

U.S. Census Bureau
Refrigeration, Air-Conditioning, and Warm Air Heating Equipment - 2008
MA333M(08)
Issued September 2009

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.

These data are also available online through STAT-USA by subscription. For further information, visit <http://www.stat-usa.gov/> or call 1-800-STAT-USA.

Table 1. Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2004 to 2008
 [Millions of dollars]

Product Code	Product description	Year		Value
3334152 (pt.)	Heat transfer equipment (excluding room and unitary air-conditioners)	2008	a/	5,608
		2007	a/	5,505
		2006		4,937
		2005		4,805
		2004		4,681
3334153 (pt.)	Commercial refrigeration equipment, mechanical drinking water coolers	2008	b/	480
		2007		490
		2006		472
		2005		502
		2004		464
3334155 (pt.)	Refrigeration condensing units, all refrigerants, excluding ammonia (complete)	2008		400
		2007		392
		2006		358
		2005		335
		2004		326
3334156 (pt.)	Room air-conditioners and dehumidifiers (excluding portable dehumidifiers)	2008	b/	375
		2007		486
		2006		473
		2005		521
		2004		526
3363917 (pt.)	Motor vehicle mechanical air-conditioning systems	2008	a/	1,482
		2007	a/	2,069
		2006		2,333
		2005		2,783
		2004		2,670
333415A (pt.)	Compressors and compressor units, all refrigerants (excluding automotives)	2008	a/	2,974
		2007		3,005
		2006		3,298
		2005		2,937
		2004		2,338
336391B (pt.)	Automotive air-conditioning compressors (open-type, with or without motor)	2008	b/	856
		2007	a/	1,134
		2006		1,424
		2005		1,522
		2004		1,607
333415C (pt.)	Warm air furnaces, including duct furnaces and humidifiers, and electric comfort heating	2008		1,874
		2007		2,090
		2006		2,205
		2005		2,268
		2004		2,083
333415E (pt.)	Unitary air-conditioners, excluding air source heat pumps	2008	a/	7,134
		2007		7,603
		2006		7,402

Table 1. Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2004 to 2008
 [Millions of dollars]

Product Code	Product description	Year		Value
		2005		6,979
		2004		6,089
333415F (pt.)	Air source heat pumps, excluding room air-conditioners	2008		2,060
		2007		2,030
		2006		1,987
		2005		1,869
		2004		1,448
333415G (pt.)	Ground and ground water source heat pumps (single and split systems)	2008	c/	257
		2007	c/	266
		2006		198
		2005		171
		2004		136

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2008 and 2007
 [Quantity in number of units. Value in thousands of dollars]

Product Code	Product description	Year	No. of cos.		Quantity		Value
3334152 (pt.)	Heat transfer equipment (excluding room and unitary air-conditioners)	2008	(X)		(X)	a/	5,607,523
		2007			(X)	a/	5,504,571
3334152101	Heat transfer packaged terminal air-conditioners	2008	7	c/	260,397	c/	143,195
		2007		c/	253,849	c/	138,787
3334152103	Heat transfer packaged terminal heat pumps	2008	5		(D)		(D)
		2007			(D)		(D)
3334152105	Heat transfer evaporative condensers, 100 tons and under	2008	8	a/	1,480		20,748
		2007		r/	1,374	r/	16,693
3334152107	Heat transfer evaporative condensers, over 100 tons	2008	7		1,330		60,621
		2007			1,263		55,604
3334152109	Heat transfer room fan-coil air conditioning units, vertical stack	2008	5		(S)		(S)
		2007			(S)		(S)
3334152111	Heat transfer room fan-coil air conditioning units, vertical	2008	6		(S)	c/	96,699
		2007			(S)	c/	90,771
3334152113	Heat transfer room fan-coil air conditioning units, horizontal	2008	5		(S)	c/	37,638
		2007		c/r/	58,494	c/r/	35,030
3334152115	Heat transfer room air-induction units	2008	1		(D)		(D)
		2007			(D)		(D)
3334152117	Heat transfer central station air-handling units (motor-driven fan-type), draw through	2008	13	a/	69,820	a/	682,160
		2007		a/	81,030	a/	703,716
3334152119	Heat transfer central station air-handling units (motor-driven fan-type), blow through	2008	8	c/	9,035		151,417
		2007		c/	6,224		121,167
3334152121	Heat transfer central station air-handling units (motor-driven fan-type), heating and ventilating	2008	6		(S)	a/	85,998
		2007			(S)	a/	82,750
3334152123	Heat transfer coolers (refrigeration), ceiling, wall-mounted, and floor-mounted unit coolers, 4,000 Btuh and below	2008	6		56,757		13,977
		2007			59,681		14,447
3334152126	Heat transfer coolers (refrigeration), ceiling, wall-mounted, and floor-mounted unit coolers, 4,001 to 8,000 Btuh	2008	6		(D)		(D)
		2007			(D)		(D)
3334152129	Heat transfer coolers (refrigeration), ceiling, wall-mounted, and floor-mounted unit coolers, 8,001 to 12,000 Btuh	2008	7		(D)		(D)
		2007			(D)		(D)
3334152131	Heat transfer coolers (refrigeration), ceiling, wall-mounted, and floor-mounted unit coolers, 12,001 to 18,000 Btuh	2008	6		(D)		(D)
		2007			38,448		24,681
3334152133	Heat transfer coolers (refrigeration), ceiling, wall-mounted, and floor-mounted unit coolers, over 18,000 Btuh	2008	12		28,906		75,069
		2007			33,541		82,461
3334152135	Heat transfer coolers (refrigeration), air cooled refrigerant	2008	11		15,628		33,396

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2008 and 2007
 [Quantity in number of units. Value in thousands of dollars]

Product Code	Product description	Year	No. of cos.	Quantity		Value
	condensers (remote-type), under 30 tons	2007		14,788		31,990
3334152137	Heat transfer coolers (refrigeration), air cooled refrigerant condensers (remote-type), 30 to 50 tons	2008	7	1,974		14,006
		2007		2,576		17,578
3334152139	Heat transfer coolers (refrigeration), air cooled refrigerant condensers (remote-type), over 50 tons	2008	7	3,374		33,311
		2007		3,770		35,762
3334152141	Miscellaneous heat transfer equipment, shell-and-tube, shell-and-coil, shell-and-u-tube, tube-in-tube, condensers	2008	4	(X)		37,283
		2007		(X)	r/	39,213
3334152143	Miscellaneous heat transfer equipment, shell-and-tube, shell-and-coil, shell-and-u-tube, tube-in-tube, liquid coolers	2008	9	(X)		37,959
		2007		(X)	r/	35,444
3334152145	Miscellaneous heat transfer equipment, liquid-suction heat exchangers and refrigerant liquid receivers	2008	4	(X)		9,137
		2007		(X)	r/	10,905
3334152147	Miscellaneous heat transfer equipment, central system finned coils (air-conditioning and refrigeration type), standard steam and steam distributing tube	2008	9	(X)		21,005
		2007		(X)		21,429
3334152149	Miscellaneous heat transfer equipment, central system finned coils (air-conditioning and refrigeration type), standard water cooling and/or heating and cleanable tube	2008	8	(X)	c/	73,294
		2007		(X)	a/	83,086
3334152151	Miscellaneous heat transfer equipment, central system finned coils (air-conditioning and refrigeration type), volatile refrigerant cooling	2008	8	(X)	a/	5,125
		2007		(X)		6,425
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	2008	15	(X)	a/	404,053
		2007		(X)	a/	354,052
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)	2008	7	(X)		90,455
		2007		(X)		71,583
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)	2008	7	(X)		61,181
		2007		(X)		71,793
3334152159	Miscellaneous heat transfer equipment, factory-assembled, refrigeration type, finned gravity coils (including wetted-surface and dehumidifiers)	2008	2	(X)		(D)
		2007		(X)		(D)
3334152161	Heat transfer centrifugal liquid chilling packages, hermetic and open types, 200 hp and under	2008	7	1,023	b/	19,383
		2007		1,316	a/	31,264
3334152164	Heat transfer centrifugal liquid chilling packages, hermetic and open types, 201 to 400 hp	2008	6	a/	1,590	a/
		2007			1,658	105,073
						123,785

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2008 and 2007
 [Quantity in number of units. Value in thousands of dollars]

Product Code	Product description	Year	No. of cos.	Quantity	Value
3334152167	Heat transfer centrifugal liquid chilling packages, hermetic and open types, over 400 hp	2008	6	4,043	635,824
		2007	c/	4,182 c/	617,040
3334152169	Heat transfer ice-making machines, self-contained ice-cube makers, automatic, under 200 lb	2008	4	(S)	(S)
		2007		95,924	81,646
3334152171	Heat transfer ice-making machines, self-contained ice-cube makers, automatic, 201 lb and over	2008	5	(D)	(D)
		2007		(D)	(D)
3334152173	Heat transfer ice-making machines, self-contained flake or chip machines, 300 lbs and under	2008	3	908	2,238
		2007		1,118	2,696
3334152175	Heat transfer ice-making machines, self-contained flake or chip machines, over 300 lb	2008	6	(S)	(S)
		2007		(S)	(S)
3334152177	Heat transfer ice-making machines, not self-contained	2008	7	115,490	262,564
		2007		130,813	278,199
3334152179	Heat transfer ice-making machines, combination ice makers and ice/drink dispensers	2008	6	80,319	192,281
		2007		76,334	181,724
3334152181	Heat transfer absorption refrigeration and dehydration systems	2008	4	(D)	(D)
		2007		(D)	(D)
3334152183	Heat transfer mechanical refrigeration systems used on all types of vehicles	2008	3	(D)	(D)
		2007		(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	2008	20	a/	10,190 a/
		2007		10,058	50,013
3334152187	Heat transfer reciprocating air and reciprocating water cooled, air cooled screw, air cooled scroll, and water cooled scroll machines, 21 to 49 hp	2008	13	(S)	b/
		2007		7,261	50,073
3334152189	Heat transfer reciprocating air and reciprocating water cooled, air cooled screw, air cooled scroll, and water cooled scroll machines, 50 to 75 hp	2008	14	c/	4,879 a/
		2007		6,093	114,474
3334152191	Heat transfer reciprocating air and reciprocating water cooled, air cooled screw, air cooled scroll, and water cooled scroll machines, over 75 hp	2008	12	b/	6,997 a/
		2007		6,650	360,250
3334152193	Heat transfer factory-fabricated water cooling towers	2008	8	(S)	c/
		2007		(S)	c/
3334153 (pt.)	Commercial refrigeration equipment, mechanical drinking water coolers	2008	8	(S)	b/
		2007		b/	727,598
3334155 (pt.)	Total refrigeration condensing units, all refrigerants, excluding ammonia (complete)	2008	(X)	339,594	399,964
		2007		397,906	391,955

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2008 and 2007
 [Quantity in number of units. Value in thousands of dollars]

Product Code	Product description	Year	No. of cos.	Quantity		Value
3334155123	Condensing units, refrigeration (complete), air-cooled hermetic-type, 1 hp and under	2008	12	234,540		177,818
		2007	r/	288,111		179,839
3334155125	Condensing units, refrigeration (complete), air-cooled hermetic-type, 1.5 hp	2008	8	26,161	a/	24,722
		2007		27,515	a/	25,097
3334155128	Condensing units, refrigeration (complete), air-cooled hermetic-type, 2 hp and 2.5 hp	2008	9	23,203		26,748
		2007		25,001		26,956
3334155130	Condensing units, refrigeration (complete), air-cooled hermetic-type, 3 hp	2008	8	19,707		24,561
		2007		21,256		27,157
3334155132	Condensing units, refrigeration (complete), air-cooled hermetic-type, over 3 hp but under 15 hp	2008	12	26,254		73,211
		2007		26,472		68,962
3334155144	Condensing units, refrigeration (complete), water-cooled hermetic-type, under 15 hp	2008	3	(D)		(D)
		2007		(D)		(D)
3334155161	Condensing units, refrigeration (complete), water or air-cooled hermetic-type, 15 hp	2008	6	1,183		7,690
		2007		1,354		8,657
3334155163	Condensing units, refrigeration (complete), water or air-cooled hermetic-type, 20 hp	2008	7	910		8,206
		2007		857		7,651
3334155165	Condensing units, refrigeration (complete), water or air-cooled hermetic-type, 25 hp	2008	6	565		6,123
		2007		517		5,652
3334155167	Condensing units, refrigeration (complete), water or air-cooled hermetic-type, 30 hp	2008	5	942		12,332
		2007		796		9,623
3334155170	Condensing units, refrigeration (complete), water or air-cooled hermetic-type, 40 hp	2008	6	1,856		29,623
		2007		1,591		23,437
3334155180	Condensing units, refrigeration (complete), water or air-cooled open-type (all sizes)	2008	4	(D)		(D)
		2007		(D)		(D)
3334156 (pt.)	Total room air-conditioners and dehumidifiers (excluding portable dehumidifiers)	2008	(X)	(X)	b/	374,698
		2007		(X)		485,527
3334156111	Electrically operated dehumidifiers, mechanically refrigerated, self-contained	2008	5	(D)		(D)
		2007		(D)		(D)
3334156145	Room air-conditioners, 12,999 Btuh and under	2008	8	(D)		(D)
		2007		(D)		(D)
3334156160	Room air-conditioners, 13,000 to 19,999 Btuh	2008	8	(D)		(D)
		2007		(D)		(D)
3334156170	Room air-conditioners, 20,000 Btuh and over	2008	8	(D)		(D)
		2007		(D)		(D)
3334156911	Total number of room air conditioners designed to operate on	2008	(X)	c/		(X)

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2008 and 2007
 [Quantity in number of units. Value in thousands of dollars]

Product Code	Product description	Year	No. of cos.		Quantity		Value
	115 volt circuits	2007			98,701		(X)
3363917 (pt.)	Total motor vehicle mechanical air-conditioning systems	2008	(X)		(X)	a/	1,481,753
		2007			(X)	a/	2,069,258
3363917110	Air-conditioning units and systems for passenger automobiles	2008	18	a/	7,042,085		972,548
		2007		r/	9,078,610	r/	1,295,248
3363917120	Air-conditioning units and systems for buses	2008	7	c/	448,899		(S)
		2007		c/	496,974		(S)
3363917130	Other motor vehicle mechanical air-conditioning systems	2008	15	b/	2,342,577	b/	373,865
		2007		r/	3,679,640	a/r/	623,514
333415A (pt.)	Total compressors and compressor units, all refrigerants (excluding automotives)	2008	(X)		(X)	a/	2,974,488
		2007			(X)		3,004,786
333415A125	Compressors and compressor units, all refrigerants (excluding ammonia), hermetic-type motor compressors, under 10 hp	2008	11	b/	12,655,481	a/	2,608,549
		2007			13,108,211		2,633,866
333415A130	Compressors and compressor units, all refrigerants (excluding ammonia), hermetic-type motor compressors, 15 hp	2008	9		17,878		34,472
		2007			19,981		36,043
333415A132	Compressors and compressor units, all refrigerants (excluding ammonia), hermetic-type motor compressors, 20 hp	2008	9		6,134		17,262
		2007		r/	7,090	r/	18,853
333415A134	Compressors and compressor units, all refrigerants (excluding ammonia), hermetic-type motor compressors, 25 hp	2008	9		4,912		15,419
		2007			5,580		16,311
333415A136	Compressors and compressor units, all refrigerants (excluding ammonia), hermetic-type motor compressors, 30 hp	2008	8		3,194		19,860
		2007		r/	3,482		20,922
333415A139	Compressors and compressor units, all refrigerants (excluding ammonia), hermetic-type motor compressors, 40 hp and 50 hp	2008	8		6,515		40,994
		2007			10,299		53,803
333415A144	Compressors and compressor units, all refrigerants (excluding ammonia), hermetic-type motor compressors, 60 hp and over	2008	5		(D)		(D)
		2007			(D)		(D)
333415A152	Compressors and compressor units, all refrigerants (excluding ammonia), open-type compressors (with or without motor, all sizes)	2008	9		(D)		(D)
		2007			(D)		(D)
333415A154	Compressors and compressor units, all refrigerants (excluding ammonia), screw type	2008	3		(D)		(D)
		2007			(D)		(D)
333415A158	Compressors and compressor units, ammonia refrigerants (all types)	2008	6		2,230		127,132
		2007			2,101		109,467
336391B (pt.)	Automotive air-conditioning compressors (open-type, with or without motor)	2008	10	a/	8,001,524	b/	856,263
		2007		a/	10,620,027	a/	1,134,132
333415C (pt.)	Total warm air furnaces, including duct furnaces and humidifiers,	2008	(X)		(X)		1,874,476

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2008 and 2007
 [Quantity in number of units. Value in thousands of dollars]

Product Code	Product description	Year	No. of cos.		Quantity		Value
	and electric comfort heating	2007			(X)		2,089,990
333415C101	Warm air furnaces and humidifiers, oil, forced air, 150,000 Btuh bonnet output and under	2008	13	c/	74,986	b/	59,107
		2007			111,932		78,934
333415C105	Warm air furnaces and humidifiers, oil, forced air, 150,001 Btuh bonnet output and over	2008	8		(S)	c/	3,053
		2007		b/	3,321	b/	4,850
333415C107	Warm air furnaces and humidifiers, gas, forced air, 150,000 Btuh bonnet output and under	2008	16		3,090,013		1,723,100
		2007			3,664,663		1,902,278
333415C109	Warm air furnaces and humidifiers, gas, forced air, 150,001 - 400,000 Btuh bonnet output	2008	8		(D)		(D)
		2007			(D)		(D)
333415C111	Warm air furnaces and humidifiers, gas, forced air, over 400,000 Btuh bonnet output	2008	6		1,519		21,654
		2007			1,775	a/r/	25,142
333415C179	All other electric warm air furnaces	2008	4		(D)		(D)
		2007			(D)		(D)
333415C181	Humidifiers (attachments to warm air furnaces) all types, including central systems and self-contained (excluding portable humidifiers)	2008	10		374,178	c/	55,124
		2007			423,258	c/	66,651
333415E (pt.)	Total unitary air-conditioners, excluding air source heat pumps	2008	(X)		(X)	a/	7,133,832
		2007			(X)		7,603,096
333415E105	Recreational vehicle air-conditioners	2008	4		(D)		(D)
		2007			(D)		(D)
333415E107	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, under 27,000 Btuh	2008	13	b/	8,259	b/	9,793
		2007		r/	10,398	r/	12,095
333415E109	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 27,000 to 32,999 Btuh	2008	12		26,991		30,904
		2007			26,485		29,477
333415E111	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 33,000 to 53,999 Btuh	2008	14		46,983	c/	93,118
		2007			65,466	c/	111,022
333415E113	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 54,000 to 64,999 Btuh	2008	15		37,222	a/	67,107
		2007			43,536	a/	72,681
333415E115	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 65,000 to 96,999 Btuh	2008	10	a/	25,535		58,271
		2007			28,084		61,295
333415E117	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type),	2008	11		16,826		62,995
		2007			18,440		64,743

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2008 and 2007
 [Quantity in number of units. Value in thousands of dollars]

Product Code	Product description	Year	No. of cos.	Quantity		Value
	horizontal, 97,000 to 134,999 Btuh					
333415E119	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 135,000 to 184,999 Btuh	2008 2007	11	12,240 13,077		63,115 64,108
333415E121	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 185,000 to 249,999 Btuh	2008 2007	13	6,454 6,749		53,164 54,799
333415E123	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 250,000 to 319,999 Btuh	2008 2007	11	5,775 6,606		42,604 49,365
333415E135	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 320,000 to 379,999 Btuh	2008 2007	11	1,238 1,265	a/ a/	27,016 27,613
333415E141	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), horizontal, 380,000 Btuh and over	2008 2007	9	4,738 4,900	a/ a/	224,745 225,945
333415E143	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), other than horizontal, 96,999 Btuh and under	2008 2007	5	(D) (D)		(D) (D)
333415E152	Single package air-conditioners, with or without evaporator fans (including refrigeration chassis and remote-condenser type), other than horizontal, 97,000 Btuh and over	2008 2007	5	(D) 2,114	a/ b/	(D) 41,854
333415E155	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), under 33,000 Btuh	2008 2007	13	90,421 104,560	c/ a/	b/ 124,038 139,042
333415E157	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 33,000 to 38,999 Btuh	2008 2007	12	77,264 89,375	a/	134,075 146,042
333415E159	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 39,000 to 43,999 Btuh	2008 2007	11	25,862 29,658	a/ a/	44,972 49,867
333415E161	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 44,000 to 53,999 Btuh	2008 2007	11	58,612 67,927		122,850 130,869
333415E163	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 54,000 to 64,999 Btuh	2008 2007	16	98,219 114,270	a/ b/	b/ 287,255 313,459
333415E165	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 65,000 to 134,999 Btuh	2008 2007	11	108,412 121,332		454,255 482,062
333415E167	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 135,000 to 184,999 Btuh	2008 2007	9	32,200 36,663		217,005 236,260
333415E169	Year-round air-conditioners, single package and remote-condenser	2008	11	13,712		152,876

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2008 and 2007
 [Quantity in number of units. Value in thousands of dollars]

Product Code	Product description	Year	No. of cos.	Quantity	Value
	type (excluding heat pumps), 185,000 to 249,999 Btuh	2007		15,094	154,589
333415E171	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 250,000 to 319,999 Btuh	2008	9	6,245	80,735
		2007		7,533	89,096
333415E173	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 320,000 to 379,999 Btuh	2008	9	1,979	44,250
		2007		2,097	46,374
333415E175	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 380,000 to 539,999 Btuh	2008	8	1,462	43,543
		2007		1,829	51,195
333415E177	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 540,000 to 639,999 Btuh	2008	8	911	39,435
		2007		896	36,319
333415E179	Year-round air-conditioners, single package and remote-condenser type (excluding heat pumps), 640,000 Btuh and over	2008	8	1,534	117,623
		2007		1,206	99,948
333415E181	Water source heat pumps (excluding room air- conditioners)	2008	9	(S)	(S)
		2007		(S)	(S)
333415E182	Split system air-conditioning condensing units, under 22,000 Btuh	2008	13	267,799	133,794
		2007		241,113	126,034
333415E183	Split system air-conditioning condensing units, 22,000 to 26,999 Btuh	2008	12	759,801	420,514
		2007		759,196	424,305
333415E185	Split system air-conditioning condensing units, 27,000 to 32,999 Btuh	2008	12	635,011	387,607
		2007		675,499	418,869
333415E187	Split system air-conditioning condensing units, 33,000 to 38,999 Btuh	2008	13	a/ 803,113	538,318
		2007		895,670	631,209
333415E189	Split system air-conditioning condensing units, 39,000 to 43,999 Btuh	2008	10	308,791	237,306
		2007		368,107	281,837
333415E191	Split system air-conditioning condensing units, 44,000 to 53,999 Btuh	2008	12	456,782	415,759
		2007		518,389	469,202
333415E193	Split system air-conditioning condensing units, 54,000 to 64,999 Btuh	2008	10	389,517	386,293
		2007		432,197	428,806
333415E195	Split system air-conditioning condensing units, 65,000 to 96,999 Btuh.	2008	7	30,138	52,936
		2007		29,537	43,890
333415E197	Split system air-conditioning condensing units, 97,000 to 134,999 Btuh	2008	7	17,082	36,094
		2007		17,926	36,735
333415E199	Split system air-conditioning condensing units, 135,000 to 184,999 Btuh	2008	7	11,440	40,252
		2007		10,557	35,075
333415E19A	Split system air-conditioning condensing units, 185,000 to 249,999 Btuh	2008	7	5,848	28,015
		2007		5,374	24,153

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2008 and 2007
 [Quantity in number of units. Value in thousands of dollars]

Product Code	Product description	Year	No. of cos.		Quantity		Value
333415E19C	Split system air-conditioning condensing units, 250,000 to 319,999 Btuh	2008	5		1,645		11,368
		2007			1,644		11,742
333415E19E	Split system air-conditioning condensing units, 320,000 to 379,999 Btuh	2008	5	a/	1,783	c/	18,957
		2007		a/	1,654	c/	18,149
333415E19G	Split system air-conditioning condensing units, 380,000 to 539,999 Btuh	2008	5	a/	1,043	a/	11,483
		2007		a/	1,230	a/	13,229
333415E19J	Split system air-conditioning condensing units, 540,000 to 639,999 Btuh	2008	4	b/	704	b/	9,382
		2007		a/	625	a/	8,196
333415E19L	Split system air-conditioning condensing units, 640,000 Btuh and over	2008	3		991		20,056
		2007			906		17,272
333415E19M	Split system air-conditioning coils, with blower	2008	9	a/	2,074,533		891,573
		2007		a/	2,294,255		958,114
333415E19P	Split system air-conditioning coils, without blower	2008	12	b/	1,617,237	a/	298,569
		2007		b/	1,867,376		333,022
333415F (pt.)	Total air source heat pumps, excluding room air-conditioners	2008	(X)		1,842,763		2,059,933
		2007			1,863,392		2,030,330
333415F123	Air source heat pumps (excluding room air- conditioners), single package, under 27,000 Btuh	2008	11	a/	31,192	b/	42,823
		2007			31,724		41,292
333415F134	Air source heat pumps (excluding room air- conditioners), single package, 27,000 to 41,999 Btuh	2008	12	a/	98,505		142,338
		2007			105,139		142,871
333415F145	Air source heat pumps (excluding room air- conditioners), single package, 42,000 to 64,999 Btuh	2008	14	a/	98,185		164,305
		2007		a/	107,393		167,366
333415F156	Air source heat pumps (excluding room air- conditioners), single package, 65,000 Btuh and over	2008	11		18,728		76,707
		2007			21,245		83,319
333415F167	Air source heat pumps (excluding room air- conditioners), split system, under 27,000 Btuh	2008	10		487,017		378,447
		2007			479,091		365,203
333415F178	Air source heat pumps (excluding room air- conditioners), split system, 27,000 to 41,999 Btuh	2008	10		694,397		699,897
		2007			693,801		680,161
333415F189	Air source heat pumps (excluding room air- conditioners), split system, 42,000 to 64,999 Btuh	2008	9		395,819		509,137
		2007			405,517		506,463
333415F195	Air source heat pumps (excluding room air- conditioners), split system, 65,000 Btuh and over	2008	7	c/	18,920	b/	46,260
		2007		c/	18,162	a/	43,655
333415G (pt.)	Ground and ground water source heat pumps (single and split systems)	2008	8	a/	86,207	c/	257,042
		2007			102,851	c/	266,213

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2008 and 2007
 [Quantity in number of units. Value in thousands of dollars]

Product Code	Product description	Year	No. of cos.	Quantity	Value	
333415H (pt.)	Total all refrigerants (excluding ammonia) for household refrigerators	2008	(X)	(D)	(X)	
		2007	a/	10,138,925	(X)	
333415H905	Refrigerants (excluding ammonia) for household refrigerators, under 2 hp	2008	(X)	(D)	(X)	
		2007		(D)	(X)	
333415H908	Refrigerants (excluding ammonia) for household refrigerators, 2 hp	2008	(X)	(D)	(X)	
		2007		(D)	(X)	
333415H909	Refrigerants (excluding ammonia) for household refrigerators, 3 hp	2008	(X)	(D)	(X)	
		2007		(D)	(X)	
333415H910	Refrigerants (excluding ammonia) for household refrigerators, 4 hp	2008	(X)	(D)	(X)	
		2007		(D)	(X)	
333415H911	Refrigerants (excluding ammonia) for household refrigerators, 5 hp	2008	(X)	(D)	(X)	
		2007		(S)	(X)	
333415H912	Refrigerants (excluding ammonia) for household refrigerators, 7 1/2 hp	2008	(X)	36,058	(X)	
		2007		26,710	(X)	
333415H913	Refrigerants (excluding ammonia) for household refrigerators, 10 hp	2008	(X)	(D)	(X)	
		2007		(D)	(X)	
333415H914	Refrigerants (excluding ammonia) for household refrigerators, 15 hp	2008	(X)	(D)	(X)	
		2007	a/	32,294	(X)	
333415H915	Refrigerants (excluding ammonia) for household refrigerators, 20 hp	2008	(X)	8,317	(X)	
		2007		(D)	(X)	
333415H916	Refrigerants (excluding ammonia) for household refrigerators, 25 hp	2008	(X)	6,143	(X)	
		2007	c/	7,899	(X)	
333415H917	Refrigerants (excluding ammonia) for household refrigerators, 30 hp	2008	(X)	8,387	(X)	
		2007		8,591	(X)	
333415H918	Refrigerants (excluding ammonia) for household refrigerators, 40 hp	2008	(X)	8,602	(X)	
		2007		8,882	(X)	
333415H919	Refrigerants (excluding ammonia) for household refrigerators, 50 hp	2008	(X)	(D)	(X)	
		2007		(D)	(X)	
333415H920	Refrigerants (excluding ammonia) for household refrigerators, 60 hp	2008	(X)	(D)	(X)	
		2007		(D)	(X)	
333415H921	Refrigerants (excluding ammonia) for household refrigerators, 75 hp	2008	(X)	4,670	(X)	
		2007		5,380	(X)	
333415H922	Refrigerants (excluding ammonia) for household refrigerators, 100 hp and over	2008	(X)	20,808	(X)	
		2007		17,458	(X)	
333415H (pt.)	Automotive air-conditioning, including passenger automobiles,	2008	(X)	b/	3,044,165	(X)

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating Equipment: 2008 and 2007
 [Quantity in number of units. Value in thousands of dollars]

Product Code	Product description	Year	No. of cos.	Quantity	Value
	trucks, buses, agriculture, and construction equipment	2007	r/	2,997,215	(X)
333415H (pt.)	Ammonia refrigerants	2008	(X)	(D)	(X)
		2007		(D)	(X)

Table 3. Shipments, Exports and Imports of Air-Conditioning and Refrigeration Equipment: 2008 and 2007

[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 (pt.)	Heat transfer equipment (excluding room and unitary air-conditioners)	2008	a/	5,607,523	518,332	342,224
		2007	a/	5,504,571	446,541	304,847
3334153 (pt.)	Commercial refrigeration equipment, mechanical drinking water coolers	2008	b/	480,495	10,693	116,455
		2007		490,170	10,164	114,877
3334155 (pt.)	Refrigeration condensing units, all refrigerants, excluding ammonia (complete)	2008		399,964	55,393	62,362
		2007		391,955	45,343	58,830
3334156 (pt.)	Room air-conditioners and dehumidifiers (excluding portable dehumidifiers)	2008	b/	374,698	75,894	1,156,903
		2007		485,527	83,964	1,365,773
3363917 (pt.)	Motor vehicle mechanical air-conditioning systems	2008	a/	1,481,753	(X)	(X)
		2007	a/	2,069,258	(X)	(X)
333415A (pt.)	Compressors and compressor units, all refrigerants (excluding automotives)	2008	a/	2,974,488	1,094,500	1,468,694
		2007		3,004,786	1,053,661	1,677,491
336391B (pt.)	Automotive air-conditioning compressors (open-type, with or without motor)	2008	b/	856,263	(X)	(X)
		2007	a/	1,134,132	(X)	(X)
333415C (pt.)	Warm air furnaces, including duct furnaces and humidifiers, and electric comfort heating	2008		1,874,476	(X)	(X)
		2007		2,089,990	(X)	(X)

Table 3. Shipments, Exports and Imports of Air-Conditioning and Refrigeration Equipment: 2008 and 2007

[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/
333415E (pt.)	Unitary air-conditioners, excluding air source heat pumps	2008	a/	7,133,832	518,975	796,746
		2007		7,603,096	386,323	756,874
333415F (pt.)	Air source heat pumps, excluding room air-conditioners	2008		2,059,933	(X)	(X)
		2007		2,030,330	(X)	(X)
333415G (pt.)	Ground and ground water source heat pumps (single and split systems)	2008	c/	257,042	(X)	(X)
		2007	c/	266,213	(X)	(X)

Footnotes:

1/ For comparison of North American Industry Classification System (NAICS)- based 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: 2008

Product code	Product description	Export code 1/	Import code 2/
3334152 (pt.)	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 (pt.)	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 (pt.)	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 (pt.)	Motor vehicle mechanical air-conditioning systems 3/	(X)	(X)
333415A (pt.)	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 8414.30.8090	8414.30.8080 8414.30.8090
336391B (pt.)	Automotive air-conditioning compressors (open-type, with or without motor) 3/	(X)	(X)
333415C (pt.)	Warm air furnaces, including duct furnaces and humidifiers, and electric comfort heating 3/	(X)	(X)

Table 4. Comparison of North American Industry Classification System (NAICS-Based) Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2008

Product code	Product description	Export code 1/	Import code 2/
333415E (pt.)	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
		8415.90.8025	
333415F (pt.)	Air source heat pumps, excluding room air-conditioners 3/	(X)	(X)
333415G (pt.)	Ground and ground water source heat pumps (single and split systems) 3/	(X)	(X)

Footnotes:

1/ Source: 2008 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 (2008).

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>.