

U.S. Census Bureau

Refrigeration, Air-Conditioning, and Warm Air Heating Equipment - 2009

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Address inquiries concerning these data to Investment Goods Industries Branch, U.S. Department of Commerce, Census Bureau, Manufacturing and Construction Division, Washington, DC 20233-6900, or call Kandace Pickeral, 301-763-9392.

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Table 1. Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment; 2009 to 2005 [Millions of dollars]

Product Code	Product description	Year		Value
3334152	Heat transfer equipment (excluding room and unitary air-conditioners)	2009		4,355
		2008	r/	5,288
		2007	a/	5,505
		2006		4,937
		2005		4,805
3334153 (pt.)	Commercial refrigeration equipment, mechanical drinking water coolers	2009		368
		2008	r/	412
		2007		490
		2006		472
		2005		502
3334155	Refrigeration condensing units, all refrigerants, excluding ammonia (complete)	2009		307
		2008		402
		2007		392
		2006		358
		2005		335
3334156	Room air-conditioners and dehumidifiers (excluding portable dehumidifiers)	2009		206
		2008	r/	266
		2007		486
		2006		473
		2005		521
3363917	Motor vehicle mechanical air-conditioning systems	2009		1,749
		2008	r/	2,181
		2007	a/	2,069
		2006		2,333
		2005		2,783
333415A	Compressors and compressor units, all refrigerants (excluding automotives)	2009		1,929
		2008	r/	2,369
		2007		3,005
		2006		3,298
		2005		2,937
336391B	Automotive air-conditioning compressors (open-type, with or without motor)	2009	b/	480
		2008	a/r/	753
		2007	a/	1,134
		2006		1,424
		2005		1,522
333415C	Warm air furnaces, including duct furnaces and humidifiers, and electric comfort heating	2009		1,916
		2008		1,829
		2007		2,090
		2006		2,205
		2005		2,268
333415E	Unitary air-conditioners, excluding air source heat pumps	2009	a/	6,247
		2008		6,994
		2007		7,603
		2006		7,402
		2005		6,979
333415F	Air source heat pumps, excluding room air-conditioners	2009	b/	2,191
		2008		2,000
		2007		2,030
		2006		1,987
		2005		1,869
333415G	Ground and ground water source heat pumps (single and split systems)	2009		286
		2008	c/r/	295
		2007	c/	266
		2006		198
		2005		171

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2009 and 2008
[Quantity in number of units. Value in thousands of dollars]

Product Code	Product description	Year	No. of cos.	Quantity		Value	
3334152	Heat transfer equipment (excluding room and unitary air-conditioners)	2009	(X)	(X)		4,355,151	
		2008		(X)	r/	5,287,811	
3334152101	Heat transfer packaged terminal air-conditioners	2009	7	(D)		(D)	
		2008		(D)		(D)	
3334152103	Heat transfer packaged terminal heat pumps	2009	4	(D)		(D)	
		2008		(D)		(D)	
3334152105	Heat transfer evaporative condensers, 100 tons and under	2009	7		1,051	16,888	
		2008		a/	1,480	20,748	
3334152107	Heat transfer evaporative condensers, over 100 tons	2009	6		963	57,459	
		2008			1,330	60,621	
3334152109	Heat transfer room fan-coil air conditioning units, vertical stack	2009	5	a/	18,323	a/	21,368
		2008		a/	52,456	a/	60,314
3334152111	Heat transfer room fan-coil air conditioning units, vertical	2009	6		66,972		78,906
		2008			85,850		95,977
3334152113	Heat transfer room fan-coil air conditioning units, horizontal	2009	5		42,672		29,142
		2008			50,010		35,948
3334152117	Heat transfer central station air-handling units (motor-driven fan-type), draw through	2009	12		61,576		623,517
		2008			69,709		681,183
3334152119	Heat transfer central station air-handling units (motor-driven fan-type), blow through	2009	7		6,937		135,776
		2008		r/	7,938		148,459
3334152121	Heat transfer central station air-handling units (motor-driven fan-type), heating and ventilating	2009	6		1,643		65,659
		2008			2,308		82,932
3334152123	Heat transfer coolers (refrigeration), ceiling, wall-mounted, and floor-mounted unit coolers, 4,000 Btuh and below	2009	5		(D)		(D)
		2008			56,757		13,977
3334152125	Heat transfer coolers (refrigeration), ceiling, wall-mounted, and floor-mounted unit coolers, 4,001 to 18,000 Btuh	2009	4		(D)		(D)
		2008			(D)		(D)
3334152133	Heat transfer coolers (refrigeration), ceiling, wall-mounted, and floor-mounted unit coolers, over 18,000 Btuh	2009	10		(D)		(D)
		2008			30,293	r/	132,870
3334152135	Heat transfer coolers (refrigeration), air cooled refrigerant condensers (remote-type), under 30 tons	2009	10		10,785		24,608
		2008			15,633		33,393
3334152137	Heat transfer coolers (refrigeration), air cooled refrigerant condensers (remote-type), 30 to 50 tons	2009	5		1,541		11,077
		2008		r/	1,841	r/	12,916
3334152139	Heat transfer coolers (refrigeration), air cooled refrigerant condensers (remote-type), over 50 tons	2009	5		(D)		(D)
		2008			3,374		33,311
3334152141	Miscellaneous heat transfer equipment, shell-and-tube, shell-and-coil, shell-and-u-tube, tube-in-tube, condensers	2009	4		(X)		32,826
		2008			(X)		37,283
3334152143	Miscellaneous heat transfer equipment, shell-and-tube, shell-and-coil, shell-and-u-tube, tube-in-tube, liquid coolers	2009	9		(X)		35,349
		2008			(X)		37,959
3334152145	Miscellaneous heat transfer equipment, liquid-suction heat heat exchangers and refrigerant liquid receivers	2009	4		(X)		9,363
		2008			(X)		9,137
3334152147	Miscellaneous heat transfer equipment, central system finned coils (air-conditioning and refrigeration type), standard steam and steam distributing tube	2009	9		(X)		16,535
		2008			(X)		21,099
3334152149	Miscellaneous heat transfer equipment, central system finned coils (air-conditioning and refrigeration type), standard water cooling and/or heating and cleanable tube	2009	8		(X)	c/	69,583
		2008			(X)	c/	74,241
3334152151	Miscellaneous heat transfer equipment, central system finned coils (air-conditioning and refrigeration type), volatile refrigerant cooling	2009	8		(X)		5,781
		2008			(X)		5,232

3334152153	Miscellaneous heat transfer equipment, coil sales by original equipment manufacturers intended for resale or assembly into equipment by other manufacturers (all types), copper and aluminum	2009	13	(X)	a/	275,084
		2008		(X)	a/	404,053
3334152155	Miscellaneous heat transfer equipment, coil sales by original equipment manufacturers intended for resale or assembly into equipment by other manufacturers (all types), aluminum (only)	2009	6	(X)	b/	61,678
		2008		(X)		90,455
3334152157	Miscellaneous heat transfer equipment, coil sales by original equipment manufacturers intended for resale or assembly into equipment by other manufacturers (all types), other (including steel and copper)	2009	6	(X)		35,117
		2008		(X)		61,181
3334152163	Heat transfer centrifugal liquid chilling packages, hermetic and open types	2009	9	4,747		686,813
		2008		6,770	r/	834,979
3334152169	Heat transfer ice-making machines, self-contained ice-cube makers, automatic, under 200 lb	2009	4	61,699		55,522
		2008		83,537		77,246
3334152171	Heat transfer ice-making machines, self-contained ice-cube makers, automatic, 200 lb and over	2009	5	(D)		(D)
		2008		(D)		(D)
3334152173	Heat transfer ice-making machines, self-contained flake or chip machines, 300 lbs and under	2009	3	546		1,369
		2008		908		2,238
3334152175	Heat transfer ice-making machines, self-contained flake or chip machines, over 300 lb	2009	6	17,958		42,016
		2008		20,805		50,580
3334152177	Heat transfer ice-making machines, not self-contained	2009	7	94,876		215,750
		2008		119,377		262,607
3334152179	Heat transfer ice-making machines, combination ice makers and ice/drink dispensers	2009	5	62,367		150,330
		2008		80,098		189,838
3334152181	Heat transfer absorption refrigeration and dehydration systems	2009	3	(D)		(D)
		2008		(D)		(D)
3334152185	Heat transfer reciprocating air and reciprocating water cooled, air cooled screw, air cooled scroll, and water cooled scroll machines, 20 hp and under	2009	19	5,199		40,646
		2008	a/	9,891	r/	55,673
3334152187	Heat transfer reciprocating air and reciprocating water cooled, air cooled screw, air cooled scroll, and water cooled scroll machines, 21 to 49 hp	2009	12	6,248		43,063
		2008		7,054	r/	50,919
3334152189	Heat transfer reciprocating air and reciprocating water cooled, air cooled screw, air cooled scroll, and water cooled scroll machines, 50 to 75 hp	2009	11	3,745		79,667
		2008	r/	5,380		95,549
3334152191	Heat transfer reciprocating air and reciprocating water cooled, air cooled screw, air cooled scroll, and water cooled scroll machines, over 75 hp	2009	11	4,600		264,104
		2008		6,941		359,109
3334152193	Heat transfer factory-fabricated water cooling towers	2009	8	4,106		166,869
		2008		6,102	r/	260,231
3334152194	Other heat transfer equipment including room air-induction units, and mechanical refrigeration systems used on all types of vehicles.	2009	5	(D)		(D)
		2008		(D)		(D)
3334153 (pt)	Commercial refrigeration equipment, mechanical drinking water coolers	2009	(X)	502,330		368,325
		2008	b/	580,091	r/	411,858
3334155	Total refrigeration condensing units, all refrigerants, excluding ammonia (complete)	2009	(X)	259,267		306,709
		2008		338,531		402,250
3334155123	Condensing units, refrigeration (complete), air-cooled hermetic-type, 1 hp and under	2009	11	180,832		150,618
		2008		233,660		177,419
3334155125	Condensing units, refrigeration (complete), air-cooled hermetic-type, 1.5 hp	2009	7	19,105	a/	18,921
		2008		26,158	a/	24,721
3334155128	Condensing units, refrigeration (complete), air-cooled hermetic-type, 2 hp and 2.5 hp	2009	7	17,187		20,810
		2008		23,171		26,680
3334155130	Condensing units, refrigeration (complete), air-cooled hermetic-type, 3 hp	2009	8	15,911		20,414
		2008		19,712		24,584
3334155132	Condensing units, refrigeration (complete), air-cooled hermetic-type, over 3 hp but under 15 hp	2009	12	18,846		50,740
		2008		26,049		72,598

3334155144	Condensing units, refrigeration (complete), water-cooled hermetic-type, under 15 hp	2009	4	(D)		(D)
		2008		(D)		(D)
3334155161	Condensing units, refrigeration (complete), water or air-cooled hermetic-type, 15 hp	2009	6	930		6,379
		2008		1,184		7,693
3334155163	Condensing units, refrigeration (complete), water or air-cooled hermetic-type, 20 hp	2009	6	562		4,534
		2008		898		8,170
3334155165	Condensing units, refrigeration (complete), water or air-cooled hermetic-type, 25 hp	2009	5	409		2,943
		2008		(D)		(D)
3334155167	Condensing units, refrigeration (complete), water or air-cooled hermetic-type, 30 hp	2009	5	594		7,040
		2008		942		12,332
3334155170	Condensing units, refrigeration (complete), water or air-cooled hermetic-type, 40 hp and over	2009	6	1,222		15,300
		2008		1,856		29,623
3334155180	Condensing units, refrigeration (complete), water or air-cooled open-type (all sizes)	2009	4	(D)		(D)
		2008		(D)		(D)
3334155181	Other Refrigeration condensing units	2009	0	-		-
		2008		(D)		(D)
3334156	Total room air-conditioners and dehumidifiers (excluding portable dehumidifiers)	2009	(X)	(X)		206,375
		2008		(X)	r/	265,764
3334156111	Electrically operated dehumidifiers, mechanically refrigerated, self-contained	2009	4	(D)		(D)
		2008		(D)		(D)
3334156145	Room air-conditioners, 12,999 Btuh and under	2009	5	(D)		(D)
		2008		(D)		(D)
3334156160	Room air-conditioners, 13,000 to 19,999 Btuh	2009	5	(D)		(D)
		2008		(D)		(D)
3334156170	Room air-conditioners, 20,000 Btuh and over	2009	4	(D)		(D)
		2008		10,338	a/	30,743
3334156911	Total number of room air conditioners designed to operate on 115 volt circuits	2009	(X)	(D)		(X)
		2008		r/ 40,351		(X)
3363917	Total motor vehicle mechanical air-conditioning systems	2009	(X)	(X)		1,748,730
		2008		(X)	r/	2,180,929
3363917110	Air-conditioning units and systems for passenger automobiles	2009	17	6,855,201		703,717
		2008		r/ 7,623,493	r/	1,045,048
3363917120	Air-conditioning units and systems for buses	2009	4	(D)		(D)
		2008		(D)		(D)
3363917130	Other motor vehicle mechanical air-conditioning systems	2009	11	(D)		(D)
		2008		(D)		(D)
333415A	Total compressors and compressor units, all refrigerants (excluding automotives)	2009	(X)	(X)		1,929,160
		2008		(X)	r/	2,368,600
333415A125	Compressors and compressor units, all refrigerants (excluding ammonia), hermetic-type motor compressors, under 10 hp	2009	8	7,862,907		1,682,256
		2008		r/ 9,781,919	r/	2,069,344
333415A130	Compressors and compressor units, all refrigerants (excluding ammonia), hermetic-type motor compressors, 15 hp	2009	7	11,262		12,761
		2008		r/ 15,746	r/	16,920
333415A132	Compressors and compressor units, all refrigerants (excluding ammonia), hermetic-type motor compressors, 20 hp	2009	7	3,028		5,920
		2008		r/ 4,951	r/	8,906
333415A134	Compressors and compressor units, all refrigerants (excluding ammonia), hermetic-type motor compressors, 25 hp	2009	7	3,145		6,410
		2008		r/ 4,354	r/	8,951
333415A136	Compressors and compressor units, all refrigerants (excluding ammonia), hermetic-type motor compressors, 30 hp	2009	6	1,301		4,271
		2008		(D)		(D)
333415A145	Compressors and compressor units, all refrigerants (excluding ammonia), hermetic-type motor compressors, 40 hp and over	2009	8	6,919		33,444
		2008		8,814		40,898
333415A152	Compressors and compressor units, all refrigerants (excluding ammonia), open-type compressors (with or without motor,	2009	6	(D)		(D)
		2008		6,412		12,531

all sizes)

333415A154	Compressors and compressor units, all refrigerants (excluding ammonia), screw type	2009 2008	2		(D) (D)		(D) (D)
333415A155	Other type compressors, including screw types, excluding ammonia types.	2009 2008	1		(D) (D)		(D) (D)
333415A158	Compressors and compressor units, ammonia refrigerants (all types)	2009 2008	5		1,767 2,230		110,663 127,132
336391B	Automotive air-conditioning compressors (open-type, with or without motor)	2009 2008	(X)	b/ a/r/	4,740,604 7,504,271	b/ a/r/	479,800 752,593
333415C	Total warm air furnaces, including duct furnaces and humidifiers, and electric comfort heating	2009 2008	(X)		(X) (X)		1,915,568 1,829,245
333415C101	Warm air furnaces and humidifiers, oil, forced air, 150,000 Btuh bonnet output and under	2009 2008	14	c/ c/	74,750 75,002	b/ b/	60,659 59,121
333415C105	Warm air furnaces and humidifiers, oil, forced air, 150,001 Btuh bonnet output and over	2009 2008	9		(D) (D)		(D) (D)
333415C107	Warm air furnaces and humidifiers, gas, forced air, 150,000 Btuh bonnet output and under	2009 2008	16		2,855,035 2,989,628		1,782,843 1,679,302
333415C112	Warm air furnaces and humidifiers, gas, forced air, 150,001 Btuh bonnet output and over	2009 2008	11		4,169 5,713		17,117 25,350
333415C179	All other electric warm air furnaces	2009 2008	3		(D) (D)		(D) (D)
333415C181	Humidifiers (attachments to warm air furnaces) all types, including central systems and self-contained (excluding portable humidifiers)	2009 2008	10		337,008 374,178	c/ c/	47,189 55,124
333415E	Total unitary air-conditioners, excluding air source heat pumps	2009 2008	(X)		(X) (X)	a/	6,246,985 6,993,657
333415E107	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, under 27,000 Btuh	2009 2008	13	b/ b/	7,169 8,096	a/ b/	9,091 9,693
333415E109	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 27,000 to 32,999 Btuh	2009 2008	12		19,079 26,472		24,889 30,570
333415E111	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 33,000 to 53,999 Btuh	2009 2008	13	r/	36,486 44,296	b/ c/	81,194 91,104
333415E113	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 54,000 to 64,999 Btuh	2009 2008	13		27,379 36,863		55,607 66,695
333415E115	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 65,000 to 96,999 Btuh	2009 2008	10	a/ a/	15,363 25,535		41,382 58,271
333415E117	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 97,000 to 134,999 Btuh	2009 2008	10		13,024 16,826		58,004 62,995
333415E119	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 135,000 to 184,999 Btuh	2009 2008	11		6,920 12,240		44,910 63,115
333415E121	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 185,000 to 249,999 Btuh	2009 2008	10		3,593 6,420		37,610 52,316
333415E123	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 250,000 to 319,999 Btuh	2009 2008	9		2,315 5,746		28,407 41,823
333415E135	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 320,000 to 379,999 Btuh	2009 2008	9		794 1,225	a/ a/	18,900 26,668

333415E141	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 380,000 Btuh and over	2009	10	a/	2,580	b/	131,086
		2008		a/	4,536	b/	214,925
333415E149	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), other than horizontal, 96,999 Btuh and over	2009	5		19,321		41,806
		2008			(D)		(D)
333415E155	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), under 33,000 Btuh	2009	13	b/	79,831	b/	109,768
		2008		b/	86,513	b/	120,603
333415E157	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 33,000 to 38,999 Btuh	2009	12		75,749		139,458
		2008			73,965		130,873
333415E159	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 39,000 to 43,999 Btuh	2009	10		19,424		31,621
		2008		r/	23,225		43,191
333415E161	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 44,000 to 53,999 Btuh	2009	11		51,766		116,625
		2008			56,873		120,746
333415E163	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 54,000 to 64,999 Btuh	2009	16	a/	76,571	b/	237,784
		2008		a/	96,752	b/	285,363
333415E165	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 65,000 to 134,999 Btuh	2009	11		81,201		364,760
		2008			108,412		454,255
333415E167	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 135,000 to 184,999 Btuh	2009	10		21,465		149,924
		2008			32,200		217,005
333415E169	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 185,000 to 249,999 Btuh	2009	12		9,357		115,299
		2008			13,713		152,904
333415E171	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 250,000 to 319,999 Btuh	2009	9		4,474		69,679
		2008			6,246		80,743
333415E173	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 320,000 to 379,999 Btuh	2009	9		1,210		28,547
		2008			1,980		44,278
333415E175	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 380,000 to 539,999 Btuh	2009	8		1,134		45,476
		2008			1,462		43,562
333415E177	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 540,000 to 639,999 Btuh	2009	7		636		32,166
		2008			909		39,329
333415E179	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 640,000 Btuh and over	2009	8		899	a/	71,062
		2008			1,524		117,560
333415E181	Water source heat pumps (excluding room air- conditioners)	2009	10		180,101		320,437
		2008			223,636		358,621
333415E182	Split system air-conditioning condensing units, under 22,000 Btuh	2009	12	a/	257,015	a/	126,682
		2008			262,481		129,901
333415E183	Split system air-conditioning condensing units, 22,000 to 26,999 Btuh	2009	12	a/	740,174	a/	432,012
		2008			736,254		411,404
333415E185	Split system air-conditioning condensing units, 27,000 to 32,999 Btuh	2009	11	a/	579,554	a/	371,103
		2008			611,983		377,877
333415E187	Split system air-conditioning condensing units, 33,000 to 38,999 Btuh	2009	10	a/	798,346	a/	589,352
		2008			772,266		525,483
333415E189	Split system air-conditioning condensing units, 39,000 to 43,999 Btuh	2009	9	a/	284,728	a/	231,157
		2008			297,130		231,131
333415E191	Split system air-conditioning condensing units, 44,000 to 53,999 Btuh	2009	10	a/	444,388	a/	444,332
		2008			439,865		406,169
333415E193	Split system air-conditioning condensing units, 54,000 to 64,999 Btuh	2009	9	a/	380,338	a/	411,499
		2008		r/	414,161	r/	408,324
333415E195	Split system air-conditioning condensing units, 65,000 to 96,999 Btuh.	2009	6		17,103		28,899
		2008			30,138		52,936
333415E197	Split system air-conditioning condensing units, 97,000 to 134,999 Btuh	2009	6		15,261		33,402
		2008			17,082		36,094
333415E199	Split system air-conditioning condensing units, 135,000 to 184,999 Btuh	2009	6		7,798		28,445
		2008			11,450		40,304

333415E19A	Split system air-conditioning condensing units, 185,000 to 249,999 Btuh	2009	6				3,466	17,318
		2008					5,852	28,045
333415E19C	Split system air-conditioning condensing units, 250,000 to 319,999 Btuh	2009	4				1,273	9,409
		2008					1,639	11,330
333415E19E	Split system air-conditioning condensing units, 320,000 to 379,999 Btuh	2009	4				(D)	(D)
		2008					a/ 1,780	c/ 18,931
333415E19G	Split system air-conditioning condensing units, 380,000 to 539,999 Btuh	2009	4				858	10,143
		2008					1,072	11,769
333415E19K	Split system air-conditioning condensing units, 540,000 and over	2009	4				1,201	22,313
		2008					r/ 1,472	r/ 25,987
333415E19M	Split system air-conditioning coils, with blower	2009	8				1,543,274	772,417
		2008					r/ 1,909,670	874,540
333415E19P	Split system air-conditioning coils, without blower	2009	8				1,085,321	241,617
		2008					b/r/ 1,496,621	r/ 282,063
333415E20R	Other unitary air-conditioners, including recreational vehicle types, excluding any source of heat pumps	2009	4				(D)	(D)
		2008					(D)	(D)
333415F	Total air source heat pumps, excluding room air-conditioners	2009	(X)	a/			1,571,058	b/ 2,190,508
		2008					1,764,367	1,999,843
333415F123	Air source heat pumps (excluding room air- conditioners), single package, under 27,000 Btuh	2009	12	a/			23,987	a/ 33,381
		2008					a/r/ 27,994	a/r/ 38,280
333415F134	Air source heat pumps (excluding room air- conditioners), single package, 27,000 to 41,999 Btuh	2009	13				80,212	131,616
		2008					r/ 87,123	r/ 132,896
333415F145	Air source heat pumps (excluding room air- conditioners), single package, 42,000 to 64,999 Btuh	2009	11				74,783	147,223
		2008					r/ 81,907	r/ 153,578
333415F156	Air source heat pumps (excluding room air- conditioners), single package, 65,000 Btuh and over	2009	8				12,367	54,546
		2008					18,668	74,563
333415F167	Air source heat pumps (excluding room air- conditioners), split system, under 27,000 Btuh	2009	9	a/			501,196	a/ 416,213
		2008					475,493	368,254
333415F178	Air source heat pumps (excluding room air- conditioners), split system, 27,000 to 41,999 Btuh	2009	9	b/			723,853	b/ 796,582
		2008					674,255	687,853
333415F189	Air source heat pumps (excluding room air- conditioners), split system, 42,000 to 64,999 Btuh	2009	8	a/			405,431	a/ 572,172
		2008					380,695	497,997
333415F195	Air source heat pumps (excluding room air- conditioners), split system, 65,000 Btuh and over	2009	7				14,541	38,775
		2008					18,251	46,422
333415G	Ground and ground water source heat pumps (single and split systems)	2009	(X)				86,260	286,071
		2008					a/r/ 90,577	c/r/ 295,276
333415H (pt.)	Total all refrigerants (excluding ammonia) for household refrigerators	2009	(X)				(D)	(X)
		2008					(D)	(X)
333415H905	Refrigerants (excluding ammonia) for household refrigerators, under 2 hp	2009	(X)				(D)	(X)
		2008					(D)	(X)
333415H908	Refrigerants (excluding ammonia) for household refrigerators, 2 hp	2009	(X)				(D)	(X)
		2008					(D)	(X)
333415H909	Refrigerants (excluding ammonia) for household refrigerators, 3 hp	2009	(X)				(D)	(X)
		2008					(D)	(X)
333415H910	Refrigerants (excluding ammonia) for household refrigerators, 4 hp	2009	(X)				(D)	(X)
		2008					(D)	(X)
333415H911	Refrigerants (excluding ammonia) for household refrigerators, 5 hp	2009	(X)				(D)	(X)
		2008					(D)	(X)
333415H912	Refrigerants (excluding ammonia) for household refrigerators, 7 1/2 hp	2009	(X)				22,491	(X)
		2008					35,998	(X)
333415H913	Refrigerants (excluding ammonia) for household refrigerators, 10 hp	2009	(X)				(D)	(X)
		2008					(D)	(X)

333415H914	Refrigerants (excluding ammonia) for household refrigerators, 15 hp	2009 2008	(X)	(D) (D)	(X) (X)
333415H915	Refrigerants (excluding ammonia) for household refrigerators, 20 hp	2009 2008	(X)	5,287 8,327	(X) (X)
333415H916	Refrigerants (excluding ammonia) for household refrigerators, 25 hp	2009 2008	(X)	4,353 6,144	(X) (X)
333415H917	Refrigerants (excluding ammonia) for household refrigerators, 30 hp	2009 2008	(X)	5,376 8,394	(X) (X)
333415H918	Refrigerants (excluding ammonia) for household refrigerators, 40 hp	2009 2008	(X)	5,478 8,599	(X) (X)
333415H919	Refrigerants (excluding ammonia) for household refrigerators, 50 hp	2009 2008	(X)	(D) (D)	(X) (X)
333415H920	Refrigerants (excluding ammonia) for household refrigerators, 60 hp	2009 2008	(X)	(D) (D)	(X) (X)
333415H921	Refrigerants (excluding ammonia) for household refrigerators, 75 hp	2009 2008	(X)	2,908 4,669	(X) (X)
333415H922	Refrigerants (excluding ammonia) for household refrigerators, 100 hp and over	2009 2008	(X)	13,827 20,824	(X) (X)
333415H (pt.)	Automotive air-conditioning, including passenger automobiles, trucks, buses, agriculture, and construction equipment	2009 2008	(X)	c/ b/ 2,393,136 3,044,169	(X) (X)
333415H (pt.)	Ammonia refrigerants	2009 2008	(X)	(D) (D)	(X) (X)

Table 3. Shipments, Exports, and Imports of Air-Conditioning and Refrigeration Equipment: 2009 and 2008
[Value in thousands of dollars]

Product code 1/	Product description	Year		Manufactures' shipments (value f.o.b. plant)	Exports of domestic merchandise (value at port) 2/ 3/	Imports for consumption 4/ 5/
3334152	Heat transfer equipment (excluding room and unitary air-conditioners)	2009		4,355,151	362,333	251,829
		2008	r/	5,287,811	518,332	342,224
3334153 (pt.)	Commercial refrigeration equipment, mechanical drinking water coolers	2009		368,325	8,908	100,442
		2008	r/	411,858	10,693	116,455
3334155	Refrigeration condensing units, all refrigerants, excluding ammonia (complete)	2009		306,709	44,480	70,917
		2008		402,250	55,393	62,362
3334156	Room air-conditioners and dehumidifiers (excluding portable dehumidifiers)	2009		206,375	55,089	979,150
		2008	r/	265,764	75,894	1,156,903
3363917	Motor vehicle mechanical air-conditioning systems	2009		1,748,730	(X)	(X)
		2008	r/	2,180,929	(X)	(X)
333415A	Compressors and compressor units, all refrigerants (excluding automotives)	2009		1,929,160	779,665	1,116,163
		2008	r/	2,368,600	1,094,500	1,468,694
336391B	Automotive air-conditioning compressors (open-type, with or without motor)	2009	b/	479,800	(X)	(X)
		2008	a/r/	752,593	(X)	(X)
333415C	Warm air furnaces, including duct furnaces and humidifiers, and electric comfort heating	2009		1,915,568	(X)	(X)
		2008		1,829,245	(X)	(X)
333415E	Unitary air-conditioners, excluding air source heat pumps	2009	a/	6,246,985	409,978	617,299
		2008		6,993,657	518,975	796,746
333415F	Air source heat pumps, excluding room air-conditioners	2009	b/	2,190,508	(X)	(X)
		2008		1,999,843	(X)	(X)
333415G	Ground and ground water source heat pumps (single and split systems)	2009		286,071	(X)	(X)
		2008	c/r/	295,276	(X)	(X)

Footnotes:

1/ For comparison of North American Industry Classification System (NAICS)-based product codes with Schedule B export codes and HTSUSA import codes, see Table 4.

2/ Source: Census Bureau report, EM 545, U.S. Exports.

3/ Dollar value represents the c.i.f. (cost, insurance, and freight) value at the port of export.

4/ Source: Census Bureau report IM 145, U.S. Imports for Consumption. Data include both import value and duty value.

5/ Represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.

Table 4. Comparison of North American Industry Classification System (NAICS-Based) Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2009

Product code	Product description	Export code 1/	Import code 2/
3334152	Heat transfer equipment (excluding room and unitary air-conditioners)	8415.82.0130	8415.82.0130
		8415.82.0135	8415.82.0135
		8418.69.0110	8418.69.0110
		8418.69.0140	8418.69.0140
		8418.69.0150	8418.69.0150
		8418.69.0160	8418.69.0160
3334153 (pt.)	Commercial refrigeration equipment, mechanical drinking water coolers	8418.69.0120	8418.69.0120
3334155	Refrigeration condensing units, all refrigerants, excluding ammonia (complete)	8418.99.0005	8418.99.8005
		8418.99.0010	8418.99.8010
		8418.99.0015	8418.99.8015
		8418.99.0020	8418.99.8020
		8418.99.0025	8418.99.8025
3334156	Room air-conditioners and dehumidifiers (excluding portable dehumidifiers)	8415.10.3040	8415.10.3040
		8415.10.3060	8415.10.3060
		8415.10.3080	8415.10.3080
		8415.82.0150	8415.82.0155 8415.82.0160
3363917	Motor vehicle mechanical air-conditioning systems 3/	(X)	(X)
333415A	Compressors and compressor units, all refrigerants (excluding automotives)	8414.30.4000	8414.30.4000
		8414.30.8010	8414.30.8010
		8414.30.8020	8414.30.8020
		8414.30.8030	8414.30.8030
		8414.30.8050	8414.30.8050
		8414.30.8060	8414.30.8060
		8414.30.8070	8414.30.8070
		8414.30.8080	8414.30.8080
		8414.30.8090	8414.30.8090
336391B	Automotive air-conditioning compressors (open-type, with or without motor) 3/	(X)	(X)
333415C	Warm air furnaces, including duct furnaces and humidifiers, and electric comfort heating 3/	(X)	(X)
333415E	Unitary air-conditioners, excluding air source heat pumps	8415.81.0110	8415.81.0110
		8415.81.0120	8415.81.0120
		8415.81.0130	8415.81.0130
		8415.82.0105	8415.82.0105
		8415.82.0110	8415.82.0110
		8415.82.0115	8415.82.0115
		8415.82.0120	8415.82.0120
		8415.83.0050	8415.83.0050
		8415.83.0060	8415.83.0060
333415F	Air source heat pumps, excluding room air-conditioners 3/	(X)	(X)
333415G	Ground and ground water source heat pumps (single and split systems) 3/	(X)	(X)

Footnotes:

1/ Source: 2009 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/ Source: Harmonized Tariff Schedule of the United States, Annotated (2009).

3/ Import-export classification not directly comparable.

Symbols:

(D) - Withheld to avoid disclosing data of individual companies.

(X) - Not applicable.

(NA) - Not available.

r/ - Revised by 5 percent or more from previously published data.

(n.e.c.) - Not elsewhere classified.

(n.s.k.) - Not specified by kind.

(nehp) - Net engine horsepower

(btuh) - British thermal units per hour

(pt.) Part.

- Represents zero.

Estimation symbols - Percent of estimation for each item is indicated as follows:

a/ - 10 to 19 percent of this item has been estimated.

b/ - 20 to 29 percent of this item has been estimated.

c/ - 30 to 49 percent of this item has been estimated.

(S) - Withheld because estimates did not meet publication standards

HISTORICAL NOTE

The Census Bureau has collected data on air-conditioning and refrigeration since 1944.

Historical Current Industrial Reports data (called Facts for Industry before 1959) may be obtained from a Federal Depository Library. To locate a Federal Depository Library in your area, please visit <http://www.gpoaccess.gov/libraries.html>.