.44    | 7.08     | 3.19    | 3.91    | 6.24     |
|                  | 0.20               | 2.8         | 4.04   | 5.02    | 6.00     | 3.66    | 4.43    | 5.30     | 3.31    | 3.82    | 4.57     | 4.34   | 5.72    | 6.84     | 3.96    | 5.13    | 6.14     | 3.59    | 4.52    | 5.40     |
|                  | 0.30               | 5.6         | 4.58   | 5.91    | 4.71     | 4.15    | 5.21    | 4.16     | 3.74    | 4.48    | 3.58     | 4.94   | 6.77    | 5.40     | 4.50    | 6.07    | 4.84     | 4.08    | 5.33    | 4.25     |
| 1000             | 0.10               | 1.0         | 3.81   | 4.37    | 10.45    | 3.48    | 3.88    | 9.28     | 3.18    | 3.39    | 8.10     | 4.05   | 4.93    | 11.79    | 3.70    | 4.43    | 10.60    | 3.38    | 3.93    | 9.39     |
|                  | 0.20               | 3.5         | 5.47   | 6.68    | 7.98     | 4.97    | 5.91    | 7.06     | 4.52    | 5.12    | 6.13     | 5.85   | 7.58    | 9.06     | 5.34    | 6.81    | 8.14     | 4.86    | 6.01    | 7.18     |
|                  | 0.30               | 7.0         | 6.34   | 8.04    | 6.41     | 5.76    | 7.10    | 5.66     | 5.21    | 6.14    | 4.89     | 6.81   | 9.16    | 7.30     | 6.21    | 8.22    | 6.55     | 5.64    | 7.24    | 5.77     |
|                  | 0.40               | 11.5        | 6.87   | 8.95    | 5.35     | 6.22    | 7.90    | 4.72     | 5.62    | 6.81    | 4.07     | 7.39   | 10.22   | 6.11     | 6.73    | 9.16    | 5.48     | 6.11    | 8.07    | 4.82     |
| 1200             | 0.15               | 2.6         | 5.38   | 6.50    | 10.36    | 4.89    | 5.76    | 9.18     | 4.45    | 5.00    | 7.97     | 5.74   | 7.37    | 11.75    | 5.24    | 6.62    | 10.55    | 4.77    | 5.85    | 9.32     |
|                  | 0.20               | 4.3         | 6.13   | 7.62    | 9.10     | 5.57    | 6.73    | 8.05     | 5.05    | 5.83    | 6.97     | 6.57   | 8.66    | 10.35    | 5.99    | 7.77    | 9.29     | 5.45    | 6.86    | 8.19     |
|                  | 0.30               | 8.8         | 7.10   | 9.17    | 7.30     | 6.44    | 8.09    | 6.44     | 5.82    | 6.98    | 5.56     | 7.64   | 10.46   | 8.33     | 6.96    | 9.38    | 7.47     | 6.31    | 8.26    | 6.58     |
|                  | 0.55               | 25.0        | 8.23   | 11.28   | 4.90     | 7.44    | 9.93    | 4.32     | 6.70    | 8.53    | 3.71     | 8.89   | 12.93   | 5.62     | 8.09    | 11.58   | 5.03     | 7.32    | 10.17   | 4.42     |
| 1600             | 0.20               | 5.1         | 7.33   | 9.00    | 10.76    | 6.67    | 7.97    | 9.53     | 6.06    | 6.92    | 8.27     | 7.82   | 10.20   | 12.20    | 7.14    | 9.17    | 10.96    | 6.50    | 8.10    | 9.68     |
|                  | 0.30               | 10.2        | 8.63   | 11.01   | 8.77     | 7.83    | 9.73    | 7.75     | 7.10    | 8.41    | 6.70     | 9.24   | 12.53   | 9.98     | 8.43    | 11.24   | 8.96     | 7.66    | 9.91    | 7.90     |
|                  | 0.40               | 16.8        | 9.44   | 12.39   | 7.40     | 8.56    | 10.93   | 6.53     | 7.74    | 9.43    | 5.64     | 10.13  | 14.13   | 8.44     | 9.24    | 12.67   | 7.57     | 8.39    | 11.16   | 6.67     |
|                  | 0.55               | 29.2        | 10.20  | 13.82   | 6.00     | 9.23    | 12.18   | 5.29     | 8.33    | 10.49   | 4.56     | 10.98  | 15.80   | 6.87     | 10.00   | 14.16   | 6.15     | 9.07    | 12.46   | 5.41     |
| 2000             | 0.30               | 13.3        | 10.09  | 13.03   | 10.38    | 9.16    | 11.51   | 9.17     | 8.30    | 9.95    | 7.93     | 10.81  | 14.81   | 11.80    | 9.86    | 13.30   | 10.59    | 8.96    | 11.73   | 9.34     |
|                  | 0.40               | 21.9        | 11.11  | 14.75   | 8.81     | 10.07   | 13.02   | 7.78     | 9.11    | 11.23   | 6.71     | 11.93  | 16.81   | 10.04    | 10.88   | 15.08   | 9.01     | 9.87    | 13.29   | 7.94     |
|                  | 0.55               | 38.0        | 12.08  | 16.56   | 7.20     | 10.94   | 14.60   | 6.35     | 9.87    | 12.57   | 5.46     | 13.01  | 18.94   | 8.23     | 11.85   | 16.98   | 7.38     | 10.75   | 14.93   | 6.49     |
|                  | 0.70               | 57.6        | 12.70  | 17.86   | 6.10     | 11.49   | 15.73   | 5.37     | 10.35   | 13.51   | 4.61     | 13.70  | 20.46   | 6.98     | 12.48   | 18.33   | 6.26     | 11.30   | 16.11   | 5.50     |

| HEATING Capacity |                    |             |                                  |          |         |          |         |          |         |          |         |          |                                  |          |         |          |         |          |         |          |         |          |
|------------------|--------------------|-------------|----------------------------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|----------------------------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|
| Unit Size        | Water Flow (l/sec) | W.P.D (kPa) | Entering Air Condition DB=20.0°C |          |         |          |         |          |         |          |         |          | Entering Air Condition DB=22.0°C |          |         |          |         |          |         |          |         |          |
|                  |                    |             | Entering Water Temperature       |          |         |          |         |          |         |          |         |          | Entering Water Temperature       |          |         |          |         |          |         |          |         |          |
|                  |                    |             | 40°C                             |          | 50°C    |          | 60°C    |          | 70°C    |          | 80°C    |          | 40°C                             |          | 50°C    |          | 60°C    |          | 70°C    |          | 80°C    |          |
|                  |                    |             | TH (kW)                          | ΔWT (°C) | TH (kW) | ΔWT (°C) | TH (kW) | ΔWT (°C) | TH (kW) | ΔWT (°C) | TH (kW) | ΔWT (°C) | TH (kW)                          | ΔWT (°C) | TH (kW) | ΔWT (°C) | TH (kW) | ΔWT (°C) | TH (kW) | ΔWT (°C) | TH (kW) | ΔWT (°C) |
| 600              | 0.10               | 5.6         | 2.59                             | 6.20     | 3.89    | 9.31     | 5.19    | 12.41    | 6.49    | 15.51    | 7.79    | 18.61    | 2.33                             | 5.58     | 3.63    | 8.69     | 4.93    | 11.79    | 6.23    | 14.89    | 7.53    | 17.99    |
|                  | 0.15               | 11.2        | 2.77                             | 4.42     | 4.15    | 6.62     | 5.54    | 8.83     | 6.93    | 11.04    | 8.31    | 13.25    | 2.49                             | 3.97     | 3.88    | 6.18     | 5.26    | 8.39     | 6.65    | 10.60    | 8.04    | 12.81    |
|                  | 0.20               | 18.5        | 2.87                             | 3.44     | 4.31    | 5.16     | 5.75    | 6.88     | 7.19    | 8.60     | 8.63    | 10.31    | 2.59                             | 3.09     | 4.02    | 4.81     | 5.46    | 6.53     | 6.90    | 8.25     | 8.34    | 9.97     |
|                  | 0.30               | 37.3        | 3.00                             | 2.39     | 4.50    | 3.59     | 6.01    | 4.79     | 7.51    | 5.98     | 9.01    | 7.18     | 2.70                             | 2.15     | 4.20    | 3.35     | 5.71    | 4.55     | 7.21    | 5.74     | 8.71    | 6.94     |
| 1000             | 0.10               | 7.0         | 3.54                             | 8.47     | 5.31    | 12.70    | 7.08    | 16.93    | 8.85    | 21.17    | 10.63   | 25.40    | 3.18                             | 7.62     | 4.96    | 11.85    | 6.73    | 16.09    | 8.50    | 20.32    | 10.27   | 24.55    |
|                  | 0.20               | 23.1        | 3.86                             | 6.15     | 5.79    | 9.23     | 7.72    | 12.31    | 9.66    | 15.39    | 11.59   | 18.46    | 3.47                             | 5.54     | 5.40    | 8.62     | 7.34    | 11.69    | 9.27    | 14.77    | 11.20   | 17.85    |
|                  | 0.30               | 46.6        | 4.06                             | 4.85     | 6.09    | 7.27     | 8.12    | 9.70     | 10.15   | 12.12    | 12.18   | 14.55    | 3.65                             | 4.36     | 5.68    | 6.79     | 7.71    | 9.21     | 9.74    | 11.64    | 11.77   | 14.06    |
|                  | 0.40               | 76.7        | 4.29                             | 3.42     | 6.44    | 5.13     | 8.59    | 6.84     | 10.74   | 8.55     | 12.89   | 10.27    | 3.86                             | 3.08     | 6.01    | 4.79     | 8.16    | 6.50     | 10.31   | 8.21     | 12.46   | 9.92     |
| 1200             | 0.15               | 17.7        | 3.95                             | 9.45     | 5.93    | 14.17    | 7.91    | 18.90    | 9.88    | 23.62    | 11.86   | 28.35    | 3.55                             | 8.50     | 5.53    | 13.23    | 7.51    | 17.95    | 9.49    | 22.68    | 11.46   | 27.40    |
|                  | 0.20               | 29.0        | 4.34                             | 6.92     | 6.51    | 10.38    | 8.68    | 13.83    | 10.85   | 17.29    | 13.03   | 20.75    | 3.90                             | 6.23     | 6.08    | 9.68     | 8.25    | 13.14    | 10.42   | 16.60    | 12.59   | 20.06    |
|                  | 0.30               | 58.6        | 4.58                             | 5.47     | 6.87    | 8.21     | 9.16    | 10.94    | 11.45   | 13.68    | 13.74   | 16.41    | 4.12                             | 4.92     | 6.41    | 7.66     | 8.70    | 10.39    | 10.99   | 13.13    | 13.28   | 15.87    |
|                  | 0.55               | 167.1       | 4.86                             | 3.87     | 7.29    | 5.81     | 9.72    | 7.75     | 12.16   | 9.68     | 14.59   | 11.62    | 4.37                             | 3.49     | 6.81    | 5.42     | 9.24    | 7.36     | 11.67   | 9.30     | 14.10   | 11.23    |
| 1600             | 0.20               | 33.9        | 4.73                             | 11.32    | 7.10    | 16.98    | 9.47    | 22.64    | 11.84   | 28.30    | 14.21   | 33.96    | 4.26                             | 10.19    | 6.63    | 15.85    | 9.00    | 21.51    | 11.37   | 27.17    | 13.74   | 32.83    |
|                  | 0.30               | 68.4        | 5.29                             | 8.43     | 7.94    | 12.65    | 10.58   | 16.87    | 13.23   | 21.08    | 15.88   | 25.30    | 4.76                             | 7.59     | 7.41    | 11.81    | 10.06   | 16.02    | 12.70   | 20.24    | 15.35   | 24.45    |
|                  | 0.40               | 112.5       | 5.64                             | 6.74     | 8.46    | 10.11    | 11.28   | 13.48    | 14.10   | 16.85    | 16.92   | 20.21    | 5.07                             | 6.06     | 7.89    | 9.43     | 10.71   | 12.80    | 13.53   | 16.17    | 16.35   | 19.54    |
|                  | 0.55               | 195.2       | 5.96                             | 5.27     | 8.94    | 7.91     | 11.92   | 10.55    | 14.90   | 13.18    | 17.88   | 15.82    | 5.36                             | 4.75     | 8.34    | 7.38     | 11.32   | 10.02    | 14.30   | 12.66    | 17.28   | 15.29    |
| 2000             | 0.30               | 89.0        | 5.50                             | 13.15    | 8.25    | 19.72    | 11.00   | 26.29    | 13.75   | 32.87    | 16.50   | 39.44    | 4.95                             | 11.83    | 7.70    | 18.41    | 10.45   | 24.98    | 13.20   | 31.55    | 15.95   | 38.13    |
|                  | 0.40               | 146.4       | 6.24                             | 9.95     | 9.36    | 14.92    | 12.49   | 19.89    | 15.61   | 24.87    | 18.73   | 29.84    | 5.62                             | 8.95     | 8.74    | 13.93    | 11.86   | 18.90    | 14.99   | 23.87    | 18.11   | 28.85    |
|                  | 0.55               | 254.0       | 6.71                             | 8.02     | 10.07   | 12.03    | 13.43   | 16.04    | 16.78   | 20.05    | 20.14   | 24.06    | 6.04                             | 7.22     | 9.40    | 11.23    | 12.75   | 15.24    | 16.11   | 19.25    | 19.47   | 23.26    |
|                  | 0.70               | 385.4       | 6.92                             | 7.19     | 10.38   | 10.79    | 13.84   | 14.38    | 17.31   | 17.98    | 20.77   | 21.58    | 6.23                             | 6.47     | 9.69    | 10.07    | 13.15   | 13.67    | 16.61   | 17.26    | 20.08   | 20.86    |

Note: To obtain accurate air volume and cooling/heating capacities, refer to pages 44-59