

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                   |                |              |                |                |                          |                |              |                |                |
|------------------|----------------------------------------------------|-----------------------------------|----------------|--------------|----------------|----------------|--------------------------|----------------|--------------|----------------|----------------|
|                  | OUTDOOR<br>DB(°F)                                  | TC Total Heating Capacity(BTU/hr) |                |              |                |                | PI Power Input(kW)       |                |              |                |                |
|                  |                                                    | Indoor Conditions(DB °F)          |                |              |                |                | Indoor Conditions(DB °F) |                |              |                |                |
|                  |                                                    | 60.0 F(16.0°C)                    | 65.0 F(18.0°C) | 70°F(21.1°C) | 75.0 F(23.0°C) | 75.2 F(24.0°C) | 60.0 F(16.0°C)           | 65.0 F(18.0°C) | 70°F(21.1°C) | 75.0 F(23.0°C) | 75.2 F(24.0°C) |
| 490              | -22°F(-30.0°C)                                     | 8726                              | 8551           | 8508         | 8409           | 8334           | 1.79                     | 1.81           | 1.81         | 1.81           | 1.82           |
|                  | -13°F(-25.0°C)                                     | 11300                             | 11074          | 11019        | 10472          | 10378          | 1.94                     | 1.96           | 1.96         | 1.96           | 1.97           |
|                  | -4°F(-20.0°C)                                      | 14205                             | 13921          | 13851        | 13164          | 13045          | 2.14                     | 2.15           | 2.16         | 2.16           | 2.17           |
|                  | 0°F(-17.8°C)                                       | 15511                             | 15201          | 15125        | 14374          | 14245          | 2.24                     | 2.26           | 2.26         | 2.27           | 2.28           |
|                  | 5°F(-15.0°C)                                       | 17144                             | 16802          | 16718        | 15887          | 15744          | 2.38                     | 2.39           | 2.40         | 2.40           | 2.41           |
|                  | 14°F(-10.0°C)                                      | 17637                             | 17285          | 17198        | 16344          | 16197          | 2.34                     | 2.36           | 2.36         | 2.37           | 2.38           |
|                  | 17°F(-8.3°C)                                       | 17802                             | 17446          | 17359        | 16497          | 16348          | 2.33                     | 2.34           | 2.35         | 2.35           | 2.36           |
|                  | 22°F(-5.6°C)                                       | 18035                             | 17674          | 17586        | 16713          | 16562          | 2.21                     | 2.23           | 2.23         | 2.24           | 2.25           |
|                  | 27°F(-2.8°C)                                       | 18268                             | 17902          | 17813        | 16929          | 16776          | 2.10                     | 2.11           | 2.12         | 2.12           | 2.13           |
|                  | 32°F(-0.0°C)                                       | 18501                             | 18131          | 18040        | 17144          | 16990          | 1.98                     | 2.00           | 2.00         | 2.01           | 2.02           |
|                  | 35°F(1.7°C)                                        | 18641                             | 18268          | 18177        | 17274          | 17119          | 1.92                     | 1.93           | 1.93         | 1.94           | 1.95           |
|                  | 37°F(2.8°C)                                        | 18876                             | 18498          | 18406        | 17492          | 17335          | 1.88                     | 1.89           | 1.90         | 1.90           | 1.91           |
|                  | 42°F(5.6°C)                                        | 19464                             | 19075          | 18980        | 18037          | 17875          | 1.79                     | 1.80           | 1.80         | 1.81           | 1.82           |
|                  | 44.6°F(7.0°C)                                      | 19700                             | 19306          | 19209        | 18255          | 18091          | 1.75                     | 1.76           | 1.77         | 1.77           | 1.78           |
|                  | 47°F(8.3°C)                                        | 20052                             | 19651          | 19553        | 18582          | 18415          | 1.69                     | 1.71           | 1.71         | 1.72           | 1.72           |
|                  | 52°F(11.1°C)                                       | 19375                             | 18987          | 18892        | 17954          | 17793          | 1.63                     | 1.64           | 1.65         | 1.65           | 1.66           |
|                  | 57°F(13.9°C)                                       | 18697                             | 18323          | 18232        | 17326          | 17170          | 1.57                     | 1.58           | 1.58         | 1.59           | 1.59           |
| 530              | 59°F(15.0°C)                                       | 18426                             | 18058          | 17967        | 17075          | 16922          | 1.54                     | 1.56           | 1.56         | 1.56           | 1.57           |
|                  | 62°F(16.7°C)                                       | 18020                             | 17659          | 17571        | 16698          | 16548          | 1.50                     | 1.52           | 1.52         | 1.52           | 1.53           |
|                  | 64.4°F(18.0°C)                                     | 17749                             | 17394          | 17307        | 16447          | 16299          | 1.48                     | 1.49           | 1.49         | 1.50           | 1.50           |
|                  | -22°F(-30.0°C)                                     | 9235                              | 9050           | 9005         | 8935           | 8854           | 1.81                     | 1.82           | 1.83         | 1.83           | 1.84           |
|                  | -13°F(-25.0°C)                                     | 11728                             | 11493          | 11436        | 11126          | 11026          | 1.96                     | 1.98           | 1.98         | 1.98           | 1.99           |
|                  | -4°F(-20.0°C)                                      | 14743                             | 14448          | 14375        | 13986          | 13860          | 2.16                     | 2.17           | 2.18         | 2.18           | 2.19           |
|                  | 0°F(-17.8°C)                                       | 16098                             | 15776          | 15697        | 15272          | 15135          | 2.26                     | 2.28           | 2.29         | 2.29           | 2.30           |
|                  | 5°F(-15.0°C)                                       | 17793                             | 17437          | 17350        | 16880          | 16728          | 2.40                     | 2.42           | 2.42         | 2.43           | 2.44           |
|                  | 14°F(-10.0°C)                                      | 18305                             | 17939          | 17849        | 17365          | 17209          | 2.36                     | 2.38           | 2.39         | 2.39           | 2.40           |
|                  | 17°F(-8.3°C)                                       | 18475                             | 18106          | 18015        | 17527          | 17369          | 2.35                     | 2.37           | 2.37         | 2.38           | 2.39           |
|                  | 22°F(-5.6°C)                                       | 18717                             | 18343          | 18251        | 17757          | 17597          | 2.23                     | 2.25           | 2.26         | 2.26           | 2.27           |
|                  | 27°F(-2.8°C)                                       | 18959                             | 18580          | 18487        | 17986          | 17824          | 2.12                     | 2.14           | 2.14         | 2.14           | 2.15           |
|                  | 32°F(-0.0°C)                                       | 19201                             | 18817          | 18723        | 18215          | 18051          | 2.00                     | 2.02           | 2.02         | 2.03           | 2.04           |
|                  | 35°F(1.7°C)                                        | 19346                             | 18959          | 18864        | 18353          | 18188          | 1.93                     | 1.95           | 1.95         | 1.96           | 1.97           |
|                  | 37°F(2.8°C)                                        | 19590                             | 19198          | 19102        | 18585          | 18417          | 1.90                     | 1.91           | 1.92         | 1.92           | 1.93           |
|                  | 42°F(5.6°C)                                        | 20201                             | 19797          | 19698        | 19164          | 18991          | 1.80                     | 1.82           | 1.82         | 1.83           | 1.83           |
|                  | 44.6°F(7.0°C)                                      | 20445                             | 20036          | 19936        | 19396          | 19221          | 1.77                     | 1.78           | 1.79         | 1.79           | 1.80           |
|                  | 47°F(8.3°C)                                        | 20811                             | 20395          | 20293        | 19743          | 19565          | 1.71                     | 1.73           | 1.73         | 1.73           | 1.74           |
| 580              | 52°F(11.1°C)                                       | 20108                             | 19706          | 19607        | 19076          | 18904          | 1.65                     | 1.66           | 1.66         | 1.67           | 1.67           |
|                  | 57°F(13.9°C)                                       | 19405                             | 19016          | 18921        | 18409          | 18243          | 1.58                     | 1.60           | 1.60         | 1.60           | 1.61           |
|                  | 59°F(15.0°C)                                       | 19123                             | 18741          | 18647        | 18142          | 17979          | 1.56                     | 1.57           | 1.57         | 1.58           | 1.58           |
|                  | 62°F(16.7°C)                                       | 18701                             | 18327          | 18236        | 17742          | 17582          | 1.52                     | 1.53           | 1.54         | 1.54           | 1.54           |
|                  | 64.4°F(18.0°C)                                     | 18420                             | 18052          | 17961        | 17475          | 17317          | 1.49                     | 1.51           | 1.51         | 1.51           | 1.52           |
|                  | -22°F(-30.0°C)                                     | 9774                              | 9579           | 9531         | 9493           | 9407           | 1.83                     | 1.84           | 1.85         | 1.85           | 1.86           |
|                  | -13°F(-25.0°C)                                     | 12171                             | 11928          | 11868        | 11821          | 11714          | 1.98                     | 2.00           | 2.00         | 2.00           | 2.01           |
|                  | -4°F(-20.0°C)                                      | 15300                             | 14994          | 14919        | 14860          | 14726          | 2.18                     | 2.20           | 2.20         | 2.21           | 2.21           |
|                  | 0°F(-17.8°C)                                       | 16707                             | 16373          | 16291        | 16226          | 16080          | 2.29                     | 2.31           | 2.31         | 2.32           | 2.32           |
|                  | 5°F(-15.0°C)                                       | 18466                             | 18097          | 18006        | 17934          | 17773          | 2.42                     | 2.44           | 2.45         | 2.45           | 2.46           |
|                  | 14°F(-10.0°C)                                      | 18997                             | 18617          | 18524        | 18450          | 18284          | 2.39                     | 2.40           | 2.41         | 2.41           | 2.42           |
|                  | 17°F(-8.3°C)                                       | 19174                             | 18791          | 18697        | 18622          | 18454          | 2.37                     | 2.39           | 2.40         | 2.40           | 2.41           |
|                  | 22°F(-5.6°C)                                       | 19425                             | 19037          | 18941        | 18866          | 18696          | 2.26                     | 2.27           | 2.28         | 2.28           | 2.29           |
|                  | 27°F(-2.8°C)                                       | 19676                             | 19283          | 19186        | 19109          | 18937          | 2.14                     | 2.16           | 2.16         | 2.17           | 2.17           |
|                  | 32°F(-0.0°C)                                       | 19927                             | 19529          | 19431        | 19353          | 19179          | 2.02                     | 2.04           | 2.04         | 2.05           | 2.06           |

|     |                |       |       |       |       |       |      |      |      |      |      |
|-----|----------------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 300 | 35°F(1.7°C)    | 20078 | 19676 | 19578 | 19500 | 19324 | 1.95 | 1.97 | 1.97 | 1.98 | 1.99 |
|     | 37°F(2.8°C)    | 20331 | 19925 | 19825 | 19746 | 19568 | 1.92 | 1.93 | 1.94 | 1.94 | 1.95 |
|     | 42°F(5.6°C)    | 20965 | 20545 | 20443 | 20361 | 20178 | 1.82 | 1.84 | 1.84 | 1.84 | 1.85 |
|     | 44.6°F(7.0°C)  | 21218 | 20794 | 20690 | 20607 | 20422 | 1.79 | 1.80 | 1.80 | 1.81 | 1.81 |
|     | 47°F(8.3°C)    | 21598 | 21166 | 21061 | 20976 | 20788 | 1.73 | 1.74 | 1.75 | 1.75 | 1.76 |
|     | 52°F(11.1°C)   | 20868 | 20451 | 20349 | 20267 | 20085 | 1.66 | 1.68 | 1.68 | 1.68 | 1.69 |
|     | 57°F(13.9°C)   | 20139 | 19736 | 19637 | 19559 | 19383 | 1.60 | 1.61 | 1.62 | 1.62 | 1.63 |
|     | 59°F(15.0°C)   | 19847 | 19450 | 19353 | 19275 | 19102 | 1.57 | 1.59 | 1.59 | 1.59 | 1.60 |
|     | 62°F(16.7°C)   | 19409 | 19021 | 18926 | 18850 | 18680 | 1.54 | 1.55 | 1.55 | 1.55 | 1.56 |
|     | 64.4°F(18.0°C) | 19117 | 18735 | 18641 | 18566 | 18399 | 1.51 | 1.52 | 1.52 | 1.53 | 1.53 |
| 620 | -22°F(-30.0°C) | 10144 | 9941  | 9891  | 9852  | 9763  | 1.85 | 1.86 | 1.87 | 1.87 | 1.88 |
|     | -13°F(-25.0°C) | 12632 | 12379 | 12317 | 12268 | 12158 | 2.00 | 2.02 | 2.02 | 2.03 | 2.03 |
|     | -4°F(-20.0°C)  | 15879 | 15561 | 15484 | 15422 | 15283 | 2.20 | 2.22 | 2.22 | 2.23 | 2.24 |
|     | 0°F(-17.8°C)   | 17339 | 16993 | 16908 | 16840 | 16688 | 2.31 | 2.33 | 2.33 | 2.34 | 2.35 |
|     | 5°F(-15.0°C)   | 19165 | 18781 | 18688 | 18613 | 18445 | 2.45 | 2.47 | 2.47 | 2.48 | 2.49 |
|     | 14°F(-10.0°C)  | 19716 | 19322 | 19225 | 19148 | 18976 | 2.41 | 2.43 | 2.43 | 2.44 | 2.45 |
|     | 17°F(-8.3°C)   | 19900 | 19502 | 19404 | 19326 | 19152 | 2.40 | 2.42 | 2.42 | 2.43 | 2.44 |
|     | 22°F(-5.6°C)   | 20160 | 19757 | 19658 | 19579 | 19403 | 2.28 | 2.30 | 2.30 | 2.31 | 2.32 |
|     | 27°F(-2.8°C)   | 20421 | 20012 | 19912 | 19832 | 19654 | 2.16 | 2.18 | 2.18 | 2.19 | 2.20 |
|     | 32°F(-0.0°C)   | 20681 | 20267 | 20166 | 20085 | 19905 | 2.04 | 2.06 | 2.07 | 2.07 | 2.08 |
|     | 35°F(1.7°C)    | 20837 | 20421 | 20318 | 20237 | 20055 | 1.97 | 1.99 | 1.99 | 2.00 | 2.01 |
|     | 37°F(2.8°C)    | 21100 | 20678 | 20575 | 20493 | 20308 | 1.94 | 1.95 | 1.96 | 1.96 | 1.97 |
|     | 42°F(5.6°C)    | 21758 | 21323 | 21216 | 21131 | 20941 | 1.84 | 1.86 | 1.86 | 1.86 | 1.87 |
|     | 44.6°F(7.0°C)  | 22021 | 21580 | 21473 | 21387 | 21194 | 1.80 | 1.82 | 1.82 | 1.83 | 1.83 |
|     | 47°F(8.3°C)    | 22415 | 21967 | 21857 | 21770 | 21574 | 1.75 | 1.76 | 1.76 | 1.77 | 1.77 |
|     | 52°F(11.1°C)   | 21658 | 21225 | 21119 | 21034 | 20845 | 1.68 | 1.69 | 1.70 | 1.70 | 1.71 |
|     | 57°F(13.9°C)   | 20900 | 20482 | 20380 | 20299 | 20116 | 1.62 | 1.63 | 1.63 | 1.64 | 1.64 |
|     | 59°F(15.0°C)   | 20598 | 20186 | 20085 | 20004 | 19824 | 1.59 | 1.60 | 1.61 | 1.61 | 1.62 |
|     | 62°F(16.7°C)   | 20143 | 19740 | 19641 | 19563 | 19387 | 1.55 | 1.56 | 1.57 | 1.57 | 1.58 |
|     | 64.4°F(18.0°C) | 19840 | 19443 | 19346 | 19269 | 19095 | 1.52 | 1.54 | 1.54 | 1.54 | 1.55 |

The data highlighted in green are tested, other data are simulated and for reference only