Equivalent Full Load Cooling and Heating Hours

Values on low end of range assume units off during unoccupied hours in cooling season and 10°F set-back in heating. Values on high end assume no set-back control. Unoccupied ventilation air and internal loads minimized for both high and low range values.

| | | | Office – 8 to 5 | | Retail – 8 to 10 Seven | |
|---------------------|-------------|---------|-----------------|-------------|------------------------|----------|
| | | | ys / Week | Days / Week | | |
| Annual Hours | 1300 - 1500 | | 2200 - 2400 | | 2800 - 3600 | |
| | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Atlanta | 590-830 | 200-290 | 950-1360 | 480-690 | 1300-1860 | 380-600 |
| Baltimore | 410-610 | 320-460 | 690-1080 | 720-890 | 880-1480 | 570-770 |
| Bismarck | 150-250 | 460-500 | 250-540 | 950-990 | 340-780 | 810-900 |
| Boston | 300-510 | 450-520 | 450-970 | 960-1000 | 610-1380 | 760-870 |
| Charleston,WV | 430-570 | 310-440 | 620-1140 | 770-840 | 820-1600 | 620-730 |
| Charlotte | 510-730 | 200-320 | 940-1340 | 530-780 | 1280-1830 | 420-670 |
| Chicago | 280-410 | 390-470 | 420-780 | 820-920 | 550-1090 | 670-810 |
| Dallas | 620-890 | 120-200 | 1100-1580 | 340-520 | 1460-2090 | 280-440 |
| Detroit | 230-360 | 400-480 | 390-820 | 970-1020 | 530-1170 | 790-900 |
| Fairbanks, AK | 25-50 | 560-630 | 60-200 | 1050-1170 | 110-320 | 930-1090 |
| Great Falls, MT | 130-220 | 360-430 | 210-490 | 820-890 | 290-710 | 680-800 |
| Hilo, HI | 970-1390 | 0 | 1800-2580 | 15-25 | 2260-3370 | 10-15 |
| Houston | 670-1000 | 90-130 | 1240-1770 | 250-350 | 1600-2290 | 190-300 |
| Indianapolis | 380-560 | 400-480 | 560-1000 | 840-920 | 730-1410 | 690-820 |
| Los Angeles | 610-910 | 80-160 | 1140-1670 | 370-580 | 1650-2350 | 250-440 |
| Louisville | 470-670 | 290-430 | 770-1250 | 710-830 | 1000-1720 | 570-720 |
| Madison | 210-310 | 390-470 | 320-640 | 840-900 | 420-900 | 700-800 |
| Memphis | 580-830 | 170-240 | 950-1350 | 420-600 | 1250-1780 | 330-510 |
| Miami | 950-1300 | 10 | 1500-2150 | 35-45 | 1920-2740 | 25-40 |
| Minneapolis | 200-300 | 420-500 | 320-610 | 860-950 | 430-870 | 720-860 |
| Montgomery | 630-910 | 120-180 | 1060-1510 | 330-470 | 1390-1990 | 250-400 |
| Nashville | 520-740 | 250-320 | 830-1280 | 590-680 | 1030-1710 | 470-590 |
| New Orleans | 690-990 | 70-110 | 1200-1720 | 230-320 | 1570-2240 | 160-260 |
| New York | 360-550 | 350-440 | 540-1040 | 790-870 | 720-1480 | 630-760 |
| Omaha | 310-440 | 330-400 | 480-820 | 720-800 | 610-1130 | 600-720 |
| Phoenix | 710-1020 | 70-110 | 1130-1610 | 210-290 | 1430-2090 | 170-250 |
| Pittsburgh | 300-530 | 470-500 | 440-920 | 910-950 | 600-1310 | 750-840 |
| Portland, ME | 190-300 | 400-480 | 310-630 | 880-980 | 410-900 | 710-870 |
| Richmond, VA | 510-730 | 270-410 | 880-1310 | 660-820 | 1110-1770 | 520-710 |
| Sacramento | 600-850 | 220-360 | 1000-1430 | 640-990 | 1390-2020 | 480-830 |
| Salt Lake City | 410-710 | 520-540 | 510-1090 | 1040-1060 | 660-1520 | 830-930 |
| Seattle | 260-460 | 460-650 | 440-1200 | 1270-1370 | 710-1860 | 960-1170 |
| St. Louis | 390-550 | 280-400 | 680-1100 | 710-800 | 850-1500 | 570-700 |
| Tampa | 780-1110 | 40-60 | 1440-2000 | 140-190 | 1780-2560 | 100-160 |
| Tulsa | 540-770 | 240-300 | 830-1300 | 560-620 | 1030-1730 | 450-540 |

Modified from: "Development of Equivalent Full Load Heating and Cooling Hours for GCHPs Applied to Various Building Types and Locations", ASHRAE 1120-TRP, Final Report, CDH Energy Corp., Cazenovia, NY, Sept. 2000.