Table B40. Cooling Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)										
				Co	oling Equi	Equipment (more than one may apply)					
	All Build- ings*	Cooled Build- ings	Resid- ential- Type Central Air Condi- tioners	Heat Pumps	Indiv- idual Air Condi- tioners	District Chilled Water	Central Chillers	Pack- aged Air Condi- tioning Units	Swamp Coolers	Other	
All Buildings*	4,645	3,625	1,006	492	742	33	111	1,613	122	40	
Building Floorspace											
(Square Feet)											
1,001 to 5,000	2,552	1,841	581	260	383	Q	Q	678	58	Q	
5,001 to 10,000	889	732	207	78	134	Q	Q	367	26	Q	
10,001 to 25,000	738	629	140	87	114	Q	26	332	26	Q	
25,001 to 50,000	241	216	47	33	62	6	19	119	Q	Q	
50,001 to 100,000	129	118	19	20	27	5	24	67	Q	Q	
100,001 to 200,000	65	60	8	8	16	6	17	32	Q	Q	
200,001 to 500,000	25	23	4	4	4	2	10	13	Q	Q	
Over 500,000	7	6	1	1	1	1	3	3	Q	Q	
Principal Building Activity											
Education	386	352	59	63	87	14	36	139	Q	Q	
Food Sales	226	210	36	Q	Q	N	N	107	Q	Q	
Food Service	297	283	69	30	33	Q	Q	176	Q	Q	
Health Care	129	129	47	22	8	1	8	57	Q	Q	
Inpatient	8	8	1	Q	3	1	4	5	Q	Q	
	121	121	46	19	Q	Q	4	52 52	Q N	N N	
Outpatient											
Lodging	142	130	23	25	71	Q	11	39	Q	Q	
Retail (Other Than Mall)	443	406	95	50	82	Q	Q	200	Q	Q	
Office	824	790	273	107	107	9	29	339	Q	15	
Public Assembly	277	213	63	27	40	3	6	96	Q	Q	
Public Order and Safety	71	61	Q	Q	20	Q	Q	27	Q	N	
Religious Worship	370	308	102	57	74	Q	Q	138	Q	Q	
Service	622	370	97	33	116	N	Q	136	Q	N	
Warehouse and Storage	597	266	91	28	48	Q	Q	113	Q	Q	
Other	79	57	Q	Q	Q	Q	4	27	Q	Q	
Vacant	182	52	Q	Q	Q	Q	Q	18	Q	N	
Year Constructed											
Before 1920	330	232	83	Q	82	Q	4	81	Q	Q	
1920 to 1945	527	382	135	36	109	Q	8	147	Q	Q	
1946 to 1959	562	430	115	48	124	4	11	180	Q	Q	
1960 to 1969	579	467	112	50	130	4	22	201	Q	Q	
1970 to 1979	731	609	157	77	121	5	24	294	35	Q	
1980 to 1989	707	577	165	105	90	5	19	251	18	Q	
1990 to 1999	876	695	184	122	72	8	16	334	19	Q	
2000 to 2003	334	234	55	46	14	Q	8	125	Q	Q	
Census Region											
Northeast	726	519	144	59	179	6	10	202	Q	Q	
Midwest	1,266	957	363	49	209	4	29	425	Q	10	
South	1,775	1,479	360	303	229	14	50	681	ã	12	
West	878	671	138	81	125	9	22	304	113	Q	
Climate Zone: 30-Year Average Under 2,000 CDD and											
More than 7,000 HDD	855	578	192	30	139	3	16	261	30	Q	
5,500-7,000 HDD	1,173	882	241	81	226	4	27	374	Q	13	
4,000-5,499 HDD	673	582	191	88	142	7	21	224	Q	Q	
Fewer than 4,000 HDD	1,276	1,003	225		156	10	22	488	40	Q	
2,000 CDD or More and	1,210	1,003	225	205	100	10	22	400	40	Q	
•	000	500	450	00	70	^	0.5	000	^	^	
Fewer than 4,000 HDD	669	580	158	89	79	9	25	266	Q	Q	

Table B40. Cooling Equipment, Number of Buildings for Non-Mall Buildings, 2003

Number of Floors		•												
Residential Type		Number of Buildings (thousand)												
Number of Floors 1,006 2,304 2,304 3,625 1,006 2,006 3				Cooling Equipment (more than one may apply)										
Number of Floors		Build-	Build-	Build-	ential- Type Central Air Condi-		idual Air Condi-	Chilled		aged Air Condi- tioning	- 1	Other		
Dne	All Buildings*	4,645	3,625	1,006	492	742	33	111	1,613	122	40			
Two	Number of Floors													
Three	One	3,136	2,340	623	344	418	10	24	1,061	73	Q			
Four to Nine	Two	1,031	864	264	103	185	6	30	384	38	16			
Number of Workers (main shift)	Three	339	290	96	32	88	4	24	119	Q	Q			
Number of Workers (main shift)	Four to Nine	128	120	22	10	48	11	25	44	Q	Q			
Fewer than 5	Ten or More	12	12	1	3	3	1	7	5	Q	Q			
Fewer than 5	Number of Workers (main shift)													
5 to 9 778 725 240 89 110 Q Q 345 Q Q 10 to 19 563 523 146 57 93 Q 10 274 Q Q 20 to 49 398 386 81 47 68 6 29 223 21 Q 50 to 99 147 139 19 22 25 7 20 92 Q Q 100 to 249 77 76 9 15 14 6 22 44 Q Q 250 or More 30 30 2 5 4 4 14 16 Q 2 40 to 48 1,117 951 283 128 209 Q 21 384 24 Q 40 to 48 1,1062 883 262 107 169 6 33 395 29 Q 61 to 84 591 521	,	2.653	1.746	508	257	428	Q	Q	619	64	Q			
10 to 19 563 523 146 57 93 Q 10 274 Q Q 20 to 49 398 386 81 47 68 6 29 223 21 Q S 50 to 99 147 139 19 22 25 7 20 92 Q Q Q 100 to 249 77 76 9 15 14 6 22 44 Q Q 250 or More 30 30 30 2 5 4 4 14 14 16 Q 1 Weekly Operating Hours Fewer than 40 1,002 595 198 104 125 Q 7 206 Q Q 40 to 48 1,117 951 283 128 209 Q 21 384 24 Q 40 to 60 1,062 883 262 107 169 6 33 395 29 Q 16 to 84 591 521 136 68 90 6 18 248 Q Q 44 40 Q Q 55 to 167 400 338 56 28 46 7 9 222 Q Q Q D Q D Q D Q D Q D Q D Q D Q D	5 to 9			240	89	110			345	Q				
20 to 49				146		93	Q		274					
50 to 99 147 139 19 22 25 7 20 92 Q Q Q 100 to 249 77 76 9 15 14 6 22 44 Q Q Q 250 or More 30 30 2 5 4 4 14 16 Q 1 Weekly Operating Hours Fewer than 40 1,002 595 198 104 125 Q 7 206 Q Q 4 4 14 16 Q 1 40 to 48 1,117 951 283 128 209 Q 21 384 24 Q 49 to 60 6 33 395 29 Q 61 to 84 6 6 33 395 29 Q 61 to 84 Q Q 2 21 384 Q Q Q 2 Q Q 2 2 Q Q Q Q		398		81	47	68		29	223					
100 to 249														
Weekly Operating Hours Very Company of the complex of th														
Fewer than 40														
Fewer than 40	Weekly Operating Hours													
40 to 48		1.002	595	198	104	125	Q	7	206	Q	Q			
49 to 60 1,062 883 262 107 169 6 33 395 29 Q 61 to 84 591 521 136 68 90 6 18 248 Q Q 85 to 167 400 338 56 28 46 7 9 222 Q Q Multibuilding Facility Not Part of a Multibuilding 83 73 Q 11 11 15 20 12 Q Q Primary or Secondary School 254 218 22 46 53 Q 18 87 Q Q Gfice Complex 111 104 32 21 Q Q 3 43 Q Q Retail Complex 151 92 Q Q Q N Q 42 Q Q Religious Campus or Complex 195 171 50 35 39 Q Q 78 Q Q Lodging or Resort Complex 61 58 Q 9		1,117	951	283	128	209		21	384	24				
61 to 84														
85 to 167 400 338 56 28 46 7 9 222 Q Q Open Continuously 475 338 70 58 103 4 23 158 15 Q Multibuilding Facility Not Part of a Multibuilding 83 73 299 511 Q 50 1,207 85 18 College or University 83 73 Q 11 11 15 20 12 Q Q Primary or Secondary School 254 218 22 46 53 Q 18 87 Q Q Office Complex 111 104 32 21 Q Q 3 43 Q Q Retail Complex 151 92 Q Q Q N Q 42 Q Q Religious Campus or Complex 195 171 50 35 39 Q Q 78							-							
Open Continuously 475 338 70 58 103 4 23 158 15 Q Multibuilding Facility Not Part of a Multibuilding 3,169 2,595 773 299 511 Q 50 1,207 85 18 College or University 83 73 Q 11 11 15 20 12 Q Q Primary or Secondary School 254 218 22 46 53 Q 18 87 Q Q Office Complex 111 104 32 21 Q Q 3 43 Q Q Retail Complex 151 92 Q Q Q N Q 42 Q Q Religious Campus or Complex 195 171 50 35 39 Q Q 78 Q Q Health Care Complex 39 39 12 7 6 1														
Not Part of a Multibuilding Facility 3,169 2,595 773 299 511 Q 50 1,207 85 18 College or University 83 73 Q 11 11 15 20 12 Q Q Primary or Secondary School 254 218 22 46 53 Q 18 87 Q Q Office Complex 111 104 32 21 Q Q 3 43 Q Q Retail Complex 151 92 Q Q Q N Q 42 Q Q Religious Campus or Complex 195 171 50 35 39 Q Q 78 Q Q Health Care Complex 39 39 12 7 6 1 6 20 Q Q Lodging or Resort Complex 61 58 Q 9 26 Q Q														
College or University 83 73 Q 11 11 15 20 12 Q Q Primary or Secondary School 254 218 22 46 53 Q 18 87 Q Q Office Complex 111 104 32 21 Q Q 3 43 Q Q Retail Complex 151 92 Q Q Q N Q 42 Q Q Religious Campus or Complex 195 171 50 35 39 Q Q 78 Q Q Health Care Complex 39 39 12 7 6 1 6 20 Q Q Lodging or Resort Complex 61 58 Q 9 26 Q Q 14 Q Q Government Complex 87 62 Q Q 17 Q 5 27 Q Q														
Primary or Secondary School 254 218 22 46 53 Q 18 87 Q Q Office Complex 111 104 32 21 Q Q 3 43 Q Q Retail Complex 151 92 Q Q Q N Q 42 Q Q Religious Campus or Complex 195 171 50 35 39 Q Q 78 Q Q Health Care Complex 39 39 12 7 6 1 6 20 Q Q Lodging or Resort Complex 61 58 Q 9 26 Q Q 14 Q Q Government Complex 87 62 Q Q 17 Q 5 27 Q Q		3,169	2,595	773	299	511	Q	50	1,207	85	18			
Primary or Secondary School 254 218 22 46 53 Q 18 87 Q Q Office Complex 111 104 32 21 Q Q 3 43 Q Q Retail Complex 151 92 Q Q Q N Q 42 Q Q Religious Campus or Complex 195 171 50 35 39 Q Q 78 Q Q Health Care Complex 39 39 12 7 6 1 6 20 Q Q Lodging or Resort Complex 61 58 Q 9 26 Q Q 14 Q Q Government Complex 87 62 Q Q 17 Q 5 27 Q Q	College or University	83	73	Q	11	11	15	20	12	Q	Q			
Retail Complex 151 92 Q Q Q N Q 42 Q Q Religious Campus or Complex 195 171 50 35 39 Q Q 78 Q Q Health Care Complex 39 39 12 7 6 1 6 20 Q Q Lodging or Resort Complex 61 58 Q 9 26 Q Q 14 Q Q Government Complex 87 62 Q Q 17 Q 5 27 Q Q		254	218		46	53			87	Q				
Retail Complex	Office Complex	111	104	32	21	Q	Q	3	43	Q	Q			
Health Care Complex		151	92	Q	Q	Q	N	Q	42	Q	Q			
Lodging or Resort Complex 61 58 Q 9 26 Q Q 14 Q Q Government Complex 87 62 Q Q 17 Q 5 27 Q Q	Religious Campus or Complex	195	171	50	35	39	Q	Q	78	Q	Q			
Lodging or Resort Complex 61 58 Q 9 26 Q Q 14 Q Q Government Complex 87 62 Q Q 17 Q 5 27 Q Q	Health Care Complex	39	39	12	7	6	1	6	20	Q	Q			
	•	61	58	Q	9	26	Q	Q	14	Q	Q			
	Government Complex	87	62	Q	Q	17	Q	5	27	Q	Q			
	Other	496	214	58	39	45	Q	2	84	Q	Q			

Table B40. Cooling Equipment, Number of Buildings for Non-Mall Buildings, 2003

								3 -,					
				Numb	er of Build	ings (thou	sand)						
			Cooling Equipment (more than one may apply)										
	All Build- ings*	Cooled Build- ings	Resid- ential- Type Central Air Condi- tioners	Heat Pumps	Indiv- idual Air Condi- tioners	District Chilled Water	Central Chillers	Pack- aged Air Condi- tioning Units	Swamp Coolers	Other			
All Buildings*	4,645	3,625	1,006	492	742	33	111	1,613	122	40			
Renovations in Buildings Constructed Before 1980 (more than one may apply) Any Type of Renovation													
Since 1980 Addition or Annex Reduction In Floorspace	1,018 256 22	872 242 22	243 79 Q	107 34 Q	236 75 Q	7 2 Q	40 12 2	399 117 12	35 Q Q	8 Q Q			
Cosmetic Improvements	741 370	644 309	172 84	81 37	170 84	5 2	29 14	321 145	22 Q	6 Q			
Re-Configuration	411 442 455	362 405 396	96 116 109	36 56 49	97 98 103	4 4 6	20 28 24	176 206 196	Q 16 17	Q Q Q			
Window Replacement	310 315 227 19	259 271 187 17	78 74 68 Q	30 31 19 Q	85 81 50 Q	Q 2 Q N	11 12 7 Q	123 124 67 Q	Q Q Q	Q Q Q N			
No Renovations Since 1980 Building Newer than 1980	1,710 1,917	1,248 1,506	359 404	113 273	331 175	11 14	29 42	504 710	46 41	Q 16			
Energy Sources (more than one may apply) Electricity	4,404	3,623	1,006	492	742	33	111	1,613	122	37			
Natural Gas Fuel Oil	2,391 451	2,153 298	652 82	176 21	392 132	17 3	78	1,013 1,116 116	78 10	16 6			
District Heat	67 33	55 33	Q Q	2 1	13 2	25 33	15 Q	8 4	Q Q	Q Q			
Other	502 132	399 78	118 16	39 Q	139 24	Q Q	7 Q	149 32	28 Q	Q Q			
Cooling Energy Sources (more than one may apply) Electricity	3,589	3,589	1,005	492	742	9	106	1,612	122	30			
Natural Gas District Chilled Water	17 33	17 33	Q Q	8	Q 2	Q 33	5	4	Q Q	Q Q			
Energy End Uses (more than one may apply)	0.000	0.400	000	404	740	20	400	4.500	400	20			
Buildings with Space Heating Buildings with Cooling Buildings with Water Heating	3,625 3,472	3,469 3,625 3,112	963 1,006 868	481 492 406	718 742 631	32 33 31	111 109	1,539 1,613 1,430	103 122 115	39 40 33			
Buildings with Cooking Buildings with Manufacturing Buildings with Electricity	801 119	743 92	172 26	103 12	166 19	6 Q	41 Q	417 45	41 Q	8 Q			
Generation	149	144	41	24	33	5	30	76	5	4			
Percent of Floorspace Cooled Not Cooled	1,020	N	N	N	N	N	N	N	N	N			
1 to 50	985	985	284	76	349	Q	9	348	36	Q			
51 to 99	629 2,011	629 2,011	182 540	82 335	119 274	5 27	31 72	313 952	43 43	Q 22			

Table B40. Cooling Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)											
				Co	oling Equi	pment (mo	re than one	e may apply	y)			
	All Build- ings*	Cooled Build- ings	Resid- ential- Type Central Air Condi- tioners	Heat Pumps	Indiv- idual Air Condi- tioners	District Chilled Water	Central Chillers	Pack- aged Air Condi- tioning Units	Swamp Coolers	Other		
All Buildings*	4,645	3,625	1,006	492	742	33	111	1,613	122	40		
Heating Equipment (more than one may apply) Heat Pumps	476	469	36	448	41	Q	11	68	Q	Q		
Packaged Heat Pumps Split-System Heat Pumps Individual Room Heat Pumps	278 166 58	275 163 58	15 25 6	263 154 57	23 18 10	Q Q Q	6 3 5	50 16 14	Q Q Q	Q Q Q		
Furnaces Individual Space Heaters District Heat Boilers	1,864 819 65 579	1,581 685 53 485	675 171 Q 127	85 57 2 39	302 321 12 169	Q Q 24 5	9 12 14 73	689 255 7 207	65 36 Q 22	Q Q Q 9		
Packaged Heating Units Other	953 205	932 154	184 29	51 16	102 47	5 Q	20 10	738 55	16 Q	Q Q		
Cooling Equipment (more than one may apply) Residential-Type Central Air Conditioners	1,006	1,006	1,006	31	99	Q	9	64	12	Q		
Heat Pumps Packaged Heat Pumps Split-System Heat Pumps	492 288 174	492 288 174	31 11 24	492 288 174	39 21 18	1 Q Q	13 7 4	61 43 15	Q Q Q	Q Q Q		
Individual Room Heat Pumps Individual Air Conditioners District Chilled Water Central Chillers	58 742 33 111	58 742 33 111	6 99 Q 9	58 39 1 13	9 742 2 16	Q 2 33 Q	5 16 Q 111	14 153 4 22	Q 21 Q Q	Q Q Q		
Packaged Air Conditioning Units Swamp Coolers	1,613 122 40	1,613 122 40	64 12 Q	61 Q	153 21	4 Q Q	22 Q Q	1,613 34 8	34 122	8 Q 40		
Main Equipment Replaced Since 1990 (more than one may apply)	40	40	Q	Q	Q	Q	Q	0	Q	40		
Cooling	1,197 1,356	1,054 1,356	314 386	145 158	241 373	Q Q	28 36	475 573	25 54	Q Q		
Lighting Equipment Types (more than one may apply) Incandescent Standard Fluorescent	2,184 3,943	1,875 3,408	580 942	239 460	455 694	17 29	73 107	827 1,540	61 120	20 37		
Compact Fluorescent	941 455 565 8	864 400 504	227 105 139 Q	127 68 85 Q	188 85 112 Q	17 10 4 Q	66 33 34 Q	423 202 263 Q	29 17 22 N	10 5 10 N		
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System Economizer Cycle HVAC Maintenance Energy Management and	466 508 2,581	450 508 2,328	101 82 625	56 72 338	47 50 368	20 18 32	56 62 104	245 326 1,157	18 33 91	10 5 26		
Control System (EMCS)	252	248	31	51	29	17	51	117	Q	5		

Table B40. Cooling Equipment, Number of Buildings for Non-Mall Buildings, 2003

	•	•										
		Number of Buildings (thousand)										
				Со	oling Equi	pment (mo	re than one	e may apply	y)			
	All Build- ings*	Cooled Build- ings	Resid- ential- Type Central Air Condi- tioners	Heat Pumps	Indiv- idual Air Condi- tioners	District Chilled Water	Central Chillers	Pack- aged Air Condi- tioning Units	Swamp Coolers	Other		
All Buildings*	4,645	3,625	1,006	492	742	33	111	1,613	122	40		
Equipment Usage Reduced When Building Not In Full Use (more than one may apply) ^a Heating Cooling Lighting Office Equipment	2,878 2,761 3,685 1,504	2,512 2,761 3,122 1,367	692 760 891 432	346 359 412 181	515 596 606 272	18 20 25 11	70 73 81 35	1,135 1,241 1,390 582	79 98 103 27	22 18 27 Q		

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled. N=No responding cases in sample.

Notes: • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

^{*} Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.