

**Results7-2.xls, sheet "Sec7-2out"**

**Software name:**  Enter the name and version of the software used. Use abbreviation if needed.

**Organizations submitting results:**  Enter the name of the organization.

**Results:** **Instructions:** Enter test case results as specified in Sections 8.1 and 8.2 next to test case name and test case length as defined by the tool being tested in units of million Btu; see row 31 for average values of example results (average of subsets of results for L302A - L324AB).

**Tier 1 Test Cases:**

Heating Cases:

	Heating Load (Million Btu)	
L100AC	68.31	68.31
L110AC	90.76	90.76
L120AC	55.09	55.09
L130AC	49.04	49.04
L140AC	56.99	56.99
L150AC	50.06	50.06
L155AC	62.75	62.75
L160AC	70.51	70.51
L170AC	76.12	76.12
L200AC	156.43	156.43
L202AC	156.43	156.43
L302AB	69.53	69.53
L304AB	61.04	61.04
L322AB	96.07	96.07
L324AB	68.75	68.75

Cooling Cases:

	Cooling Load (Million Btu)
L100AL	72.41
L110AL	71.73
L120AL	73.78
L130AL	42.74
L140AL	16.88
L150AL	94.85
L155AL	64.36
L160AL	86.46
L170AL	58.16
L200AL	74.02
L202AL	74.02

**Tier 2 Test Cases**

Heating Cases:

	Heating Load (Million Btu)
L165AC	69.87
P100AC	12.24
P105AC	14.55
P110AC	22.11
P140AC	28.22
P150AC	25.23

**Seasons:** **Instructions:** Enter first and last Julian date (365 day year) for each season in yellow cells.

Heating:

First day	Last day
1	365

Cooling:

First day	Last day
1	365

number of the software being tested in Cell E3 (merged cells);  
d, so that name of tested software fits well on the charts

zation submitting results in Cell E5 (merged cells)

æ in yellow cells, for heating and cooling seasons for the entire year or some other reasonable  
r season entry instructions. (Note, currently shown load values are automatically calculated  
L324A); simply overwrite those formulas when entering values for the tested program.)

Cooling Cases:

	Cooling Load (Million Btu)
L165AL	55.74
P100AC	20.40
P105AC	13.00
P110AC	32.51
P140AC	2.09
P150AC	13.83

Example Seasons:

Heating:	05-sep	10-apr
	248	100
Cooling:	10-maj	15-sep
	131	258

### Example Results Seasonal Loads

Table B20-1. HERS BESTEST Tier-1 Example Results – Annual or Seasonal Heating Loads (10<sup>6</sup> Btu/y) for Colorado Springs,

Example Results:	Statistics:				Program	Interval
Test Case	min	max	mean	(max -min) /mean**	Be10	Indenfor/ Udenfor
L100AC	58.00	72.39	64.11	22%	68.31	Indenfor
L110AC	81.39	96.53	87.96	17%	90.76	Indenfor
L120AC	45.10	57.82	51.06	25%	55.09	Indenfor
L130AC	45.84	49.98	47.39	9%	49.04	Indenfor
L140AC	47.25	52.48	49.63	11%	56.99	Udenfor
L150AC	49.48	64.03	56.15	26%	50.06	Indenfor
L155AC	52.30	66.90	58.86	25%	62.75	Indenfor
L160AC	58.29	73.51	64.90	23%	70.51	Indenfor
L170AC	71.65	85.46	76.72	18%	76.12	Indenfor
L200AC	133.97	168.34	146.14	24%	156.43	Indenfor
L202AC	137.47	172.55	150.69	23%	Ej udført	
L302BC	60.12	73.10	66.15	20%	69.53	Indenfor
L304BC	50.12	61.59	55.77	21%	61.04	Indenfor
L322A1	88.26	105.94	95.28	19%	96.07	Indenfor
L324A1	61.11	72.58	66.20	17%	68.75	Indenfor

\*\* ABS [(max - min) / (mean of Example Results)]

Table B20-2. HERS BESTEST Tier-1 Example Results – Delta Annual or Seasonal Heating Loads (10<sup>6</sup> Btu/y) for Colorado

Example Results:	Statistics:			
Test Case Delta	min	max	mean	(max -min) /mean**
L110AC-L100AC	23.39	24.14	23.85	3%
L120AC-L100AC	-14.57	-11.67	-13.05	22%
L130AC-L100AC	-22.41	-12.16	-16.72	61%
L140AC-L100AC	-19.91	-10.75	-14.48	63%
L150AC-L100AC	-8.52	-7.01	-7.96	19%
L155AC-L150AC	2.46	2.87	2.72	15%
L160AC-L100AC	0.29	1.12	0.79	105%
L170AC-L100AC	11.12	13.65	12.61	20%
L200AC-L100AC	72.03	95.95	82.03	29%
L202AC-L200AC	3.50	5.94	4.55	54%
L302AC-L100AC	8.56	10.53	9.51	21%
L302BC-L100AC	0.71	3.30	2.04	127%
L302AC-L304AC	10.45	13.76	11.67	28%
L302BC-L304BC	9.65	11.51	10.39	18%
L322A1-L100AC	29.71	33.55	31.17	12%
L322A2-L100AC	28.32	35.29	31.39	22%
L322B1-L100AC	19.72	20.00	19.87	1%
L322B2-L100AC	19.71	26.03	23.54	27%
L322A1-L324A1	26.74	33.36	29.08	23%
L322A2-L324A2	26.01	34.21	29.23	28%
L322B1-L324B1	25.23	29.94	27.50	17%
L322B2-L324B2	26.80	30.99	28.45	15%

\*\* ABS [(max - min) / (mean of Example Results)]

Table B20-3. HERS BESTEST Tier-1 Example Results – Annual or Seasonal Sensible Cooling Loads (10<sup>6</sup> Btu/y) for Las Vegas,

Example Results:	Statistics:				Program	Interval	Afvigelse
Test Case	min	max	mean	(max -min) /mean**	Be10	Indenfor/ Udenfor	Procentvis
L100AL	54.66	60.80	58.26	11%	72.41	Udenfor	19.1%
L110AL	57.71	63.82	61.57	10%	71.73	Udenfor	12.4%
L120AL	51.36	56.14	54.17	9%	73.78	Udenfor	31.4%
L130AL	36.96	41.25	39.05	11%	42.74	Udenfor	3.6%
L140AL	23.52	26.54	24.90	12%	16.88	Udenfor	-28.2%
L150AL	67.73	77.35	72.37	13%	94.85	Udenfor	22.6%
L155AL	54.09	59.06	56.89	9%	64.36	Udenfor	9.0%
L160AL	62.62	68.69	66.31	9%	86.46	Udenfor	25.9%
L170AL	45.83	49.30	48.07	7%	58.16	Udenfor	18.0%
L200AL	65.71	76.71	71.84	15%	74.02	Indenfor	
L202AL	59.61	70.57	64.14	17%	Ej udført		

\*\* ABS [(max - min) / (mean of Example Results)]

Table B20-4. HERS BESTEST Tier-1 Example Results – Delta Annual or Seasonal Sensible Cooling Loads (10<sup>6</sup> Btu/y) for Las

Example Results:	Statistics:			
Test Case Delta	min	max	mean	(max -min) /mean**
L110AL-L100AL	3.02	3.86	3.31	25%
L120AL-L100AL	-4.66	-3.30	-4.09	33%
L130AL-L100AL	-20.39	-17.70	-19.21	14%
L140AL-L100AL	-34.68	-31.14	-33.36	11%
L150AL-L100AL	12.71	16.55	14.11	27%
L155AL-L150AL	-18.29	-13.64	-15.48	30%
L160AL-L100AL	7.89	8.30	8.05	5%
L170AL-L100AL	-11.72	-8.83	-10.19	28%
L200AL-L100AL	11.05	17.39	13.58	47%
L202AL-L200AL	-10.86	-6.10	-7.70	62%

\*\* ABS [(max - min) / (mean of Example Results)]

Table B20-5. HERS BESTEST Tier-2 Example Results – Annual or Seasonal Heating Loads (10<sup>6</sup> Btu/y) for Colorado Springs,

Example Results:	Statistics:			
Test Case	min	max	mean	(max - min) / mean**
L165AC	64.73	78.05	69.87	19%
P100AC	10.02	14.40	12.24	36%
P105AC	12.10	16.96	14.55	33%
P110AC	20.17	23.78	22.11	16%
P140AC	25.82	29.42	28.22	13%
P150AC	22.58	28.01	25.23	22%

\*\* ABS [(max - min) / (mean of Example Results)]

Table B20-6. HERS BESTEST Tier-2 Example Results – Delta Annual or Seasonal Heating Loads (10<sup>6</sup> Btu/y) for Colorado

Example Results:	Statistics:			
Test Case Delta	min	max	mean	(max - min) / mean**
L165AC-L160AC	3.94	6.44	4.97	50%
P105AC-P100AC	2.08	2.56	2.31	21%
P110AC-P100AC	9.38	10.15	9.86	8%
P140AC-P100AC	15.02	17.11	15.98	13%
P150AC-P100AC	12.56	13.61	12.99	8%

\*\* ABS [(max - min) / (mean of Example Results)]

Table B20-7. HERS BESTEST Tier-2 Example Results – Annual or Seasonal Sensible Cooling Loads (10<sup>6</sup> Btu/y) for Las Vegas,

Example Results:	Statistics:			
Test Case	min	max	mean	(max - min) / mean**
L165AL	52.87	59.58	55.74	12%
P100AC	18.11	23.01	20.40	24%
P105AC	11.94	13.61	13.00	13%
P110AC	30.19	36.48	32.51	19%
P140AC	1.68	2.84	2.09	56%
P150AC	12.43	15.03	13.83	19%

\*\* ABS [(max - min) / (mean of Example Results)]

Table B20-8. HERS BESTEST Tier-2 Example Results – Delta Annual or Seasonal Sensible Cooling Loads (10<sup>6</sup> Btu/y) for Las

Example Results:	Statistics:			
Test Case Delta	min	max	mean	(max - min) / mean**
L165AL-L160AL	-15.82	-7.85	-10.57	75%
P105AC-P100AC	-9.40	-6.17	-7.39	44%
P110AC-P100AC	10.79	13.47	12.11	22%
P140AC-P100AC	-20.17	-16.43	-18.31	20%
P150AC-P100AC	-7.98	-5.68	-6.57	35%

\*\* ABS [(max - min) / (mean of Example Results)]

**Figure B20-1. HERS BESTEST Tier-1 Example Results – Annual or Seasonal Heating Load (L100AC - L202AC), Colorado Springs, CO**

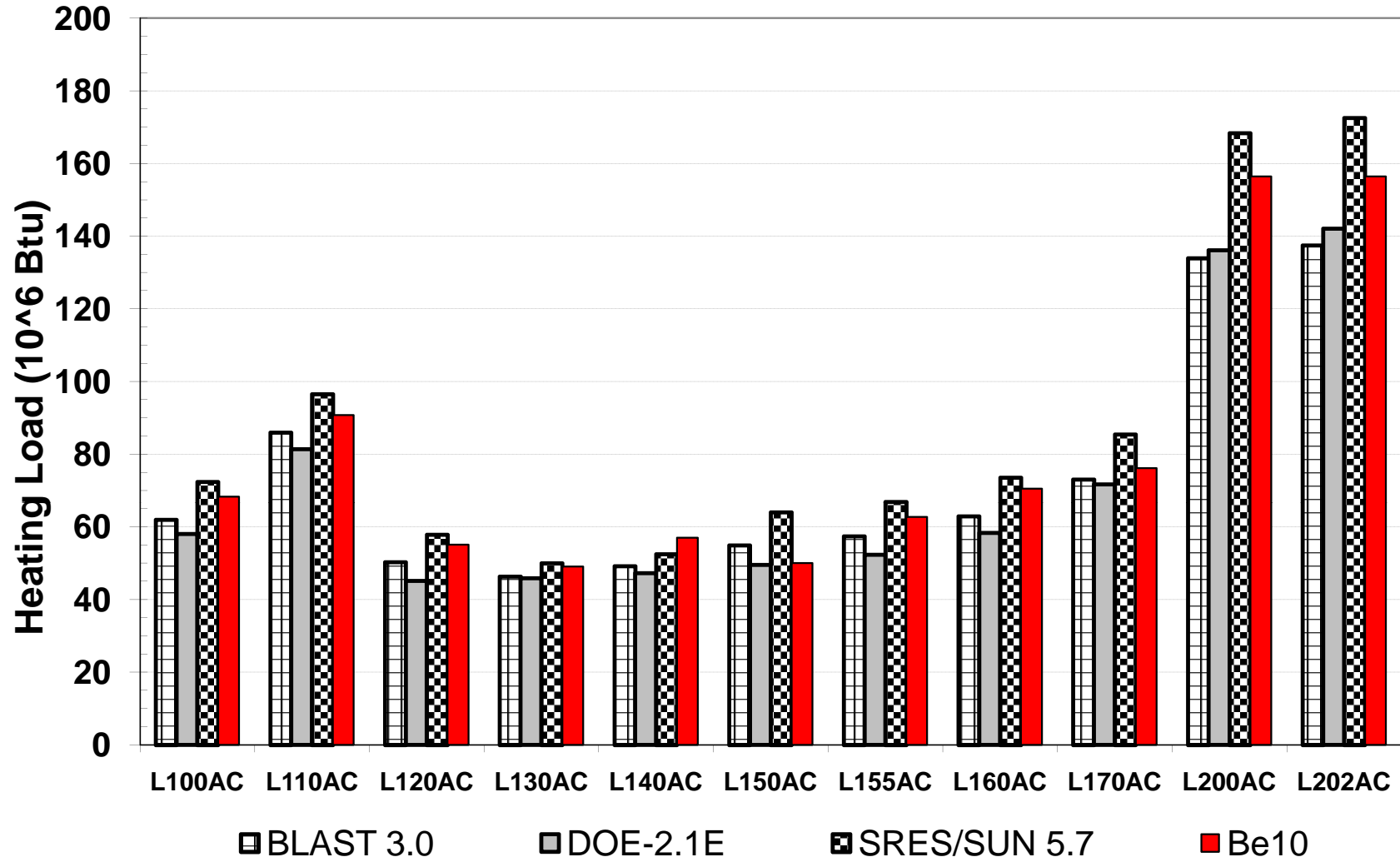
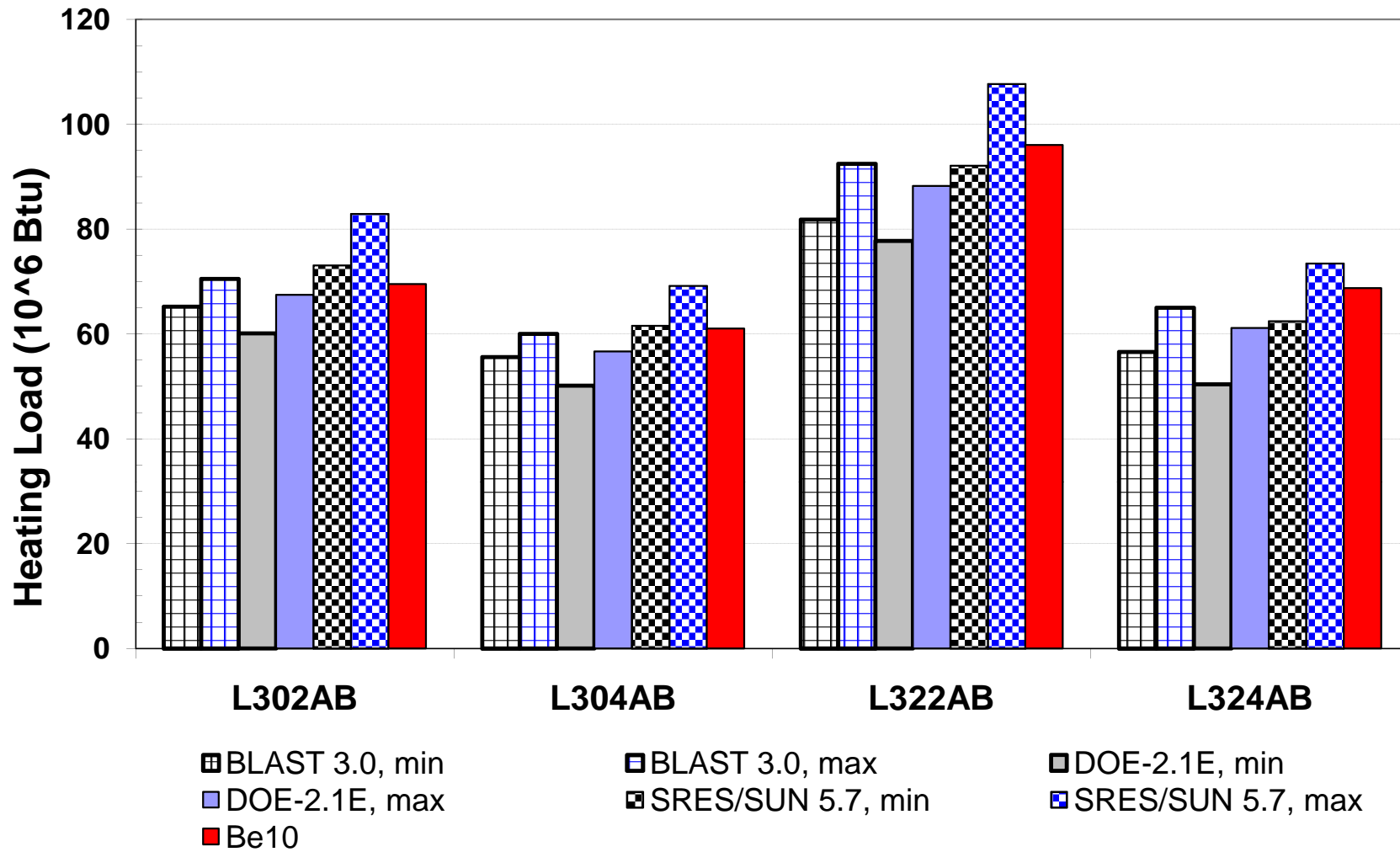
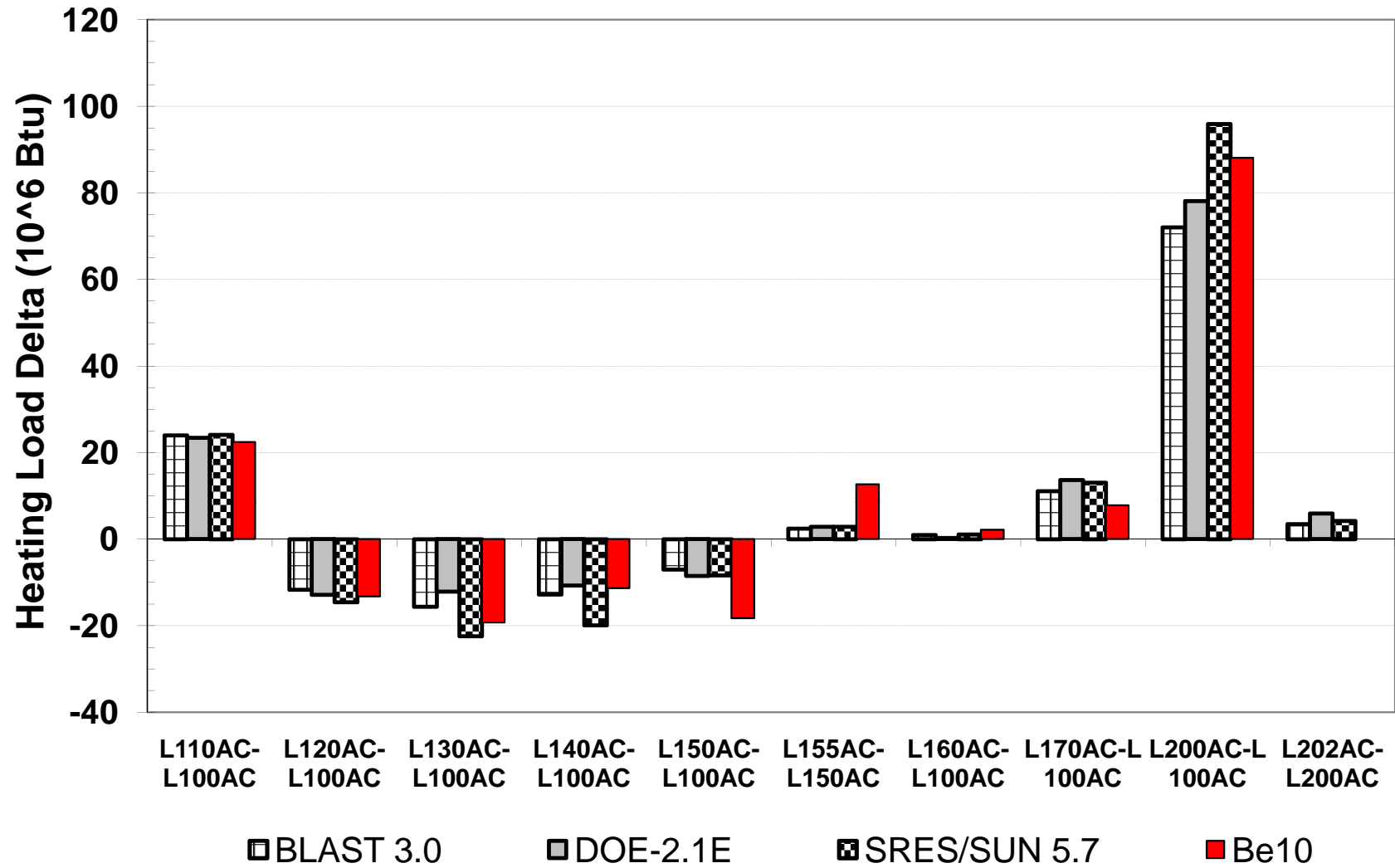


Figure B20-2. HERS BESTEST Tier-1 Example Results – Annual or Seasonal Heating Load (L302AB - L324AB), Colorado Springs, CO



**Figure B20-3. HERS BESTEST Tier-1 Example Results – Delta Annual or Seasonal Heating Load (L110AC - L202AC), Colorado Springs, CO**





**Figure B20-4. HERS BESTEST Tier-1 Example Results – Delta Annual or Seasonal Heating Load (L302AB - L324AB), Colorado Springs, CO**

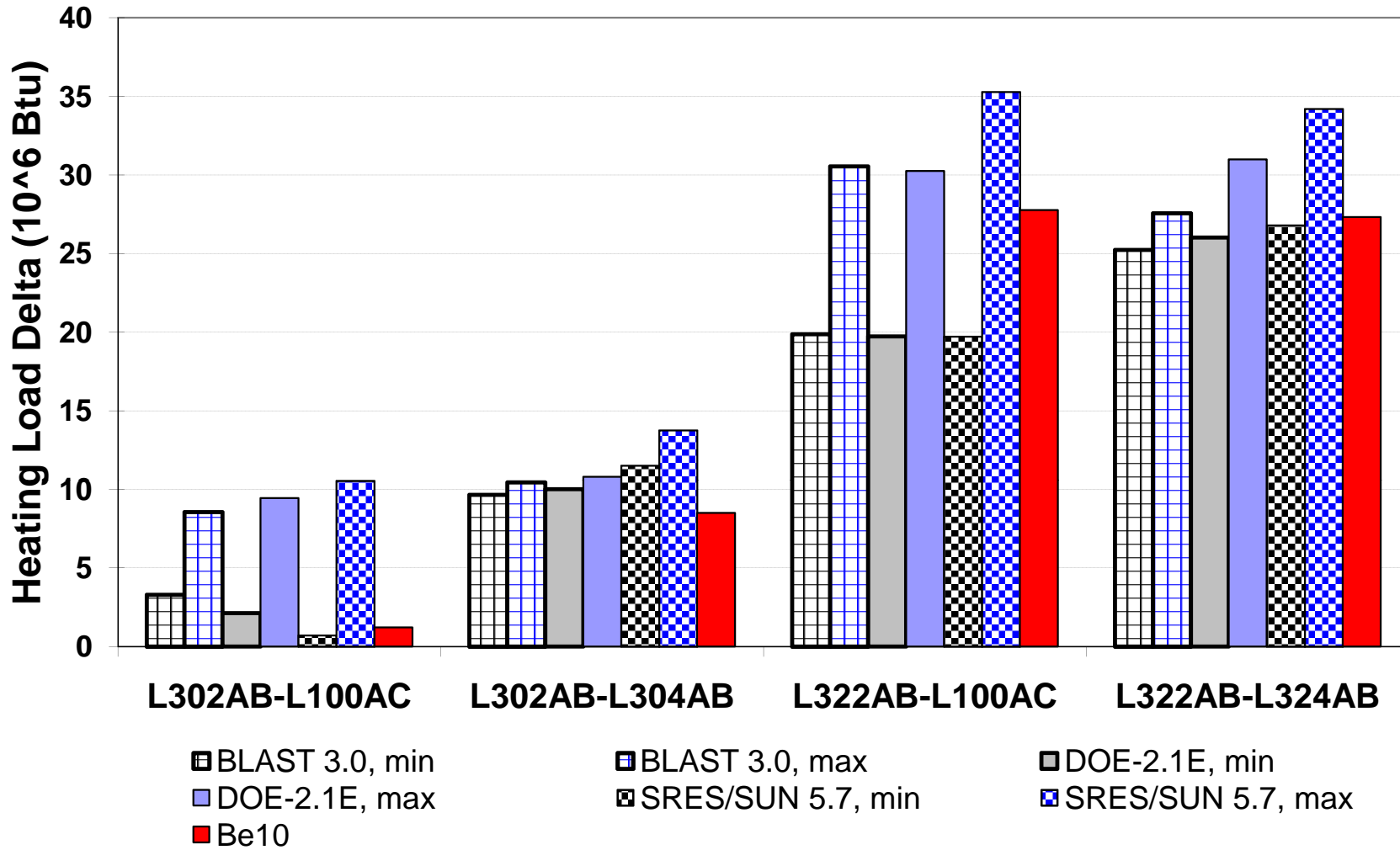


Figure B20-5. HERS BESTEST Tier-1 Example Results – Annual or Seasonal Sensible Cooling Load (L100AL – L150AL), Las Vegas, NV

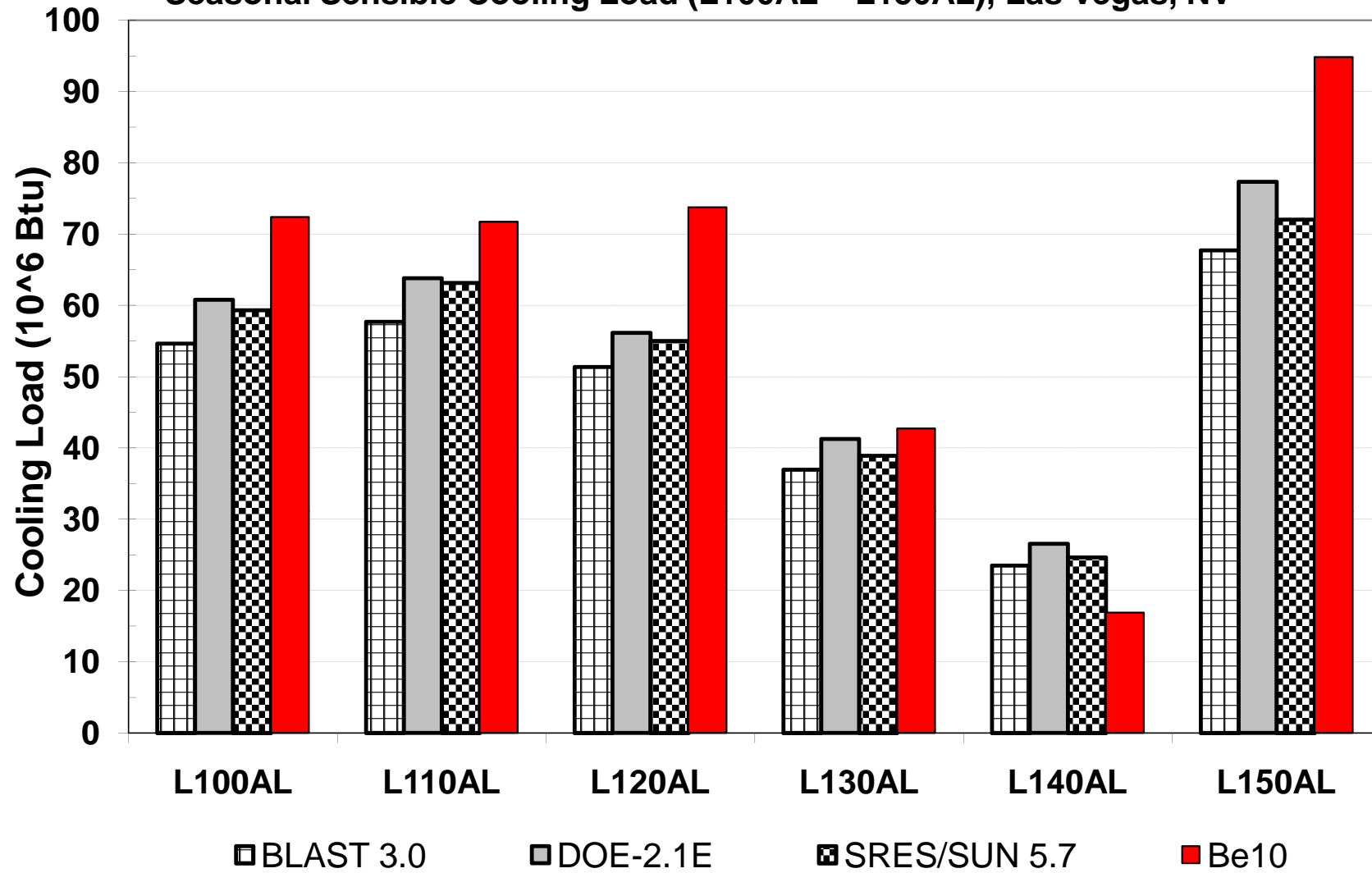
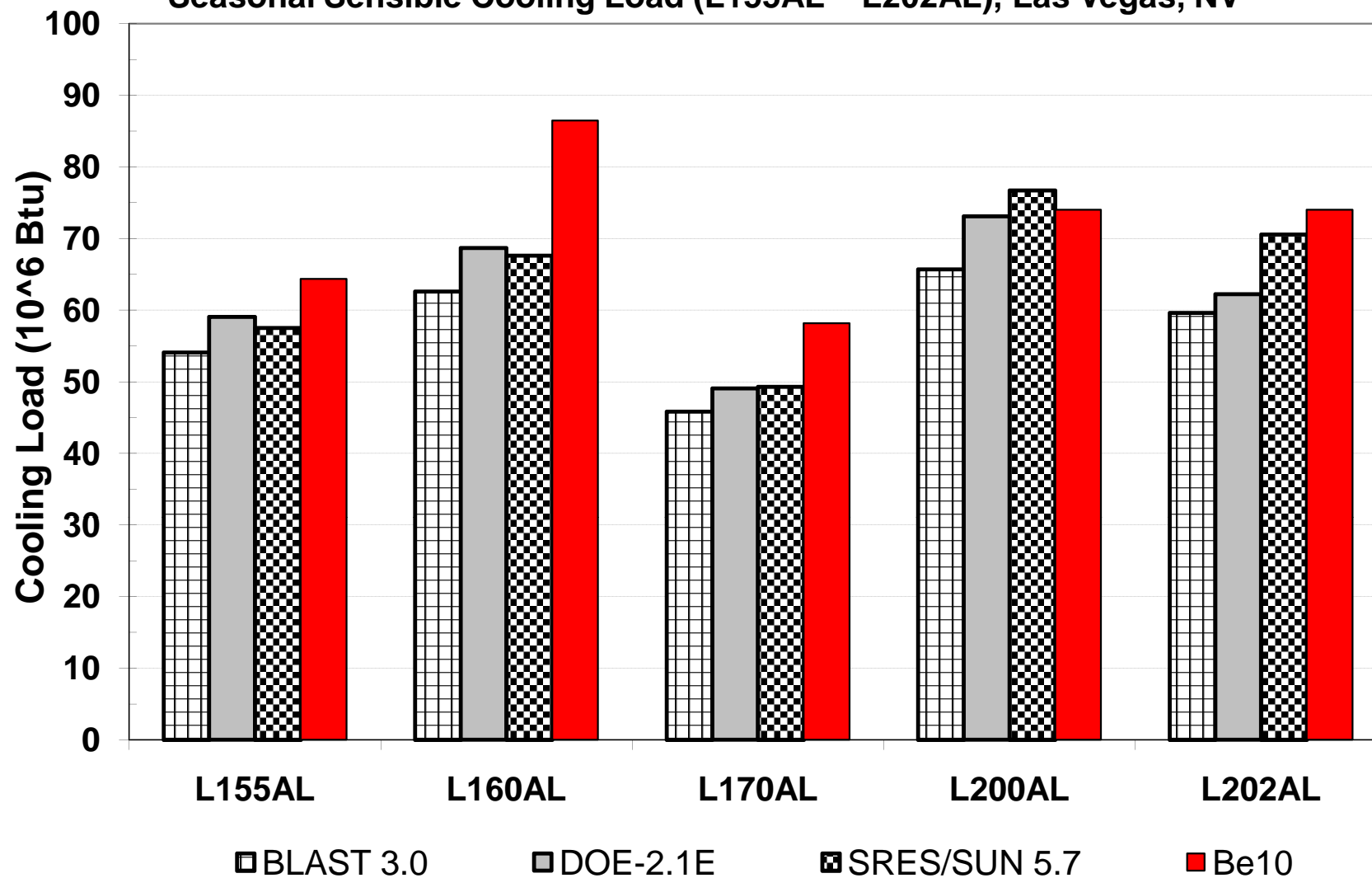
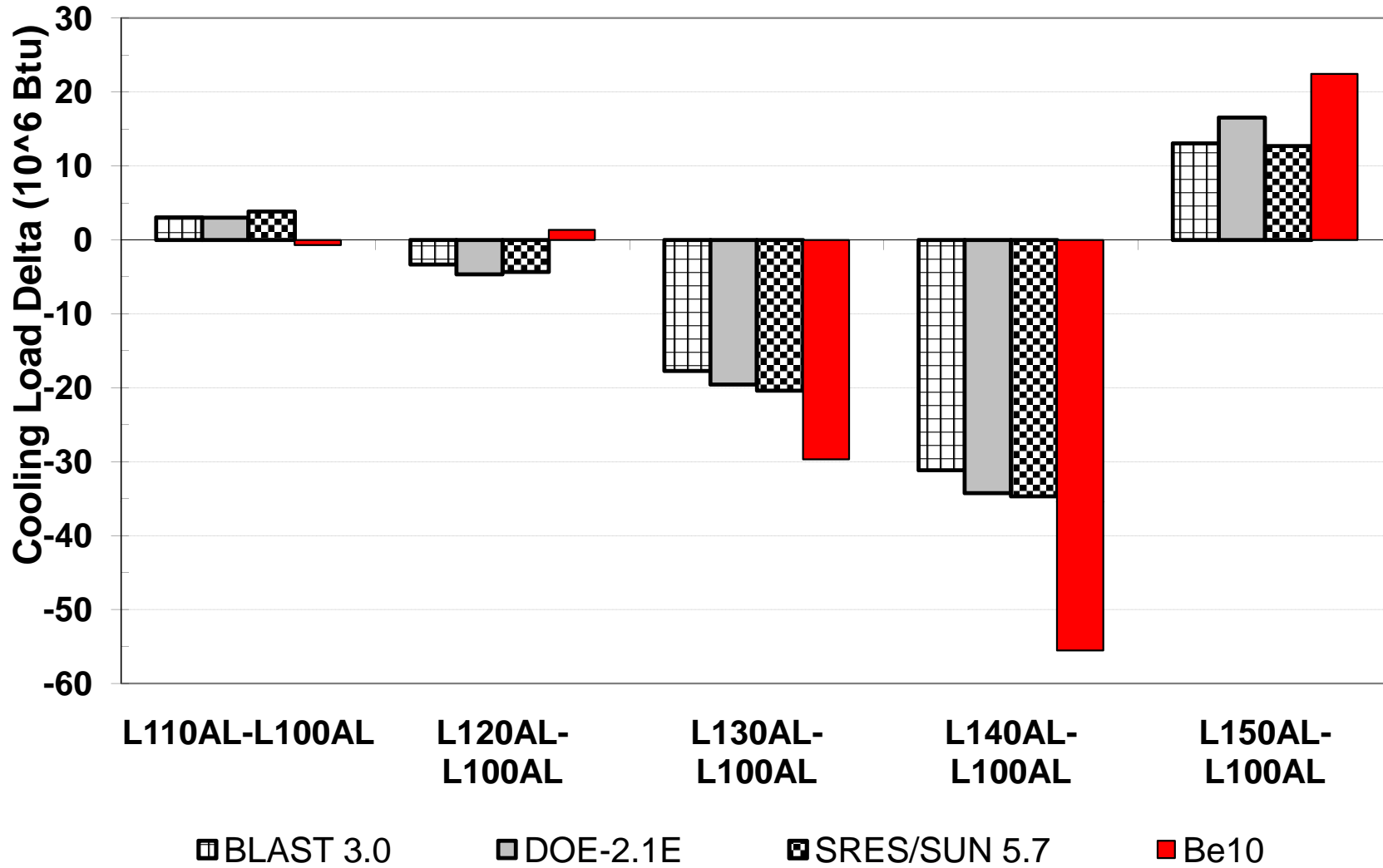


Figure B20-6. HERS BESTEST Tier-1 Example Results – Annual or Seasonal Sensible Cooling Load (L155AL – L202AL), Las Vegas, NV



**Figure B20-7. HERS BESTEST Tier-1 Example Results – Delta Annual or Seasonal Sensible Cooling Load (L110AL - L150AL), Las Vegas, NV**



**Figure B20-8. HERS BESTEST Tier-1 Example Results – Delta Annual or Seasonal Sensible Cooling Load (L155AL - L202AL), Las Vegas, NV**

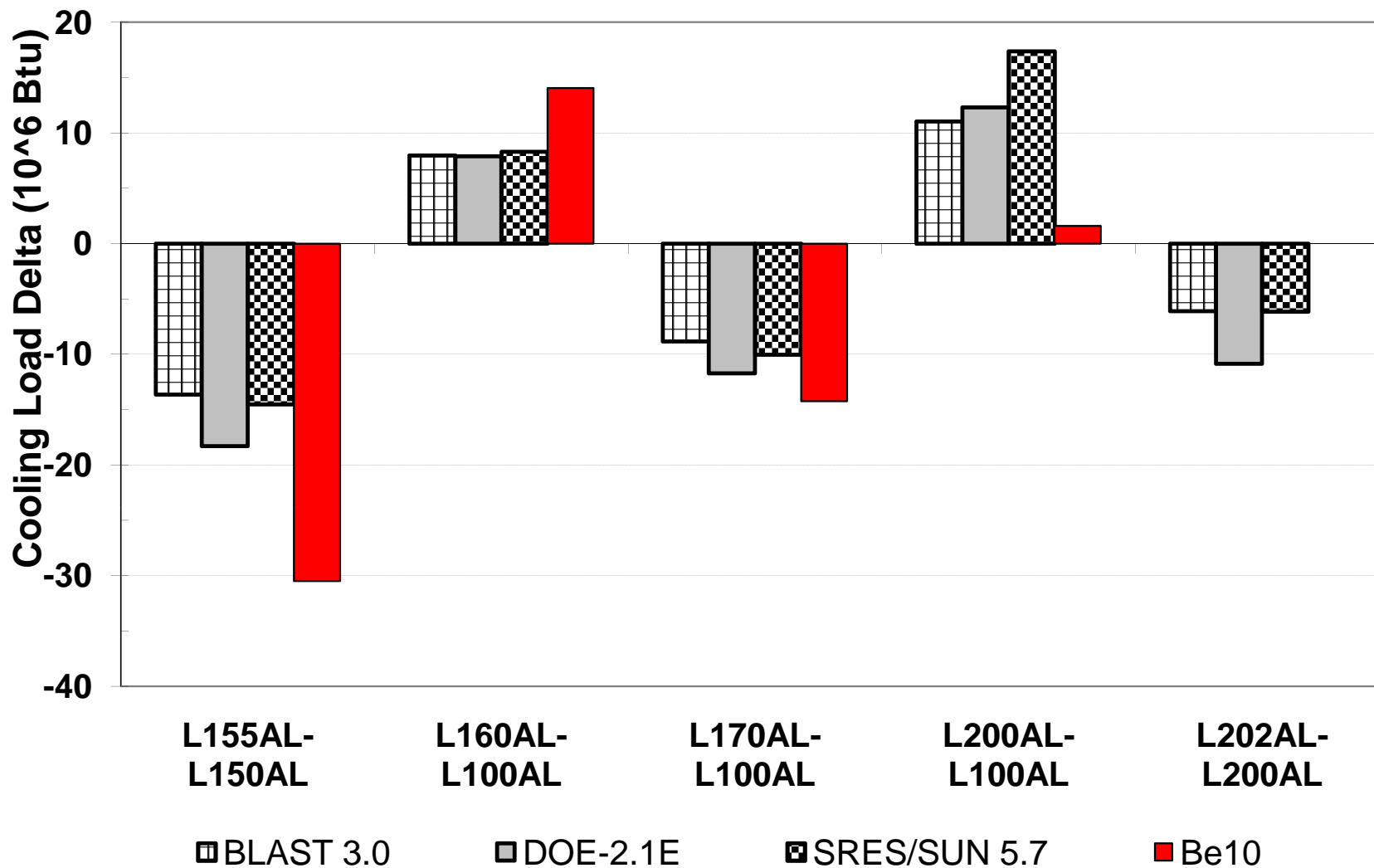
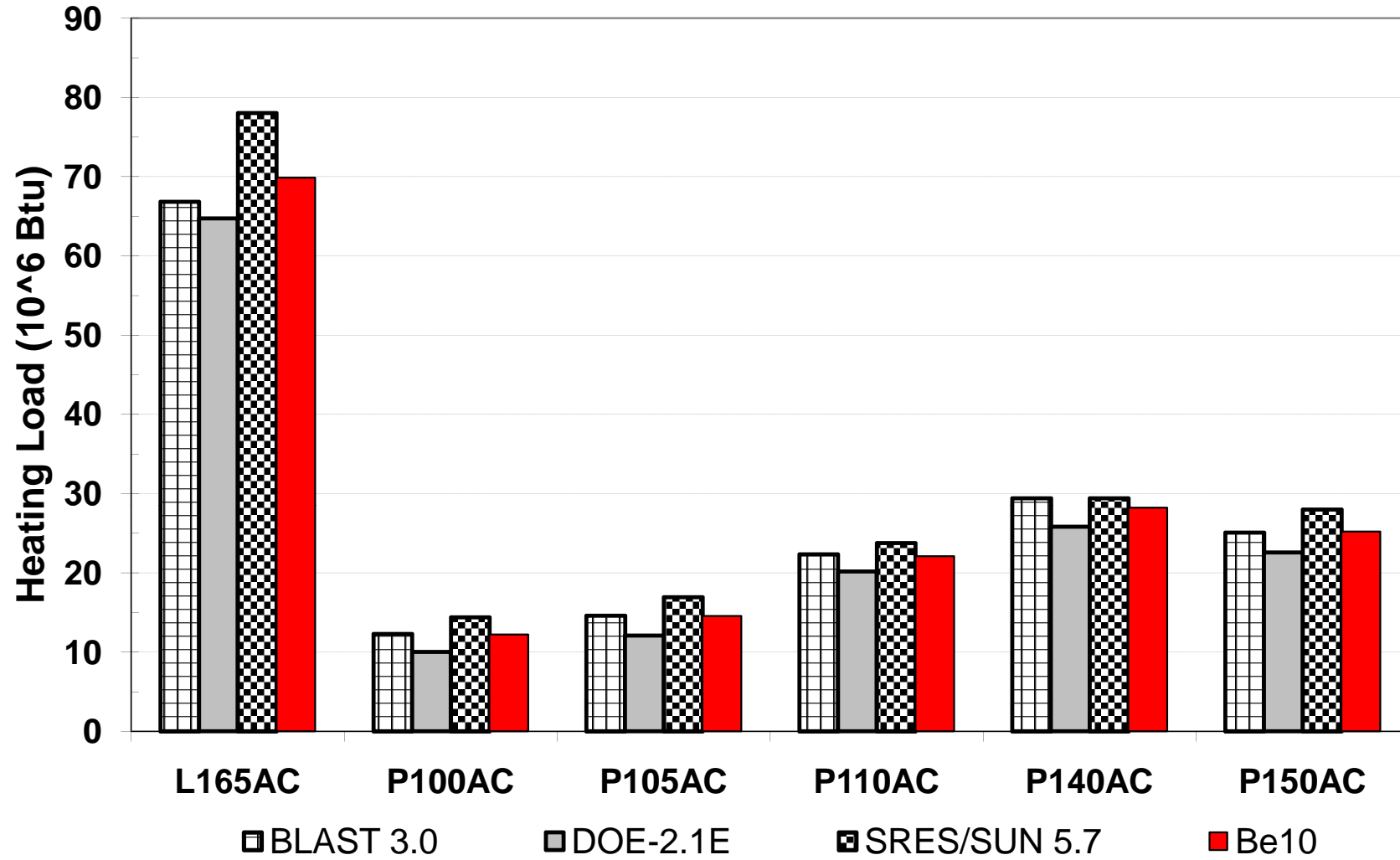
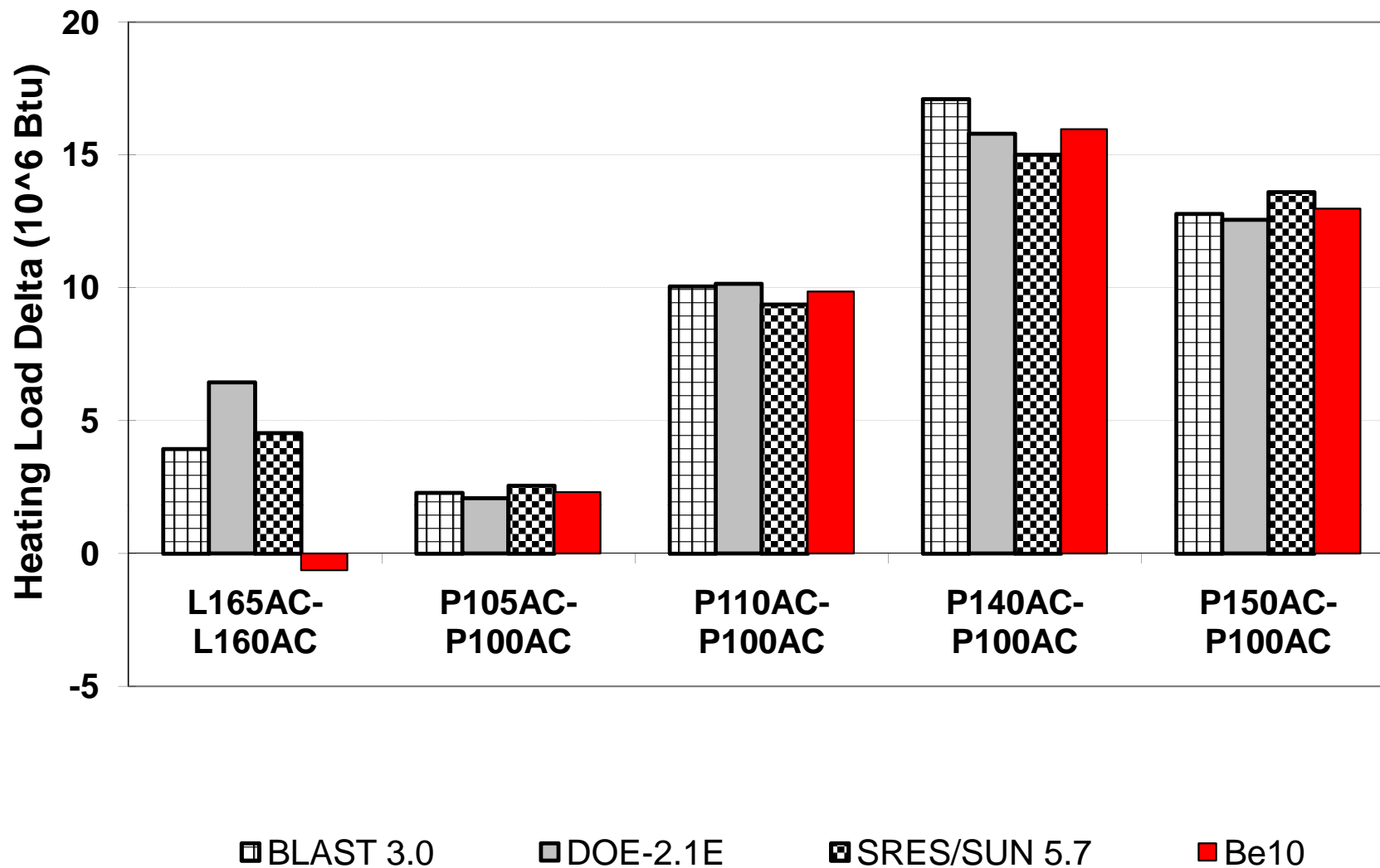


Figure B20-9. HERS BESTEST Tier-2 Example Results – Annual or Seasonal Heating Load (L165AC - P150AC), Colorado Springs, CO



**Figure B20-10. HERS BESTEST Tier-2 Example Results – Delta Annual or Seasonal Heating Load (L165AC - P150AC), Colorado Springs, CO**



**Figure B20-11. HERS BESTEST Tier-2 Example Results -- Annual or Seasonal Sensible Cooling Load (L165AL – P150AC)**

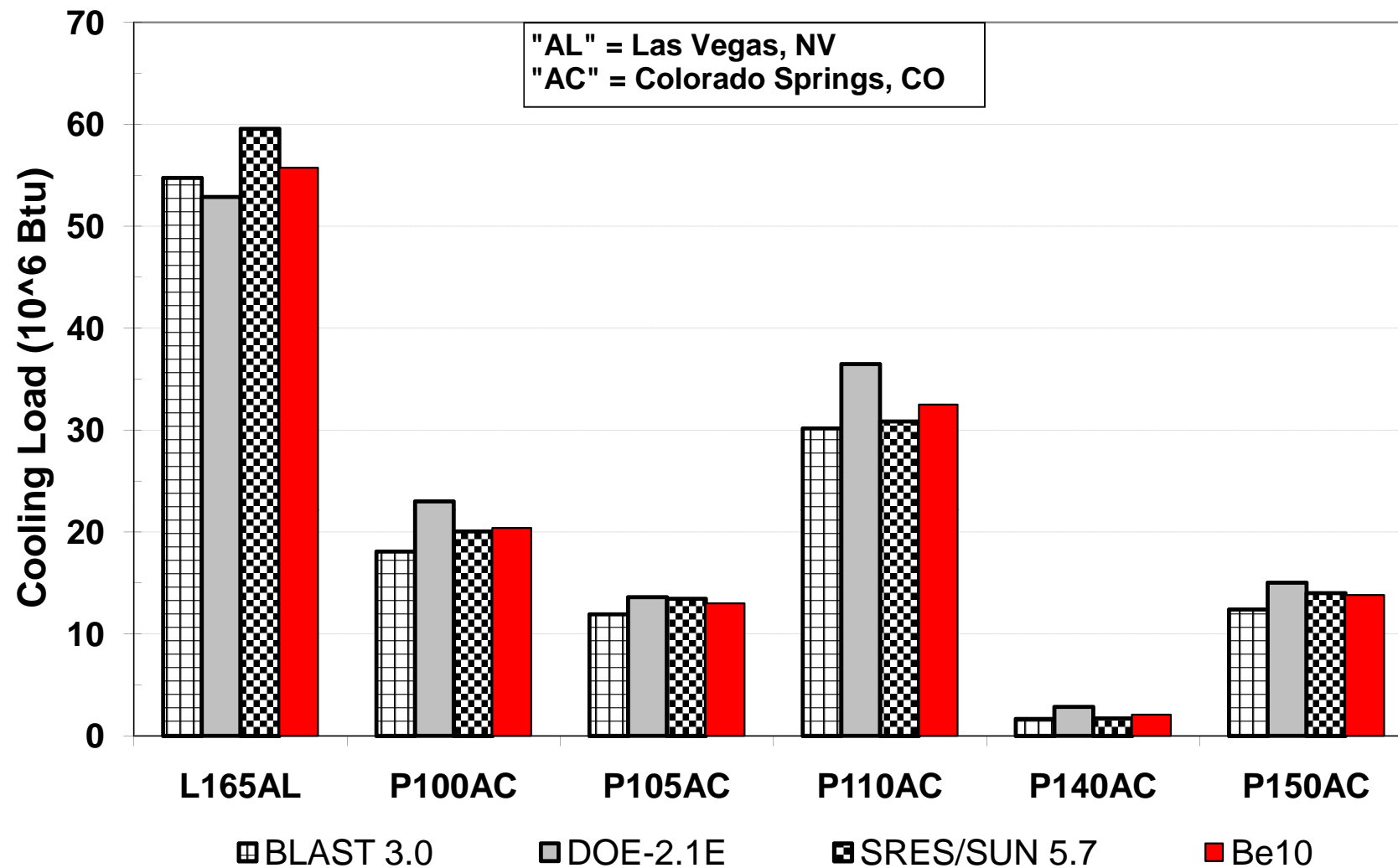




Figure B20-12. HERS BESTEST Tier-2 Example Results – Delta Annual or Seasonal Sensible Cooling Load (L165AL – P150AC)

