

**GBA LEGACY™ LINE
GEOTHERMAL HEAT PUMP
WITH PURON ADVANCE™ (R-454B) REFRIGERANT
Sizes 18, 24, 30, 36, 42, 48, 60**



Product Data



Features & Benefits

Energy Efficiency

- 3.6 - 4.1 COP, 16.0 - 24.0 EER (Closed Loop)
- 4.0 - 4.6 COP, 20.0 - 27.0 EER (Open Loop)
- Optional supplemental domestic water heating

Comfort

- Single-stage rotary compressor on 1.5 ton models, two-stage scroll compressor on 2 - 5 ton models.
- ECM constant airflow blower motor

Control

- Microprocessor control
- Smart Start Assist (optional field installed)
- Units equipped with A2L Dissipation Sensor and dissipation control features.

Sound

- Fully insulated cabinet with fiberglass

Reliability, Quality and Durability

- Non-ozone depleting, low global warming potential Puron Advance™ refrigerant
- Tin plated copper tubing in air coil
- Optional cupronickel coaxial

Flexibility and Installation

- Unit available in vertical up-flow, and horizontal
- Compatible with many 2 stage heat, 2 stage cooling programmable thermostats.
- Enhanced blower mounting configuration for increased serviceability
- Enhanced hinged electrical panel for increased component accessibility
- Enhanced evaporator coil configuration for increased serviceability

Indoor Air Quality

- MERV 8, 2" filter

Model Number Nomenclature

Position>>>	1-2	3	4-5	6	7	8	9	10	11	12	13	14	15	16	
	GB	A	36	V	T	L	C	D	C	C	1	D	X	1	
Model															Revision Level
GB (Low tier package unit)															1 = Original vintage
Refrigerant Type															Future Use
A= R-454B															
Size															Dissipation System
18, 24, 30, 36, 42, 48, 60															D = with Dissipation Control
															X = w/o Dissipation Control
															Voltage
															1 = 208-230/60/1
Cabinet Configuration															Air Coil Coating
V= Vertical															C = Coated fins, tin plated hair pins
H = Horizontal															
Discharge Air Configuration															Fan/Motor Options
T = Top (vertical)															C = ECM Constant Airflow
E = End (horizontal)															
S = Side (horizontal)															Hot Water Option
															D = with Desuperheater
															X = without Desuperheater
Return Air Configuration															Coax Options
L = Left															C = Copper (source)
R = Right															N = Cupronickel (source)



Accessories

Factory Installed Options

- **Cupro-nickel Coil** - Recommended in conditions anticipating moderate scale formation or in brackish water (such as open-loop applications).
- **Domestic Hot Water Heat Recovery Package:** - Used to heat domestic hot water using the wasted heat from the hot compressed gas of the compressor.

Field Installed Accessories

- **Smart Start** - A factory installed start-up device that improves efficiency as much as 65% and helps reduce wear and tear on the compressor during start-up.
- **Electric Heater Kit** - The Electric Heater Kit is a field installable electric resistance heater kit designed for the GBA series heat pumps.

NOTE: See Geothermal Accessory Catalog for the full selection of available field-installed accessories.

Aux. Heat Size Compatibility (Kw)				
Model Size	KWBEH0101N		KWBEH0101B	
	5	10	15	20
18	•	—	—	—
24	•	•	—	—
30	•	•	—	—
36	•	•	•	—
42	•	•	•	—
48	•	•	•	•
60	•	•	•	•

• = Heater kit compatible / — = Heater kit not compatible

Physical Data

Description	Unit Size						
	18	24	30	36	42	48	60
Compressor Type	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Max Water Working Pressure (PSIG)*	400	400	400	400	400	400	400
ECM Fan Motor & Blower							
Fan Motor Type	Constant CFM	Constant CFM	Constant CFM	Constant CFM	Constant CFM	Constant CFM	Constant CFM
Fan Motor (HP)	0.33	0.33	0.50	0.75	0.75	0.75	1.00
Blower Wheel Size (Dia. x W)	9x7	9x7	10x8	10x8	10x8	10x8	12x9
Water Connection Size (Includes Economizer Option)							
FPT	0.75	0.75	0.75	0.75	0.75	1	1
Coaxial Coil Volume (gal)	0.16	0.28	0.28	0.28	0.38	0.46	0.46
Vertical Cabinet							
Refrigeration Charge (oz)	28.0	31.0	32.0	35.0	42.0	48.0	80.0
Air Coil Dimensions (H x W)	20x16.5	20x16.5	19x16.5	28x21	28x21	28x21	36x27
2" MERV 8 or 13 (L x H)	18x22	18x22	19x27	24x30	24x30	24x30	18x30 (2)
Weight - Operating (lbs)	177	197	212	233	271	276	347
Weight - Shipping (lbs)	202	224	238	259	297	301	371
Horizontal Cabinet							
Refrigeration Charge (oz)	27.0	31.0	31.0	32.0	46.0	48.0	67.5
Air Coil Dimensions (H x W)	15x22	15x22	16x27.5	16x27.5	18x31	18x31	20x42
2" MERV 8 or 13 (L x H)	17x25	17x25	18x30	18x30	20x34	20x34	20x20 & 20x24
Weight - Operating (lbs)	173	194	204	205	281	292	319
Weight - Shipping (lbs)	198	220	231	232	307	317	343

ELECTRICAL DATA

Constant Airflow ECM Blower Motor											Single Point Power		
GBA Model SIZE	Voltage Code	Voltage/Hz/ Phase	Voltage Min/Max	Compressor				Blower Motor		Total Unit FLA	Min. Circuit Amps	MOP Calc	MOP
				Supplier model	Qty	RLA	LRA	FLA	HP				
24	1	208-230/1/60	197/253	TSF165N1UETC3	1	7.4	39	4.4	0.33	11.8	13.7	21.1	20
24	1	208-230/1/60	197/253	YAS20K1E-PFV	1	10.3	62	4.4	0.33	14.7	17.2	27.5	25
30	1	208-230/1/60	197/253	YAS26K1E-PFV	1	14.6	82	5.0	0.50	19.6	23.2	37.7	35
36	1	208-230/1/60	197/253	YAS30K1E-PFV	1	14.6	90	8.4	0.75	23.0	26.6	41.1	40
42	1	208-230/1/60	197/253	YAS35K1E-PFV	1	18.2	106	8.4	0.75	26.6	31.2	49.4	45
48	1	208-230/1/60	197/253	YAS40K1E-PFV	1	18.3	138	8.4	0.75	26.7	31.3	49.7	45
60	1	208-230/1/60	197/253	YAS51K1E-PFV	1	25.2	147.3	9.1	1	34.3	40.6	65.8	60

CASING RADIATED SOUND DATA

Casing Radiated Sound Power											
Model	LOAD	Octave Band Sound Power Levels dB, re 10-12 Watts									
		Center Frequency - Hz								Overall	Overall AHRI-260:2017 (63Hz-8kHz) (dBA)
		63	125	250	500	1000	2000	4000	8000		
24-VT	Cooling Full	69	58	54	50	46	41	32	27	69	53
	Heating Full	66	60	56	49	46	41	32	27	68	53
	Cooling Part	69	53	49	46	42	37	29	26	69	49
	Heating Part	67	55	50	48	43	37	29	26	68	49
	FAN Only	59	56	45	42	37	31	24	23	61	44
30-VT	Cooling Full	67	58	54	50	49	45	40	31	68	54
	Heating Full	69	57	54	50	50	43	35	28	69	54
	Cooling Part	70	56	50	47	48	40	31	25	71	52
	Heating Part	68	55	51	49	48	39	29	24	68	51
	FAN Only	60	48	43	46	40	33	24	22	61	46
36-VT	Cooling Full	73	62	55	54	51	47	43	40	74	57
	Heating Full	76	65	56	52	50	44	41	36	76	56
	Cooling Part	75	65	58	51	47	41	40	37	75	55
	Heating Part	76	62	59	50	46	42	40	39	76	56
	FAN Only	64	54	46	45	40	34	27	25	64	47
42-VT	Cooling Full	83	63	57	53	50	47	41	31	83	59
	Heating Full	78	63	56	53	49	45	38	31	78	57
	Cooling Part	80	58	55	50	46	41	34	30	80	56
	Heating Part	79	60	55	50	45	40	34	30	79	56
	FAN Only	61	51	47	44	41	36	28	23	62	46
48-VT	Cooling Full	77	61	58	56	55	47	40	33	77	59
	Heating Full	79	61	57	57	56	48	40	34	79	60
	Cooling Part	73	56	56	53	51	42	35	31	73	56
	Heating Part	75	54	57	53	51	43	35	30	75	56
	FAN Only	63	57	50	49	43	38	30	24	64	50
60-VT	Cooling Full	86	69	60	56	51	45	39	32	86	62
	Heating Full	81	67	61	57	50	45	38	30	81	60
	Cooling Part	60	48	49	50	46	42	35	26	61	61
	Heating Part	85	63	61	54	46	40	32	26	85	60
	FAN Only	63	52	48	46	42	41	35	30	64	49

CASING RADIATED SOUND DATA (Continued)

Casing Radiated Sound Power											
Model	LOAD	Octave Band Sound Power Levels dB, re 10-12 Watts									
		Center Frequency - Hz								Overall	Overall AHRI-260:2017 (63Hz-8kHz) (dBA)
		63	125	250	500	1000	2000	4000	8000		
24-HZ	Cooling Full	80	65	58	52	48	42	35	27	80	57
	Heating Full	78	67	59	51	47	42	34	27	78	57
	Cooling Part	80	62	55	50	45	40	32	27	80	56
	Heating Part	75	63	60	52	44	40	31	25	76	56
	FAN Only	59	48	46	41	34	28	24	22	59	42
30-HZ	Cooling Full	77	68	57	54	50	43	36	30	78	58
	Heating Full	79	72	55	53	50	44	35	31	79	59
	Cooling Part	82	63	59	55	47	42	32	28	82	58
	Heating Part	79	65	57	56	47	42	33	31	79	58
	FAN Only	61	50	44	42	37	30	26	23	62	44
36-HZ	Cooling Full	78	60	57	53	52	47	41	32	78	58
	Heating Full	74	60	55	53	51	46	40	33	75	56
	Cooling Part	76	59	61	50	49	43	36	31	77	57
	Heating Part	75	63	57	50	48	43	36	32	75	55
	FAN Only	61	52	47	45	42	37	28	24	61	47
42-HZ	Cooling Full	86	63	60	55	53	49	45	37	86	62
	Heating Full	84	62	65	55	51	46	41	32	84	62
	Cooling Part	84	60	62	54	48	44	39	30	84	61
	Heating Part	84	62	65	54	47	42	37	30	84	61
	FAN Only	61	51	50	46	41	36	30	23	62	47
48-HZ	Cooling Full	74	70	61	56	54	50	49	38	76	61
	Heating Full	74	69	62	56	53	49	45	36	75	60
	Cooling Part	73	63	60	53	49	46	42	32	74	57
	Heating Part	73	66	64	54	49	44	39	30	74	59
	FAN Only	62	53	51	48	44	42	35	26	63	50
60-HZ	Cooling Full	83	72	64	58	56	50	45	37	83	63
	Heating Full	86	69	64	58	55	49	44	37	86	63
	Cooling Part	82	69	60	56	51	46	41	34	83	61
	Heating Part	86	65	65	56	49	43	37	31	86	62
	FAN Only	65	53	50	47	42	36	31	25	65	49

DUCTED DISCHARGE SOUND DATA

Ducted Discharge Sound Power											
Model	LOAD	Octave Band Sound Power Levels dB, re 10-12 Watts									
		Center Frequency - Hz								Overall	Overall AHRI-260:2017 (63Hz-8kHz) (dBA)
		63	125	250	500	1000	2000	4000	8000		
24-VT	Cooling Full	79	65	66	68	63	60	58	50	80	70
	Heating Full	79	65	66	68	62	59	57	48	80	69
	Cooling Part	77	62	62	63	58	54	51	41	78	64
	Heating Part	78	64	61	65	57	53	49	39	79	64
	FAN Only	72	60	59	61	55	51	47	38	73	61
30-VT	Cooling Full	79	68	69	67	65	62	60	52	80	70
	Heating Full	78	68	68	66	64	61	59	51	79	69
	Cooling Part	79	66	63	62	61	57	54	44	79	66
	Heating Part	78	64	62	62	60	56	52	42	78	65
	FAN Only	70	62	60	59	57	53	49	39	71	62
36-VT	Cooling Full	80	67	68	68	67	65	64	58	81	72
	Heating Full	80	68	65	66	65	62	61	54	81	70
	Cooling Part	78	64	63	63	61	59	57	49	79	67
	Heating Part	78	64	61	63	61	57	55	47	79	66
	FAN Only	70	65	60	62	59	56	53	45	72	64
42-VT	Cooling Full	78	70	70	72	69	65	66	60	81	74
	Heating Full	78	70	69	71	67	64	64	58	80	73
	Cooling Part	76	66	66	67	63	60	60	52	78	69
	Heating Part	76	65	65	66	62	59	59	51	78	68
	FAN Only	71	63	63	63	60	57	55	47	73	65
48-VT	Cooling Full	80	72	72	73	72	69	69	64	82	77
	Heating Full	79	70	72	73	72	69	69	63	82	77
	Cooling Part	77	68	66	68	65	63	62	55	79	71
	Heating Part	79	66	66	68	65	62	62	55	80	71
	FAN Only	73	67	65	66	63	60	59	52	75	68
60-VT	Cooling Full	83	79	73	71	71	70	69	63	85	77
	Heating Full	81	77	73	71	71	70	70	64	84	77
	Cooling Part	78	73	68	66	65	63	62	55	80	71
	Heating Part	81	70	68	67	65	63	62	55	82	71
	FAN Only	73	68	65	62	62	60	58	51	75	67

DUCTED DISCHARGE SOUND DATA (Continued)

Ducted Discharge Sound Power											
Model	LOAD	Octave Band Sound Power Levels dB, re 10-12 Watts									
		Center Frequency - Hz								Overall	Overall AHRI-260:2017 (63Hz-8kHz) (dBA)
		63	125	250	500	1000	2000	4000	8000		
24-HZ	Cooling Full	77	65	66	67	64	62	59	52	79	69
	Heating Full	78	67	65	66	62	60	58	49	79	68
	Cooling Part	75	61	61	62	58	55	52	42	75	63
	Heating Part	76	64	62	62	56	53	50	39	76	63
	FAN Only	67	57	59	59	55	52	48	36	69	60
30-HZ	Cooling Full	77	67	66	66	65	62	60	53	78	70
	Heating Full	81	68	62	63	62	59	56	49	81	67
	Cooling Part	76	64	62	62	59	57	53	45	77	64
	Heating Part	80	62	59	60	58	54	50	43	80	63
	FAN Only	67	56	56	57	54	50	45	34	68	58
36-HZ	Cooling Full	78	70	70	70	70	67	66	60	80	75
	Heating Full	77	67	66	66	66	64	62	56	79	71
	Cooling Part	77	66	65	65	63	61	59	51	78	69
	Heating Part	75	65	62	63	61	58	56	49	76	66
	FAN Only	69	62	61	61	60	57	55	46	71	65
42-HZ	Cooling Full	79	72	72	71	71	68	68	61	82	76
	Heating Full	81	71	70	71	69	67	66	60	82	74
	Cooling Part	79	68	68	69	66	64	63	55	80	72
	Heating Part	81	66	66	66	64	62	60	52	82	69
	FAN Only	69	65	64	65	62	60	57	48	73	67
48-HZ	Cooling Full	79	73	72	73	73	71	70	65	82	78
	Heating Full	78	72	71	72	72	69	69	63	81	77
	Cooling Part	77	67	66	70	67	65	64	57	79	72
	Heating Part	79	68	66	68	66	64	63	55	80	71
	FAN Only	71	65	64	66	64	62	60	53	74	69
60-HZ	Cooling Full	83	77	76	73	74	72	71	65	86	79
	Heating Full	85	76	75	72	73	71	70	65	86	78
	Cooling Part	80	72	70	68	67	66	64	56	81	73
	Heating Part	79	70	68	67	65	63	62	55	80	71
	FAN Only	73	66	64	62	61	60	57	50	75	67

AHRI RATINGS (13256-1)

GBA with ECM Constant Airflow				Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump				CFM	Rated ESP VT (in wc)	Rated ESP HZ (in wc)	GPM
												FL Cooling 77 deg.F		FL Heating 32 deg.F					
				Cooling 86 deg.F		Heating 68 deg.F		Cooling 59 deg.F		Heating 50 deg.F		PL Cooling 68 deg.F		PL Heating 41 deg.F					
Series	Water Coil Option	Model Size	Load	Capacity BTU/h	EER BTU/W-h	Capacity BTU/h	COP	Capacity BTU/h	EER BTU/W-h	Capacity BTU/h	COP	Capacity BTU/h	EER BTU/W-h	Capacity BTU/h	COP				
GBA	Copper	018	Full	19,000	15.5	21,300	5.0	21,300	24.0	18,000	4.4	20,000	18.0	14,200	3.6	600	0.5	0.5	4.75
	Copper	024	Full	24,000	15.5	28,000	5.0	26,000	23.0	23,000	4.0	25,000	17.0	18,000	3.7	800	0.5	0.5	6.0
			Part	17,400	17.0	19,400	5.5	19,000	27.0	16,000	4.5	18,600	24.0	14,000	4.1	600	0.5	0.5	6.0
	Copper	030	Full	30,000	15.0	34,000	5.0	32,000	22.0	28,000	4.0	31,000	16.5	23,400	3.7	950	0.5	0.5	7.5
			Part	21,000	16.5	24,000	5.5	23,000	27.0	20,000	4.5	22,000	23.0	17,000	4.1	750	0.5	0.5	7.5
	Copper	036	Full	36,000	15.0	42,000	5.0	40,000	21.0	35,400	4.2	38,000	16.5	28,000	3.7	1,200	0.5	0.5	9.0
			Part	25,000	16.5	30,000	5.5	28,000	27.0	24,000	4.5	27,000	23.0	20,400	4.1	900	0.5	0.5	9.0
	Copper	042	Full	42,000	15.0	50,000	5.0	45,000	21.0	40,000	4.2	43,000	16.5	32,000	3.7	1,400	0.5	0.5	10.5
			Part	30,000	16.5	36,000	5.5	33,000	26.0	28,000	4.6	32,000	22.5	24,000	4.1	1,120	0.5	0.5	10.5
	ACopper	048	Full	48,000	15.0	58,000	5.0	52,000	21.0	48,000	4.2	49,000	16.5	38,000	3.7	1,600	0.5	0.5	12.0
			Part	34,000	16.5	40,000	5.5	38,000	27.0	32,000	4.6	36,000	23.0	28,000	4.1	1,200	0.5	0.5	12.0
	Copper	060	Full	60,000	14.5	69,000	5.0	67,000	20.0	60,000	4.2	62,000	16.0	47,000	3.7	2,000	0.6	0.6	15.0
Part			42,000	16.0	48,000	5.5	48,000	26.5	40,000	4.6	45,000	22.0	35,000	4.1	1,500	0.6	0.6	15.0	
GBA	Cu-Ni	018	Full	19,000	15.5	21,300	5.0	21,000	24.0	17,700	4.4	19,700	18.0	14,200	3.6	600	0.5	0.5	4.75
	Cu-Ni	024	Full	24,000	15.5	28,000	5.0	26,000	23.0	23,000	4.0	25,000	17.0	18,000	3.7	800	0.5	0.5	6.0
			Part	17,400	17.0	19,400	5.5	19,000	27.0	16,000	4.5	18,600	24.0	14,000	4.1	600	0.5	0.5	6.0
	Cu-Ni	030	Full	30,000	15.0	34,000	5.0	32,000	21.5	28,000	4.0	31,000	16.5	23,400	3.7	950	0.5	0.5	7.5
			Part	21,000	16.5	24,000	5.5	23,000	27.0	20,000	4.5	22,000	23.0	17,000	4.1	750	0.5	0.5	7.5
	Cu-Ni	036	Full	36,000	15.0	42,000	5.0	40,000	21.0	35,000	4.2	38,000	16.5	28,000	3.7	1,200	0.5	0.5	9.0
			Part	25,000	16.5	30,000	5.5	28,000	27.0	24,000	4.5	27,000	22.8	20,400	4.1	900	0.5	0.5	9.0
	Cu-Ni	042	Full	42,000	15.0	50,000	5.0	45,000	21.0	40,000	4.2	43,000	16.5	32,000	3.7	1,400	0.5	0.5	10.5
			Part	30,000	16.5	36,000	5.5	33,000	26.0	28,000	4.6	32,000	22.5	24,000	4.1	1,120	0.5	0.5	10.5
	Cu-Ni	048	Full	48,000	15.0	58,000	5.0	52,000	21.0	48,000	4.2	49,000	16.5	38,000	3.7	1,600	0.5	0.5	12.0
			Part	34,000	16.5	40,000	5.5	38,000	27.0	32,000	4.6	36,000	23.0	28,000	4.1	1,200	0.5	0.5	12.0
	Cu-Ni	060	Full	60,000	14.5	69,000	5.0	66,500	20.0	58,500	4.2	62,000	16.0	46,000	3.7	2,000	0.6	0.6	15.0
Part			42,000	15.8	48,000	5.5	48,000	26.5	40,000	4.6	45,000	22.0	35,000	4.1	1,500	0.6	0.6	15.0	

Notes:
GLHP ratings require an extended range option
Ratings based upon AHRI/ANSI 13256-1 with 1" disposable Merv 5 filter

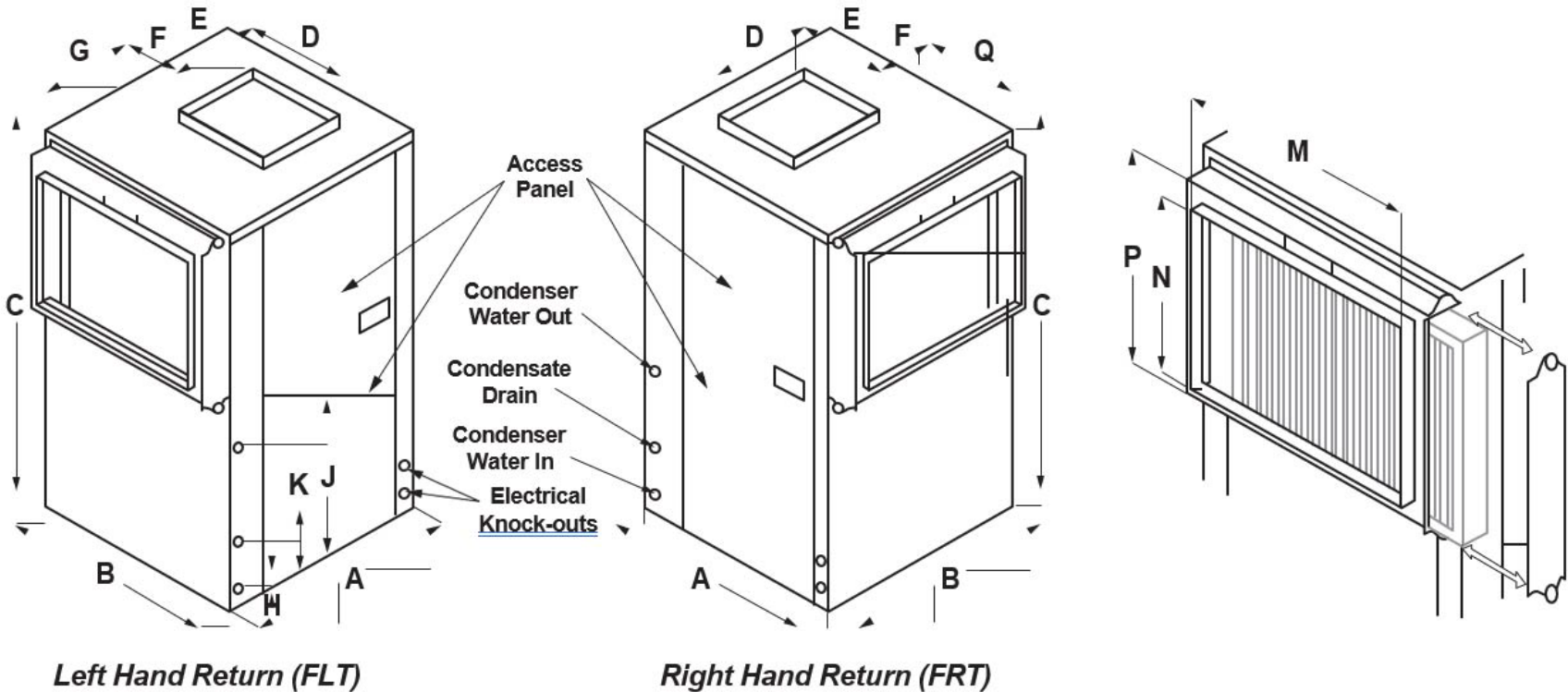
NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

BLOWER PERFORMANCE

Model	Model Size	Fan Speed	Default factory motor setting	CFM											
				0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
Horizontal / Vertical	018	A -		510	510	510	510	510	510	510	510				
		A Norm	x	600	600	600	600	600	600	600	600				
		A +		700	700	700	700	700	700	700	700				
	024	A -		680	680	680	680	680	680	680	680				
		A Norm (Full)	x	800	800	800	800	800	800	800	800				
		A +		920	920	920	920	920	920	920	920				
		A -		510	510	510	510	510	510	510	510				
		A Norm (Part)	x	600	600	600	600	600	600	600	600				
		A +		690	690	690	690	690	690	690	690				
	030	A -		810	810	810	810	810	810	810	810				
		A Norm (Full)	x	950	950	950	950	950	950	950	950				
		A +		1095	1095	1095	1095	1095	1095	1095	1095				
		A -		610	610	610	610	610	610	610	610				
		A Norm (Part)	x	720	720	720	720	720	720	720	720				
		A +		830	830	830	830	830	830	830	830				
	036	A -		1020	1020	1020	1020	1020	1020	1020	1020	1020	1020		
		A Norm (Full)	x	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200		
		A +		1380	1380	1380	1380	1380	1380	1380	1380	1380	1380		
		A -		765	765	765	765	765	765	765	765	765	765		
		A Norm (Part)	x	900	900	900	900	900	900	900	900	900	900		
		A +		1035	1035	1035	1035	1035	1035	1035	1035	1035	1035		
	042	A -		1190	1190	1190	1190	1190	1190	1190	1190	1190	1190		
		A Norm (Full)	x	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400		
		A +		1610	1610	1610	1610	1610	1610	1610	1610	1610	1610		
		A -		950	950	950	950	950	950	950	950	950	950		
		A Norm (Part)	x	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120		
		A +		1290	1290	1290	1290	1290	1290	1290	1290	1290	1290		
	048	A -		1360	1360	1360	1360	1360	1360	1360	1360	1360	1360		
		A Norm (Full)	x	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600		
		A +		1840	1840	1840	1840	1840	1840	1840	1840	1840	1840		
		A -		1020	1020	1020	1020	1020	1020	1020	1020	1020	1020		
		A Norm (Part)	x	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200		
		A +		1380	1380	1380	1380	1380	1380	1380	1380	1380	1380		
	060	A -		1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
		A Norm (Full)	x	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
		A +		2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300
		A -		1275	1275	1275	1275	1275	1275	1275	1275	1275	1275	1275	1275
		A Norm (Part)	x	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
		A +		1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725

DIMENSIONS

Model	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	Condenser Water Connections	Recommended Replacement Nominal Filter Size	Condensate drain connection
	Width	Depth	Height	Discharge Depth	Discharge Width	Cabinet Edge to Discharge	Cabinet Edge to Discharge (Left Hand Return)	Water Inlet	Water Outlet	Condensate Drain	R/A Duct Width	R/A Duct Flange Height	Filter Rack Height	Cabinet Edge to Discharge (Right Hand Return)			
GBA18	21.50	21.50	39.00	9.50	9.25	4.25	6.25	3.25	8.50	5.84	18.00	20.11	22.25	6.25	3/4"FPT	18 x 22	3/4"FPT
GBA24	21.50	21.50	39.00	9.50	9.25	4.25	6.25	3.25	8.50	5.84	18.00	20.11	22.25	6.25	3/4"FPT	18 x 22	3/4"FPT
GBA30	21.50	21.50	39.00	10.50	9.75	4.25	6.25	3.25	8.50	5.84	16.25	19.50	22.25	6.25	3/4"FPT	19 x 27	3/4"FPT
GBA36	21.50	26.00	44.00	10.50	9.75	5.75	5.50	3.25	8.50	5.75	24.00	28.00	30.00	6.00	3/4"FPT	24 x 30	3/4"FPT
GBA42	24.00	26.00	44.00	10.50	10.50	5.00	6.75	3.25	8.50	5.75	23.75	28.25	31.25	6.75	3/4"FPT	24 x 30	3/4"FPT
GBA48	24.00	26.00	44.00	10.50	10.50	5.00	6.75	3.25	8.50	5.75	23.75	28.25	31.25	6.75	1"FPT	24 x 30	3/4"FPT
GBA60	24.00	33.00	51.00	12.50	11.75	9.00	6.25	3.00	5.80	5.75	27.25	38.25	41.00	6.25	1"FPT	18x30 (2)	3/4"FPT



COOLING PERFORMANCE

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
GBA18 Cooling PERFORMANCE - 600 cfm									
50	2.3	1.1	2.5	75/63	20.6	15.8	23.2	0.9	22.2
				80/67	21.8	16.3	24.4	0.9	23.3
				85/71	23.4	16.4	26.0	0.9	24.8
	3.4	2.2	5.1	75/63	21.7	16.0	24.0	0.8	25.7
				80/67	23.0	16.4	25.4	0.8	27.3
				85/71	24.4	16.8	26.8	0.8	29.1
	4.8	4.0	9.2	75/63	22.2	16.2	24.3	0.8	28.1
				80/67	23.6	16.6	25.8	0.8	30.2
				85/71	25.1	17.0	27.3	0.8	32.4
60	2.3	1.1	2.5	75/63	19.9	15.1	22.6	1.0	19.4
				80/67	20.9	15.9	23.8	1.0	20.2
				85/71	22.0	16.4	25.0	1.0	21.1
	3.4	2.2	5.1	75/63	20.5	15.8	23.1	0.9	21.8
				80/67	21.7	16.3	24.4	0.9	23.0
				85/71	23.4	16.4	26.0	0.9	24.7
	4.8	4.0	9.2	75/63	21.0	16.0	23.4	0.9	23.6
				80/67	22.6	16.2	25.1	0.9	25.5
				85/71	24.0	16.6	26.5	0.9	27.3
70	2.3	1.1	2.5	75/63	18.8	14.9	21.8	1.1	16.9
				80/67	19.8	15.5	22.9	1.1	17.5
				85/71	21.7	14.6	24.6	1.2	18.8
	3.4	2.2	5.1	75/63	19.7	15.0	22.5	1.0	19.0
				80/67	20.6	15.8	23.6	1.0	19.8
				85/71	22.5	15.3	25.3	1.1	21.4
	4.8	4.0	9.2	75/63	20.2	15.3	22.8	1.0	20.4
				80/67	21.3	16.1	24.1	1.0	21.5
				85/71	23.0	16.2	25.7	1.0	23.2
80	2.3	1.1	2.5	75/63	18.0	14.4	21.2	1.2	14.8
				80/67	19.0	15.0	22.3	1.2	15.3
				85/71	18.9	15.3	22.7	1.2	15.2
	3.4	2.2	5.1	75/63	18.7	14.7	21.7	1.1	16.5
				80/67	19.9	15.1	23.0	1.2	17.3
				85/71	20.7	16.0	24.1	1.2	17.9
	4.8	3.9	9.0	75/63	19.1	15.0	22.0	1.1	17.6
				80/67	20.1	15.7	23.2	1.1	18.4
				85/71	22.2	14.8	25.0	1.1	20.1
90	2.3	1.1	2.5	75/63	17.0	14.0	20.5	1.3	12.9
				80/67	18.8	12.5	22.0	1.4	13.8
				85/71	17.9	15.0	22.0	1.4	13.2
	3.4	2.1	4.8	75/63	17.8	14.3	21.0	1.2	14.3
				80/67	19.4	13.5	22.5	1.3	15.3
				85/71	18.8	15.3	22.6	1.3	14.9
	4.8	3.9	9.0	75/63	18.2	14.5	21.3	1.2	15.3
				80/67	19.3	15.1	22.5	1.2	16.0
				85/71	20.1	15.7	23.6	1.2	16.6
100	2.3	1.0	2.3	75/63	15.6	13.8	19.5	1.4	10.9
				80/67	16.2	14.2	20.4	1.5	11.2
				85/71	16.9	14.6	21.4	1.5	11.5
	3.4	2.1	4.8	75/63	16.6	14.2	20.1	1.4	12.2
				80/67	17.0	14.5	20.9	1.4	12.4
				85/71	17.7	14.9	21.9	1.4	12.8
	4.8	3.8	8.8	75/63	17.1	14.2	20.5	1.3	13.1
				80/67	18.6	14.0	22.0	1.3	14.0
				85/71	20.4	12.3	23.5	1.3	15.1

COOLING PERFORMANCE (Continued)

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
110	2.3	1.0	2.3	75/63	14.7	13.4	18.9	1.6	9.5
				80/67	16.7	11.8	20.6	1.6	10.4
				85/71	N/A	N/A	N/A	N/A	N/A
	3.4	2.1	4.8	75/63	16.1	12.6	19.8	1.5	10.9
				80/67	16.1	14.1	20.3	1.5	10.8
				85/71	16.7	14.6	21.2	1.5	11.1
	4.8	3.8	8.8	75/63	16.1	13.8	19.8	1.4	11.3
				80/67	18.0	12.1	21.4	1.5	12.3
				85/71	17.3	14.8	21.6	1.5	11.9

COOLING PERFORMANCE (Continued)

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H ₂ O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
GBA24 Cooling PERFORMANCE - 800 cfm									
50	3	1.4	3.2	75/63	26.1	20.3	29.4	1.1	23.0
				80/67	28.0	20.7	31.3	1.2	24.3
				85/71	30.0	20.7	33.3	1.2	25.6
	4.5	2.9	6.7	75/63	27.2	20.5	30.2	1.0	26.3
				80/67	29.2	20.7	32.2	1.0	28.0
				85/71	31.0	21.6	34.1	1.1	29.5
	6	4.9	11.3	75/63	27.6	20.7	30.5	1.0	28.2
				80/67	29.6	21.4	32.5	1.0	30.1
				85/71	31.5	21.9	34.4	1.0	31.9
60	3	1.4	3.2	75/63	25.2	19.6	28.8	1.3	20.0
				80/67	26.7	20.5	30.4	1.3	20.9
				85/71	28.1	21.4	32.0	1.3	21.7
	4.5	2.9	6.7	75/63	26.0	20.2	29.3	1.2	22.4
				80/67	27.5	21.1	31.0	1.2	23.5
				85/71	30.0	20.7	33.3	1.2	25.3
	6	4.8	11.1	75/63	26.6	20.2	29.8	1.1	24.0
				80/67	28.6	20.5	31.8	1.1	25.7
				85/71	30.0	21.7	33.3	1.1	26.9
70	3	1.4	3.2	75/63	24.0	19.4	28.0	1.4	17.2
				80/67	26.0	19.2	29.9	1.4	18.3
				85/71	26.7	21.0	31.1	1.4	18.6
	4.5	2.9	6.7	75/63	25.0	19.5	28.7	1.3	19.4
				80/67	26.5	20.4	30.3	1.3	20.3
				85/71	28.0	21.4	32.0	1.3	21.3
	6	4.8	11.1	75/63	25.4	19.7	28.9	1.2	20.5
				80/67	27.2	20.4	30.8	1.2	21.8
				85/71	28.6	21.6	32.3	1.3	22.8
80	3	1.4	3.2	75/63	23.4	18.2	27.6	1.6	15.1
				80/67	24.1	19.8	28.7	1.6	15.4
				85/71	25.3	20.5	30.1	1.6	15.9
	4.5	2.8	6.5	75/63	23.8	19.3	27.8	1.4	16.6
				80/67	25.8	19.1	29.8	1.5	17.8
				85/71	27.1	20.3	31.3	1.5	18.5
	6	4.7	10.9	75/63	24.2	19.4	28.1	1.4	17.5
				80/67	26.0	19.8	29.9	1.4	18.7
				85/71	27.1	21.1	31.3	1.4	19.4
90	3	1.4	3.2	75/63	21.8	18.5	26.6	1.7	12.8
				80/67	24.4	16.2	28.8	1.8	13.9
				85/71	23.0	19.7	28.6	1.7	13.2
	4.5	2.8	6.5	75/63	22.8	18.6	27.2	1.6	14.3
				80/67	24.2	19.2	28.8	1.6	15.0
				85/71	25.1	20.4	30.0	1.6	15.5
	6	4.7	10.9	75/63	23.4	18.3	27.6	1.5	15.3
				80/67	24.6	19.7	29.0	1.5	15.9
				85/71	25.6	20.5	30.3	1.6	16.5
100	3	1.3	3.0	75/63	21.5	16.3	26.5	1.9	11.2
				80/67	20.7	18.6	26.6	1.9	10.9
				85/71	21.8	19.3	28.0	1.9	11.4
	4.5	2.8	6.5	75/63	21.3	18.5	26.3	1.8	12.0
				80/67	21.6	18.9	27.0	1.8	12.1
				85/71	22.5	19.5	28.3	1.8	12.6
	6	4.6	10.6	75/63	21.8	18.5	26.6	1.7	12.8
				80/67	22.8	19.4	27.9	1.7	13.3
				85/71	23.1	19.7	28.7	1.7	13.4

COOLING PERFORMANCE (Continued)

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
110	3	1.3	3.0	75/63	18.7	17.5	24.9	2.1	9.0
				80/67	22.1	15.3	27.6	2.1	10.3
				85/71	21.0	19.0	27.7	2.1	9.8
	4.5	2.7	6.2	75/63	21.4	15.3	26.4	2.0	10.7
				80/67	20.7	18.6	26.6	2.0	10.5
				85/71	21.6	19.2	27.9	2.0	10.9
	6	4.5	10.4	75/63	21.4	16.3	26.4	1.9	11.2
				80/67	20.9	18.7	26.8	1.9	11.0
				85/71	22.2	19.4	28.2	1.9	11.6

COOLING PERFORMANCE (Continued)

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
GBA30 Cooling PERFORMANCE - 1000 cfm									
50	7	6.4	14.8	75/63	35.3	25.5	39.9	1.6	22.7
				80/67	37.7	26.2	42.4	1.5	24.6
				85/71	40.2	26.9	44.8	1.5	26.6
	7.5	7.3	16.9	75/63	35.4	25.6	40.1	1.5	22.9
				80/67	37.9	26.2	42.5	1.5	24.8
				85/71	40.4	26.9	45.0	1.5	26.9
	8	8.2	18.9	75/63	35.5	25.7	40.2	1.5	23.1
				80/67	38.0	26.3	42.6	1.5	25.0
				85/71	40.6	27.0	45.1	1.5	27.1
60	7	6.4	14.8	75/63	33.8	25.0	38.7	1.6	20.6
				80/67	36.2	25.6	41.1	1.6	22.2
				85/71	38.6	26.2	43.5	1.6	24.0
	7.5	7.2	16.6	75/63	34.0	25.0	38.8	1.6	20.8
				80/67	36.3	25.7	41.2	1.6	22.5
				85/71	38.8	26.3	43.6	1.6	24.3
	8	8.1	18.7	75/63	34.1	25.0	38.9	1.6	21.0
				80/67	36.5	25.8	41.3	1.6	22.7
				85/71	39.0	26.3	43.8	1.6	24.6
70	7	6.3	14.5	75/63	32.4	24.2	37.6	1.8	18.3
				80/67	34.6	24.9	39.9	1.8	19.6
				85/71	37.0	25.6	42.2	1.7	21.1
	7.5	7.1	16.4	75/63	32.5	24.3	37.7	1.8	18.5
				80/67	34.8	25.0	40.0	1.7	19.9
				85/71	37.1	25.6	42.3	1.7	21.4
	8	8.0	18.5	75/63	32.7	24.3	37.8	1.7	18.7
				80/67	34.9	25.0	40.1	1.7	20.1
				85/71	37.3	25.7	42.4	1.7	21.7
80	7	6.2	14.3	75/63	30.9	23.5	36.5	1.9	15.9
				80/67	33.0	24.3	38.7	1.9	17.1
				85/71	35.3	24.9	41.0	1.9	18.3
	7.5	7.0	16.2	75/63	31.0	23.6	36.6	1.9	16.1
				80/67	33.2	24.3	38.8	1.9	17.3
				85/71	35.5	25.0	41.1	1.9	18.6
	8	7.9	18.2	75/63	31.1	23.8	36.7	1.9	16.3
				80/67	33.3	24.4	38.9	1.9	17.5
				85/71	35.6	25.0	41.2	1.9	18.9
90	7	6.1	14.1	75/63	29.3	23.0	35.5	2.1	13.7
				80/67	31.4	23.6	37.7	2.1	14.7
				85/71	33.5	24.5	39.8	2.1	15.7
	7.5	6.9	15.9	75/63	29.4	23.1	35.6	2.1	13.9
				80/67	31.6	23.7	37.8	2.1	14.9
				85/71	33.7	24.4	39.9	2.1	16.0
	8	7.8	18.0	75/63	29.5	23.1	35.7	2.1	14.0
				80/67	31.6	23.9	37.8	2.1	15.1
				85/71	33.9	24.4	40.0	2.1	16.2
100	7	6.1	14.1	75/63	27.8	22.2	34.6	2.4	11.7
				80/67	29.7	23.0	36.7	2.4	12.5
				85/71	31.8	23.7	38.8	2.4	13.4
	7.5	6.8	15.7	75/63	27.9	22.3	34.7	2.4	11.8
				80/67	29.9	23.0	36.7	2.4	12.7
				85/71	31.9	23.9	38.8	2.3	13.6
	8	7.7	17.8	75/63	28.0	22.3	34.8	2.3	12.0
				80/67	30.0	23.1	36.8	2.3	12.8
				85/71	32.0	24.0	38.9	2.3	13.8

COOLING PERFORMANCE (Continued)

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
110	7	6.0	13.9	75/63	26.1	21.7	33.7	2.6	9.9
				80/67	28.0	22.3	35.7	2.6	10.6
				85/71	29.9	23.0	37.7	2.6	11.3
	7.5	6.8	15.7	75/63	26.2	21.7	33.8	2.6	10.0
				80/67	28.1	22.4	35.8	2.6	10.7
				85/71	30.0	23.3	37.8	2.6	11.5
	8	7.6	17.5	75/63	26.3	21.8	33.8	2.6	10.1
				80/67	28.2	22.4	35.8	2.6	10.9
				85/71	30.2	23.3	37.8	2.6	11.6

COOLING PERFORMANCE (Continued)

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
GBA36 Cooling PERFORMANCE - 1200 cfm									
50	8.5	9.1	21.0	75/63	42.2	31.3	47.4	1.7	25.0
				80/67	45.1	32.4	50.4	1.7	26.6
				85/71	48.1	33.1	53.5	1.7	28.1
	9	10.1	23.3	75/63	42.3	31.3	47.4	1.7	25.2
				80/67	45.3	32.3	50.5	1.7	26.9
				85/71	48.3	33.2	53.6	1.7	28.4
	9.5	11.1	25.6	75/63	42.4	31.4	47.5	1.7	25.5
				80/67	45.4	32.3	50.6	1.7	27.1
				85/71	48.3	33.5	53.7	1.7	28.7
60	8.5	9.0	20.8	75/63	40.5	30.6	46.1	1.9	21.8
				80/67	43.4	31.5	49.1	1.9	23.3
				85/71	46.4	32.4	52.2	1.9	24.7
	9	9.9	22.9	75/63	40.6	30.7	46.2	1.8	22.1
				80/67	43.5	31.6	49.2	1.8	23.5
				85/71	46.5	32.6	52.3	1.9	25.1
	9.5	10.9	25.2	75/63	40.6	31.0	46.2	1.8	22.3
				80/67	43.6	31.7	49.3	1.8	23.8
				85/71	46.7	32.5	52.4	1.8	25.3
70	8.5	8.9	20.5	75/63	38.7	30.2	44.9	2.0	19.1
				80/67	41.5	30.7	47.7	2.0	20.4
				85/71	44.4	31.7	50.7	2.0	21.7
	9	9.8	22.6	75/63	39.0	29.9	45.1	2.0	19.3
				80/67	41.6	31.2	47.8	2.0	20.6
				85/71	44.6	31.7	50.9	2.0	21.9
	9.5	10.8	24.9	75/63	39.1	30.0	45.2	2.0	19.5
				80/67	41.7	31.3	47.9	2.0	20.8
				85/71	44.8	31.8	51.0	2.0	22.2
80	8.5	8.8	20.3	75/63	37.2	29.1	43.9	2.2	16.6
				80/67	39.6	30.4	46.4	2.2	17.7
				85/71	42.5	31.0	49.4	2.2	18.9
	9	9.7	22.4	75/63	37.3	29.1	44.0	2.2	16.8
				80/67	39.7	30.5	46.5	2.2	17.9
				85/71	42.6	31.0	49.5	2.2	19.1
	9.5	10.7	24.7	75/63	37.4	29.2	44.0	2.2	17.0
				80/67	39.8	30.5	46.6	2.2	18.1
				85/71	42.8	31.1	49.5	2.2	19.3
90	8.5	8.6	19.9	75/63	35.4	28.3	42.8	2.5	14.3
				80/67	37.7	29.6	45.2	2.5	15.3
				85/71	40.4	30.7	48.0	2.5	16.3
	9	9.6	22.2	75/63	35.5	28.4	42.8	2.5	14.5
				80/67	38.2	29.1	45.5	2.5	15.6
				85/71	40.6	30.4	48.1	2.5	16.5
	9.5	10.5	24.2	75/63	35.6	28.4	42.9	2.4	14.6
				80/67	38.2	29.6	45.6	2.4	15.7
				85/71	40.2	31.4	47.9	2.4	16.5
100	8.5	8.5	19.6	75/63	33.6	27.6	41.8	2.7	12.3
				80/67	35.8	29.0	44.1	2.7	13.0
				85/71	35.6	29.9	45.0	2.7	13.0
	9	9.5	21.9	75/63	33.7	27.6	41.8	2.7	12.4
				80/67	36.2	28.8	44.4	2.7	13.3
				85/71	35.8	29.9	45.0	2.7	13.2
	9.5	10.4	24.0	75/63	33.8	27.8	41.9	2.7	12.5
				80/67	36.3	28.8	44.4	2.7	13.4
				85/71	35.2	29.7	44.6	2.7	13.1

COOLING PERFORMANCE (Continued)

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H ₂ O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
1110	8.5	8.4	19.4	75/63	32.1	26.3	41.1	3.1	10.5
				80/67	35.7	23.4	44.1	3.1	11.6
				85/71	33.3	29.1	43.8	3.1	10.9
	9	9.3	21.5	75/63	32.2	26.3	41.1	3.0	10.6
				80/67	33.9	28.6	43.2	3.0	11.1
				85/71	33.4	29.1	43.8	3.0	11.0
	9.5	10.3	23.8	75/63	31.7	27.5	40.8	3.0	10.5
				80/67	33.6	28.8	43.0	3.0	11.1
				85/71	33.5	29.2	43.8	3.0	11.1

COOLING PERFORMANCE (Continued)

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
GBA42 Cooling PERFORMANCE - 1400 cfm									
50	10	10.8	24.9	75/63	47.9	36.1	54.0	2.0	23.8
				80/67	51.3	36.8	57.5	2.0	25.1
				85/71	54.8	38.0	61.1	2.1	26.6
	10.5	11.8	27.2	75/63	48.0	36.1	54.1	2.0	24.0
				80/67	51.4	36.9	57.6	2.0	25.3
				85/71	54.9	38.2	61.2	2.0	26.9
	11	12.8	29.6	75/63	48.1	36.2	54.2	2.0	24.1
				80/67	51.5	37.2	57.7	2.0	25.6
				85/71	55.0	38.2	61.3	2.0	27.1
60	10	10.7	24.7	75/63	46.3	34.8	52.9	2.2	20.9
				80/67	49.3	36.2	56.1	2.2	22.1
				85/71	52.7	37.3	59.6	2.2	23.5
	10.5	11.7	27.0	75/63	46.0	35.4	52.7	2.2	20.9
				80/67	49.4	36.2	56.1	2.2	22.3
				85/71	52.9	37.4	59.7	2.2	23.7
	11	12.7	29.3	75/63	46.4	35.1	53.0	2.2	21.2
				80/67	49.5	36.4	56.2	2.2	22.5
				85/71	53.0	37.4	59.8	2.2	23.9
70	10	10.6	24.5	75/63	44.3	34.2	51.6	2.4	18.2
				80/67	47.3	35.5	54.6	2.4	19.3
				85/71	50.6	36.4	58.1	2.5	20.5
	10.5	11.5	26.6	75/63	44.4	34.4	51.7	2.4	18.3
				80/67	47.3	35.8	54.7	2.4	19.4
				85/71	50.7	36.5	58.2	2.4	20.7
	11	12.5	28.9	75/63	44.5	34.3	51.7	2.4	18.5
				80/67	47.8	35.1	55.0	2.4	19.7
				85/71	50.9	36.5	58.2	2.4	20.9
80	10	10.4	24.0	75/63	42.4	33.5	50.3	2.7	15.8
				80/67	45.4	34.5	53.5	2.7	16.8
				85/71	48.4	35.8	56.6	2.7	17.9
	10.5	11.4	26.3	75/63	42.5	33.5	50.4	2.7	15.9
				80/67	45.5	34.7	53.5	2.7	17.0
				85/71	48.8	35.4	56.9	2.7	18.1
	11	12.4	28.6	75/63	42.6	33.5	50.5	2.7	16.0
				80/67	45.6	34.7	53.6	2.7	17.1
				85/71	48.9	35.4	57.0	2.7	18.3
90	10	10.3	23.8	75/63	40.4	32.6	49.2	3.0	13.6
				80/67	43.3	33.9	52.2	3.0	14.5
				85/71	45.6	36.1	54.9	3.0	15.3
	10.5	11.2	25.9	75/63	40.5	32.7	49.2	3.0	13.7
				80/67	43.4	33.8	52.3	3.0	14.6
				85/71	45.7	36.1	54.9	3.0	15.4
	11	12.2	28.2	75/63	40.6	32.9	49.2	2.9	13.8
				80/67	43.5	33.9	52.3	2.9	14.8
				85/71	45.8	36.1	55.0	3.0	15.5
100	10	10.2	23.6	75/63	38.0	32.4	47.9	3.3	11.6
				80/67	41.2	33.1	51.0	3.3	12.4
				85/71	46.9	25.1	55.3	3.4	13.9
	10.5	11.1	25.6	75/63	38.9	31.2	48.4	3.3	11.8
				80/67	41.3	33.0	51.1	3.3	12.6
				85/71	47.0	25.1	55.3	3.3	14.0
	11	12.0	27.7	75/63	38.9	31.3	48.4	3.3	11.9
				80/67	41.4	33.0	51.1	3.3	12.7
				85/71	47.1	25.2	55.4	3.3	14.1

COOLING PERFORMANCE (Continued)

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H ₂ O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
110	10	10.0	23.1	75/63	36.0	31.6	46.9	3.7	9.8
				80/67	35.9	32.4	47.8	3.7	9.8
				85/71	38.0	33.7	50.4	3.7	10.3
	10.5	10.9	25.2	75/63	36.1	31.6	47.0	3.6	9.9
				80/67	36.0	32.4	47.8	3.6	9.9
				85/71	38.1	33.7	50.4	3.7	10.4
	11	11.9	27.5	75/63	35.8	31.9	46.8	3.6	9.9
				80/67	36.0	32.4	47.9	3.6	9.9
				85/71	38.5	33.8	50.6	3.6	10.6

COOLING PERFORMANCE (Continued)

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H ₂ O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
GBA48 Cooling PERFORMANCE - 1600 cfm									
50	11.5	6.7	15.5	75/63	52.6	39.6	59.2	2.2	24.2
				80/67	56.0	41.3	62.8	2.2	25.4
				85/71	59.9	42.5	67.0	2.2	26.7
	12	7.3	16.9	75/63	52.7	39.6	59.3	2.2	24.4
				80/67	56.1	41.4	62.9	2.2	25.7
				85/71	60.1	42.5	67.1	2.2	26.9
	12.5	7.8	18.0	75/63	52.8	39.7	59.3	2.1	24.6
				80/67	56.2	41.4	63.0	2.2	25.9
				85/71	60.2	42.5	67.1	2.2	27.1
60	11.5	6.6	15.2	75/63	50.5	39.1	57.9	2.4	20.8
				80/67	54.1	40.2	61.7	2.5	22.0
				85/71	57.7	41.6	65.4	2.5	23.1
	12	7.2	16.6	75/63	50.6	39.1	57.9	2.4	20.9
				80/67	53.9	40.7	61.5	2.4	22.1
				85/71	57.8	41.7	65.5	2.5	23.3
	12.5	7.7	17.8	75/63	50.6	39.3	58.0	2.4	21.1
				80/67	54.3	40.5	61.8	2.4	22.3
				85/71	57.8	42.1	65.5	2.5	23.4
70	11.5	6.6	15.2	75/63	48.4	38.3	56.5	2.7	18.1
				80/67	51.9	39.4	60.2	2.7	19.2
				85/71	55.2	41.2	63.8	2.7	20.2
	12	7.1	16.4	75/63	48.5	38.4	56.6	2.7	18.2
				80/67	52.0	39.5	60.3	2.7	19.3
				85/71	55.7	40.7	64.1	2.7	20.4
	12.5	7.6	17.5	75/63	48.6	38.5	56.6	2.7	18.3
				80/67	52.1	39.5	60.3	2.7	19.4
				85/71	55.8	40.9	64.2	2.7	20.6
80	11.5	6.5	15.0	75/63	46.3	37.6	55.2	2.9	15.7
				80/67	49.3	39.3	58.4	3.0	16.6
				85/71	53.3	39.8	62.5	3.0	17.8
	12	7.0	16.2	75/63	46.4	37.7	55.2	2.9	15.8
				80/67	49.4	39.3	58.5	3.0	16.7
				85/71	53.4	39.8	62.5	3.0	17.9
	12.5	7.5	17.3	75/63	46.5	37.7	55.3	2.9	15.9
				80/67	49.9	38.8	58.8	2.9	17.0
				85/71	53.0	40.8	62.2	3.0	17.9
90	11.5	6.4	14.8	75/63	44.2	36.7	53.9	3.2	13.7
				80/67	47.4	38.2	57.3	3.3	14.5
				85/71	49.8	40.6	60.2	3.3	15.2
	12	6.9	15.9	75/63	44.3	36.7	53.9	3.2	13.8
				80/67	47.1	38.6	57.1	3.2	14.5
				85/71	50.0	40.7	60.3	3.3	15.3
	12.5	7.4	17.1	75/63	44.4	36.7	54.0	3.2	13.8
				80/67	47.7	37.9	57.4	3.2	14.8
				85/71	50.6	40.0	60.7	3.2	15.6
100	11.5	6.3	14.5	75/63	41.9	35.9	52.7	3.6	11.7
				80/67	44.6	38.1	55.6	3.6	12.4
				85/71	44.1	38.7	56.4	3.6	12.4
	12	6.8	15.7	75/63	42.0	36.0	52.7	3.6	11.8
				80/67	45.2	37.4	56.0	3.6	12.6
				85/71	44.2	38.7	56.5	3.6	12.5
	12.5	7.3	16.9	75/63	42.1	36.0	52.8	3.5	11.9
				80/67	45.2	37.4	56.1	3.6	12.7
				85/71	44.3	38.8	56.5	3.5	12.5

COOLING PERFORMANCE (Continued)

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
110	11.5	6.2	14.3	75/63	39.3	35.7	51.4	4.0	9.9
				80/67	39.8	36.6	52.8	4.0	10.1
				85/71	42.3	38.1	55.7	4.0	10.7
	12	6.7	15.5	75/63	41.8	30.6	52.8	4.0	10.5
				80/67	40.1	36.7	53.0	3.9	10.2
				85/71	42.3	38.1	55.7	3.9	10.7
	12.5	7.2	16.6	75/63	41.8	30.6	52.8	4.0	10.5
				80/67	40.1	36.7	53.0	3.9	10.2
				85/71	42.4	38.1	55.7	3.9	10.8

COOLING PERFORMANCE (Continued)

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
GBA60 Cooling PERFORMANCE - 2000 cfm									
50	14.5	10.1	23.3	75/63	68.5	50.3	77.8	3.0	23.0
				80/67	72.9	52.8	82.4	3.0	24.6
				85/71	77.7	53.8	87.2	3.0	25.9
	15	10.8	24.9	75/63	68.6	50.3	77.9	3.0	23.1
				80/67	73.1	52.9	82.4	2.9	24.8
				85/71	77.8	53.9	87.3	3.0	26.1
	15.5	11.4	26.3	75/63	68.7	50.3	77.9	3.0	23.2
				80/67	73.2	53.0	82.5	2.9	25.0
				85/71	77.9	53.9	87.4	3.0	26.2
60	14.5	10.0	23.1	75/63	65.9	50.2	76.1	3.2	20.4
				80/67	70.3	51.5	80.6	3.3	21.6
				85/71	74.9	52.9	85.3	3.3	22.8
	15	10.6	24.5	75/63	66.0	50.2	76.1	3.2	20.5
				80/67	70.5	51.5	80.7	3.2	21.7
				85/71	75.0	53.0	85.4	3.3	22.9
	15.5	11.3	26.1	75/63	66.1	50.3	76.2	3.2	20.6
				80/67	70.6	51.6	80.8	3.2	21.8
				85/71	75.2	53.0	85.5	3.3	23.1
70	14.5	9.9	22.9	75/63	63.3	48.9	74.4	3.6	17.8
				80/67	67.6	50.5	78.8	3.6	18.9
				85/71	72.2	51.6	83.6	3.6	20.0
	15	10.5	24.2	75/63	63.5	49.0	74.5	3.5	17.9
				80/67	67.7	50.5	78.9	3.6	19.0
				85/71	72.3	51.7	83.7	3.6	20.1
	15.5	11.1	25.6	75/63	63.6	49.0	74.6	3.5	18.0
				80/67	68.1	50.2	79.2	3.6	19.1
				85/71	72.5	51.7	83.8	3.6	20.3
80	14.5	9.8	22.6	75/63	60.7	47.6	72.9	3.9	15.6
				80/67	65.0	49.2	77.2	3.9	16.5
				85/71	69.2	50.9	81.6	4.0	17.5
	15	10.4	24.0	75/63	60.8	47.9	72.9	3.9	15.7
				80/67	65.1	49.2	77.3	3.9	16.6
				85/71	69.4	50.7	81.8	3.9	17.6
	15.5	11.0	25.4	75/63	60.9	48.0	72.9	3.9	15.7
				80/67	65.1	49.5	77.3	3.9	16.7
				85/71	69.5	50.7	81.8	3.9	17.7
90	14.5	9.7	22.4	75/63	57.9	46.7	71.2	4.3	13.5
				80/67	62.0	48.3	75.5	4.3	14.4
				85/71	66.2	49.8	79.8	4.3	15.2
	15	10.3	23.8	75/63	58.1	46.7	71.3	4.3	13.6
				80/67	62.1	48.3	75.5	4.3	14.5
				85/71	66.3	49.8	79.9	4.3	15.3
	15.5	10.9	25.2	75/63	58.2	46.8	71.3	4.3	13.7
				80/67	62.2	48.4	75.6	4.3	14.5
				85/71	66.4	49.9	79.9	4.3	15.4
100	14.5	9.5	21.9	75/63	55.1	45.6	69.8	4.7	11.7
				80/67	59.0	47.2	73.9	4.8	12.4
				85/71	63.1	48.6	78.1	4.8	13.2
	15	10.1	23.3	75/63	55.2	45.6	69.8	4.7	11.7
				80/67	59.1	47.3	73.9	4.7	12.5
				85/71	63.3	48.6	78.2	4.8	13.3
	15.5	10.7	24.7	75/63	55.3	45.6	69.9	4.7	11.8
				80/67	59.2	47.4	73.9	4.7	12.5
				85/71	63.4	48.6	78.3	4.8	13.3

COOLING PERFORMANCE (Continued)

Entering Fluid Temp (°F)	Water Flow (GPM)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (db/wb) °F	Total Capacity (MBTUH)	Sensible Capacity (MBTUH)	Heat of Rejection (MBTUH)	Power Input (kW)	EER
110	14.5	9.4	21.7	75/63	52.2	44.6	68.4	5.2	10.0
				80/67	56.1	45.7	72.5	5.3	10.6
				85/71	60.0	47.4	76.6	5.3	11.3
	15	10.0	23.1	75/63	52.3	44.5	68.5	5.2	10.0
				80/67	56.1	46.1	72.5	5.3	10.7
				85/71	60.1	47.5	76.6	5.3	11.4
	15.5	10.6	24.5	75/63	52.4	44.7	68.5	5.2	10.1
				80/67	56.2	46.1	72.5	5.2	10.7
				85/71	60.1	47.8	76.5	5.3	11.4

Heating Performance

Entering Fluid Temp (°F)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP
GBA18 Heating PERFORMANCE - 600 cfm							
30	1.2	2.8	60	12.5	9.9	0.9	3.9
			70	12.1	9.4	1.0	3.6
			80	11.8	8.8	1.1	3.3
	2.3	5.3	60	13.3	10.6	0.9	4.1
			70	12.9	10.0	1.0	3.7
			80	12.5	9.4	1.1	3.4
	4.2	9.7	60	13.8	11.1	1.0	4.2
			70	13.4	10.4	1.0	3.8
			80	12.9	9.8	1.1	3.5
40	1.1	2.5	60	14.4	11.6	1.0	4.4
			70	14.0	11.0	1.0	4.0
			80	13.7	10.5	1.1	3.6
	2.3	5.3	60	15.3	12.5	1.0	4.6
			70	14.9	11.9	1.1	4.1
			80	14.5	11.2	1.1	3.7
	4.1	9.5	60	16.0	13.1	1.0	4.7
			70	15.5	12.4	1.1	4.2
			80	15.1	11.8	1.2	3.8
50	1.1	2.5	60	16.3	13.5	1.0	4.8
			70	16.0	12.9	1.1	4.3
			80	15.6	12.3	1.2	3.9
	2.3	5.3	60	17.5	14.5	1.0	5.0
			70	17.1	13.9	1.1	4.5
			80	16.7	13.2	1.2	4.1
	4.1	9.5	60	18.3	15.3	1.0	5.2
			70	17.8	14.6	1.1	4.7
			80	17.4	13.9	1.2	4.2
60	1.1	2.5	60	18.4	15.4	1.0	5.2
			70	18.0	14.8	1.1	4.7
			80	17.7	14.1	1.2	4.3
	2.2	5.1	60	19.8	16.7	1.1	5.5
			70	19.3	16.0	1.1	4.9
			80	18.8	15.2	1.2	4.5
	4.0	9.2	60	20.7	17.6	1.1	5.7
			70	20.2	16.9	1.2	5.1
			80	19.7	16.0	1.3	4.6
70	1.1	2.5	60	20.6	17.6	1.1	5.6
			70	20.1	16.8	1.2	5.1
			80	19.7	16.1	1.3	4.6
	2.2	5.1	60	22.1	19.0	1.1	6.0
			70	21.6	18.2	1.2	5.4
			80	21.1	17.4	1.3	4.8
	4.0	9.2	60	23.3	20.1	1.1	6.2
			70	22.7	19.2	1.2	5.6
			80	22.1	18.3	1.3	5.0
80	1.1	2.5	60	22.7	19.6	1.1	6.1
			70	22.3	18.9	1.2	5.5
			80	21.8	18.1	1.3	5.0
	2.2	5.1	60	24.5	21.4	1.1	6.5
			70	24.0	20.5	1.2	5.8
			80	23.4	19.6	1.3	5.2
	4.0	9.2	60	25.8	22.7	1.1	6.8
			70	25.2	21.6	1.2	6.1
			80	24.5	20.6	1.3	5.4

Heating Performance (Continued)

Entering Fluid Temp (°F)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP
GBA24 Heating PERFORMANCE - 800 cfm							
30	1.5	3.5	60	17.5	13.5	1.3	3.8
			70	17.3	12.9	1.5	3.4
			80	17.2	12.4	1.6	3.1
	3.0	6.9	60	18.5	14.5	1.4	4.0
			70	18.0	14.0	1.5	3.5
			80	18.2	13.1	1.7	3.2
	5.1	11.8	60	19.4	15.2	1.4	4.1
			70	18.5	14.6	1.5	3.6
			80	18.4	13.7	1.7	3.3
40	1.5	3.5	60	20.0	15.9	1.4	4.2
			70	19.6	15.2	1.5	3.8
			80	19.3	14.3	1.7	3.4
	3.0	6.9	60	21.3	17.0	1.4	4.4
			70	20.9	16.1	1.6	3.9
			80	20.4	15.3	1.7	3.5
	5.0	11.5	60	22.0	17.7	1.4	4.5
			70	21.6	16.2	1.6	4.0
			80	21.0	15.9	1.7	3.6
50	1.5	3.5	60	22.6	18.4	1.4	4.6
			70	22.3	17.6	1.6	4.1
			80	21.9	16.8	1.7	3.7
	3.0	6.9	60	24.1	19.9	1.5	4.8
			70	23.7	19.0	1.6	4.3
			80	23.2	18.1	1.8	3.9
	5.0	11.5	60	25.0	20.9	1.5	5.0
			70	24.6	19.7	1.6	4.5
			80	24.0	18.8	1.8	4.0
60	1.4	3.2	60	25.4	21.1	1.5	5.0
			70	25.0	20.2	1.6	4.5
			80	24.6	19.3	1.8	4.1
	2.9	6.7	60	27.3	22.9	1.5	5.3
			70	26.8	21.9	1.7	4.8
			80	26.2	20.9	1.8	4.3
	4.9	11.3	60	28.4	24.0	1.5	5.5
			70	27.9	22.7	1.7	4.9
			80	27.2	21.8	1.8	4.4
70	1.4	3.2	60	28.4	23.9	1.5	5.5
			70	27.9	23.0	1.7	4.9
			80	27.4	22.0	1.8	4.4
	2.9	6.7	60	30.6	26.0	1.6	5.8
			70	29.9	24.8	1.7	5.2
			80	29.3	23.8	1.9	4.6
	4.8	11.1	60	31.9	27.3	1.6	5.9
			70	31.1	26.1	1.7	5.3
			80	30.5	24.9	1.9	4.7
80	1.4	3.2	60	31.4	26.8	1.6	5.9
			70	30.8	25.7	1.7	5.3
			80	30.4	24.7	1.9	4.7
	2.9	6.7	60	34.0	29.3	1.6	6.2
			70	33.3	28.0	1.8	5.6
			80	32.6	26.8	1.9	5.0
	4.8	11.1	60	35.5	30.8	1.6	6.4
			70	34.7	29.3	1.8	5.7
			80	34.0	28.1	2.0	5.1

Heating Performance (Continued)

Entering Fluid Temp (°F)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP
GBA30 Heating PERFORMANCE - 1000 cfm							
30	6.7	15.5	60	22.7	18.7	1.6	4.1
			70	22.3	16.9	1.7	3.8
			80	21.8	16.1	1.9	3.4
	7.5	17.3	60	22.8	18.6	1.6	4.1
			70	22.3	17.1	1.7	3.7
			80	22.2	16.3	1.9	3.4
	8.4	19.4	60	23.2	18.4	1.6	4.2
			70	22.5	17.3	1.7	3.8
			80	21.8	16.0	1.9	3.4
40	6.6	15.2	60	26.5	21.2	1.7	4.6
			70	25.7	20.0	1.8	4.2
			80	25.0	19.1	2.0	3.7
	7.4	17.1	60	26.6	21.4	1.7	4.6
			70	25.9	20.2	1.8	4.2
			80	25.2	19.1	2.0	3.7
	8.3	19.2	60	26.8	21.6	1.7	4.6
			70	26.0	20.4	1.8	4.2
			80	25.4	19.1	2.0	3.7
50	6.5	15.0	60	30.2	24.7	1.8	5.0
			70	29.3	23.4	1.9	4.5
			80	28.6	22.3	2.1	4.1
	7.4	17.1	60	30.3	25.1	1.8	5.1
			70	29.5	23.6	1.9	4.6
			80	28.8	22.5	2.1	4.1
	8.3	19.2	60	30.6	25.1	1.8	5.1
			70	29.7	23.8	1.9	4.6
			80	28.9	22.7	2.1	4.1
60	6.4	14.8	60	34.0	28.4	1.8	5.5
			70	33.1	27.0	2.0	4.9
			80	32.4	25.7	2.2	4.4
	7.3	16.9	60	34.3	28.6	1.8	5.5
			70	33.4	27.3	2.0	4.9
			80	32.7	25.9	2.2	4.4
	8.2	18.9	60	34.5	28.9	1.8	5.5
			70	33.6	27.5	2.0	5.0
			80	32.8	26.1	2.2	4.4
70	6.4	14.8	60	38.1	32.1	1.9	5.9
			70	37.2	30.8	2.1	5.3
			80	36.3	29.4	2.2	4.8
	7.2	16.6	60	38.3	32.6	1.9	5.9
			70	37.5	31.1	2.1	5.3
			80	36.6	29.7	2.2	4.8
	8.1	18.7	60	38.6	33.0	1.9	6.0
			70	37.8	31.4	2.1	5.4
			80	36.9	29.9	2.2	4.8
80	6.3	14.5	60	42.2	36.4	1.9	6.4
			70	41.3	34.8	2.1	5.8
			80	40.3	33.2	2.3	5.1
	7.1	16.4	60	42.6	36.8	1.9	6.4
			70	41.7	35.1	2.1	5.8
			80	40.7	33.5	2.3	5.2
	8.0	18.5	60	42.9	37.2	1.9	6.5
			70	42.0	35.4	2.1	5.8
			80	41.0	33.8	2.3	5.2

Heating Performance (Continued)

Entering Fluid Temp (°F)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP
GBA36 Heating PERFORMANCE - 1200 cfm							
30	9.4	21.7	60	27.6	21.6	1.9	4.3
			70	27.1	20.5	2.1	3.8
			80	26.6	19.4	2.3	3.4
	10.4	24.0	60	27.7	21.7	1.9	4.3
			70	27.1	20.7	2.1	3.8
			80	26.7	19.4	2.3	3.4
	11.4	26.3	60	27.9	21.9	1.9	4.3
			70	27.3	20.9	2.1	3.9
			80	26.8	19.5	2.3	3.4
40	9.3	21.5	60	31.5	25.3	2.0	4.7
			70	30.9	24.4	2.2	4.2
			80	30.3	22.8	2.4	3.8
	10.3	23.8	60	31.7	25.5	2.0	4.7
			70	31.0	24.5	2.2	4.2
			80	30.4	23.0	2.4	3.8
	11.3	26.1	60	31.8	25.9	2.0	4.8
			70	31.2	24.7	2.2	4.2
			80	30.6	23.1	2.4	3.8
50	9.2	21.2	60	35.7	29.6	2.0	5.2
			70	35.1	27.9	2.2	4.6
			80	34.4	26.7	2.4	4.1
	10.2	23.6	60	36.0	29.9	2.0	5.2
			70	35.1	28.4	2.2	4.6
			80	34.7	26.8	2.4	4.2
	11.2	25.9	60	36.2	30.1	2.0	5.2
			70	35.3	28.6	2.2	4.6
			80	34.8	27.0	2.4	4.2
60	9.1	21.0	60	40.3	34.1	2.1	5.6
			70	39.6	32.2	2.3	5.1
			80	38.7	31.1	2.5	4.5
	10.1	23.3	60	40.6	34.4	2.1	5.6
			70	39.7	32.7	2.3	5.1
			80	39.0	31.3	2.5	4.6
	11.1	25.6	60	41.0	34.3	2.1	5.7
			70	40.0	33.0	2.3	5.1
			80	39.2	31.6	2.5	4.6
70	9.0	20.8	60	45.4	38.6	2.2	6.1
			70	44.2	37.2	2.4	5.5
			80	43.5	35.3	2.6	4.9
	9.9	22.9	60	45.8	38.9	2.2	6.2
			70	44.7	37.2	2.4	5.5
			80	43.9	35.6	2.6	5.0
	10.9	25.2	60	46.1	39.2	2.2	6.2
			70	45.0	37.5	2.4	5.6
			80	44.2	35.8	2.6	5.0
80	8.9	20.5	60	50.6	43.5	2.2	6.6
			70	49.4	41.7	2.4	6.0
			80	48.5	39.9	2.7	5.3
	9.8	22.6	60	51.1	43.8	2.2	6.7
			70	49.8	42.0	2.4	6.0
			80	48.8	40.2	2.7	5.4
	10.8	24.9	60	51.5	44.2	2.2	6.7
			70	50.2	42.3	2.4	6.0
			80	49.2	40.5	2.7	5.4

Heating Performance (Continued)

Entering Fluid Temp (°F)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP
GBA42 Heating PERFORMANCE - 1400 cfm							
30	11.2	25.9	60	33.1	25.8	2.3	4.2
			70	32.3	24.6	2.5	3.7
			80	26.8	20.9	2.7	3.0
	12.2	28.2	60	32.9	26.0	2.3	4.2
			70	32.6	24.7	2.5	3.8
			80	32.4	22.9	2.8	3.4
	13.2	30.5	60	33.3	26.1	2.3	4.2
			70	32.3	23.5	2.5	3.8
			80	32.3	23.7	2.8	3.4
40	11.1	25.6	60	37.4	30.0	2.4	4.6
			70	37.1	28.6	2.6	4.1
			80	36.5	26.8	2.9	3.7
	12.1	27.9	60	37.7	30.2	2.4	4.6
			70	37.2	28.9	2.6	4.1
			80	36.3	28.0	2.9	3.7
	13.1	30.2	60	37.9	30.4	2.4	4.6
			70	37.3	29.1	2.6	4.1
			80	36.5	27.5	2.9	3.7
50	10.9	25.2	60	42.6	34.7	2.5	5.0
			70	41.7	33.5	2.7	4.5
			80	41.1	31.7	3.0	4.0
	11.9	27.5	60	42.8	35.0	2.5	5.0
			70	41.9	33.7	2.7	4.5
			80	41.6	31.8	3.0	4.1
	13.0	30.0	60	43.1	35.2	2.5	5.0
			70	42.5	33.6	2.7	4.5
			80	41.7	32.3	3.0	4.1
60	10.8	24.9	60	48.0	40.0	2.6	5.4
			70	47.3	38.3	2.8	4.9
			80	46.5	36.7	3.1	4.4
	11.8	27.2	60	48.3	40.3	2.6	5.5
			70	47.6	38.6	2.8	4.9
			80	46.6	36.9	3.1	4.4
	12.8	29.6	60	48.7	40.5	2.6	5.5
			70	47.8	38.8	2.8	4.9
			80	46.8	37.3	3.1	4.4
70	10.7	24.7	60	53.9	45.6	2.7	5.9
			70	53.0	43.7	2.9	5.3
			80	52.1	41.9	3.2	4.8
	11.7	27.0	60	54.2	45.9	2.7	5.9
			70	53.3	44.0	2.9	5.3
			80	52.4	42.2	3.2	4.8
	12.7	29.3	60	54.5	46.2	2.7	5.9
			70	53.6	44.3	3.0	5.3
			80	52.8	42.2	3.2	4.8
80	10.6	24.5	60	60.0	51.4	2.8	6.3
			70	59.0	49.3	3.1	5.7
			80	57.9	47.4	3.3	5.1
	11.5	26.6	60	60.4	51.8	2.8	6.3
			70	59.4	49.6	3.1	5.7
			80	58.3	47.7	3.3	5.1
	12.5	28.9	60	60.8	52.1	2.8	6.3
			70	59.8	49.9	3.1	5.7
			80	58.6	48.0	3.4	5.1

Heating Performance (Continued)

Entering Fluid Temp (°F)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP
GBA48 Heating PERFORMANCE - 1600 cfm							
30	7.0	16.2	60	38.4	29.8	2.7	4.2
			70	36.5	26.8	2.9	3.7
			80	37.3	27.2	3.2	3.4
	7.5	17.3	60	36.9	28.8	2.7	4.1
			70	38.9	28.7	3.0	3.8
			80	36.2	25.3	3.2	3.3
	8.1	18.7	60	38.8	30.3	2.7	4.2
			70	38.2	28.7	3.0	3.8
			80	37.7	27.7	3.2	3.4
40	6.9	15.9	60	43.4	33.7	2.8	4.6
			70	43.5	33.8	3.1	4.2
			80	41.6	31.1	3.3	3.7
	7.4	17.1	60	44.0	35.4	2.8	4.6
			70	44.5	34.6	3.1	4.2
			80	43.1	32.5	3.3	3.8
	8.0	18.5	60	43.8	35.3	2.8	4.6
			70	43.5	33.9	3.1	4.2
			80	43.2	32.7	3.3	3.8
50	6.8	15.7	60	49.9	41.0	2.9	5.0
			70	49.8	39.3	3.2	4.6
			80	48.3	37.6	3.4	4.1
	7.3	16.9	60	50.1	41.2	2.9	5.1
			70	49.8	38.8	3.2	4.6
			80	47.9	36.8	3.4	4.1
	7.9	18.2	60	50.4	41.0	2.9	5.1
			70	49.9	39.1	3.2	4.6
			80	49.2	38.0	3.5	4.2
60	6.7	15.5	60	56.4	46.7	3.0	5.5
			70	55.6	45.1	3.3	5.0
			80	54.9	43.0	3.6	4.5
	7.3	16.9	60	56.7	47.0	3.0	5.5
			70	55.9	45.3	3.3	5.0
			80	55.2	43.6	3.6	4.5
	7.8	18.0	60	57.0	47.3	3.0	5.5
			70	56.4	45.6	3.3	5.0
			80	55.2	44.0	3.6	4.5
70	6.6	15.2	60	63.4	53.2	3.1	5.9
			70	62.2	51.2	3.4	5.4
			80	61.2	49.3	3.7	4.8
	7.2	16.6	60	63.9	53.6	3.1	6.0
			70	62.5	51.5	3.4	5.4
			80	61.6	49.6	3.7	4.9
	7.7	17.8	60	64.0	53.9	3.2	6.0
			70	62.9	52.1	3.4	5.4
			80	61.9	49.9	3.7	4.9
80	6.6	15.2	60	70.6	59.9	3.3	6.3
			70	69.2	57.7	3.6	5.7
			80	68.2	55.6	3.9	5.2
	7.1	16.4	60	71.0	60.3	3.3	6.3
			70	69.7	58.1	3.6	5.7
			80	68.6	55.9	3.9	5.2
	7.6	17.5	60	71.4	60.7	3.3	6.3
			70	70.0	58.5	3.6	5.7
			80	69.0	56.2	3.9	5.2

Heating Performance (Continued)

Entering Fluid Temp (°F)	Pressure Drop PSI (FOH)	Pressure Drop Ft. H2O (FOH)	Entering Air Temp (°F)	Total Capacity (MBTUH)	Heat of Absorption (MBTUH)	Power Input (kW)	COP
GBA60 Heating PERFORMANCE -2000 cfm							
30	10.5	24.2	60	45.8	35.9	3.1	4.4
			70	45.5	34.6	3.4	4.0
			80	45.1	33.2	3.7	3.6
	11.1	25.6	60	46.0	36.1	3.1	4.4
			70	45.6	34.8	3.4	4.0
			80	45.3	33.3	3.7	3.6
	11.8	27.2	60	46.1	36.2	3.1	4.4
			70	45.9	34.8	3.4	4.0
			80	45.4	33.4	3.7	3.6
40	10.4	24.0	60	49.6	39.7	3.1	4.7
			70	50.9	39.8	3.5	4.3
			80	51.0	38.5	3.8	3.9
	11.0	25.4	60	49.8	40.8	3.1	4.7
			70	50.9	40.1	3.5	4.3
			80	51.3	38.6	3.8	4.0
	11.7	27.0	60	49.7	40.6	3.1	4.7
			70	51.5	39.9	3.5	4.4
			80	51.5	38.8	3.8	4.0
50	10.3	23.8	60	57.8	46.6	3.2	5.2
			70	55.7	45.3	3.5	4.6
			80	54.7	43.1	3.9	4.1
	10.9	25.2	60	57.7	47.4	3.2	5.2
			70	48.7	37.9	3.4	4.2
			80	55.4	43.7	3.9	4.2
	11.5	26.6	60	57.2	46.6	3.2	5.2
			70	53.6	35.7	3.4	4.6
			80	56.8	43.9	3.9	4.3
60	10.1	23.3	60	65.6	55.0	3.4	5.7
			70	63.9	51.9	3.7	5.1
			80	62.1	49.9	4.0	4.5
	10.8	24.9	60	65.5	54.5	3.4	5.7
			70	56.2	42.1	3.5	4.7
			80	63.2	50.4	4.0	4.6
	11.4	26.3	60	63.9	60.5	3.4	5.5
			70	64.5	52.2	3.7	5.1
			80	62.7	50.2	4.0	4.6
70	10.0	23.1	60	73.6	62.2	3.5	6.1
			70	72.6	59.8	3.8	5.6
			80	76.9	59.2	4.2	5.4
	10.6	24.5	60	74.3	63.5	3.5	6.2
			70	72.7	60.2	3.8	5.6
			80	61.4	51.1	4.0	4.5
	11.3	26.1	60	73.3	62.3	3.5	6.1
			70	73.7	61.8	3.9	5.6
			80	71.3	57.8	4.2	5.0
80	9.9	22.9	60	82.4	70.6	3.6	6.6
			70	80.5	68.2	4.0	6.0
			80	75.9	61.7	4.3	5.2
	10.5	24.2	60	83.8	71.0	3.7	6.7
			70	81.9	68.9	4.0	6.0
			80	79.4	65.5	4.3	5.4
	11.1	25.6	60	89.7	71.0	3.7	7.2
			70	81.9	68.6	4.0	6.0
			80	80.0	66.0	4.3	5.4

ANTI-FREEZE CORRECTION TABLE

Antifreeze Type	Antifreeze % volume	Cooling			Heating		WPD Correction Factor EWT 30°F
		EWT 90 °F			EWT 30 °F		
		Total Cap.	Sens. Cap	Power	Htg. Cap	Power	
Water	0	1.000	1.000	1.000	1.000	1.000	1.000
Propylene Glycol	5	0.998	0.998	1.004	0.995	0.999	1.085
	10	0.996	0.995	1.008	0.989	0.997	1.165
	15	0.994	0.992	1.012	0.980	0.995	1.257
	25	0.989	0.983	1.023	0.962	0.990	1.491
	35	0.981	0.972	1.040	0.938	0.984	1.812
	40	0.976	0.965	1.050	0.923	0.981	2.012
	45	0.970	0.956	1.062	0.907	0.977	2.240
	50	0.964	0.948	1.076	0.890	0.972	2.502
Methanol	5	0.997	0.997	1.003	0.990	0.997	1.060
	10	0.996	0.996	1.005	0.979	0.993	1.100
	15	0.994	0.994	1.008	0.970	0.990	1.140
Ethanol	5	0.998	0.998	1.002	0.981	0.994	1.160
	10	0.996	0.996	1.004	0.960	0.988	1.230
	15	0.992	0.992	1.006	0.944	0.983	1.280
	25	0.986	0.986	1.009	0.917	0.974	1.400
Ethylene Glycol	5	0.999	0.999	1.002	0.997	0.999	1.035
	10	0.998	0.996	1.005	0.993	0.998	1.086
	15	0.996	0.994	1.009	0.986	0.996	1.145
	25	0.992	0.988	1.018	0.974	0.993	1.278
	30	0.989	0.984	1.023	0.967	0.992	1.354
	35	0.986	0.979	1.029	0.960	0.990	1.436
	40	0.983	0.974	1.036	0.953	0.988	1.528
	45	0.979	0.969	1.044	0.944	0.986	1.629
	50	0.975	0.962	1.053	0.934	0.983	1.743