

May 7, 2004

Mr. Daniel L. Ellis
President
ClimateMaster, Inc.
P.O. Box 2540
Oklahoma City, OK 73101-2540

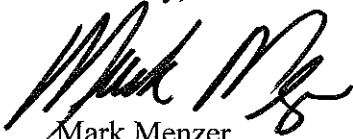
To Whom It May Concern:

The Air-Conditioning and Refrigeration Institute (ARI) is the national trade association representing manufacturers of more than 90 percent of U.S. produced central air-conditioning and commercial refrigeration equipment.

Our records indicate that as of May 7, 2004, ClimateMaster, Inc., with offices at Oklahoma City, Oklahoma, has been a member of ARI since 1965 and is in good standing as of the date noted above. On May 1, 2004, ARI's Board of Directors elected the president of ClimateMaster to serve as a director-at-large on the ARI Board. In addition, ClimateMaster is actively involved in ARI's International Committee and Water Source Heat Pump Subsection. Furthermore, Mr. Ellis was instrumental in the development of ISO Standard 13256-1 and is currently the chairman of ISO/TC 86/SC 6 and the convener of ISO/TC 86/SC 6/WG 3.

Since 1985, ClimateMaster has participated in ARI's Certification program for Water-to-Air or Brine-to-Air Heat Pump equipment. The scope of this program covers all production models of water-to-air heat pumps consisting of ground-water heat pump equipment and water-loop heat pump equipment, and brine-to-air heat pumps consisting of ground-loop heat pump equipment, rated below 39,500 W (135,000 Btuh) at ISO Standard Rating Conditions (Cooling), and as covered by ANSI/ARI/ASHRAE/ISO Standard 13256-1. For the three year period of 2001- 2003, they were commended for having a 100% success rate. Their performance has set a standard that all certification participants strive to achieve.

Sincerely,



Mark Menzer
Vice President of Engineering and Research



ARI STANDARD RATINGS FOR WATER-TO-AIR AND BRINE-TO-AIR HEAT PUMPS

Data Updated: May 05, 2004

Foot Note(s)	Model Designation	WLHP			GWHP			GLHP					
		Cooling Capacity	EBR	Heating Capacity	COP	Cooling Capacity	EBR	Heating Capacity	COP	Cooling Capacity	EBR	Heating Capacity	COP
Trade Name(s): ClimateMaster													
Type: WBAHP													
	ARI Reference Number: 345369	68,000(68,000);(19,924/19,924)	13.2/13.2;(3.9/3.9)	86,000(86,000);(23,198/23,198)	4.6/4.6	76,000(76,000);(22,268/22,268)	18.7/18.7;(5.5/5.5)	69,000(69,000);(20,217/20,217)	4.1/4.1	70,500(70,500);(2,065/2,065)	14.6/14.6;(4.3/4.3)	52,500(52,500);(1,383/1,383)	3.5/3.5
	ARI Reference Number: 345367	68,000;(19,924)	13.2;(3.9)	86,000;(23,198)	4.6	76,000;(22,268)	18.7;(5.5)	69,000;(20,217)	4.1	70,500;(2,065)	14.6;(4.3)	52,500;(1,383)	3.5
	ARI Reference Number: 345372	71,000;(20,803)	13.5;(4.0)	90,000;(26,370)	4.5	75,500;(22,121)	17.7;(5.2)	72,000;(21,096)	3.9	72,000;(21,096)	14.8;(4.3)	56,300;(16,496)	3.2
	ARI Reference Number: 345375	71,000(71,000);(20,803/20,803)	13.5/13.5;(4.0/4.0)	90,000(90,000);(26,370/26,370)	4.5/4.5	75,500(75,500);(22,121/22,121)	17.7/17.7;(5.2/5.2)	72,000(72,000);(21,096/21,096)	3.9/3.9	72,000(72,000);(2,096/2,096)	14.8/14.8;(4.3/4.3)	56,300(56,300);(1,496/1,496)	3.2/3.2
	ARI Reference Number: 250349	94,600;(27,718)	12.8;(3.8)	109,000;(31,937)	4.4	102,000;(29,886)	17.4;(5.1)	91,000;(26,663)	4.0	96,700;(28,333)	14.2;(4.2)	72,600;(21,272)	3.4
	ARI Reference Number: 250400	94,600(94,600);(27,718/27,718)	12.8/12.8;(3.8/3.8)	109,000(109,000);(31,937/31,937)	4.4/4.4	102,000(102,000);(29,886/29,886)	17.4/17.4;(5.1/5.1)	91,000(91,000);(26,663/26,663)	4.0/4.0	96,700(96,700);(2,333/2,333)	14.2/14.2;(4.2/4.2)	72,600(72,600);(2,272/2,272)	3.4/3.4
	ARI Reference Number: 345370	97,000;(28,421)	12.5;(3.7)	111,000;(32,523)	4.5	108,000;(31,644)	17.0;(5.0)	90,700;(26,575)	4.0	103,000;(30,179)	14.3;(4.2)	73,300;(21,477)	3.3
	ARI Reference Number: 345373	97,000(97,000);(28,421/28,421)	12.5/12.5;(3.7/3.7)	111,000(111,000);(32,523/32,523)	4.5/4.5	108,000(108,000);(31,644/31,644)	17.0/17.0;(5.0/5.0)	90,700(90,700);(26,575/26,575)	4.0/4.0	103,000(103,000);(1,790/1,790)	14.3/14.3;(4.2/4.2)	73,300(73,300);(2,477/2,477)	3.3/3.3
	ARI Reference Number: 345373	97,000(97,000);(28,421/28,421)	12.5/12.5;(3.7/3.7)	111,000(111,000);(32,523/32,523)	4.5/4.5	108,000(108,000);(31,644/31,644)	17.0/17.0;(5.0/5.0)	90,700(90,700);(26,575/26,575)	4.0/4.0	103,000(103,000);(3,179/3,179)	14.3/14.3;(4.2/4.2)	73,300(73,300);(2,477/2,477)	3.3/3.3
	ARI Reference Number: 345374	108,000;(31,644)	12.2;(3.6)	124,000;(36,332)	4.2	116,000;(33,988)	16.2;(4.7)	99,500;(29,154)	3.8	111,000;(32,523)	13.4;(3.9)	79,000;(23,147)	3.3
	ARI Reference Number: 345371	108,000(108,000);(31,644/31,644)	12.2/12.2;(3.6/3.6)	124,000(124,000);(36,332/36,332)	4.2/4.2	116,000(116,000);(33,988/33,988)	16.2/16.2;(4.7/4.7)	99,500(99,500);(29,154/29,154)	3.8/3.8	111,000(111,000);(3,523/3,523)	13.4/13.4;(3.9/3.9)	79,000(79,000);(2,147/2,147)	3.3/3.3
	ARI Reference Number: 250255	126,000(120,000);(5,160/35,160)	12.7/12.7;(3.7/3.7)	138,000(138,000);(4,434/4,434)	4.2/4.2	128,000(128,000);(3,504/37,504)	17.2/17.2;(5.0/5.0)	114,000(114,000);(33,402/33,402)	3.9/3.9	122,000(122,000);(5,746/5,746)	14.1/14.1;(4.1/4.1)	90,500(90,500);(2,516/2,516)	3.2/3.2
	ARI Reference Number: 250378	126,000;(35,160)	12.7;(3.7)	138,000;(4,434)	4.2	128,000;(37,504)	17.2;(5.0)	114,000;(33,402)	3.9	122,000;(35,746)	14.1;(4.1)	90,500;(26,516)	3.2
Trade Name(s): ClimateMaster Console Series													
Type: WBAHP-O													
	ARI Reference Number: 463742	7,800(7,800);(2,285/2,285)	12.1/12.1;(3.5/3.5)	10,400(10,400);(3,047/3,047)	4.9/4.9	8,900(8,900);(2,608/2,608)	19.5/19.5;(5.7/5.7)	8,400(8,400);(2,461/2,461)	4.3/4.3	8,000(8,000);(2,344/2,344)	14.0/14.0;(4.1/4.1)	6,500(6,500);(1,905/1,905)	3.6/3.6
	ARI Reference Number: 463741	7,800;(2,285)	12.1;(3.5)	10,400;(3,047)	4.9	8,900;(2,608)	19.5;(5.7)	8,400;(2,461)	4.3	8,000;(2,344)	14.0;(4.1)	6,500;(1,905)	3.6
	ARI Reference Number: 463740	9,300;(2,725)	12.0;(3.5)	12,000;(3,516)	4.4	10,300;(3,018)	18.1;(5.3)	9,700;(2,842)	3.8	10,000;(2,930)	14.0;(4.1)	7,800;(2,285)	3.4

(P) Indicates Part-Load ratings.
 When two values are shown for a dual voltage machine, 208 is the first value
 * Revised voluntarily
 WAS indicates a rating that has been involuntarily changed.



ARI STANDARD RATINGS FOR WATER-TO-AIR AND BRINE-TO-AIR HEAT PUMPS

Data Updated: May 05, 2004

Foot Note(s)	Model Designation	WLHP			GWHP			GLHP					
		Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP
Trade Name(s): ClimateMaster Console Series													
Type: WBAHP-O													
	CCE09G	9,300/9,300;(2,725/2,725)	12.0/12.0;(3.5/3.5)	12,000/12,000;(3,516/3,516)	4.4/4.4	10,300/10,300;(3,018/3,018)	18.1/18.1;(5.3/5.3)	9,700/9,700;(2,842/2,842)	3.8/3.8	10,000/10,000;(2,930/2,930)	14.0/14.0;(4.1/4.1)	7,800/7,800;(2,285/2,285)	3.4/3.4
	CCE12G	12,300/12,300;(3,604/3,604)	11.6/11.6;(3.4/3.4)	15,000/15,000;(4,395/4,395)	4.4/4.4	13,700/13,700;(4,014/4,014)	17.8/17.8;(5.2/5.2)	12,400/12,400;(3,633/3,633)	3.8/3.8	12,800/12,800;(3,750/3,750)	13.4/13.4;(3.9/3.9)	9,800/9,800;(2,871/2,871)	3.3/3.3
	CCE12E	12,500;(3,604)	11.6;(3.4)	15,000;(4,395)	4.4	13,700;(4,014)	17.8;(5.2)	12,400;(3,633)	3.8	12,800;(3,750)	13.4;(3.9)	9,800;(2,871)	3.3
	CCE15G	13,800/13,800;(4,043/4,043)	11.8/11.8;(3.5/3.5)	17,300/17,300;(5,069/5,069)	4.4/4.4	15,200/15,200;(4,454/4,454)	17.3/17.3;(5.1/5.1)	14,000/14,000;(4,102/4,102)	3.8/3.8	14,100/14,100;(4,131/4,131)	13.5/13.5;(4.0/4.0)	11,000/11,000;(3,223/3,223)	3.3/3.3
	CCE15E	13,800;(4,043)	11.8;(3.5)	17,300;(5,069)	4.4	15,200;(4,454)	17.3;(5.1)	14,000;(4,102)	3.8	14,100;(4,131)	13.5;(4.0)	11,000;(3,223)	3.3
	CCE18G	16,000/16,000;(4,688/4,688)	12.0/12.0;(3.5/3.5)	19,300/19,300;(5,655/5,655)	4.2/4.2	17,800/17,800;(5,215/5,215)	17.3/17.3;(5.1/5.1)	16,000/16,000;(4,688/4,688)	3.7/3.7	16,400/16,400;(4,805/4,805)	13.4/13.4;(3.9/3.9)	12,500/12,500;(3,663/3,663)	3.1/3.1
	CCE18E	16,000;(4,688)	12.0;(3.5)	19,300;(5,655)	4.2	17,800;(5,215)	17.3;(5.1)	16,000;(4,688)	3.7	16,400;(4,805)	13.4;(3.9)	12,500;(3,663)	3.1
Trade Name(s): ClimateMaster Hi-Rise Series													
Type: WBAHP-O													
	81610G	8,500/8,500;(2,491/2,491)	11.6/11.6;(3.4/3.4)	11,500/11,500;(3,370/3,370)	4.2/4.2	8,500/8,500;(2,491/2,491)	17.3/17.3;(5.1/5.1)	7,800/7,800;(2,285/2,285)	3.8/3.8	8,000/8,000;(2,350/2,350)	13.5/13.5;(4.0/4.0)	6,500/6,500;(1,900/1,900)	3.3/3.3
	81610E	8,500;(2,491)	11.6;(3.4)	11,500;(3,370)	4.2	8,500;(2,491)	17.3;(5.1)	7,800;(2,285)	3.8	8,000;(2,350)	13.5;(4.0)	6,500;(1,900)	3.3
	81615E	12,000;(3,516)	12.3;(3.6)	14,700;(4,307)	4.2	12,000;(3,516)	17.3;(5.1)	11,000;(3,223)	3.7	11,500;(3,421)	13.4;(3.9)	9,500;(2,815)	3.1
	81615G	12,000/12,000;(3,516/3,516)	12.3/12.3;(3.6/3.6)	14,700/14,700;(4,307/4,307)	4.2/4.2	12,000/12,000;(3,516/3,516)	17.3/17.3;(5.1/5.1)	11,000/11,000;(3,223/3,223)	3.7/3.7	11,500/11,500;(3,421/3,421)	13.4/13.4;(3.9/3.9)	9,500/9,500;(2,815/2,815)	3.1/3.1
	81620G	18,500/18,500;(5,421/5,421)	12.0/12.0;(3.5/3.5)	23,600/23,600;(6,915/6,915)	4.2/4.2	18,500/18,500;(5,421/5,421)	17.3/17.3;(5.1/5.1)	16,000/16,000;(4,688/4,688)	3.7/3.7	16,400/16,400;(4,805/4,805)	13.4/13.4;(3.9/3.9)	12,500/12,500;(3,663/3,663)	3.1/3.1
	81620E	18,500;(5,421)	12.0;(3.5)	23,600;(6,915)	4.2	18,500;(5,421)	17.3;(5.1)	16,000;(4,688)	3.7	16,400;(4,805)	13.4;(3.9)	12,500;(3,663)	3.1
	81628E	25,200;(7,384)	12.0;(3.5)	32,000;(9,376)	4.2	25,200;(7,384)	17.3;(5.1)	22,000;(6,592)	3.7	22,500;(6,750)	13.4;(3.9)	18,000;(5,400)	3.1
	81628G	25,200/25,200;(7,384/7,384)	12.0/12.0;(3.5/3.5)	32,000/32,000;(9,376/9,376)	4.2/4.2	25,200/25,200;(7,384/7,384)	17.3/17.3;(5.1/5.1)	22,000/22,000;(6,592/6,592)	3.7/3.7	22,500/22,500;(6,750/6,750)	13.4/13.4;(3.9/3.9)	18,000/18,000;(5,400/5,400)	3.1/3.1
	81630E	28,100;(8,233)	12.5;(3.7)	36,000;(10,548)	4.2	28,100;(8,233)	17.3;(5.1)	25,000;(7,500)	3.7	25,500;(7,650)	13.4;(3.9)	20,000;(6,000)	3.1
	81636G	32,600/32,600;(9,552/9,552)	12.5/12.5;(3.7/3.7)	42,500/42,500;(12,452/12,452)	4.2/4.2	32,600/32,600;(9,552/9,552)	17.3/17.3;(5.1/5.1)	29,000/29,000;(8,700/8,700)	3.7/3.7	29,500/29,500;(8,850/8,850)	13.4/13.4;(3.9/3.9)	23,000/23,000;(6,900/6,900)	3.1/3.1

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ARI STANDARD RATINGS FOR WATER-TO-AIR AND BRINE-TO-AIR HEAT PUMPS

Data Updated: May 05, 2004

Foot Note(s)	Model Designation	WLHP			GWHP			GLHP					
		Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP
		32,600(9,552)	12.5(3.7)	42,500(12,452)	4.2								
	ARI Reference Number: 171118												
	Type: WBAHP-O												
	81636E												
	Trade Name(s): ClimateMaster Hi-Rise Series												
	Type: WBAHP												
	GCV/GCH018BG	18,200(5,333)	12.3(3.6)	22,000(6,446)	4.24								
	ARI Reference Number: 321516												
	GCV/GCH018BE	18,200(5,333)	12.3(3.6)	22,000(6,446)	4.2								
	ARI Reference Number: 321517												
	GCV/GCH024BG	23,800(6,973)	13.0(3.8)	27,800(8,145)	4.64								
	ARI Reference Number: 321529												
	GCV/GCH024BH	23,800(6,973)	13.0(3.8)	27,800(8,145)	4.64								
	ARI Reference Number: 321531												
	GCV/GCH024BE	23,800(6,973)	13.0(3.8)	27,800(8,145)	4.6								
	ARI Reference Number: 321519												
	GCV/GCH024BF	23,800(6,973)	13.0(3.8)	27,800(8,145)	4.6								
	ARI Reference Number: 321533												
	GCV/GCH030BH	28,000(8,204)	12.2(3.6)	33,500(9,815)	4.44								
	ARI Reference Number: 321518												
	GCV/GCH030BE	28,000(8,204)	12.2(3.6)	33,500(9,815)	4.4								
	ARI Reference Number: 321523												
	GCV/GCH030BG	28,000(8,204)	12.2(3.6)	33,500(9,815)	4.44								
	ARI Reference Number: 321530												
	GCV/GCH030BF	28,000(8,204)	12.2(3.6)	33,500(9,815)	4.4								
	ARI Reference Number: 321534												
	GCV/GCH036BF	35,000(10,255)	12.0(3.5)	45,500(13,331)	4.2								
	ARI Reference Number: 321532												
	GCV/GCH036BG	35,000(10,255)	12.0(3.5)	45,500(13,331)	4.24								
	ARI Reference Number: 321524												
	GCV/GCH036BE	35,000(10,255)	12.0(3.5)	45,500(13,331)	4.2								
	ARI Reference Number: 321526												
	GCV/GCH036BH	35,000(10,255)	12.0(3.5)	45,500(13,331)	4.24								
	ARI Reference Number: 321527												
	GCV041BG	37,700(11,046)	12.0(3.5)	47,500(13,918)	4.24								
	ARI Reference Number: 321748												
	GCV041BF	37,700(11,046)	12.0(3.5)	47,500(13,918)	4.2								
	ARI Reference Number: 321520												

CLIMATE MASTER, INC.
A Subsidiary of LSB Industries

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ARI STANDARD RATINGS FOR WATER-TO-AIR AND BRINE-TO-AIR HEAT PUMPS

Data Updated: May 05, 2004

Foot Note(s)	Model Designation	WLHP			GWHP			GLHP					
		Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP
Trade Name(s): Genesis Compact													
Type: WBAHP													
	GCV/041BH	37,700(37,700)(11,046)	12.0/12.0(3.5/3.5)	47,500(47,500)(13,918)	4.2/4.2								
	GCV/GCH04ZBG	41,000(41,000)(12,013)	12.0/12.0(3.5/3.5)	52,600(52,600)(15,412)	4.2/4.2								
	GCV/GCH04ZBF	41,000(41,000)(12,013)	12.0(3.5)	52,600(15,412)	4.2								
	GCV/GCH04ZBH	41,000(41,000)(12,013)	12.0/12.0(3.5/3.5)	52,600(52,600)(15,412)	4.2/4.2								
	GCV/GCH04ZBH	47,100(47,100)(13,800)	12.2/12.2(3.6/3.6)	58,200(58,200)(17,053)	4.4/4.4								
	GCV/GCH04ZBG	47,100(47,100)(13,800)	12.2/12.2(3.6/3.6)	58,200(58,200)(17,053)	4.4/4.4								
	GCV/GCH04ZBF	47,100(47,100)(13,800)	12.2(3.6)	58,200(17,053)	4.4								
	GCV/GCH060BG	58,000(58,000)(16,994)	12.0/12.0(3.5/3.5)	76,800(76,800)(22,502)	4.2/4.2								
	GCV/GCH060BH	58,000(58,000)(16,994)	12.0/12.0(3.5/3.5)	76,800(76,800)(22,502)	4.2/4.2								
	GCV/GCH060BF	58,000(58,000)(16,994)	12.0(3.5)	76,800(22,502)	4.2								
Trade Name(s): Genesis Series - High Efficiency													
Type: WBAHP													
	GRV/GRH006AE	5,400(5,400)(1,582)	12.8(3.8)	7,400(2,168)	4.2								
	GRV/GRH006AG	5,400(5,400)(1,582)	12.8/12.8(3.8/3.8)	7,400(7,400)(2,168)	4.2/4.2								
	GRV/GRH006AE	8,100(8,100)(2,373)	12.8(3.8)	10,300(3,018)	4.3								
	GRV/GRH006AG	8,100(8,100)(2,373)	12.8/12.8(3.8/3.8)	10,300(10,300)(3,018)	4.3/4.3								
	GRV/GRH012AG	11,800(11,800)(3,457)	12.7/12.7(3.7/3.7)	14,600(14,600)(4,278)	4.2/4.2								
	GRV/GRH012AE	11,800(11,800)(3,457)	12.7(3.7)	14,600(4,278)	4.2								
	GRV/GRH015AG	14,100(14,100)(4,131)	13.3/13.3(3.9/3.9)	16,800(16,800)(4,922)	4.6/4.6								

CLIMATE MASTER, INC.

A Subsidiary of LSB Industries

(P) Indicates Part-Load ratings.
 When two values are shown for a dual voltage machine, 208 is the first value
 * Revised voluntarily
 WAS indicates a rating that has been involuntarily changed.



ARI STANDARD RATINGS FOR WATER-TO-AIR AND BRINE-TO-AIR HEAT PUMPS

Data Updated: May 05, 2004

Foot Note(s)	Model Designation	WLHP			GWHP			GLHP					
		Cooling Capacity	EEER	Heating Capacity COP	Cooling Capacity	EEER	Heating Capacity COP	Cooling Capacity	EEER	Heating Capacity COP			
	Trade Name(s): Genesis Series - High Efficiency												
	Type: WBAHP												
	GRV/GRH048AF	47,000;(13,771)	12.8;(3.8)	58,000;(16,994)	4.2	54,000;(15,822)	18.1;(5.3)	46,000;(13,478)	3.8	48,500;(14,210)	14.3;(4.2)	35,500;(10,343)	3.3
	ARI Reference Number: 179762												
	GRV/GRH048AH	47,000/47,000;(13,771/13,771)	12.8/12.8;(3.8/3.8)	58,000/58,000;(16,994/16,994)	4.2/4.2	54,000/54,000;(15,822/15,822)	18.1/18.1;(5.3/5.3)	46,000/46,000;(13,478/13,478)	3.8/3.8	48,500/48,500;(14,210/14,210)	14.3/14.3;(4.2/4.2)	35,500/35,500;(10,343/10,343)	3.3/3.3
	ARI Reference Number: 179761												
	GRV/GRH060AG	59,000/59,000;(17,287/17,287)	12.8/12.8;(3.8/3.8)	68,000/68,000;(19,924/19,924)	4.2/4.2	64,500/64,500;(18,899/18,899)	16.8/16.8;(4.9/4.9)	56,000/56,000;(16,400/16,400)	3.8/3.8	60,600/60,600;(17,561/17,561)	14.1/14.1;(4.1/4.1)	44,000/44,000;(12,892/12,892)	3.2/3.2
	ARI Reference Number: 179763												
	ORV/GRH060AF	59,000;(17,287)	12.8;(3.8)	68,000;(19,924)	4.2	64,500;(18,899)	16.8;(4.9)	56,000;(16,400)	3.8	60,600;(17,561)	14.1;(4.1)	44,000;(12,892)	3.2
	ARI Reference Number: 179765												
	GRV/GRH060AH	59,000/59,000;(17,287/17,287)	12.8/12.8;(3.8/3.8)	68,000/68,000;(19,924/19,924)	4.2/4.2	64,500/64,500;(18,899/18,899)	16.8/16.8;(4.9/4.9)	56,000/56,000;(16,400/16,400)	3.8/3.8	60,600/60,600;(17,561/17,561)	14.1/14.1;(4.1/4.1)	44,000/44,000;(12,892/12,892)	3.2/3.2
	ARI Reference Number: 179764												
	Trade Name(s): Genesis Series - Split System												
	Type: WBAHP-CB												
	GSS018AG	16,600/16,600;(4,864/4,864)	14.0/14.0;(4.2/4.2)	20,300/20,300;(5,948/5,948)	4.8/4.8	18,500/18,500;(5,421/5,421)	22.1/22.1;(6.5/6.5)	15,500/15,500;(4,542/4,542)	4.0/4.0	17,800/17,800;(5,215/5,215)	16.2/16.2;(4.7/4.7)	12,800/12,800;(3,750/3,750)	3.5/3.5
	ARI Reference Number: 173245												
	GSS024AG	23,500/23,500;(6,886/6,886)	14.5/14.5;(4.2/4.2)	29,200/29,200;(8,556/8,556)	4.7/4.7	25,700/25,700;(7,530/7,530)	20.6/20.6;(6.0/6.0)	22,800/22,800;(6,880/6,880)	3.9/3.9	25,200/25,200;(7,384/7,384)	16.6/16.6;(4.9/4.9)	18,600/18,600;(5,450/5,450)	3.5/3.5
	ARI Reference Number: 179766												
	GSS030AG	28,000/28,000;(8,204/8,204)	14.7/14.7;(4.3/4.3)	34,000/34,000;(9,962/9,962)	4.7/4.7	30,200/30,200;(8,849/8,849)	20.8/20.8;(6.1/6.1)	26,400/26,400;(7,735/7,735)	3.9/3.9	29,800/29,800;(8,731/8,731)	16.4/16.4;(4.8/4.8)	21,500/21,500;(6,300/6,300)	3.5/3.5
	ARI Reference Number: 179767												
	GSS036AG	32,800/32,800;(9,610/9,610)	14.5/14.5;(4.2/4.2)	39,200/39,200;(11,486/11,486)	4.4/4.4	34,900/34,900;(10,226/10,226)	20.1/20.1;(5.9/5.9)	31,900/31,900;(9,347/9,347)	3.9/3.9	34,700/34,700;(10,167/10,167)	15.9/15.9;(4.7/4.7)	25,900/25,900;(7,589/7,589)	3.5/3.5
	ARI Reference Number: 179768												
	GSS042AG	39,800/39,800;(11,661/11,661)	14.1/14.1;(4.1/4.1)	48,300/48,300;(14,152/14,152)	4.7/4.7	44,100/44,100;(12,921/12,921)	19.7/19.7;(5.8/5.8)	37,800/37,800;(11,075/11,075)	3.9/3.9	42,000/42,000;(12,306/12,306)	15.5/15.5;(4.5/4.5)	31,700/31,700;(9,289/9,289)	3.6/3.6
	ARI Reference Number: 179769												
	GSS048AG	44,500/44,500;(13,039/13,039)	14.2/14.2;(4.2/4.2)	52,500/52,500;(15,383/15,383)	4.8/4.8	47,500/47,500;(13,918/13,918)	19.3/19.3;(5.7/5.7)	42,000/42,000;(12,306/12,306)	3.9/3.9	47,400/47,400;(13,888/13,888)	15.9/15.9;(4.7/4.7)	35,800/35,800;(10,489/10,489)	3.6/3.6
	ARI Reference Number: 179770												
	GSS060AG	55,100/55,100;(16,144/16,144)	13.0/13.0;(3.8/3.8)	72,700/72,700;(21,301/21,301)	4.6/4.6	57,800/57,800;(16,935/16,935)	17.2/17.2;(5.0/5.0)	51,000/51,000;(16,730/16,730)	3.7/3.7	57,600/57,600;(16,877/16,877)	14.2/14.2;(4.2/4.2)	47,200/47,200;(13,830/13,830)	3.5/3.5
	ARI Reference Number: 179771												
	Trade Name(s): Genesis Series - Ultra High Efficiency												
	Type: WBAHP												
	GSV/GSH015AG	14,100/14,100;(4,131/4,131)	16.0/16.0;(4.7/4.7)	16,300/16,300;(4,776/4,776)	5.3/5.3	15,600/15,600;(4,571/4,571)	23.9/23.9;(7.0/7.0)	12,900/12,900;(3,780/3,780)	4.1/4.1	14,900/14,900;(4,366/4,366)	18.5/18.5;(5.4/5.4)	11,200/11,200;(3,282/3,282)	3.8/3.8
	ARI Reference Number: 172566												
	GSV/GSH015AE	14,100/14,100;(4,131/4,131)	16.0/16.0;(4.7/4.7)	16,300/16,300;(4,776/4,776)	5.3	15,600/15,600;(4,571/4,571)	23.9/23.9;(7.0/7.0)	12,900/12,900;(3,780/3,780)	4.1	14,900/14,900;(4,366/4,366)	18.5/18.5;(5.4/5.4)	11,200/11,200;(3,282/3,282)	3.8
	ARI Reference Number: 172567												
	GSV/GSH015AG	14,100/14,100;(4,131/4,131)	16.0/16.0;(4.7/4.7)	16,300/16,300;(4,776/4,776)	5.3/5.3	15,600/15,600;(4,571/4,571)	23.9/23.9;(7.0/7.0)	12,900/12,900;(3,780/3,780)	4.1/4.1	14,900/14,900;(4,366/4,366)	18.5/18.5;(5.4/5.4)	11,200/11,200;(3,282/3,282)	3.8/3.8
	ARI Reference Number: 172566												

(P) Indicates Part-Load ratings.
 When two values are shown for a dual voltage machine, 208 is the first value
 * Reverse voluntarily
 WAS indicates a rating that has been involuntarily changed.



ARI STANDARD RATINGS FOR WATER-TO-AIR AND BRINE-TO-AIR HEAT PUMPS

Data Updated: May 05, 2004

Foot Note(s)	Model Designation	WLHP			GWHP			GLHP					
		Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP
	Trade Name(s): Genesis Series - Ultra High Efficiency												
	Type: WBAHP												
	GSV/GSH015AG	14,100(14,100);(4,131)	16.0(16.5);(4.7)	16,300(16,300);(7,764)	5.3(5.3)	15,600(15,600);(7,144)	23.9(23.9);(7.0)	12,900(12,900);(3,780)	4.1(4.1)	14,900(14,900);(3,664)	18.5(18.5);(4.5)	11,200(11,200);(2,823)	3.8(3.8)
	ARI Reference Number: 172266												
	GSV/GSH018AE	17,100(17,100);(5,010)	14.8(14.8);(4.3)	20,900(20,900);(6,124)	5.0	19,000(19,000);(5,567)	22.7(22.7);(6.7)	16,000(16,000);(4,688)	4.1	18,300(18,300);(5,362)	16.7(16.7);(4.9)	13,200(13,200);(3,868)	3.6
	ARI Reference Number: 172269												
	GSV/GSH018AG	17,100(17,100);(5,010)	14.8(14.8);(4.3)	20,900(20,900);(6,124)	5.0(5.0)	19,000(19,000);(5,567)	22.7(22.7);(6.7)	16,000(16,000);(4,688)	4.1(4.1)	18,300(18,300);(5,362)	16.7(16.7);(4.9)	13,200(13,200);(3,868)	3.6(3.6)
	ARI Reference Number: 172268												
	GSV/GSH024AE	24,200(24,200);(7,091)	14.9(14.9);(4.4)	30,100(30,100);(8,819)	4.8	26,500(26,500);(7,764)	21.2(21.2);(6.2)	23,500(23,500);(6,886)	4.0	26,000(26,000);(7,618)	17.1(17.1);(5.0)	19,200(19,200);(5,626)	3.6
	ARI Reference Number: 172879												
	GSV/GSH024AG	24,200(24,200);(7,091)	14.9(14.9);(4.4)	30,100(30,100);(8,819)	4.8(4.8)	26,500(26,500);(7,764)	21.2(21.2);(6.2)	23,500(23,500);(6,886)	4.0(4.0)	26,000(26,000);(7,618)	17.1(17.1);(5.0)	19,200(19,200);(5,626)	3.6(3.6)
	ARI Reference Number: 173225												
	GSV/GSH024AG	24,200(24,200);(7,091)	14.9(14.9);(4.4)	30,100(30,100);(8,819)	4.8(4.8)	26,500(26,500);(7,764)	21.2(21.2);(6.2)	23,500(23,500);(6,886)	4.0(4.0)	26,000(26,000);(7,618)	17.1(17.1);(5.0)	19,200(19,200);(5,626)	3.6(3.6)
	ARI Reference Number: 173225												
	GSV/GSH030AG	28,900(28,900);(8,468)	15.1(15.1);(4.4)	35,000(35,000);(10,255)	4.8(4.8)	31,100(31,100);(9,112)	21.4(21.4);(6.3)	27,200(27,200);(7,970)	4.0(4.0)	30,700(30,700);(8,995)	16.9(16.9);(5.0)	22,200(22,200);(6,505)	3.6(3.6)
	ARI Reference Number: 173227												
	GSV/GSH030AE	28,900(28,900);(8,468)	15.1(15.1);(4.4)	35,000(35,000);(10,255)	4.8	31,100(31,100);(9,112)	21.4(21.4);(6.3)	27,200(27,200);(7,970)	4.0	30,700(30,700);(8,995)	16.9(16.9);(5.0)	22,200(22,200);(6,505)	3.6
	ARI Reference Number: 172880												
	GSV/GSH030AF	28,900(28,900);(8,468)	15.1(15.1);(4.4)	35,000(35,000);(10,255)	4.8	31,100(31,100);(9,112)	21.4(21.4);(6.3)	27,200(27,200);(7,970)	4.0	30,700(30,700);(8,995)	16.9(16.9);(5.0)	22,200(22,200);(6,505)	3.6
	ARI Reference Number: 172881												
	GSV/GSH030AH	28,900(28,900);(8,468)	15.1(15.1);(4.4)	35,000(35,000);(10,255)	4.8(4.8)	31,100(31,100);(9,112)	21.4(21.4);(6.3)	27,200(27,200);(7,970)	4.0(4.0)	30,700(30,700);(8,995)	16.9(16.9);(5.0)	22,200(22,200);(6,505)	3.6(3.6)
	ARI Reference Number: 173229												
	GSV/GSH030AG	28,900(28,900);(8,468)	15.1(15.1);(4.4)	35,000(35,000);(10,255)	4.8(4.8)	31,100(31,100);(9,112)	21.4(21.4);(6.3)	27,200(27,200);(7,970)	4.0(4.0)	30,700(30,700);(8,995)	16.9(16.9);(5.0)	22,200(22,200);(6,505)	3.6(3.6)
	ARI Reference Number: 173227												
	GSV/GSH030AG	28,900(28,900);(8,468)	15.1(15.1);(4.4)	35,000(35,000);(10,255)	4.8(4.8)	31,100(31,100);(9,112)	21.4(21.4);(6.3)	27,200(27,200);(7,970)	4.0(4.0)	30,700(30,700);(8,995)	16.9(16.9);(5.0)	22,200(22,200);(6,505)	3.6(3.6)
	ARI Reference Number: 173227												
	GSV/GSH036AG	33,800(33,800);(9,903)	14.9(14.9);(4.4)	40,400(40,400);(11,837)	4.6(4.6)	36,000(36,000);(10,548)	20.7(20.7);(6.1)	32,900(32,900);(9,640)	4.0(4.0)	35,800(35,800);(10,489)	16.4(16.4);(4.8)	26,700(26,700);(7,823)	3.4(3.4)
	ARI Reference Number: 173230												
	GSV/GSH036AE	33,800(33,800);(9,903)	14.9(14.9);(4.4)	40,400(40,400);(11,837)	4.6	36,000(36,000);(10,548)	20.7(20.7);(6.1)	32,900(32,900);(9,640)	4.0	35,800(35,800);(10,489)	16.4(16.4);(4.8)	26,700(26,700);(7,823)	3.4
	ARI Reference Number: 172882												
	GSV/GSH036AF	33,800(33,800);(9,903)	14.9(14.9);(4.4)	40,400(40,400);(11,837)	4.6	36,000(36,000);(10,548)	20.7(20.7);(6.1)	32,900(32,900);(9,640)	4.0	35,800(35,800);(10,489)	16.4(16.4);(4.8)	26,700(26,700);(7,823)	3.4
	ARI Reference Number: 172883												
	GSV/GSH036AH	33,800(33,800);(9,903)	14.9(14.9);(4.4)	40,400(40,400);(11,837)	4.6(4.6)	36,000(36,000);(10,548)	20.7(20.7);(6.1)	32,900(32,900);(9,640)	4.0(4.0)	35,800(35,800);(10,489)	16.4(16.4);(4.8)	26,700(26,700);(7,823)	3.4(3.4)
	ARI Reference Number: 173232												
	GSV/GSH042AF	41,000(41,000);(12,013)	14.5(14.5);(4.2)	49,800(49,800);(14,591)	4.8	45,400(45,400);(13,302)	20.3(20.3);(5.9)	39,000(39,000);(11,427)	4.0	43,900(43,900);(12,687)	16.0(16.0);(4.7)	32,700(32,700);(9,581)	3.7
	ARI Reference Number: 172884												
	GSV/GSH042AG	41,000(41,000);(12,013)	14.5(14.5);(4.2)	49,800(49,800);(14,591)	4.8(4.8)	45,400(45,400);(13,302)	20.3(20.3);(5.9)	39,000(39,000);(11,427)	4.0(4.0)	43,900(43,900);(12,687)	16.0(16.0);(4.7)	32,700(32,700);(9,581)	3.7(3.7)
	ARI Reference Number: 173233												

CLIMATE MASTER, INC.

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ARI STANDARD RATINGS FOR WATER-TO-AIR AND BRINE-TO-AIR HEAT PUMPS

Data Updated: May 05, 2004

WLHP

GWHP

GLHP

Foot Note(s)	Model Designation	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP
	Type: WBAHP												
	GSV/GSH042AH	41,000(41,000);(12,013/12,013)	14.5/14.5;(4.2/4.2)	49,800(49,800);(14,591/14,591)	4.8/4.8	45,400(45,400);(13,302/13,302)	20.3/20.3;(5.9/5.9)	39,000(39,000);(11,427/11,427)	4.0/4.0	43,300(43,300);(12,687/12,687)	16.0/16.0;(4.7/4.7)	32,700(32,700);(9,581/9,581)	3.7/3.7
	ARI Reference Number: 173235												
	GSV/GSH048AG	45,800(45,800);(13,419/13,419)	14.6/14.6;(4.3/4.3)	54,100(54,100);(15,851/15,851)	4.9/4.9	49,000(49,000);(14,357/14,357)	19.9/19.9;(5.8/5.8)	43,300(43,300);(12,687/12,687)	4.0/4.0	48,900(48,900);(14,328/14,328)	16.4/16.4;(4.8/4.8)	36,900(36,900);(10,812/10,812)	3.7/3.7
	ARI Reference Number: 173236												
	GSV/GSH048AF	45,800(45,800);(13,419/13,419)	14.6/14.6;(4.3/4.3)	54,100(54,100);(15,851/15,851)	4.9	49,000(49,000);(14,357/14,357)	19.9;(5.8)	43,300(43,300);(12,687/12,687)	4.0	48,900(48,900);(14,328/14,328)	16.4;(4.8)	36,900(36,900);(10,812/10,812)	3.7
	ARI Reference Number: 172885												
	GSV/GSH048AH	45,800(45,800);(13,419/13,419)	14.6/14.6;(4.3/4.3)	54,100(54,100);(15,851/15,851)	4.9/4.9	49,000(49,000);(14,357/14,357)	19.9/19.9;(5.8/5.8)	43,300(43,300);(12,687/12,687)	4.0/4.0	48,900(48,900);(14,328/14,328)	16.4/16.4;(4.8/4.8)	36,900(36,900);(10,812/10,812)	3.7/3.7
	ARI Reference Number: 173238												
	GSV/GSH060AG	56,800(56,800);(16,642/16,642)	13.4/13.4;(3.9/3.9)	74,900(74,900);(21,946/21,946)	4.7/4.7	59,600(59,600);(17,463/17,463)	17.7/17.7;(5.2/5.2)	58,900(58,900);(17,258/17,258)	3.8	59,400(59,400);(17,404/17,404)	14.6/14.6;(4.3/4.3)	48,700(48,700);(14,269/14,269)	3.6
	ARI Reference Number: 173239												
	GSV/GSH060AF	56,800(56,800);(16,642/16,642)	13.4/13.4;(3.9/3.9)	74,900(74,900);(21,946/21,946)	4.7	59,600(59,600);(17,463/17,463)	17.7;(5.2)	58,900(58,900);(17,258/17,258)	3.8	59,400(59,400);(17,404/17,404)	14.6;(4.3)	48,700(48,700);(14,269/14,269)	3.6
	ARI Reference Number: 172886												
	GSV/GSH060AH	63,700(63,700);(18,664/18,664)	12.4/12.4;(3.6/3.6)	78,300(78,300);(22,942/22,942)	4.5/4.5	70,000(70,000);(20,510/20,510)	16.8/16.8;(4.9/4.9)	62,900(62,900);(18,430/18,430)	3.8	67,100(67,100);(19,660/19,660)	13.4/13.4;(3.9/3.9)	53,400(53,400);(15,646/15,646)	3.6
	ARI Reference Number: 173241												
	GSV/GSH070AG	63,700(63,700);(18,664/18,664)	12.4/12.4;(3.6/3.6)	78,300(78,300);(22,942/22,942)	4.5/4.5	70,000(70,000);(20,510/20,510)	16.8/16.8;(4.9/4.9)	62,900(62,900);(18,430/18,430)	3.8/3.8	67,100(67,100);(19,660/19,660)	13.4/13.4;(3.9/3.9)	53,400(53,400);(15,646/15,646)	3.6/3.6
	ARI Reference Number: 173242												
	GSV/GSH070AH	63,700(63,700);(18,664/18,664)	12.4/12.4;(3.6/3.6)	78,300(78,300);(22,942/22,942)	4.5/4.5	70,000(70,000);(20,510/20,510)	16.8/16.8;(4.9/4.9)	62,900(62,900);(18,430/18,430)	3.8/3.8	67,100(67,100);(19,660/19,660)	13.4/13.4;(3.9/3.9)	53,400(53,400);(15,646/15,646)	3.6/3.6
	ARI Reference Number: 173244												
	GSV/GSH070AF	63,700(63,700);(18,664/18,664)	12.4/12.4;(3.6/3.6)	78,300(78,300);(22,942/22,942)	4.5	70,000(70,000);(20,510/20,510)	16.8;(4.9)	62,900(62,900);(18,430/18,430)	3.8	67,100(67,100);(19,660/19,660)	13.4;(3.9)	53,400(53,400);(15,646/15,646)	3.6
	ARI Reference Number: 172887												
	GSV/GSH024AGE	26,500(26,500);(7,647/7,647)	21.3/21.3;(6.2/6.2)	23,500(23,500);(6,886/6,886)	4.0/4.0	26,500(26,500);(7,647/7,647)	21.3/21.3;(6.2/6.2)	23,500(23,500);(6,886/6,886)	4.0/4.0	26,300(26,300);(7,706/7,706)	17.5/17.5;(5.1/5.1)	19,000(19,000);(5,567/5,567)	3.8/3.8
	ARI Reference Number: 173226												
	GSV/GSH024AGE	26,500(26,500);(7,647/7,647)	21.3/21.3;(6.2/6.2)	23,500(23,500);(6,886/6,886)	4.0/4.0	26,500(26,500);(7,647/7,647)	21.3/21.3;(6.2/6.2)	23,500(23,500);(6,886/6,886)	4.0/4.0	26,300(26,300);(7,706/7,706)	17.5/17.5;(5.1/5.1)	19,000(19,000);(5,567/5,567)	3.8/3.8
	ARI Reference Number: 173226												
	GSV/GSH024AGE	26,500(26,500);(7,647/7,647)	21.3/21.3;(6.2/6.2)	23,500(23,500);(6,886/6,886)	4.0/4.0	26,500(26,500);(7,647/7,647)	21.3/21.3;(6.2/6.2)	23,500(23,500);(6,886/6,886)	4.0/4.0	26,300(26,300);(7,706/7,706)	17.5/17.5;(5.1/5.1)	19,000(19,000);(5,567/5,567)	3.8/3.8
	ARI Reference Number: 173226												
	GSV/GSH030AGE	31,100(31,100);(9,129/9,129)	21.5/21.5;(6.3/6.3)	27,200(27,200);(7,970/7,970)	4.1/4.1	31,100(31,100);(9,129/9,129)	21.5/21.5;(6.3/6.3)	27,200(27,200);(7,970/7,970)	4.1/4.1	31,000(31,000);(9,083/9,083)	17.5/17.5;(5.1/5.1)	21,900(21,900);(6,417/6,417)	3.7/3.7
	ARI Reference Number: 173228												
	GSV/GSH030AGE	31,100(31,100);(9,129/9,129)	21.5/21.5;(6.3/6.3)	27,200(27,200);(7,970/7,970)	4.1/4.1	31,100(31,100);(9,129/9,129)	21.5/21.5;(6.3/6.3)	27,200(27,200);(7,970/7,970)	4.1/4.1	31,000(31,000);(9,083/9,083)	17.5/17.5;(5.1/5.1)	21,900(21,900);(6,417/6,417)	3.7/3.7
	ARI Reference Number: 173228												
	GSV/GSH036AGE	36,000(36,000);(10,548/10,548)	20.8/20.8;(6.1/6.1)	32,900(32,900);(9,640/9,640)	4.1/4.1	36,000(36,000);(10,548/10,548)	20.8/20.8;(6.1/6.1)	32,900(32,900);(9,640/9,640)	4.1/4.1	35,800(35,800);(10,510/10,510)	17.2/17.2;(5.0/5.0)	26,400(26,400);(7,735/7,735)	3.5/3.5
	ARI Reference Number: 173231												
	GSV/GSH042AGE	43,700(43,700);(13,302/13,302)	20.4/20.4;(6.0/6.0)	39,000(39,000);(11,427/11,427)	4.1/4.1	43,700(43,700);(13,302/13,302)	20.4/20.4;(6.0/6.0)	39,000(39,000);(11,427/11,427)	4.1/4.1	43,700(43,700);(13,302/13,302)	16.7/16.7;(4.4/4.4)	32,400(32,400);(9,493/9,493)	3.8/3.8
	ARI Reference Number: 173234												
	GSV/GSH048AGE	49,100(49,100);(14,386/14,386)	20.1/20.1;(5.9/5.9)	43,200(43,200);(12,658/12,658)	4.1/4.1	49,100(49,100);(14,386/14,386)	20.1/20.1;(5.9/5.9)	43,200(43,200);(12,658/12,658)	4.1/4.1	49,000(49,000);(14,357/14,357)	17.3/17.3;(5.1/5.1)	35,900(35,900);(10,519/10,519)	3.8/3.8
	ARI Reference Number: 173237												

CLIMATE MASTER, INC.

A Subsidiary of LSB Industries

Trade Name(s): Genesis Series - Ultra High Efficiency

Type: WBAHP

Foot Note(s)	Model Designation	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP
	GSV/GSH042AH	41,000(41,000);(12,013/12,013)	14.5/14.5;(4.2/4.2)	49,800(49,800);(14,591/14,591)	4.8/4.8	45,400(45,400);(13,302/13,302)	20.3/20.3;(5.9/5.9)	39,000(39,000);(11,427/11,427)	4.0/4.0	43,300(43,300);(12,687/12,687)	16.0/16.0;(4.7/4.7)	32,700(32,700);(9,581/9,581)	3.7/3.7
	ARI Reference Number: 173235												
	GSV/GSH048AG	45,800(45,800);(13,419/13,419)	14.6/14.6;(4.3/4.3)	54,100(54,100);(15,851/15,851)	4.9/4.9	49,000(49,000);(14,357/14,357)	19.9/19.9;(5.8/5.8)	43,300(43,300);(12,687/12,687)	4.0/4.0	48,900(48,900);(14,328/14,328)	16.4/16.4;(4.8/4.8)	36,900(36,900);(10,812/10,812)	3.7/3.7
	ARI Reference Number: 173236												
	GSV/GSH048AF	45,800(45,800);(13,419/13,419)	14.6/14.6;(4.3/4.3)	54,100(54,100);(15,851/15,851)	4.9	49,000(49,000);(14,357/14,357)	19.9;(5.8)	43,300(43,300);(12,687/12,687)	4.0	48,900(48,900);(14,328/14,328)	16.4;(4.8)	36,900(36,900);(10,812/10,812)	3.7
	ARI Reference Number: 172885												
	GSV/GSH048AH	45,800(45,800);(13,419/13,419)	14.6/14.6;(4.3/4.3)	54,100(54,100);(15,851/15,851)	4.9/4.9	49,000(49,000);(14,357/14,357)	19.9/19.9;(5.8/5.8)	43,300(43,300);(12,687/12,687)	4.0/4.0	48,900(48,900);(14,328/14,328)	16.4/16.4;(4.8/4.8)	36,900(36,900);(10,812/10,812)	3.7/3.7
	ARI Reference Number: 173238												
	GSV/GSH060AG	56,800(56,800);(16,642/16,642)	13.4/13.4;(3.9/3.9)	74,900(74,900);(21,946/21,946)	4.7/4.7	59,600(59,600);(17,463/17,463)	17.7/17.7;(5.2/5.2)	58,900(58,900);(17,258/17,258)	3.8/3.8	59,400(59,400);(17,404/17,404)	14.6/14.6;(4.3/4.3)	48,700(48,700);(14,269/14,269)	3.6/3.6
	ARI Reference Number: 173239												
	GSV/GSH060AF	56,800(56,800);(16,642/16,642)	13.4/13.4;(3.9/3.9)	74,900(74,900);(21,946/21,946)	4.7	59,600(59,600);(17,463/17,463)	17.7;(5.2)	58,900(58,900);(17,258/17,258)	3.8	59,400(59,400);(17,404/17,404)	14.6;(4.3)	48,700(48,700);(14,269/14,269)	3.6
	ARI Reference Number: 172886												
	GSV/GSH060AH	63,700(63,700);(18,664/18,664)	12.4/12.4;(3.6/3.6)	78,300(78,300);(22,942/22,942)	4.5/4.5	70,000(70,000);(20,510/20,510)	16.8/16.8;(4.9/4.9)	62,900(62,900);(18,430/18,430)	3.8/3.8	67,100(67,100);(19,660/19,660)	13.4/13.4;(3.9/3.9)	53,400(53,400);(15,646/15,646)	3.6/3.6
	ARI Reference Number: 173241												
	GSV/GSH070AG	63,700(63,700);(18,664/18,664)	12.4/12.4;(3.6/3.6)	78,300(78,300);(22,942/22,942)	4.5/4.5	70,000(70,000);(20,510/20,510)	16.8/16.8;(4.9/4.9)	62,900(62,900);(18,430/18,430)	3.8/3.8	67,100(67,100);(19,660/19,660)	13.4/13.4;(3.9/3.9)	53,400(53,400);(15,646/15,646)	3.6/3.6
	ARI Reference Number: 173242												
	GSV/GSH070AH	63,700(63,700);(18,664/18,664)	12.4/12.4;(3.6/3.6)	78,300(78,300);(22,942/22,942)	4.5/4.5	70,000(70,000);(20,510/20,510)	16.8/16.8;(4.9/4.9)	62,900(62,900);(18,430/18,430)	3.8/3.8	67,100(67,100);(19,660/19,660)	13.4/13.4;(3.9/3.9)	53,400(53,400);(15,646/15,646)	3.6/3.6
	ARI Reference Number: 173244												
	GSV/GSH070AF	63,700(63,700);(18,664/18,664)	12.4/12.4;(3.6/3.6)	78,300(78,300);(22,942/22,942)	4.5	70,000(70,000);(20,510/20,510)	16.8;(4.9)	62,900(62,900);(18,430/18,430)					



ARI STANDARD RATINGS FOR WATER-TO-AIR AND BRINE-TO-AIR HEAT PUMPS

Data Updated: May 05, 2004

Foot Note(s)	Model Designation	WLHP			GWHP			GLHP						
		Cooling Capacity	HEER	COP	Cooling Capacity	HEER	COP	Cooling Capacity	HEER	COP				
	Trade Name(s): Genesis Series - Ultra High Efficiency													
	Type: WBAHP													
	GSV/GSH06AGE	ARI Reference Number: 173240												
	GSV/GSH07AGE	ARI Reference Number: 173243												
	Trade Name(s): Paradigm Series - Split System													
	Type: WBAHP-CB													
	PDW18	GAH18 ARI Reference Number: 179772	16,600/16,600(4.8 64/4,864)	14.4/14.4(4.2/4.2)	20,300/20,300(5.9 485,948)	4.8/4.8	18,500/18,500(5.4 215,421)	22.1/22.1(6.5/6.5)	15,500/15,500(4.5/4.5)	4.0/4.0	17,800/17,800(5 2,153,215)	16.2/16.2(4.7/4.7)	12,800/12,800(3 7,903,750)	3.5/3.5
	PDW24	GAH24 ARI Reference Number: 179773	23,500/23,500(6.8 86/6,886)	14.5/14.5(4.2/4.2)	29,200/29,200(8.5 568,556)	4.7/4.7	25,700/25,700(7.5 307,530)	20.6/20.6(6.0/6.0)	22,800/22,800(6.6/6.6)	3.9/3.9	25,200/25,200(7 3,647,384)	16.6/16.6(4.9/4.9)	18,600/18,600(5 4,505,450)	3.3/3.5
	PDW30	GAH30 ARI Reference Number: 179774	28,000/28,000(8.2 04/8,204)	14.7/14.7(4.3/4.3)	34,000/34,000(9.9 62/9,962)	4.7/4.7	30,200/30,200(8.8 49/8,849)	20.8/20.8(6.1/6.1)	26,400/26,400(7.7/7.7)	3.9/3.9	29,800/29,800(8 73,18,731)	16.4/16.4(4.8/4.8)	21,500/21,500(6 3,006,300)	3.3/3.5
	PDW36	GAH36 ARI Reference Number: 179775	32,800/32,800(9.6 109,610)	14.5/14.5(4.2/4.2)	39,200/39,200(11.1 486/11,486)	4.4/4.4	34,900/34,900(10 256/10,226)	20.1/20.1(5.9/5.9)	31,900/31,900(9.3/9.3)	3.9/3.9	34,700/34,700(11 0,167/10,167)	15.9/15.9(4.7/4.7)	25,900/25,900(7 5,897,589)	3.3/3.3
	PDW42	GAH42 ARI Reference Number: 179776	39,800/39,800(11.1 66/11,661)	14.1/14.1(4.1/4.1)	48,300/48,300(14.4 152/14,152)	4.7/4.7	44,100/44,100(12 92/12,921)	19.7/19.7(5.8/5.8)	37,800/37,800(11.07 5/11,075)	3.9/3.9	42,000/42,000(11 2,306/12,306)	15.5/15.5(4.5/4.5)	31,700/31,700(9 2,889,288)	3.6/3.6
	PDW48	GAH48 ARI Reference Number: 179777	44,500/44,500(13 03/13,039)	14.2/14.2(4.2/4.2)	52,500/52,500(15 383/15,383)	4.8/4.8	47,500/47,500(13 91/13,918)	19.3/19.3(5.7/5.7)	42,000/42,000(12.30 6/12,306)	3.9/3.9	47,400/47,400(11 3,888/13,888)	15.9/15.9(4.7/4.7)	35,800/35,800(11 0,489/10,489)	3.6/3.6
	PDW60	GAH60 ARI Reference Number: 179778	55,100/55,100(16 144/16,144)	13.0/13.0(3.8/3.8)	72,700/72,700(21.1 301/21,301)	4.6/4.6	57,800/57,800(16 935/16,935)	17.2/17.2(5.0/5.0)	57,100/57,100(16.73 0/16,730)	3.7/3.7	57,600/57,600(11 6,877/16,877)	14.2/14.2(4.2/4.2)	47,200/47,200(11 3,850/13,850)	3.3/3.5
	Trade Name(s): Ultra Classic Series - Two Stage													
	Type: WBAHP													
	VT036G	ARI Reference Number: 172276	19,400/19,400(5.6 84/5,684)	22.8/22.8(6.7/6.7)	16,400/16,400(4.805/4.805)	4.6/4.6	18,800/18,800(5.508/5.508)	21.4/21.4(6.3/6.3)	18,800/18,800(5.508/5.508)	4.6/4.6	18,700/18,700(5 4,795,479)	20.0/20.0(5.9/5.9)	14,600/14,600(4 2,784,278)	4.2/4.2
	VT042G	ARI Reference Number: 172277	20,600/20,600(6.0 36/6,036)	22.0/22.0(6.4/6.4)	19,200/19,200(5.626/5.626)	4.7/4.7	23,300/23,300(6.8 27/6,827)	22.0/22.0(6.4/6.4)	19,200/19,200(5.626/5.626)	4.7/4.7	19,700/19,700(5 7,725,722)	18.7/18.7(5.5/5.5)	16,100/16,100(4 7,174,717)	4.0/4.0
	VT048G	ARI Reference Number: 173246	32,400/32,400(9.4 93/9,493)	21.2/21.2(6.2/6.2)	24,200/24,200(7.091/7.091)	4.1/4.1	32,400/32,400(9.4 93/9,493)	21.2/21.2(6.2/6.2)	24,200/24,200(7.091/7.091)	4.1/4.1	22,700/22,700(6 651,651)	20.0/20.0(5.9/5.9)	17,800/17,800(5 2,153,215)	4.3/4.5
	VT060G	ARI Reference Number: 172278	38,600/38,600(11.1 310/11,310)	21.4/21.4(6.3/6.3)	32,600/32,600(9.552/9.552)	4.3/4.3	38,600/38,600(11.1 310/11,310)	21.4/21.4(6.3/6.3)	32,600/32,600(9.552/9.552)	4.3/4.3	35,900/35,900(11 0,519/10,519)	18.5/18.5(5.4/5.4)	24,800/24,800(7 2,667,266)	4.2/4.2
	VT036G	ARI Reference Number: 172276	43,100/43,100(12.6 63/12,628)	20.0/20.0(5.9/5.9)	38,500/38,500(11.28 0/11,280)	4.2/4.2	40,600/40,600(11.28 0/11,280)	20.0/20.0(5.9/5.9)	38,500/38,500(11.28 0/11,280)	4.2/4.2	40,600/40,600(11 1,896/11,896)	16.0/16.0(4.7/4.7)	31,200/31,200(9 1,429,142)	3.7/3.7

(P) indicates Part-Load ratings.
 When two values are shown for a dual voltage machine, 208 is the first value
 * Revised voluntarily
 WAS indicates a rating that has been involuntarily changed.