

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)

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									
	Tmp	db T	db T	db T	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

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.