

Table B40. Cooling equipment, number of buildings, 2012

	Number of buildings (thousand)									
	Cooling equipment (more than one may apply)									
	All buildings	Buildings with cooling	Residential-type central air conditioners	Heat pumps	Individual air conditioners	District chilled water	Central chillers	Packaged air conditioning units	Swamp coolers	Other
All buildings	5,557	4,461	1,546	692	709	54	163	1,909	109	Q
Building floorspace (square feet)										
1,001 to 5,000	2,777	2,062	796	321	362	Q	Q	697	58	Q
5,001 to 10,000	1,229	1,004	403	168	136	Q	Q	418	Q	N
10,001 to 25,000	884	774	246	91	116	9	36	407	Q	Q
25,001 to 50,000	332	302	72	52	46	Q	29	181	Q	Q
50,001 to 100,000	199	187	21	41	29	10	36	124	7	Q
100,001 to 200,000	90	88	7	13	12	9	23	54	Q	Q
200,001 to 500,000	38	37	2	5	7	4	18	24	Q	Q
Over 500,000	8	8	Q	1	1	1	5	5	Q	Q
Principal building activity										
Education	389	361	68	69	45	25	42	165	Q	Q
Food sales	177	165	64	Q	Q	N	Q	76	Q	N
Food service	380	358	110	37	48	Q	Q	188	21	N
Health care	157	154	58	28	8	Q	16	72	Q	Q
Inpatient	10	10	Q	2	2	1	6	6	Q	Q
Outpatient	147	145	57	26	Q	Q	10	66	Q	Q
Lodging	158	145	34	36	71	Q	11	40	Q	Q
Mercantile	602	560	209	96	73	N	Q	301	14	N
Retail (other than mall)	438	396	133	60	61	N	Q	170	Q	N
Enclosed and strip malls	164	164	76	36	12	N	Q	131	Q	N
Office	1,012	995	358	175	124	10	43	396	Q	Q
Public assembly	352	295	116	42	29	5	15	127	Q	Q
Public order and safety	84	74	23	Q	Q	Q	4	32	Q	Q
Religious worship	412	375	164	57	61	Q	Q	146	Q	Q
Service	619	435	138	50	126	N	Q	140	Q	Q
Warehouse and storage	796	391	149	57	71	N	Q	158	Q	Q
Other	125	90	39	Q	Q	Q	6	43	Q	Q
Vacant	296	63	Q	Q	Q	Q	Q	26	Q	Q
Year constructed										
Before 1920	362	275	116	29	84	Q	6	75	Q	N
1920 to 1945	488	367	153	41	100	Q	12	127	Q	Q
1946 to 1959	599	477	145	76	109	Q	18	185	Q	Q
1960 to 1969	639	538	192	71	89	11	25	241	13	Q
1970 to 1979	684	563	203	67	86	9	21	258	16	Q
1980 to 1989	915	730	234	137	87	3	26	341	13	Q
1990 to 1999	845	663	235	124	78	10	22	271	15	Q
2000 to 2003	375	321	106	40	34	5	11	157	Q	Q
2004 to 2007	347	293	86	58	29	6	9	144	Q	Q
2008 to 2012	303	235	76	50	12	Q	15	110	Q	N

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All buildings	5,557	4,461	1,546	692	709	54	163	1,909	109	Q
Census region and division										
Northeast	805	592	178	53	190	7	26	253	Q	Q
New England	302	187	53	16	67	Q	12	81	Q	Q
Middle Atlantic	504	405	124	38	123	Q	14	172	Q	Q
Midwest	1,237	970	480	65	147	2	37	362	Q	Q
East North Central	735	601	305	33	80	2	24	235	Q	Q
West North Central	502	370	175	32	68	Q	13	127	N	Q
South	2,247	1,891	633	409	257	35	70	786	Q	Q
South Atlantic	1,091	935	251	296	121	22	40	376	Q	Q
East South Central	370	335	112	54	54	Q	8	156	N	N
West South Central	786	621	270	59	81	6	22	254	Q	Q
West	1,267	1,007	255	165	114	9	29	508	89	Q
Mountain	338	259	73	31	23	1	12	125	36	Q
Pacific	929	748	182	134	91	8	18	383	53	Q
Climate region¹										
Very cold/Cold	2,031	1,497	586	125	279	7	63	620	51	Q
Mixed-humid	1,743	1,482	507	337	243	18	48	568	Q	Q
Mixed-dry/Hot-dry	837	682	182	116	71	7	20	358	42	Q
Hot-humid	799	699	255	92	101	21	28	310	Q	Q
Marine	147	101	Q	Q	Q	Q	4	53	Q	Q
Number of floors										
One	3,836	2,954	1,027	465	394	17	48	1,301	89	Q
Two	1,158	994	370	162	163	13	40	419	13	Q
Three	374	338	120	35	105	8	27	115	Q	Q
Four to nine	177	163	29	29	44	15	39	69	Q	Q
Ten or more	13	12	Q	2	3	1	8	6	Q	Q
Number of workers (main shift)										
Fewer than 5	2,892	1,932	736	272	389	Q	23	644	48	Q
5 to 9	1,085	999	379	171	127	Q	16	418	26	Q
10 to 19	731	699	255	95	88	Q	17	353	Q	Q
20 to 49	513	498	136	96	60	9	28	288	8	Q
50 to 99	206	203	30	39	23	9	35	132	6	Q
100 to 249	93	93	10	13	16	6	27	53	Q	Q
250 or more	37	37	1	6	5	5	19	21	Q	Q

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All buildings	5,557	4,461	1,546	692	709	54	163	1,909	109	Q
Weekly operating hours										
Fewer than 40	1,149	690	266	110	138	Q	8	231	Q	Q
40 to 48	1,346	1,168	444	175	185	12	34	424	26	Q
49 to 60	1,244	1,084	391	180	149	10	45	460	29	Q
61 to 84	764	669	227	113	88	9	21	340	27	Q
85 to 167	479	419	113	45	45	12	17	242	12	Q
Open continuously	575	431	105	69	104	11	37	213	Q	Q
Ownership and occupancy										
Nongovernment owned	4,781	3,817	1,398	567	600	17	89	1,646	96	Q
Owner occupied	2,466	2,046	767	323	342	14	52	790	58	Q
Leased to tenant(s)	1,745	1,421	507	183	203	2	24	692	36	Q
Owner occupied and leased	349	324	115	58	50	1	11	155	Q	Q
Unoccupied	221	26	Q	Q	Q	N	Q	Q	N	N
Government owned	776	644	148	125	109	37	74	263	14	Q
Federal	33	33	Q	Q	Q	Q	6	12	Q	Q
State	185	159	34	30	21	20	21	62	Q	Q
Local	558	452	102	93	82	16	47	190	Q	Q
Party responsible for operation and maintenance of energy systems										
Building owner	4,715	3,740	1,288	595	615	53	154	1,531	93	Q
Business owner or tenant	724	625	225	75	80	Q	6	338	Q	Q
Property management	54	44	Q	Q	Q	Q	2	23	Q	Q
Other	64	52	Q	Q	Q	Q	Q	18	N	Q
Provider of direct input on energy-related equipment purchases										
Building owner	4,876	3,865	1,342	617	618	54	155	1,604	97	Q
Business owner or tenant	540	474	165	48	78	Q	5	249	Q	Q
Property management	35	32	Q	Q	Q	Q	Q	16	N	Q
Other	106	90	30	24	Q	Q	Q	41	Q	N

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All buildings	5,557	4,461	1,546	692	709	54	163	1,909	109	Q
Campus or complex activity										
Not part of a campus or complex	3,683	3,111	1,158	424	490	Q	96	1,325	80	Q
Primary or secondary school	237	207	29	46	32	16	15	98	Q	N
College or university	84	77	Q	15	Q	24	13	21	Q	Q
Office complex	154	145	47	29	9	Q	5	63	Q	Q
Retail complex	258	214	82	39	24	N	Q	124	Q	N
Storage complex	314	58	Q	Q	21	N	N	18	Q	N
Religious campus or complex	197	168	57	33	23	Q	Q	73	Q	Q
Health care complex	52	50	14	9	10	Q	11	24	Q	Q
Lodging or resort complex	65	53	Q	Q	30	Q	2	10	N	N
Transportation complex	35	32	Q	Q	Q	Q	Q	7	N	Q
Government complex	104	75	Q	14	11	Q	9	36	Q	Q
Other	371	273	88	60	51	Q	5	111	Q	Q
Renovations in buildings constructed before 2008 (more than one may apply)										
Any type of renovation	2,094	1,854	640	279	317	25	77	867	44	1
Addition or annex	444	413	148	68	75	5	35	194	11	Q
Reduction in floorspace	71	60	28	10	12	Q	1	23	Q	N
Roof replacement	987	870	307	126	153	10	47	398	18	Q
Exterior wall replacement	194	175	57	25	34	Q	6	85	Q	N
Interior wall reconfiguration	889	816	267	127	127	15	36	429	20	Q
Window replacement	560	516	170	94	90	Q	24	238	15	Q
HVAC equipment upgrade	1,101	1,026	346	178	146	18	54	522	21	Q
Lighting upgrade	982	891	272	149	151	19	47	460	29	Q
Electrical upgrade	747	675	245	113	123	9	26	314	12	Q
Plumbing system upgrade	644	582	202	98	103	Q	20	290	10	Q
Insulation upgrade	382	347	124	66	58	Q	14	160	Q	Q
Fire, safety, or security upgrade	616	569	172	100	96	13	34	301	16	Q
Structural upgrade	152	137	41	28	24	Q	6	68	Q	Q
Other	39	32	Q	Q	Q	Q	Q	19	Q	N
No renovations	3,160	2,372	830	364	380	25	71	933	60	Q
Buildings constructed 2008 or later	303	235	76	50	12	Q	15	110	Q	N
Energy sources (more than one may apply)										
Electricity	5,234	4,461	1,546	692	709	54	163	1,909	109	Q
Natural gas	2,933	2,700	1,012	265	385	21	127	1,311	69	Q
Fuel oil	467	360	70	54	109	8	55	167	6	Q
District heat	48	44	Q	2	6	26	8	11	Q	Q
District chilled water	54	54	Q	Q	2	54	1	7	Q	Q
Propane	510	420	160	49	107	Q	10	153	21	Q
Other	172	126	47	22	26	Q	6	48	Q	Q

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All buildings	5,557	4,461	1,546	692	709	54	163	1,909	109	Q
Main equipment replaced since 1990 (more than one may apply)										
Heating	1,874	1,714	587	296	295	Q	50	743	40	Q
Cooling	1,971	1,971	707	310	404	Q	62	793	48	Q
Separate computer areas (more than one may apply)										
Data center or server farm	97	96	13	22	13	7	26	55	1	Q
Computer-based training room	244	242	37	45	31	8	38	150	5	Q
Student or public computer center	238	230	49	48	41	12	43	120	6	Q
HVAC conservation features (more than one may apply)										
Economizer cycle	601	601	85	104	59	23	75	420	20	1
Regular HVAC maintenance	3,178	3,023	982	517	316	47	150	1,498	69	3
Building automation system (BAS) ²	781	757	147	116	56	46	107	450	12	1
Equipment usage reduced when building not in full use (more than one may apply)										
Heating	3,699	3,403	1,214	517	486	42	128	1,488	80	Q
Cooling	3,517	3,517	1,256	519	518	45	128	1,530	83	Q
Lighting	4,757	4,196	1,476	654	661	50	158	1,781	107	Q

¹These climate regions were created by the Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE).

²In earlier CBECS publications, BAS was referred to as *Energy Management and Control System (EMCS)*.

³In versions of this table prior to January 2017, the row category labels for *Separate computer areas* and *HVAC conservation features* were reversed, i.e., the data in the *Separate computer areas* row category were actually for *HVAC conservation features* and vice versa.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 20 buildings were sampled.

N = No cases in reporting sample.

Notes: • Because of rounding, data may not sum to totals. • See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition of terms used in these tables and/or comparison of differences with prior CBECS tables. Both references can be accessed from <http://www.eia.gov/consumption/commercial/data/2012/>

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-871A of the 2012 Commercial Buildings Energy Consumption Survey.