

Review of results analysis temperature reporting.

Reports of temperatures and temperature differences in the results analysis module can be confusing and the following text and figure should clarify this.

There are a number of temperatures that can be reported in the results analysis module such as Ambient (outside) dry bulb temperature, zone dry bulb temperature, differences between zone and ambient temperature, differences between two zone temperatures. This is illustrated by the following figure which lists:

- 1st ambient outside temperature
- 2nd office_e_0
- 3rd office_w_0
- 4th office_e_1.
- 5th difference office_e_0 and ambient
- 6th difference office_w_1 and ambient
- 7th difference office_e_1 and ambient
- 8th difference office_e_1 and office_e_0
- 9th difference office_e_1 and office_w_0
- 10th difference office_e_1 and office_e_1 (all zeros)

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Timestep performance metrics.
Lib: office_nsb_spr.res: Results for office_nsb
Period: Mon-14-May@00h15(2001) to Mon-14-May@17h45(2001) : sim@30m, output@30m
Time | Ambient db | office_e_0 | office_w_0 | office_e_1 | office_e_0 | office_w_0 | office_e_1 | office_e_0 | office_w_0 | office_e_1
    | (degC)   | (degC)   | (degC)   | (degC)   | Del dbT   | Del dbT   | Del dbT   | Del znT   | Del znT   | Del znT
    | (degC)   | (degC)   | (degC)   | (degC)   | (degC)   | (degC)   | (degC)   | (degC)   | (degC)   | (degC)
00h15  7.35     15.54     15.52     19.25     8.19      8.17      11.90     -3.71     -3.72     0.00
00h45  7.65     15.56     15.54     19.18     7.91      7.89      11.53     -3.62     -3.64     0.00
01h15  7.80     15.57     15.55     19.10     7.77      7.75      11.30     -3.53     -3.55     0.00
01h45  7.80     15.56     15.55     19.00     7.76      7.75      11.20     -3.44     -3.46     0.00
02h15  7.65     15.54     15.52     18.89     7.89      7.87      11.24     -3.35     -3.37     0.00
02h45  7.35     15.49     15.48     18.76     8.14      8.13      11.41     -3.27     -3.29     0.00
03h15  6.92     15.42     15.40     18.60     8.49      8.48      11.68     -3.19     -3.20     0.00
03h45  6.38     15.31     15.30     18.42     8.94      8.92      12.04     -3.11     -3.12     0.00
04h15  5.97     15.20     15.19     18.23     9.23      9.21      12.25     -3.02     -3.04     0.00
04h45  5.72     15.12     15.11     18.07     9.40      9.38      12.34     -2.94     -2.96     0.00
05h15  6.00     15.21     15.13     18.08     9.21      9.13      12.08     -2.87     -2.95     0.00
05h45  6.80     15.60     15.33     18.38     8.80      8.53      11.58     -2.78     -3.05     0.00
06h15  7.62     16.20     15.62     18.89     8.57      7.99      11.26     -2.69     -3.27     0.00
06h45  8.47     16.83     15.90     19.43     8.36      7.42     10.95     -2.60     -3.53     0.00
07h15  9.60     17.45     16.21     19.96     7.85      6.61     10.36     -2.51     -3.76     0.00
07h45  11.00     19.99     19.30     21.23     8.99      8.30     10.23     -1.24     -1.92     0.00
08h15  11.98     23.01     23.01     23.00     11.03     11.03     11.02     0.01     0.01     0.00
08h45  12.52     23.01     23.01     23.10     10.48     10.48     10.57     -0.09     -0.09     0.00
09h15  13.20     22.22     22.34     22.36     9.02      9.14      9.16     -0.14     -0.02     0.00
09h45  14.00     22.22     22.34     22.87     8.22      8.34      8.87     -0.65     -0.52     0.00
10h15  14.55     22.49     22.63     23.60     7.94      8.08      9.05     -1.11     -0.96     0.00
10h45  14.85     22.62     22.63     23.78     7.77      7.78      8.93     -1.16     -1.15     0.00
11h15  14.73     22.61     22.41     23.80     7.88      7.69      9.07     -1.19     -1.39     0.00
11h45  14.17     22.59     22.51     23.80     8.42      8.33      9.62     -1.21     -1.29     0.00
12h15  14.02     22.34     22.31     23.76     8.32      8.29      9.73     -1.42     -1.44     0.00
12h45  14.27     22.22     22.22     23.76     7.94      7.94      9.48     -1.54     -1.54     0.00
13h15  14.55     22.25     22.28     23.80     7.70      7.73      9.25     -1.55     -1.52     0.00
13h45  14.85     22.38     22.54     23.80     7.53      7.69      8.95     -1.42     -1.26     0.00
14h15  14.85     22.57     22.91     23.80     7.72      8.06      8.95     -1.23     -0.89     0.00
    
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Figure 1 ambient and zone and delta with ambient and delta zones

If a number of zones are already selected via the 'select zones' option and you then ask for 'zone db T – ambient db T' what is reported is clear.

If a number of zones are already selected via the 'select zones' option and you then ask for 'zone db T – other zone db T' you are asked for the other zone and the report (as seen in the last 3 columns) will list out, in turn, the temperature difference between each of the original list of zones and the nominated zone e.g. At 14h15 (office_w_0) 22.91 – (office_e_1) 23.8 = -0.89.