Table B34. Cooling Equipment, Number of Buildings, 1999

Buildings Building Floorspace (Square Feet) 1,001 to 5,000	All		-		Cooling Equip	ment (more	than one m	ay apply)		
Buildings Building Floorspace	All									
Building Floorspace (Square Feet) 1,001 to 5,000 5,001 to 10,000 10,001 to 25,000 25,001 to 50,000 50,001 to 100,000 100,001 to 200,000 200,001 to 500,000 Over 500,000 Principal Building Activity Education Food Sales Food Service Health Care Inpatient Outpatient Lodging Mercantile Retail (Other Than Mall) Enclosed and Strip Malls Office Public Assembly Public Order and Safety Religious Worship Service	dings	All Cooled Buildings	Residential- Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
(Square Feet) 1,001 to 5,000 5,001 to 10,000 10,001 to 25,000 25,001 to 50,000 50,001 to 100,000 100,001 to 200,000 200,001 to 500,000 Principal Building Activity Education Food Sales Food Service Health Care Inpatient Outpatient Lodging Mercantile Retail (Other Than Mall) Enclosed and Strip Malls Office Public Assembly Public Order and Safety Religious Worship Service	4,657	3,560	676	485	799	50	130	1,953	136	49
1,001 to 5,000 5,001 to 10,000 10,001 to 25,000 25,001 to 50,000 50,001 to 100,000 100,001 to 200,000 200,001 to 500,000 Principal Building Activity Education Food Sales Food Service Health Care Inpatient Outpatient Lodging Mercantile Retail (Other Than Mall) Enclosed and Strip Malls Office Public Assembly Public Order and Safety Religious Worship Service										
5,001 to 10,000										
10,001 to 25,000	2,348	1,680	319	240	356	Q	Q	857	79	Q
25,001 to 50,000 50,001 to 100,000 100,001 to 200,000 200,001 to 500,000 Over 500,000 Principal Building Activity Education Food Sales Food Service Health Care Inpatient Outpatient Lodging Mercantile Retail (Other Than Mall) Enclosed and Strip Malls Office Public Assembly Public Order and Safety Religious Worship Service	1,110	828	211	95	184	Q	Q	423	25	Q
25,001 to 50,000 50,001 to 100,000 100,001 to 200,000 200,001 to 500,000 Over 500,000 Principal Building Activity Education Food Sales Food Service Health Care Inpatient Outpatient Lodging Mercantile Retail (Other Than Mall) Enclosed and Strip Malls Office Public Assembly Public Order and Safety Religious Worship Service	708	611	96	80	149	Q	17	387	13	Q
50,001 to 100,000	257		24	35	60	7	25		9	4
100,001 to 200,000	145		17	22	29	7	28		7	Q
200,001 to 500,000 Over 500,000 Principal Building Activity Education Food Sales Food Service Health Care Inpatient Outpatient Lodging Mercantile Retail (Other Than Mall) Enclosed and Strip Malls Office Public Assembly Public Order and Safety Religious Worship Service	59		7	9	13	, 5	16	37	2	Q
Over 500,000 Principal Building Activity Education Food Sales Food Service Health Care Inpatient Outpatient Lodging Mercantile Retail (Other Than Mall) Enclosed and Strip Malls Office Public Assembly Public Order and Safety Religious Worship Service	23		2		7	2	9	14	Q	Q
Principal Building Activity Education Food Sales Food Service Health Care Inpatient Outpatient Lodging Mercantile Retail (Other Than Mall) Enclosed and Strip Malls Office Public Assembly Public Order and Safety Religious Worship Service	23 7									
Education	,	,	1	1	1	1	4	4	Q	Q
Food Sales Food Service Health Care Inpatient Outpatient Lodging Mercantile Retail (Other Than Mall) Enclosed and Strip Malls Office Public Assembly Public Order and Safety Religious Worship Service	327	274	23	39	79	Q	31	164	Q	Q
Food Service	174		Q	Q	Q	N	Q	99	Q	Q
Health Care										
Inpatient Outpatient Lodging Mercantile Retail (Other Than Mall) Enclosed and Strip Malls Office Public Assembly Public Order and Safety Religious Worship Service	349		66	Q	71	Q	Q	218	Q	Q
Outpatient Lodging	127		Q	29	15	2	9	77	Q	Q
Lodging	11	11	1	1	Q	2	6	4	Q	Q
Mercantile	116	116	Q	Q	Q	Q	4	73	Q	Q
Retail (Other Than Mall) Enclosed and Strip Malls Office Public Assembly Public Order and Safety Religious Worship Service	153	126	17	26	64	Q	10	47	Q	Q
Enclosed and Strip Malls	667	632	87	54	164	Q	4	370	26	Q
Office	534	499	77	30	154	Q	Q	264	Q	Q
Public Assembly	133	132	Q	24	Q	Q	2	107	Q	Q
Public Assembly	739	716	137	141	90	6	31	385	5	14
Public Order and Safety	305	232	61	30	39	Q	16	126	Q	Q
Religious Worship	72		Q	Q	11	Q	6	14	Q	Q
Service	307		50	19	69	Q	Q		Q	Q
	478		70	33	70	Q	Q		Q	Q
	603		82	42	85	Q	Q		Q	Q
Warehouse and Storage Other	102						Q	28		
Vacant	253		Q Q	Q Q	Q Q	Q N	Q		Q Q	Q Q
Year Constructed										
1919 or Before	419	260	78	Q	101	Q	Q	92	Q	Q
1920 to 1945	499		75	24	124	2	8	143	Q Q	O O
1946 to 1959	763		129	89	178	5	13		29	Q
1960 to 1969	665		39	39	102	5 7	32		29 25	Q
1970 to 1979						Q				
	774		105	106	112		17		33	Q
1980 to 1989	846 690		143 107	121 91	96 86	Q 4	22 29		19 6	Q Q
Census Region		_	_							
Northeast	686		72	19	172	2	17		Q	Q
Midwest	1,188		285	27	214	14	25		Q	Q
South	1,762	1,506	258	329	312	Q	57	841	Q	Q
West	1,021	720	62	110	100	13	31	443	109	Q
Climate Zone: 45-Year Average										
Under 2,000 CDD and										
More than 7,000 HDD	525	366	82	4	137	Q	10	170	Q	Q
5,500-7,000 HDD	986	711	175	18	177	6	22	391	Q	Q
4,000-5,499 HDD	1,085		178	173	207	Q	38		Q	Q
Fewer than 4,000 HDD	1,134		97	174	141	7	27		50	Q
2,000 CDD or More and	.,	210	01					230	50	· ·
Fewer than 4,000 HDD	926	803	144	116	137	23	32	490	Q	Q

Table B34. Cooling Equipment, Number of Buildings, 1999

	Number of Buildings (thousand)											
			Cooling Equipment (more than one may apply)									
	All	All Cooled	Residential- Type Central Air	Heat	Individual Air	District Chilled	Central	Packaged Air Conditioning	Swamp			
	Buildings	Buildings	Conditioners	Pumps	Conditioners	Water	Chillers	Units	Coolers	Other		
Workers (main shift)												
Fewer than 5	. 2,376	1,513	339	169	350	Q	28	724	69	Q		
5 to 9	. 807	681	133	68	163	Q	9	354	26	Q		
10 to 19	. 683	636	101	122	146	Q	11	383	Q	Q		
20 to 49	. 487	433	69	79	61	3	22	295	13	7		
50 to 99	. 174	169	18	29	44	10	18	118	5	Q		
100 to 249	. 90	88	14	10	27	4	21	54	4	3		
250 or More	39	39	3	8	7	5	20	24	1	1		
Weekly Operating Hours												
39 or Fewer	978	439	112	42	109	Q	4	229	Q	Q		
40 to 48	. 1,156	968	205	180	214	Q	27	482	22	6		
49 to 60	. 986	850	114	113	185	13	42	458	25	Q		
61 to 84	. 664	563	137	49	125	6	18	317	42	Q		
85 to 167	. 474	436	72	67	78	4	9	292	15	Q		
Open Continuously	. 398	304	36	34	88	11	30	174	8	4		
Multibuilding Facility Activity Not Part of a Multibuilding												
Facility	3,295	2,567	510	310	574	3	60	1,435	95	24		
College or University		46	Q	Q	9	13	9	12	Q	Q		
Primary or Secondary School		171	4	23	50	Q	17	123	Q	Q		
Office Complex		115		33	8	Q	Q	43	Q	Q		
Retail Complex		163	Q	27	34	Q	Q	117	Q	Q		
Religious Campus or Complex			Q	Q	38	Q	Q	91	Q	Q		
Health Care Complex			Q	21	5	3	6	35	Q	Q		
Government Complex		46	Q	Q	Q	Q	6	6	Q	Q		
Other		244	85	31	65	Q	10	91	Q	Q		
Energy Sources (more than												
one may apply)												
Electricity	,	3,560	676	485	799	50	130	1,953	136	49		
Natural Gas		2,335	503	195	507	21	103	1,356	121	20		
Fuel Oil		302		49	163	3	29	102	4	3		
District Heat		97	4	Q	21	43	16	43	Q	Q		
District Chilled Water	. 50	50	Q	4	Q	50	1	Q	Q	Q		
Propane		318	64	34	107	Q	6	165	12	Q		
Other	. 153	107	45	Q	31	Q	3	51	Q	Q		
Cooling Energy Sources (more than one may apply)												
Electricity	3,450	3,450	676	485	799	24	127	1,870	135	48		
Natural Gas	142	142	Q	17	18	Q	2	111	Q	Q		
District Chilled Water	. 50	50	Q	4	Q	50	1	Q	Q	Q		
Energy End Uses (more than												
one may apply)	4.040	0.400	045	404	774	40	400	4.050	400			
Buildings with Space Heating			645 676	481 485	771 799	49 50	126 130	1,859	126 136	48 49		
Buildings with Woter Leating								1,953				
Buildings with Water Heating Buildings with Cooking		2,915 792		401 97	650 216	37 6	124 49	1,646 519	120 44	34 5		
9		129		97 Q	216 54		49		44 Q	Q		
Buildings with Manufacturing Buildings with Electricity	. 151	129	28	Q	54	Q	3	57	Q	Q		
Generation	. 172	149	26	30	30	5	42	88	4	4		
Percent of Floorspace Cooled												
Percent of Floorspace Cooled Not Cooled	. 1 097	N	N	N	N	N	N	N	N	N		
Not Cooled			N 241	N 84	N 414	N Q	N Q	N 390	N 39	N Q		
	. 1,012	1,012		N 84 92		N Q 8	N Q 45	390	N 39 32	N Q 19		

Table B34. Cooling Equipment, Number of Buildings, 1999

	Number of Buildings (thousand)											
			Cooling Equipment (more than one may apply)									
	All Buildings	All Cooled Buildings	Residential- Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other		
Heating Equipment (more												
than one may apply)		4=0				•		400	•			
Heat Pumps		478	46	447	84	3	12		9	Q		
Furnaces			508	76	262	Q	12		72	12		
Individual Space Heaters		670	104	89	294	9	26		47	4		
District Heat		77	3	4	16	39	15		Q	Q		
Boilers		474	58	39	211	3	96		18	14		
Packaged Heating Units	. 1,347	1,304	75	84	167	Q	26	1,219	48	4		
Other	. 185	143	38	22	47	1	8	49	Q	Q		
Cooling Equipment (more than one may apply)												
Residential-Type Central												
Air Conditioners	. 676	676	676	45	91	Q	8	85	Q	Q		
Heat Pumps		485	45	485	94	4	14	112	6	Q		
·			91	94	799	Q				Q		
Individual Air Conditioners		799					18		13			
District Chilled Water		50	Q	4	Q	50	1	Q	Q	Q		
Central Chillers	. 130	130	8	14	18	1	130	39	2	Q		
Packaged Air Conditioning						_						
Units	,	1,953	85	112	186	Q	39	,	56	12		
Swamp Coolers		136	Q	6	13	Q	2		136	Q		
Other	. 49	49	Q	Q	Q	Q	Q	12	Q	49		
Main Equipment Replaced Since 1995 (more than one may apply)												
Heating	. 984	862	182	127	205	Q	17	490	39	Q		
Cooling			208	173	308	Q	27	575	58	Q		
Building Shell Conservation Features (more than one may apply)												
Multipaned Windows	2,130	1,835	386	291	425	24	86	931	38	35		
Tinted, Reflective, or	2,100	1,000	000	201	120		00	001	00	00		
Shading Glass	. 1,283	1,180	208	169	158	26	74	770	61	11		
HVAC Conservation Features												
(more than one may apply)												
Variable Air-Volume System	. 550	535	111	57	49	19	70	352	9	8		
Economizer Cycle	. 567	567	49	52	51	21	63	444	33	15		
HVAC Maintenance		2,520	451	372	445	48	126	1,524	101	30		
Energy Management and												
Control System (EMCS)	. 460	423	37	45	71	26	60	288	15	11		
Off-Hour Equipment Reduction												
(more than one may apply)						_				_		
Heating			489	357	506	37	85		95	31		
Cooling			512	347	562	36	88		93	33		
Lighting			605	435	694	39	93		119	45		
Office Equipment	. 184	175	12	27	40	4	26	125	4	Q		

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.

Note: 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 1999 Commercial Buildings Energy Consumption Survey.