

ASHRAE Std. 140 results for:

Software Name:

EnergyGauge USA 6.0

User input data fields indicated by pale yellow

Test result fields indicated by pale green

**Annual Heating Loads: Colorado Springs, CO**

Heating	range max	range min	Result	pass/fail
L100AC	79.48	48.75	55.74	pass
L110AC	103.99	71.88	77.09	pass
L120AC	64.30	37.82	42.76	pass
L130AC	53.98	41.82	45.57	pass
L140AC	56.48	43.24	48.30	pass
L150AC	71.33	40.95	49.37	pass
L155AC	74.18	43.53	51.61	pass
L160AC	81.00	48.78	57.57	pass
L170AC	92.40	61.03	69.28	pass
L200AC	185.87	106.41	132.73	pass
L202AC	190.05	111.32	141.22	pass
L302XC	90.52	52.66	55.57	pass
L304XC	75.32	43.91	47.09	pass
L322XC	118.20	68.35	73.34	pass
L324XC	80.04	44.01	48.39	pass

**Annual Heating Load deltas: Colorado Springs, CO**

Heating	range max	range min	Result	pass/fail
L110AC-L100AC	28.12	19.37	21.35	pass
L120AC-L100AC	-7.67	-18.57	-12.98	pass
L130AC-L100AC	-5.97	-27.50	-10.17	pass
L140AC-L100AC	-4.56	-24.42	-7.44	pass
L150AC-L100AC	-3.02	-12.53	-6.37	pass
L155AC-L150AC	6.88	-1.54	2.24	pass
L160AC-L100AC	5.10	-3.72	1.83	pass
L170AC-L100AC	17.64	7.12	13.54	pass
L200AC-L100AC	107.66	56.39	76.99	pass
L202AC-L200AC	9.94	-0.51	8.49	pass
L302XC-L100AC	14.50	-3.30	-0.17	pass
L302XC-L304XC	17.75	5.66	8.48	pass
L322XC-L100AC	39.29	15.71	17.60	pass
L322XC-L324XC	38.27	20.21	24.95	pass

**Annual Cooling Loads: Las Vegas, NV**

Cooling	range max	range min	Result	pass/fail
L100AL	64.88	50.66	54.64	pass
L110AL	68.50	53.70	56.75	pass
L120AL	60.14	47.34	49.07	pass
L130AL	45.26	32.95	38.54	pass
L140AL	30.54	19.52	25.51	pass
L150AL	82.33	62.41	70.74	pass
L155AL	63.06	50.08	56.52	pass
L160AL	72.99	58.61	64.35	pass
L170AL	53.31	41.83	43.22	pass
L200AL	83.43	60.25	67.60	pass
L202AL	75.96	52.32	55.25	pass

**Annual Cooling Load deltas: Las Vegas, NV**

Cooling	range max	range min	Result	pass/fail
L110AL-L100AL	7.84	-0.98	2.11	pass
L120AL-L100AL	0.68	-8.67	-5.57	pass
L130AL-L100AL	-13.71	-24.40	-16.10	pass
L140AL-L100AL	-27.14	-38.68	-29.13	pass
L150AL-L100AL	20.55	8.72	16.10	pass
L155AL-L150AL	-9.64	-22.29	-14.22	pass
L160AL-L100AL	12.28	3.88	9.71	pass
L170AL-L100AL	-4.83	-15.74	-11.42	pass
L200AL-L100AL	21.39	6.63	12.96	pass
L200AL-L202AL	14.86	2.03	12.35	pass

## Colorado Springs, CO

L100AC (base case)

CoolingLoad = 0.00 HeatingLoad = -55.74

L110AC (high infiltration)

CoolingLoad = 0.00 HeatingLoad = -77.09

L120AC (improved insulation)

CoolingLoad = 0.00 HeatingLoad = -42.76

L130AC (low-e windows)

CoolingLoad = 0.00 HeatingLoad = -45.57

L140AC (zero windows)

CoolingLoad = 0.00 HeatingLoad = -48.30

L150AC (all south glass)

CoolingLoad = 0.00 HeatingLoad = -49.37

L155AC (south glass with OH)

CoolingLoad = 0.00 HeatingLoad = -51.61

L160AC (east-west windows)

CoolingLoad = 0.00 HeatingLoad = -57.57

L170AC (no internal gains)

CoolingLoad = 0.00 HeatingLoad = -69.28

L200AC (inefficient)

CoolingLoad = 0.00 HeatingLoad = -132.73

L202AC (low alpha)

CoolingLoad = 0.00 HeatingLoad = -141.22

L302AC (slab case)

CoolingLoad = 0.00 HeatingLoad = -55.57

L304AC (slab with insul)

CoolingLoad = 0.00 HeatingLoad = -47.09

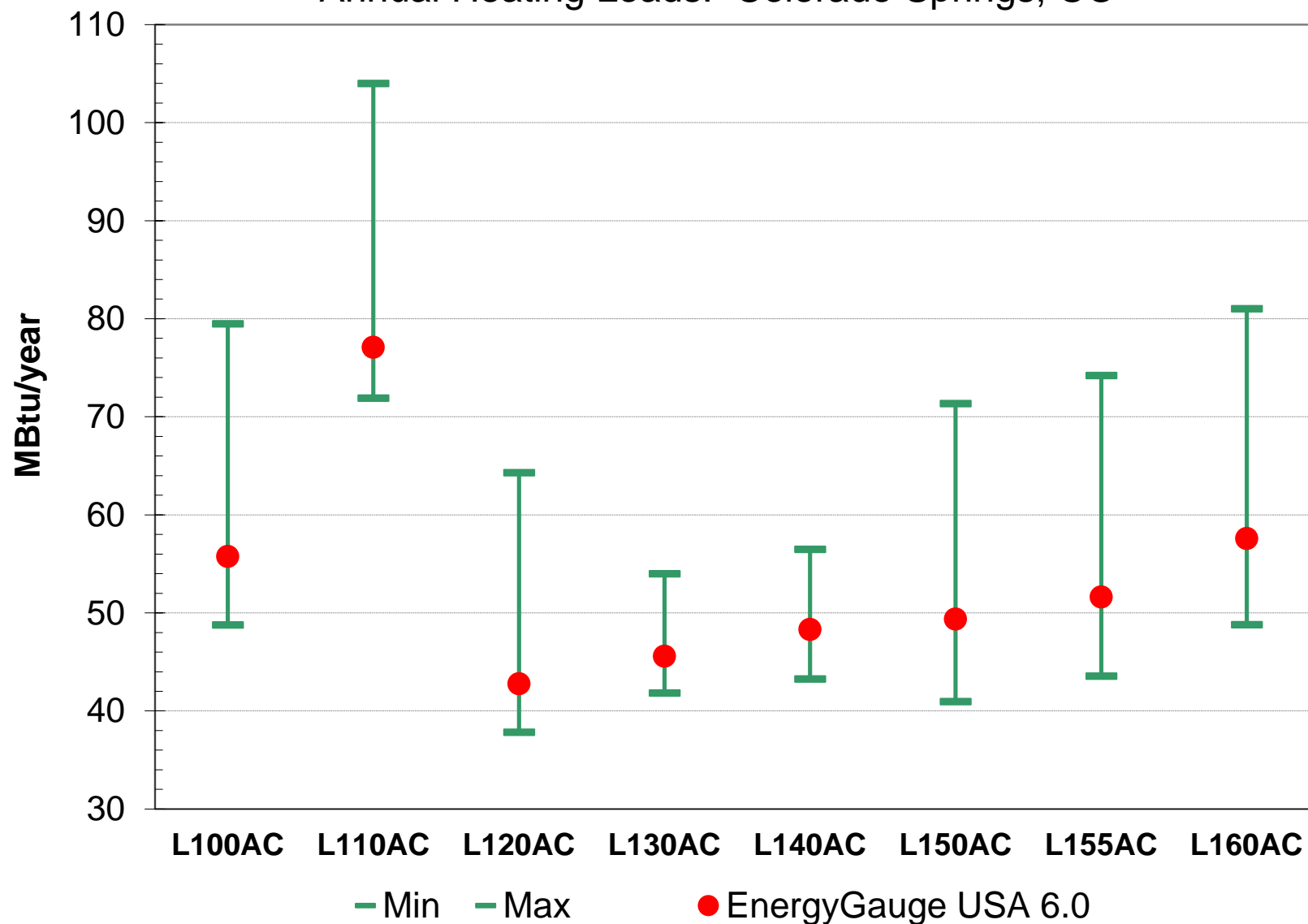
L322AC (basement)

CoolingLoad = 0.00 HeatingLoad = -73.34

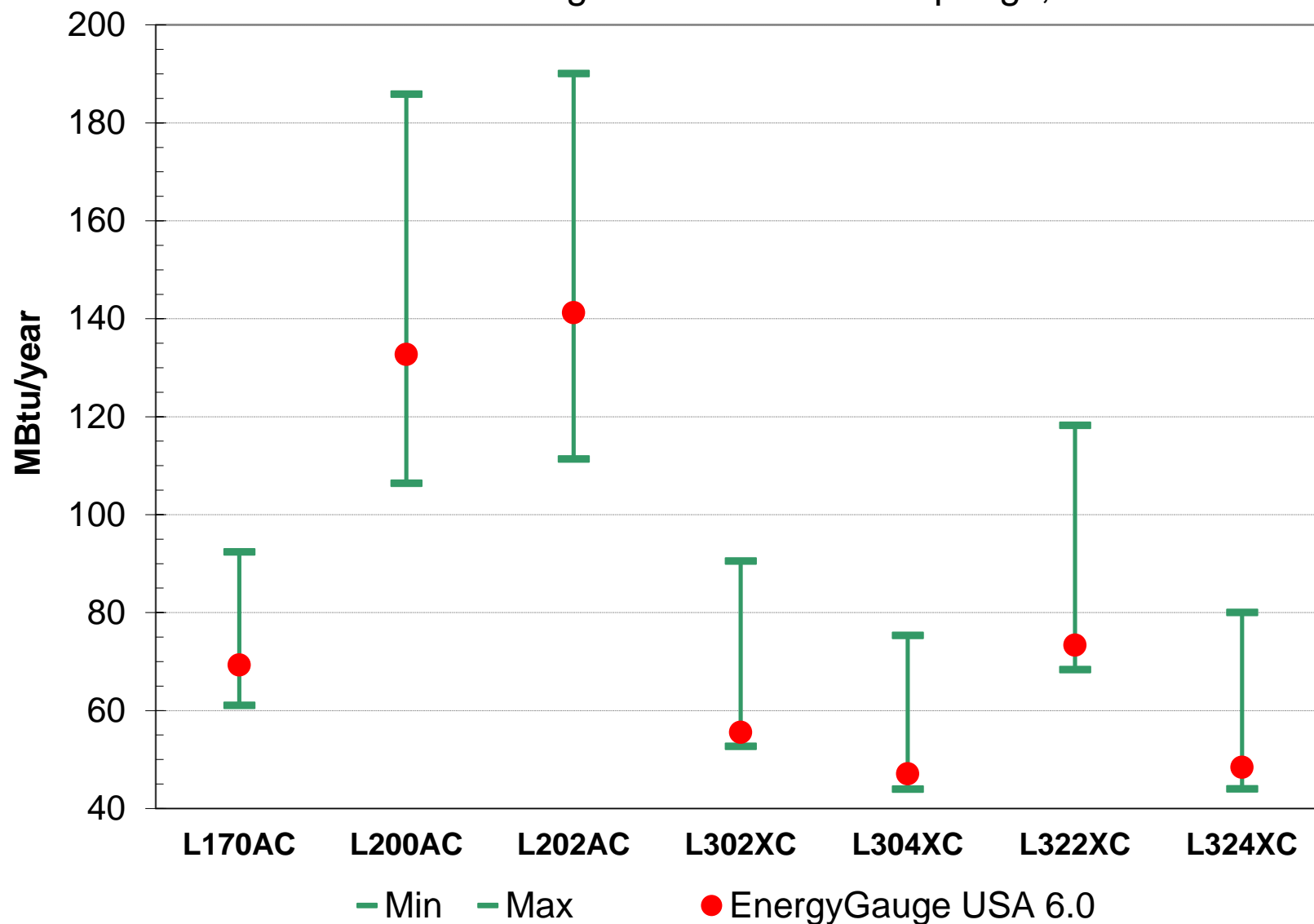
L324AC (basement-insulated)

CoolingLoad = 0.00 HeatingLoad = -48.39

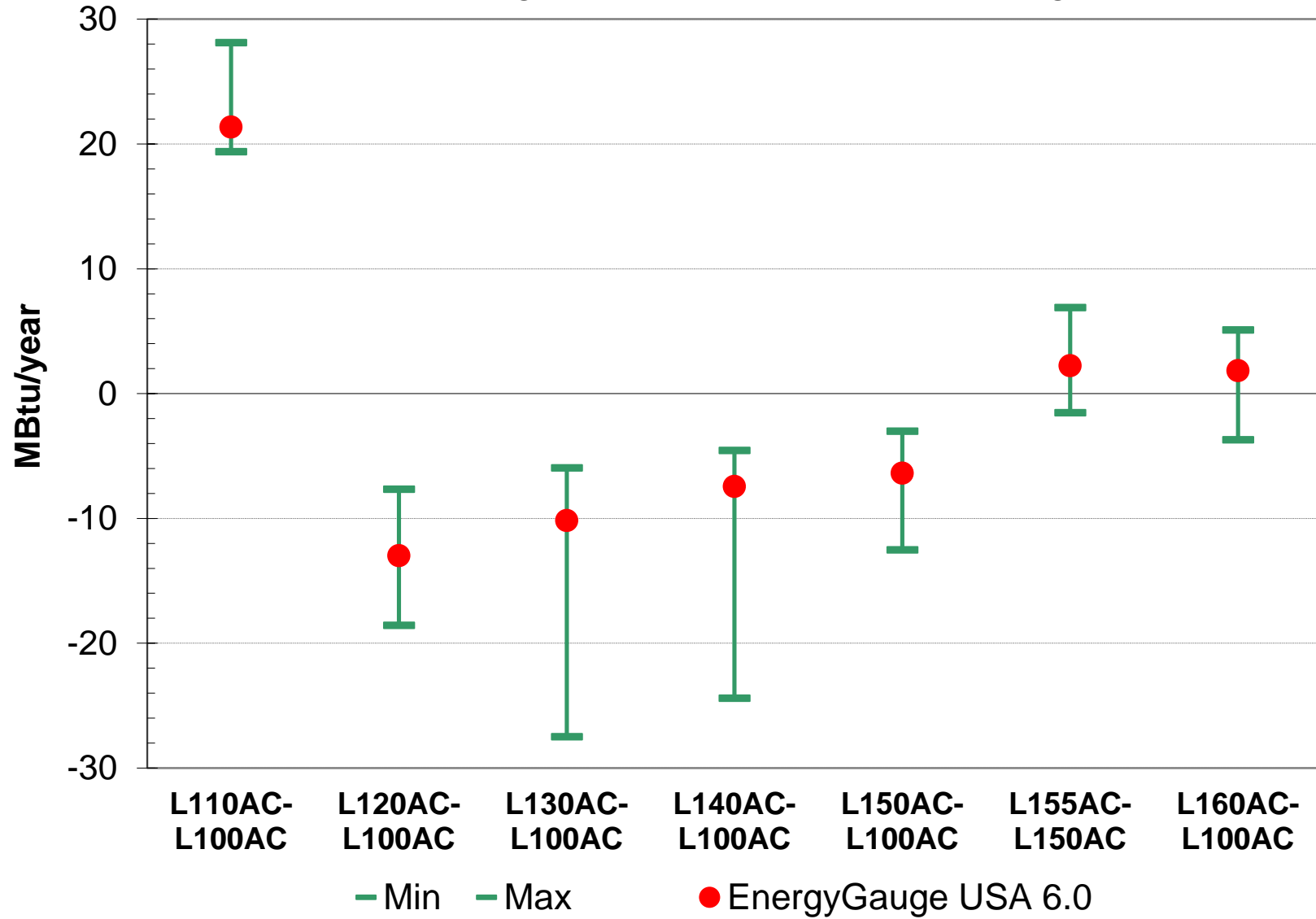
Annual Heating Loads: Colorado Springs, CO



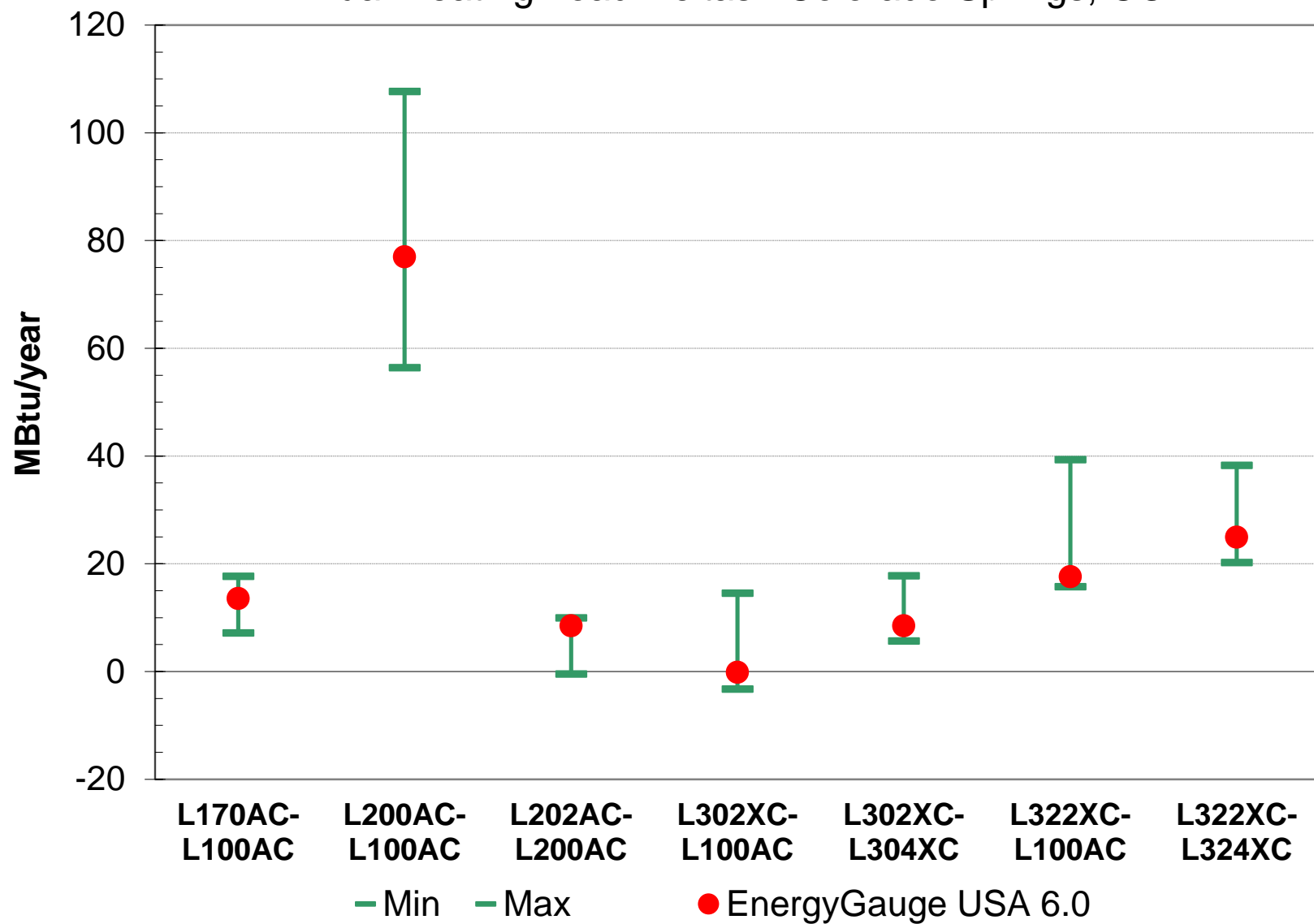
Annual Heating Loads: Colorado Springs, CO



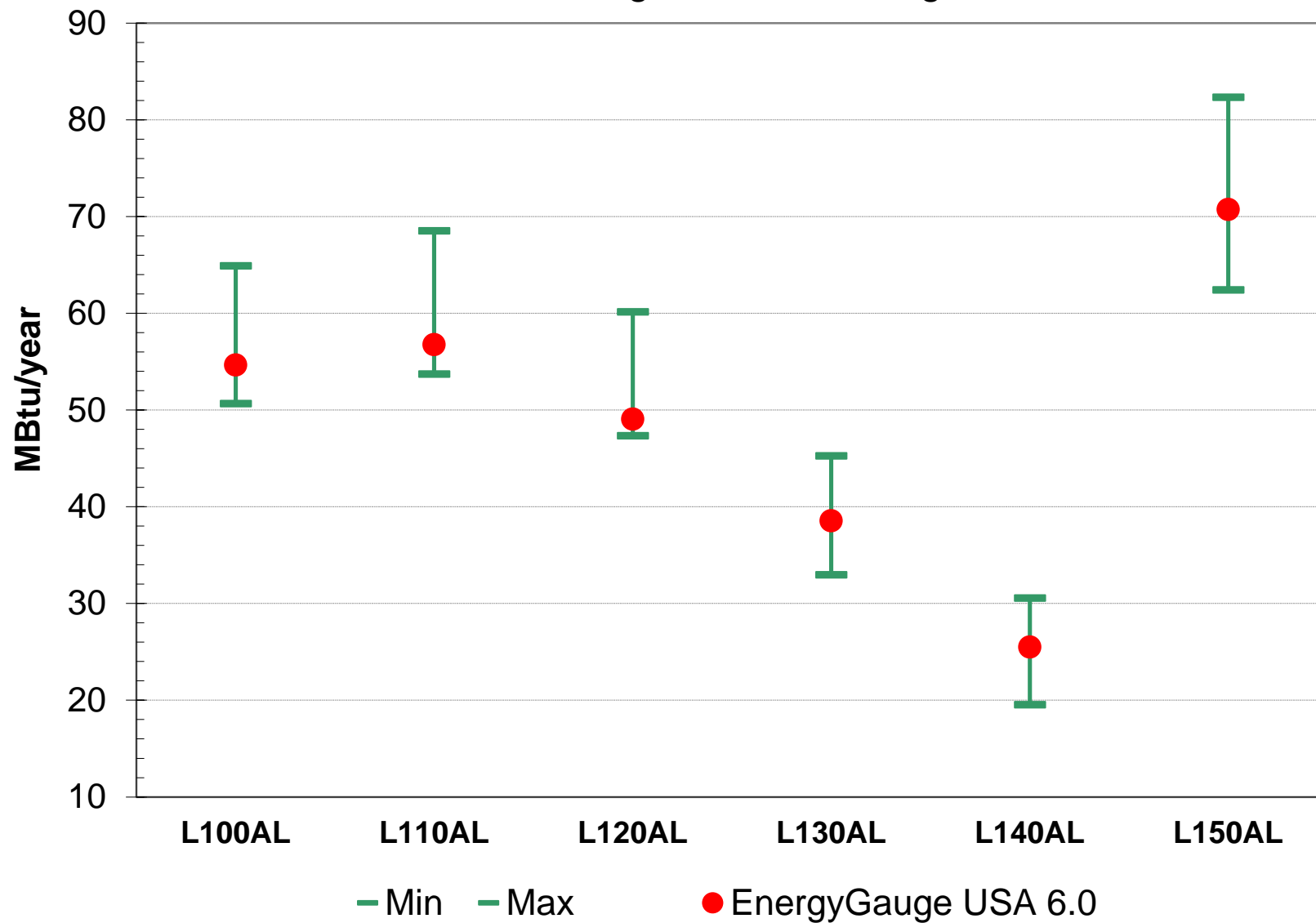
Annual Heating Load Deltas: Colorado Springs, CO



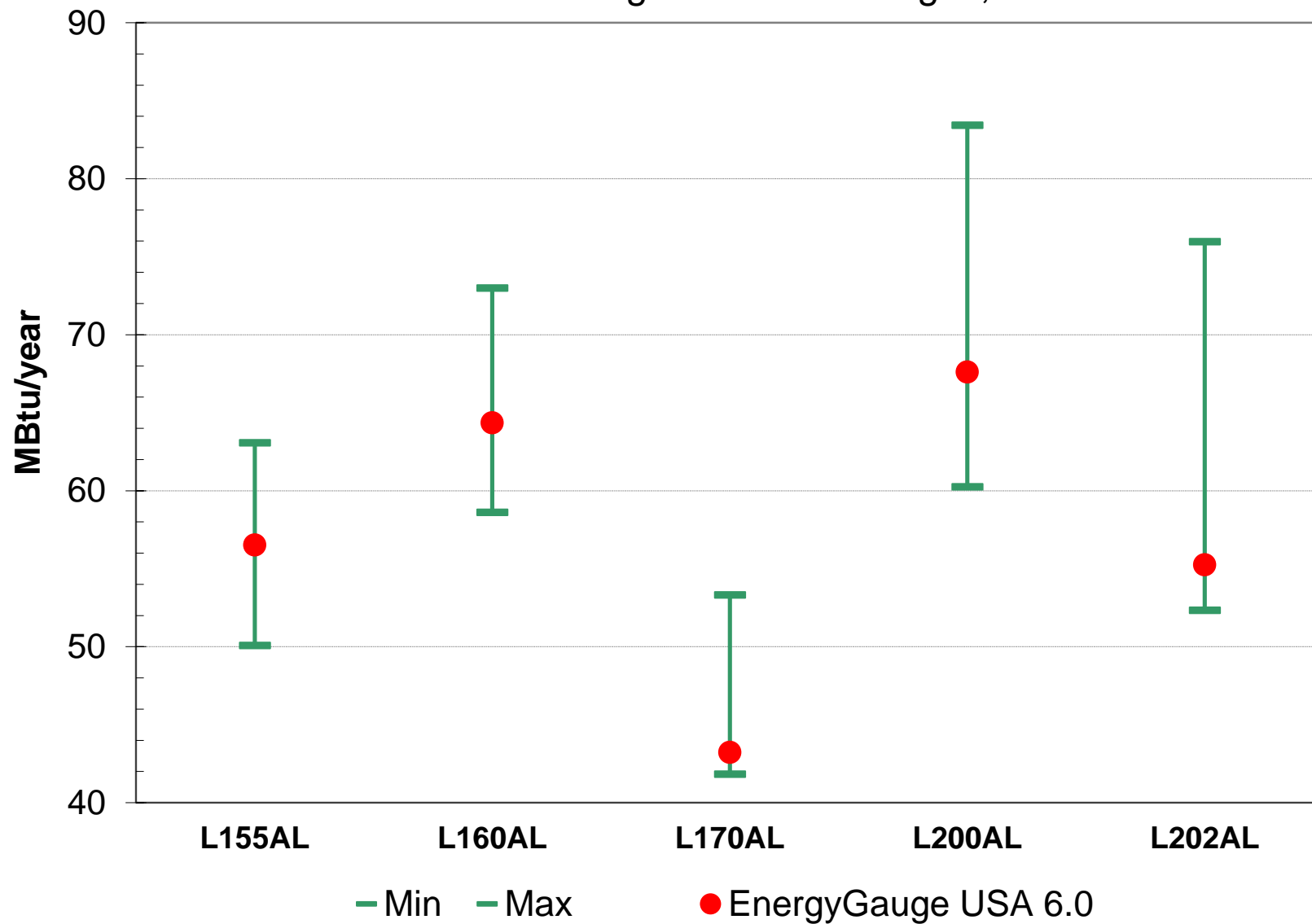
Annual Heating Load Deltas: Colorado Springs, CO



Annual Cooling Loads: Las Vegas, NV

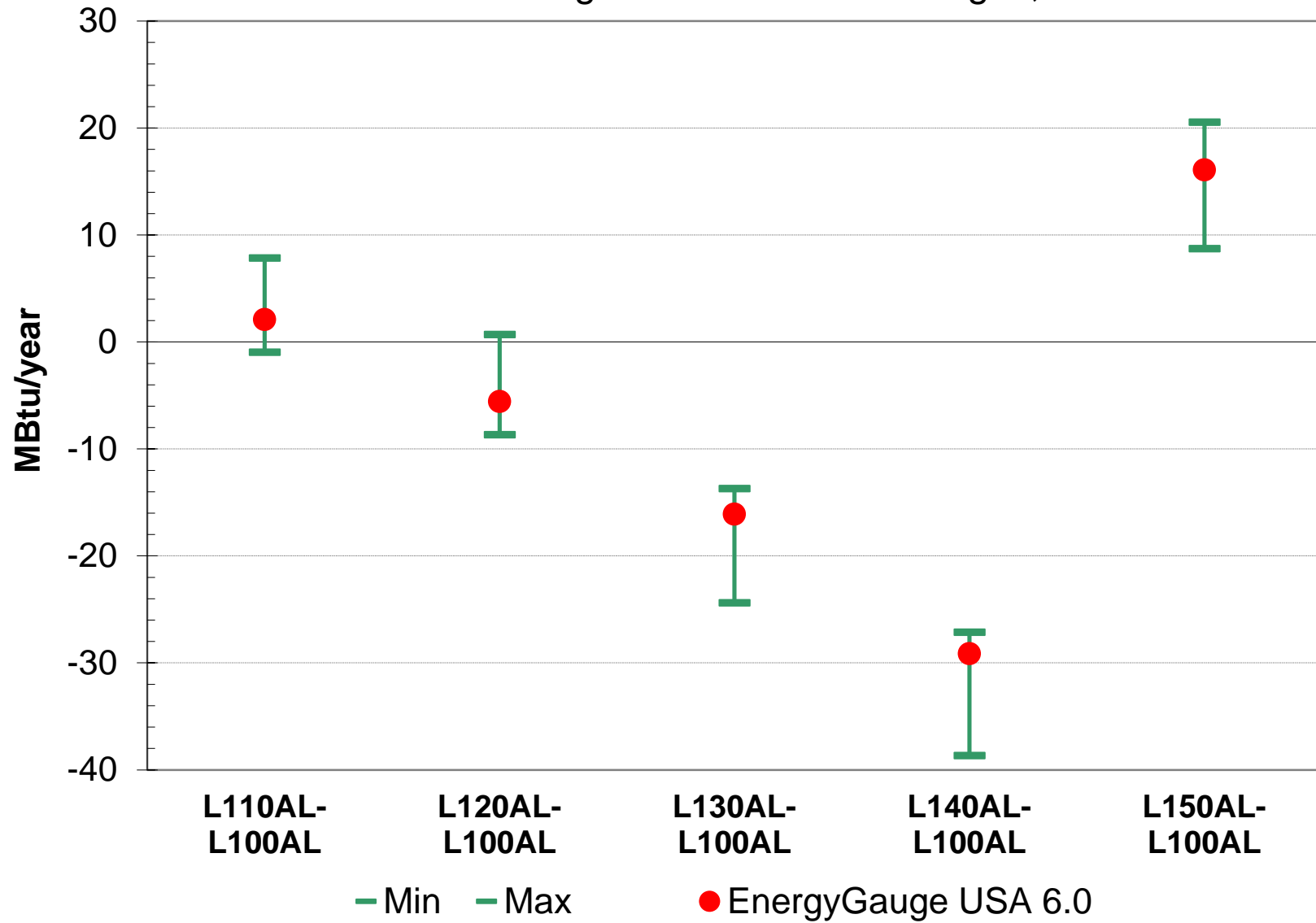


Annual Cooling Loads: Las Vegas, NV

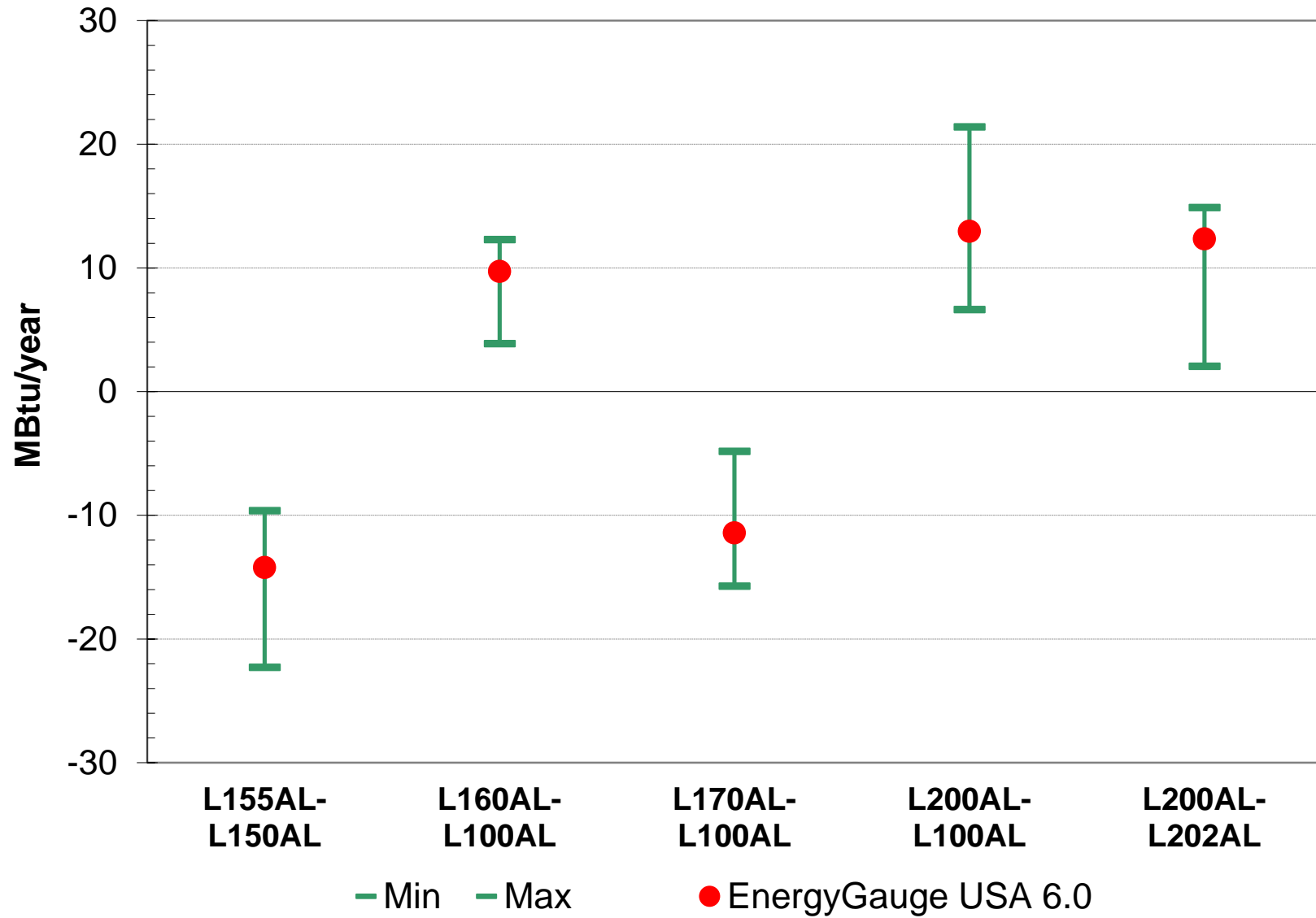




## Annual Cooling Load Deltas: Las Vegas, NV



Annual Cooling Load Deltas: Las Vegas, NV



## Las Vegas, NV

### L100AL (base case)

CoolingLoad = 54.64 HeatingLoad = 0.00

### L110AL (high infiltration)

CoolingLoad = 56.75 HeatingLoad = 0.00

### L120AL (improved insulation)

CoolingLoad = 49.07 HeatingLoad = 0.00

### L130AL (low-e windows)

CoolingLoad = 38.54 HeatingLoad = 0.00

### L140AL (zero windows)

CoolingLoad = 25.51 HeatingLoad = 0.00

### L150AL (all south glass)

CoolingLoad = 70.74 HeatingLoad = 0.00

### L155AL (south glass with OH)

CoolingLoad = 56.52 HeatingLoad = 0.00

### L160AL (east-west windows)

CoolingLoad = 64.35 HeatingLoad = 0.00

### L170AL (no internal gains)

CoolingLoad = 43.22 HeatingLoad = 0.00

### L200AL (inefficient)

CoolingLoad = 67.60 HeatingLoad = 0.00

### L202AL (low alpha)

CoolingLoad = 55.25 HeatingLoad = 0.00