Table B41. Cooling Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)										
		ie may apı	oly)								
	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*	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232	
Building Floorspace											
(Square Feet)	0.700	5 00 7	4 500	075	070	•	_	4.057	470	_	
1,001 to 5,000	6,789	5,007	1,568	675	972	Q	Q	1,957	179	Q	
5,001 to 10,000	6,585	5,408	1,523	563	1,012	Q	Q	2,741	207	Q	
10,001 to 25,000	11,535	9,922	2,173	1,441	1,740	Q	456	5,260	378	Q	
25,001 to 50,000	8,668	7,776	1,683	1,155	2,301	240	729	4,264	Q	Q	
50,001 to 100,000	9,057	8,331	1,388	1,440	1,958	332	1,722	4,732	Q	Q	
100,001 to 200,000	9,064	8,339	993	1,158	2,259	793	2,366	4,504	Q	Q	
200,001 to 500,000	7,176	6,565	1,136	1,273	1,223	495	3,023	3,834	Q	Q	
Over 500,000	5,908	5,591	569	1,334	1,095	822	3,278	2,678	Q	Q	
Principal Building Activity	0.074	0.200	1 262	1 674	2 607	760	2 714	4 240	0	0	
Education	9,874	9,200	1,263	1,674	2,607	768	2,714	4,318	Q	Q	
Food Sales	1,255	1,198	173	Q	Q	N	N	784	Q	Q	
Food Service	1,654	1,583	468	217	234	Q	Q	988	Q	Q	
Health Care	3,163	3,157	704	625	694	297	1,524	1,694	Q	Q	
Inpatient	1,905	1,899	321	412	607	279	1,348	1,108	Q	Q	
Outpatient	1,258	1,258	384	213	Q	Q	176	585	N	N	
Lodging	5,096	4,841	1,102	1,172	2,306	Q	1,401	2,003	Q	Q	
Retail (Other Than Mall)	4,317	4,079	624	471	564	Q	Q	2,723	Q	Q	
Office	12,208	12,032	1,669	1,854	1,201	730	3,839	6,171	Q	439	
Public Assembly	3,939	3,477	532	473	951	458	423	1,684	Q	Q	
Public Order and Safety	1,090	1,043	Q	Q	372	Q	Q	438	Q	N	
Religious Worship	3,754	3,301	946	612	847	Q	Q	1,849	Q	Q	
Service	4,050	3,261	1,071	496	802	N	Q	1,466	Q	N	
Warehouse and Storage	10,078	7,295	1,861	981	1,440	Q	Q	4,453	Q	Q	
Other	1,738	1,636	Q	Q	Q	Q	505	881	Q	Q	
Vacant	2,567	836	Q	Q	Q	Q	Q	517	Q	N	
Year Constructed											
Before 1920	3,769	2,891	722	Q	1,278	Q	392	1,198	Q	Q	
1920 to 1945	6,871	4,919	1,573	653	1,534	Q	1,063	2,847	Q	Q	
1946 to 1959	7,045	6,045	1,175	888	2,594	359	891	3,023	Q	Q	
1960 to 1969	8,101	7,125	1,421	794	1,888	446	1,776	3,596	Q	Q	
1970 to 1979	10,772	9,973	1,961	1,392	2,065	456	2,323	5,400	483	Q	
1980 to 1989	10,332	9,836	1,397	2,055	1,342	531	2,801	4,855	324	Q	
1990 to 1999	12,360	11,304	2,066	2,038	1,366	804	1,426	6,264	252	Q	
2000 to 2003	5,533	4,848	720	1,064	492	Q	963	2,787	Q	Q	
Census Region											
Northeast	12,905	10,954	2,391	1,270	3,687	620	1,852	6,000	Q	Q	
Midwest	17,080	14,484	3,609	1,063	3,488	596	2,842	8,086	Q	330	
South	23,489	21,553	3,854	4,923	3,635	1,150	4,854	10,401	Q	430	
West	11,310	9,950	1,181	1,785	1,749	487	2,088	5,482	1,342	Q	
Climate Zone: 30-Year Average											
Under 2,000 CDD and		_			_						
More than 7,000 HDD	10,622	8,550	1,971	739	2,321	350	1,604	4,565	515	Q	
5,500-7,000 HDD	17,335	14,524	3,078	1,542	3,633	698	2,658	7,740	468	336	
4,000-5,499 HDD	11,504	10,946	2,207	1,998	2,786	514	2,473	6,076	Q	Q	
Fewer than 4,000 HDD	15,739	13,977	2,056	3,398	2,565	659	2,695	7,703	346	Q	
2,000 CDD or More and											
Fewer than 4,000 HDD	9,584	8,943	1,723	1,365	1,253	633	2,205	3,884	Q	Q	

Table B41. Cooling Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)											
			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*	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232		
Number of Floors												
One	25,981	21,419	4,674	3,598	3,899	259	864	12,208	733	Q		
Two	16,270	14,544	3,178	2,160	3,035	302	2,017	8,436	474	330		
Three	7,501	6,437	1,190	1,118	2,004	262	1,433	3,189	Q	Q		
Four to Nine	10,085	9,673	1,656	1,122	2,735	1,458	3,874	4,208	Q	Q		
Ten or More	4,947	4,867	338	1,043	885	571	3,447	1,927	Q	Q		
Number of Workers (main shift)												
Fewer than 5	15,492	9,591	2,630	1,303	2,342	Q	Q	3,964	349	Q		
5 to 9	6,166	5,726	1,461	696	1,144	Q	Q	3,025	Q	Q		
10 to 19	7,803	7,304	2,035	862	1,608	Q	294	4,059	Q	Q		
20 to 49	10,989	10,566	2,129	1,485	2,680	327	1,243	5,941	410	Q		
50 to 99	7,934	7,428	1,097	1,339	1,710	505	1,736	4,517	Q	Q		
100 to 249	6,871	6,806	776	1,427	1,328	583	2,436	3,939	Q	Q		
250 or More	9,528	9,519	906	1,929	1,746	1,219	5,590	4,524	Q	250		
Weekly Operating Hours												
Fewer than 40	6,863	3,998	1,046	639	854	Q	267	1,758	Q	Q		
40 to 48	11,622	10,508	2,414	1,542	2,362	Q	1,427	5,342	219	Q		
49 to 60	15,723	13,757	2,603	1,971	2,723	658	2,636	7,124	319	Q		
61 to 84	10,334	9,691	1,757	1,572	1,649	347	1,800	5,226	Q	Q		
85 to 167	7,092	6,708	1,104	797	1,072	604	983	4,101	Q	Q		
Open Continuously	13,149	12,277	2,110	2,519	3,897	753	4,523	6,417	418	357		
Multibuilding Facility Not Part of a Multibuilding												
Facility	40,048	35,976	7,374	5,294	7,718	Q	6,043	20,580	1,009	542		
College or University	3,480	3,277	Q	329	492	1,221	1,310	590	Q	Q		
Primary or Secondary School	3,947	3,560	402	828	887	Q	1,077	1,687	Q	Q		
Office Complex	2,712	2,591	336	451	Q	Q	502	1,473	Q	Q		
Retail Complex	1,238	919	Q	Q	Q	N	Q	603	Q	Q		
Religious Campus or Complex	2,347	2,089	806	340	487	Q	Q	1,267	Q	Q		
Health Care Complex	2,303	2,295	435	537	686	297	1,316	1,129	Q	Q		
Lodging or Resort Complex	912	907	Q	251	548	Q	Q	264	Q	Q		
Government Complex	2,014	1,509	Q	Q	436	Q	405	682	Q	Q		
Other	5,783	3,816	953	689	895	Q	570	1,693	Q	Q		

Table B41. Cooling Equipment, Floorspace for Non-Mall Buildings, 2003

		,	-							
				Total Flo	orspace (ı	million sq	uare feet)			
				Co	oling Equi	pment (m	ore than on	e may app	oly)	
	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*	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232
Renovations in Buildings Constructed Before 1980 (more than one may apply) Any Type of Renovation										
Since 1980	17,844 6,551 1,012 13,119	16,221 6,173 1,012 12,360	3,225 1,367 Q 2,479	2,431 1,257 Q 1,646	5,220 2,236 Q 4,194	705 339 Q 476	4,243 1,696 428 3,474	9,203 3,971 664 7,255	555 Q Q 335	441 Q Q 252
Wall or Roof Replacement Interior Wall Re-Configuration	8,070 8,518	7,607 8,096	1,257 1,452	1,160 1,147	2,540 2,460	298 445	2,385 2,607	4,590 5,263	Q Q	Q Q
HVAC Equipment Upgrade Lighting Upgrade Window Replacement Plumbing System Upgrade	10,768 10,275 6,354 7,144	10,341 9,718 5,875 6,728	1,968 1,914 1,162 1,164	1,815 1,452 782 1,056	3,196 3,133 2,521 2,442	537 527 Q 299	3,417 3,052 1,541 2,165	6,158 5,762 3,678 4,170	393 353 Q Q	Q Q Q Q
Insulation Upgrade Other Renovation No Renovations Since 1980 Building Newer than 1980	4,015 523 18,714 28,225	3,801 444 14,732 25,987	966 Q 3,626 4,184	547 Q 1,452 5,157	995 Q 4,138 3,200	Q N 707 1,441	983 Q 2,202 5,191	2,326 Q 6,861 13,905	Q Q 414 592	N Q 454
Energy Sources (more than one may apply)					40.		44.000		. =0.1	
Electricity Natural Gas Fuel Oil	63,307 43,468 15,157	56,925 41,023 13,890	11,035 7,982 2,323	9,041 5,832 2,520	12,558 9,114 4,220	986	11,636 9,100 6,049	29,969 23,806 6,860	1,561 1,265 354	1,217 808 505
District Heat District Chilled Water Propane Other	5,443 2,853 7,076 1,401	4,653 2,853 5,713 1,225	Q Q 1,299 255	404 251 1,072 Q	900 439 2,111 370	2,311 2,853 Q Q	1,837 Q 754 361	1,162 511 3,083 602	Q Q 299 Q	Q Q Q Q
Cooling Energy Sources (more than one may apply)	F4 004	54.004	40.040	0.000	40.550	004	44.054	00.750	4.504	4.004
Electricity Natural Gas District Chilled Water	54,321 1,018 2,853	54,321 1,018 2,853	10,946 Q Q	9,030 325 251	12,558 Q 439		11,054 782 Q	29,756 554 511	1,561 Q Q	1,091 Q Q
Energy End Uses (more than one may apply) Buildings with Space Heating	60,028	55,188	10,617	8,921	12.167	2,734	11.440	29,007	1,451	1,203
Buildings with Cooling	56,940 56,478 22,237 3,138	56,940 53,232 21,451 2,655	11,035 10,156 4,013 690	9,041 8,586 4,239 286	12,558 11,642 6,186 596	2,853 2,655 1,274	11,636 11,589 7,320 Q	29,969 28,255 11,986 1,701	1,561 1,526 678 Q	1,232 1,198 584 Q
Buildings with Electricity Generation	12,821	12,746	1,704	2,608	2,656	1,272	6,047	6,587	304	529
Percent of Floorspace Cooled Not Cooled	7,843	N	N	N	N	N	N	N	N	N
1 to 50	16,598 13,211 27,132	16,598 13,211 27,132	4,453 2,332 4,250	1,573 2,334 5,134	5,424 3,170 3,964	Q 829	462 4,304 6,870	8,900 7,331 13,738	489 522 550	Q 261 766

Table B41. Cooling Equipment, Floorspace for Non-Mall Buildings, 2003

	•		•										
	Total Floorspace (million square feet)												
		Cooling Equipment (more than one may apply)											
	All Build- ings*	Cooled Build- ings	Residential- Type Central Air Conditioners	Heat Pumps	Indiv- idual Air Condi- tioners	District Chilled Water	Central Chillers	Pack- aged Air Condi- tioning Units	Swamp Coolers	Other			
All Buildings*	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232			
Heating Equipment (more than one may apply) Heat Pumps	8,814	8,780	1,356	8,366	2,049	Q	1,992	3,446	Q	Q			
Packaged Heat Pumps Split-System Heat Pumps Individual Room Heat Pumps	5,442 2,581 2,691	5,430 2,559 2,691	800 901 478	5,174 2,452 2,610	1,373 589 963	Q	1,310 592 917	2,526 783 1,346	Q Q Q	Q Q Q			
FurnacesIndividual Space Heaters	19,615 12,545	17,494 11,526	6,251 2,933	2,111 1,774	4,077 4,558	Q Q	1,352 2,175	9,995 6,288	718 611	Q Q			
District Heat Boilers Packaged Heating Units	5,166 20,423 18,021	4,376 19,051 17,745	Q 3,352 2,812	404 2,919 3,065	758 5,926 3,722		1,737 7,857 2,703	1,023 9,946 14,747	Q 620 347	Q 596 Q			
Other	3,262	2,961	495	381	579	Q	979	1,255	Q	Q			
Cooling Equipment (more than one may apply) Residential-Type Central													
Air Conditioners Heat Pumps Packaged Heat Pumps	11,035 9,041 5,426	11,035 9,041 5,426	11,035 1,319 772	1,319 9,041 5,426	2,195 2,139 1,301	Q 251 Q	1,342 2,050 1,258	3,057 3,472 2,442	211 Q Q	Q Q Q			
Split-System Heat PumpsIndividual Room Heat Pumps	2,606 2,940	2,606 2,940	914 471	2,606 2,940	632 1,052	Q Q	648 1,018	799 1,456	Q Q	Q Q			
Individual Air Conditioners District Chilled Water Central Chillers	12,558 2,853 11,636	12,558 2,853 11,636	2,195 Q 1,342	2,139 251 2,050	12,558 439 1,896	439 2,853 Q	1,896 Q 11,636	5,678 511 3,759	436 Q Q	Q Q Q			
Packaged Air Conditioning Units Swamp Coolers	29,969 1,561	29,969 1,561	3,057 211	3,472 Q	5,678 436	511 Q	3,759 Q	29,969 627	627 1,561	407 Q			
Other Main Equipment Replaced Since	1,232	1,232	Q	Q	Q	Q	Q	407	Q	1,232			
1990 (more than one may apply) Heating	16,403	15,190	3,284	2,370	4,138		2,388	8,431	488	Q			
Cooling Lighting Equipment Types	20,995	20,995	4,305	3,352	6,419	Q	4,495	10,995	716	Q			
(more than one may apply) Incandescent Standard Fluorescent	38,528 59,688	36,075 55,117	7,231 10,670	6,153 8,862	9,229 12,036	1,768 2,784	9,518 11,452	18,592 29,192	1,019 1,528	798 1,199			
Compact Fluorescent High Intensity Discharge	27,571 20,643	26,790 19,054	4,684 3,627	5,151 4,048	6,158 4,427	1,909 1,040	9,374 6,081	13,867 10,844	622 583	781 490			
Halogen Other	17,703 269	17,115 269	3,026 Q	3,522 Q	4,280 Q	_	5,888 Q	9,955 Q	508 N	556 N			
HVAC Conservation Features (more than one may apply) Variable Air-Volume System	19,597	19,255	2,264	2.885	3,081	1,923	8,288	9,973	322	569			
Economizer Cycle HVAC Maintenance	21,108 51,163	21,108 47,935	2,264 2,559 8,670	3,708 7,946	3,267 9,884	1,930	8,488 11,430	12,414 26,294	528 1,323	438 1,167			
Energy Management and Control System (EMCS)	15,630	15,358	1,632	2,852	2,191	1,771	7,114	7,308	238	418			

Table B41. Cooling Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)											
		Cooling Equipment (more than one may apply)										
	AII 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*	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232		
Equipment Usage Reduced When Building Not In Full Use (more than one may apply) ^a Heating	42,722 43,205 46,987	39,864 43,205 42,589	7,513 8,376 8,500	6,400 6,789 6,285	8,005 8,952 8,293	2,264	8,425 8,619 6,814	21,316 22,962 22,584	1,062 1,148 1,111	739 748 790		

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.