ATLANTA MUNICIPAL, GA, USA

WMO#: 722190 313 Lat: 33.64N Long: 84.43W Elev: StdP: 97.62 Time Zone: -5.00 (NAE) Period: 86-10 WBAN: 13874 Annual Heating and Humidification Design Conditions Humidification DP/MCDB and HR Coldest month WS/MCDB Coldest Heating DB 99.6% to 99.6% DB Month 99.6% 99% HR MCDB HR MCDB WS MCDB MCDB **MCWS PCWD** (a) (b) (c) (d) (e) (f)(g) (h) (i)(j) (k) (1) (m) (n)(0) 320 1 -5.8 -3.1 -15.5 1.0 -1.9 -12.7 1.3 0.1 11.1 4.4 10.5 4.4 5.3 (1) (1) ling, Dehumidification, and Enthalpy Design Co Annual C Hottest Cooling DB/MCWB Evaporation WB/MCDB MCWS/PCWD Hottest Month to 0.4% DB Month MCWB DB Range DB MCWB DB DB **MCWB** WB MCDB MCDB WB MCDB MCWS PCWD (a) (b) (e) (k) (c) (d) (f) (q) (h) (i)(i) (1)(m) (0) (n) (p) 7 9.4 34.4 23.4 33.1 23.3 32.1 23.0 25.2 31.4 24.7 30.4 24.1 29.4 3.9 300 (2) (2) Dehumidification DP/MCDB and HR Enthalpy/MCDB Hours 0.4% 2% 8 to 4 & 0.4% DP MCDB DP **MCDB** DP HR MCDB MCDB MCDB Enth MCDB Enth Enth HR HR 12.8/20.6 (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (1) (m) (n) (0) (p) 19.0 76.0 74.0 23.5 27 4 23.0 18.4 26.8 22.6 17.9 26.5 78.3 31.4 30.4 29.8 800 (3) (3) Extreme Extreme Annual DB n-Year Return Period Values of Extreme DB Extreme Annual WS Standard deviation Max Mear n=5 years n=10 years n=20 years n=50 years 2.5% 5% WB Min Max Min Max Min Max Min Min Min Max 1% Max Max (a) (b) (c) (h) (i) (k) (1) (m) (d) (e) (f) (q) (i) (n) (0) (p) 9.6 8.5 7.7 28.0 -10.0 35.9 2.5 1.8 -11.7 37.3 -13.2 38.3 -14.5 39.4 -16.3 40.7 (4) (4) Monthly Climatic Design Conditions Sep Annual Jan Feb Mar Apr May Jun Jul Aug Oct Nov Dec (0) (d) (e) (f) (g) (h) (i)(j) (k) (1)(m) (n) (p) 17.1 6.9 8.7 12.7 16.9 21.4 25.1 26.8 26.4 23.2 17.3 12.3 7.6 (5) Tavg (5) (6) Sd 5.23 5.06 4.95 4.27 3.27 2.51 1.92 2.18 3.08 3.94 4.52 4.95 (6) HDD10.0 373 123 31 4 0 0 0 0 0 2 29 107 (7) 77 (7) Temperatures. 75 0 0 4 186 HDD18.3 1484 354 269 183 12 1 66 334 (8) (8) Degree-Days and CDD10.0 2983 28 42 113 210 352 454 521 509 396 230 97 32 (9) (9) Degree-Hours 151 1052 0 7 31 106 204 263 251 35 4 (10) CDD18.3 1 1 (10) 0 3 54 259 807 1851 2548 2342 1103 186 15 CDH23.3 9169 1 (11)(11)(12)CDH26.7 3477 0 0 5 47 217 744 1116 978 348 21 1 0 (12)PrecAvg 1289 121 122 147 108 109 90 127 93 87 77 98 110 (13)(13)1649 258 296 301 213 187 216 220 154 191 182 252 (14)PrecMax 324 (14)Precipitation PrecMin 958 44 20 62 38 10 25 19 13 18 2 23 17 (15)(15)PrecSD 182.9 53.7 69.8 59.2 45.6 56.0 56.9 40.7 52.7 39.5 60.1 (16) 68.5 61.4 (16) 21.4 23.0 27.1 32.2 34.7 28.7 25.4 22.3 (17)DB 29.9 36.6 36.3 33.7 (17)0.4% **MCWB** 15.4 16.5 16.9 18.9 22.0 22.8 23.7 23.9 22.5 20.8 17.7 17.2 (18)(18)Monthly Design DB 18.9 20.7 24.8 28.0 30.5 33.2 34.7 34.1 31.6 27.1 23.1 19.7 (19)(19)Dry Bulb 2% (20) **MCWB** 14.5 15.0 15.6 17.9 21.0 22.7 23.7 23.7 21.9 19.2 16.7 16.1 (20) and Mean Coincident DB 17.1 18.8 22.9 26.4 29.0 32.2 33.3 32.7 30.1 25.6 21.6 17.6 (21)(21)5% Wet Bulb 14.0 20.4 22.5 23.5 21.6 18.2 MCWB 13.6 14.9 17.1 23.6 16.1 14.7 (22)(22)Temperatures 17.1 27.6 30.9 DB 15.1 21.0 24.5 32.0 31.4 28.7 23.8 19.8 15.7 (23) (23)10% (24) **MCWB** 11.7 12.7 14.1 16.4 19.7 22.1 23.5 23.2 21.4 17.8 15.2 12.2 (24)WB 17.8 18.6 19.1 21.6 23.9 25.1 26.0 25.8 24.6 22.6 20.7 18.9 (25) (25) 0.4% 19.6 19.8 22.9 28.6 32.1 32.3 29.9 26.6 22.4 20.6 (26) **MCDB** 26.2 31.4 (26)Monthly Design WB 16.1 17.0 17.8 20.0 22.7 24.3 25.2 25.2 23.6 21.4 19.2 17.3 (27)(27)Wet Bulb 2% MCDB 17.8 19.2 22.0 24.6 28.0 30.3 31.4 31.5 28.3 24.5 21.3 18.8 (28)and (28)Mean Coincident 23.8 24.7 24.6 23.1 20.5 17.8 14.4 15.5 16.7 19.0 21.8 15.5 (29)WB (29) 5% Dry Bulb MCDB 16.4 17.9 20.8 23.4 26.9 29.4 30.5 30.3 27.3 23.1 20.0 17.5 (30)(30)Temperatures (31) WB 12.5 13.6 15.5 17.9 21.0 23.2 24.1 24.1 22.5 19.4 16.3 12.9 (31) 10% 22.3 28.3 29.5 29.2 26.5 22.2 18.8 (32)**MCDB** 14.5 15.9 19.1 25.7 14.7 (32) 9.6 10.1 10.8 11.2 10.3 9.6 9.4 9.2 9.1 10.1 10.2 9.3 MDBR (33)(33)11.3 11.6 12.8 12.7 11.3 11.2 11.4 10.8 10.6 11.3 11.5 11.0 (34)MCDBR (34)Mean Daily 5% DB Temperature **MCWBR** 7.9 7.2 6.3 5.4 4.3 3.6 3.5 3.3 3.8 5.0 6.5 7.7 (35) (35)Range (36) MCDBR 9.3 9.6 10.0 10.2 96 9.6 9.8 9.5 8.6 8.2 9.1 9.5 (36)5% WB 7.8 7.4 5.6 4.3 3.8 3.6 3.4 3.9 4.9 6.9 7.9 MCWBR 6.4 (37) (37)0.334 0.324 0.379 0.406 0.440 0.427 0.388 0.358 0.354 (38) 0.355 0.383 0.335 taub (38) Clear Sky 2.614 2.580 2.474 2.328 2.324 2.270 2.202 2.269 2.428 2.514 2.523 2.618 (39)taud (39)Solar 884 932 922 904 907 877 846 852 875 879 847 861 (40) Ebn,noon (40) Irradiance Edh,noon 77 87 105 127 129 136 144 133 109 92 84 73 (41)(41)

Nomenclature: See separate page