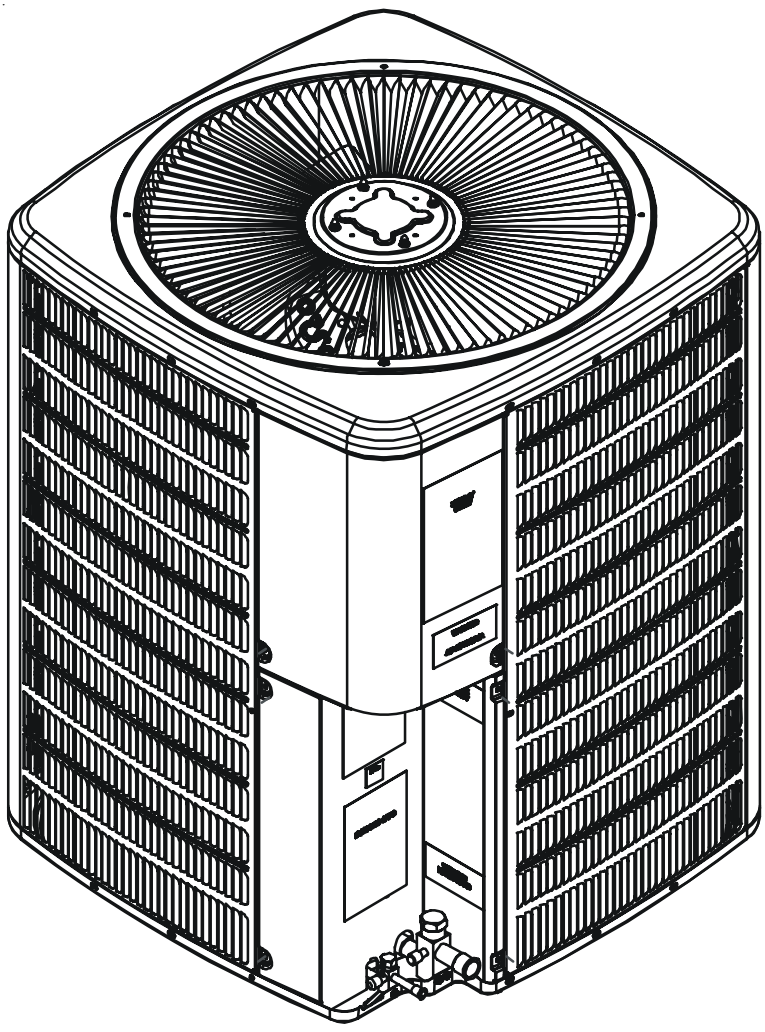
TECHNICAL INFORMATION MANUAL

Models listed
on page 3

GSZ 13 SEER
Split System Heat Pumps

- Refer to Service Manual RS6200006 for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.



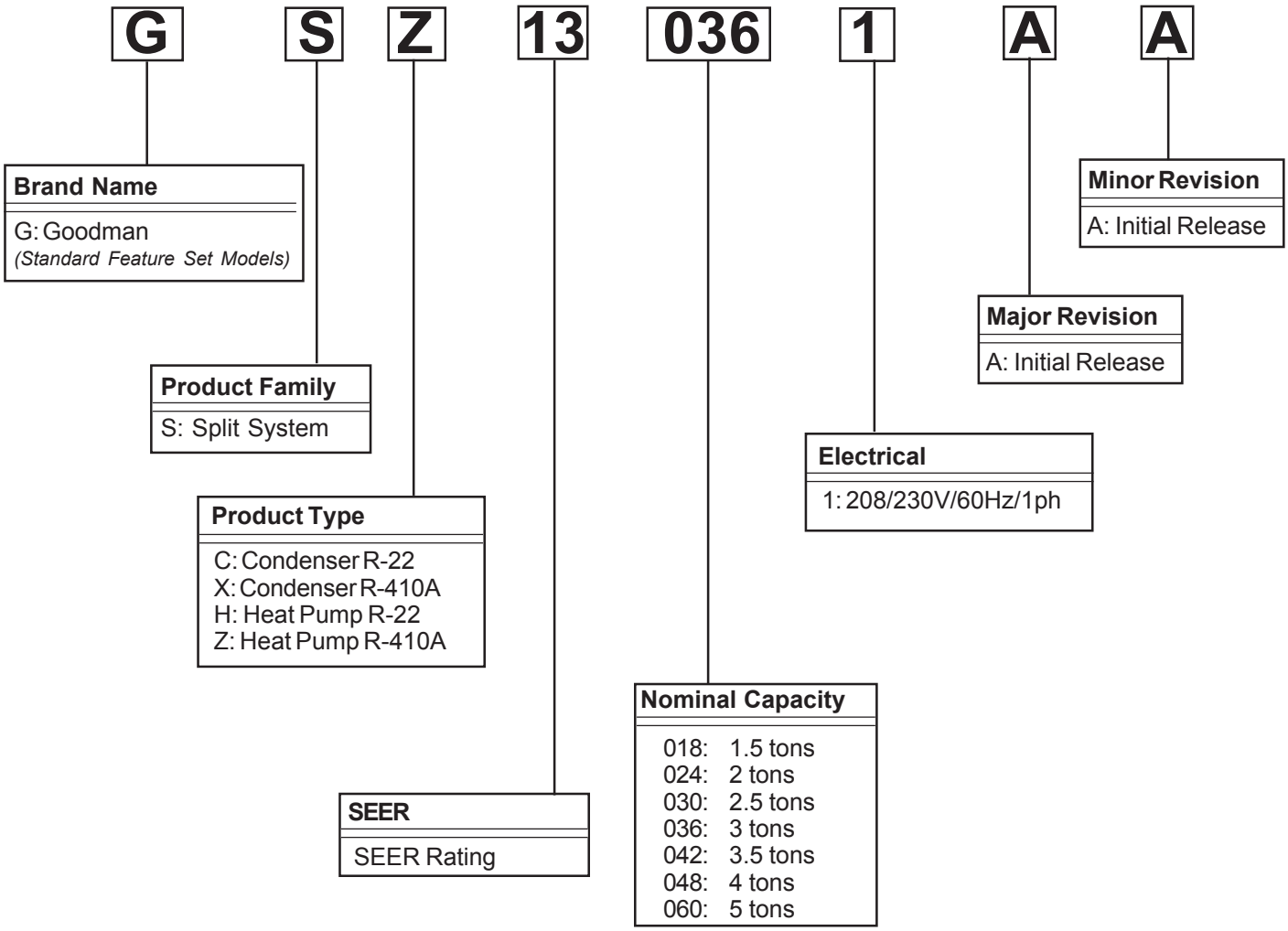
Goodman®

This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.

RT6212006
September 2007

PRODUCT IDENTIFICATION

The model number is used for positive identification of component parts used in manufacturing. Please use this number when requesting service or parts information.



WARNING

HIGH VOLTAGE!
Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

WARNING

Installation and repair of this unit should be performed ONLY by individuals meeting the requirements of an "entry level technician" as specified by the Air Conditioning and Refrigeration Institute (ARI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.

WARNING

Goodman will not be responsibile for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.

PRODUCT IDENTIFICATION

The model number is used for positive identification of component parts used in manufacturing. Please use this number when requesting service or parts information.

GSZ130181A*
GSZ130241A*
GSZ130301A*
GSZ130361A*
GSZ130421A*
GSZ130481A*
GSZ130601A*

** Indicates minor revision & is not used for order entry or inventory management*

⚠ WARNING

The United States Environmental Protection Agency ("EPA") has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. Should questions arise, contact your local EPA office.

⚠ WARNING

To prevent the risk of property damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.

⚠ WARNING

Do not connect or use any device that is not design certified by Goodman for use with this unit. Serious property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices.

PRODUCT DESIGN

GSZ13 models are available in 1 1/2 through 5 ton sizes and use R-410A refrigerant. They are designed for 208/230 volt single phase applications.

The condenser air is pulled through the condenser coil by a direct drive propeller fan. This condenser air is then discharged out of the top of the cabinet.

These units are designed for free air discharge, so no additional resistance like duct work shall be attached.

The suction and liquid line connections on present models are of the sweat type for field piping with refrigerant type copper. Front seating valves are factory installed to accept the field run copper. The total refrigerant charge for a normal installation is factory installed in the condensing unit. GSZ units are charged for the matching evaporator coil and a 15 foot refrigerant line set.

Systems should be properly sized by heat gain and loss calculations made according to methods of the Air Conditioning Contractors Association (ACCA) or equivalent. It is the contractors responsibility to ensure the system has adequate capacity to heat or cool the conditioned space.

GSZ models use high-efficiency Copeland® scroll "Ultratech" compressors which are specifically desgined for R-410A refrigerant. There are a number of design characteristics which are different from the scroll compared to the traditional reciprocating compressor.

"Ultratech" Series scroll compressors with Copeland® ComfortAlert diagnositics will not have a discharge thermostat. Some of the early model scroll compressors required discharge thermostats.

Due to their design Scroll compressors are inherently more tolerant of small quantities of liquid refrigerant.

NOTE: *Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued floodback or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.*

"Ultratech" Series scroll compressors use "POE" or polyolester oil which is **NOT** compatible with mineral oil based lubricants like 3GS. "POE" oil must be used if additional oil is required.

⚠ WARNING

To avoid possible injury, explosion or death, practice safe handling of refrigerants.

Operating pressures and amp draws may differ from standard reciprocating and/or scroll compressors. This information may be found in the "Cooling Performance Data" section.

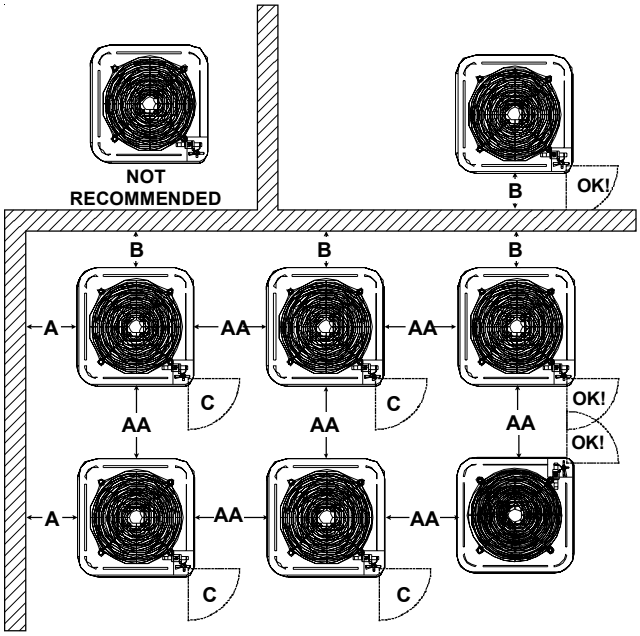
This unit is for outdoor installation only. Refer to minimum figure for clearances from the sides of the unit to full walls and other objects.

NOTE: This unit cannot be completely enclosed. At least one side must be unrestricted.

These clearances will help avoid air recirculation. If installing two or more units at the same location, allow at least 24 inches between units. If only one side is restricted (for example, against the outside wall of a house), the unit may be placed as close as 8" to that one wall.

DO **NOT** locate the unit:

* Directly under a vent termination for a gas appliance.
* Within 3 feet of a clothes drier vent
* Where the refreezing of defrost water would create a hazard
* Where water may rise into the unit.



Minimum Airflow Clearance				
Model Type	**A**	**B**	**C**	**AA**
Residential	10"	10"	18"	20"
Light Commercial	12"	12"	18"	24"

Model	Dimensions - W x D x H
GSZ130181A*	26 x 26 x 32¼
GSZ130241A*	26 x 26 x 32¼
GSZ130301A*	26 x 26 x 32¼
GSZ130361A*	29 x 29 x 38¼
GSZ130421A*	29 x 29 x 38¼
GSZ130481A*	29 x 29 x 34¼
GSZ130601A*	35½ x 35½ x 34¼

HEAT PUMP SPECIFICATIONS

GSZ130181A* - GSZ130601A*

	GSZ130181A	GSZ130241A	GSZ130301A	GSZ130361A	GSZ130421A	GSZ130481A	GSZ130601A
Nominal Capacities							
Cooling Capacity, BTUH	18,000	24,000	30,000	36,000	42,000	48,000	60,000
Heating Capacity, BTUH	17,000	23,000	26,400	34,000	40,500	44,000	58,000
Compressor							
R.L. Amps	9.0	12.8	14.1	16.6	17.9	19.8	26.4
L.R. Amps	48.0	58.3	73.0	79.0	112.0	109.0	134.0
Low Pressure Switch							
Open	22 PSIG	22 PSIG	22 PSIG	22 PSIG	22 PSIG	22 PSIG	22 PSIG
Close	50 PSIG	50 PSIG	50 PSIG	50 PSIG	50 PSIG	50 PSIG	50 PSIG
High Pressure Switch							
Open	610 PSIG	610 PSIG	610 PSIG	610 PSIG	610 PSIG	610 PSIG	610 PSIG
Close	420 PSIG	420 PSIG	420 PSIG	420 PSIG	420 PSIG	420 PSIG	420 PSIG
Condenser Fan Motor							
Horsepower	1/6	1/6	1/6	1/4	1/4	1/4	1/4
F.L. Amps	1.10	1.10	1.10	1.50	1.50	1.50	1.50
Liquid Line, Inches O.D.*	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Line, Inches O.D.*	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"
Refrigerant Charge	129.0	129.0	134.0	178.0	181.0	229.0	252.0
Power Supply	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
Minimum Circuit Ampacity[1]	12.3	17.1	18.7	22.3	23.9	26.3	34.5
Maximum Overcurrent Device[2]	20	25	30	35	40	45	60
Electrical Conduit Size							
Power Supply (Inches)	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4
Approximate Shipping Weight	198	198	202	232	235	240	266

[1] Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes.
[2] MUST use time delay fuses or HACR-type circuit breakers of the same size as noted.

NOTE: This data is provided as a guide, it is important to electrically connect the unit and properly size fuses/circuit breakers and wires in accordance with all national and/or local electrical codes. Use copper wire only.

Unit specifications are subject to change without notice. **ALWAYS** refer to the unit's serial plate for the most up-to-date general and electrical information.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ130181A* / AR*F182416A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	675	MBh	17.1	17.7	19.4	-	16.7	17.3	18.9	-	16.3	16.9	18.5	-	15.9	16.4	18.0	-	15.1	15.6	17.1	-	14.0	14.5	15.9	-
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-
		πT	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-
		KW	1.25	1.27	1.31	-	1.34	1.37	1.41	-	1.42	1.45	1.50	-	1.49	1.52	1.57	-	1.55	1.59	1.64	-	1.61	1.64	1.69	-
		AMPS	4.5	4.6	4.8	-	4.9	5.0	5.2	-	5.3	5.4	5.6	-	5.7	5.8	6.0	-	6.0	6.2	6.4	-	6.4	6.5	6.8	-
		HI PR	225	242	255	-	252	271	287	-	287	309	326	-	327	352	371	-	367	395	418	-	406	437	461	-
		LO PR	109	116	126	-	115	122	133	-	119	127	139	-	125	133	146	-	131	140	152	-	136	144	158	-
	600	MBh	16.6	17.2	18.8	-	16.2	16.8	18.4	-	15.8	16.4	17.9	-	15.4	16.0	17.5	-	14.6	15.2	16.6	-	13.6	14.0	15.4	-
		S/T	0.71	0.59	0.41	-	0.73	0.61	0.43	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-
		πT	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	1.24	1.26	1.30	-	1.33	1.36	1.40	-	1.41	1.44	1.48	-	1.48	1.51	1.56	-	1.54	1.57	1.62	-	1.59	1.63	1.68	-
		AMPS	4.5	4.6	4.7	-	4.8	4.9	5.1	-	5.2	5.4	5.6	-	5.6	5.7	5.9	-	6.0	6.1	6.3	-	6.3	6.5	6.7	-
		HI PR	222	239	253	-	250	269	284	-	284	306	323	-	323	348	368	-	364	392	413	-	402	433	457	-
		LO PR	108	114	125	-	114	121	132	-	118	126	137	-	124	132	144	-	130	138	151	-	134	143	156	-
	525	MBh	15.3	15.8	17.4	-	14.9	15.5	16.9	-	14.6	15.1	16.5	-	14.2	14.7	16.1	-	13.5	14.0	15.3	-	12.5	13.0	14.2	-
		S/T	0.68	0.57	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.78	0.66	0.45	-
		πT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		KW	1.21	1.23	1.27	-	1.30	1.32	1.36	-	1.38	1.40	1.45	-	1.44	1.47	1.52	-	1.50	1.53	1.58	-	1.55	1.59	1.64	-
		AMPS	4.3	4.5	4.6	-	4.7	4.8	5.0	-	5.1	5.2	5.4	-	5.5	5.6	5.8	-	5.8	5.9	6.1	-	6.1	6.3	6.5	-
		HI PR	216	232	245	-	242	261	275	-	275	296	313	-	314	338	356	-	353	380	401	-	390	420	443	-
		LO PR	104	111	121	-	110	117	128	-	115	122	133	-	120	128	140	-	126	134	146	-	130	139	151	-
75	675	MBh	17.34	17.85	19.32	20.74	16.94	17.44	18.87	20.26	16.53	17.02	18.43	19.78	16.13	16.61	17.98	19.29	15.32	15.78	17.08	18.33	14.19	14.61	15.82	16.98
		S/T	0.84	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42
		πT	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	18	15	10	19	17	14	10
		KW	1.26	1.28	1.32	1.36	1.35	1.38	1.42	1.46	1.43	1.46	1.51	1.56	1.50	1.54	1.58	1.64	1.57	1.60	1.65	1.70	1.62	1.65	1.71	1.76
		AMPS	4.6	4.7	4.8	5.0	4.9	5.0	5.2	5.4	5.3	5.5	5.7	5.9	5.7	5.9	6.0	6.3	6.1	6.2	6.4	6.7	6.4	6.6	6.8	7.1
		HI PR	227	244	258	269	255	274	289	302	290	312	329	343	330	355	375	391	371	399	422	440	410	441	466	486
		LO PR	110	117	127	136	116	123	135	143	120	128	140	149	127	135	147	157	133	141	154	164	137	146	159	170
	600	MBh	16.8	17.3	18.8	20.1	16.4	16.9	18.3	19.7	16.1	16.5	17.9	19.2	15.7	**16.1**	17.5	18.7	14.9	15.3	16.6	17.8	13.8	14.2	15.4	16.5
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.37	0.88	**0.79**	0.60	0.38	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40
		πT	21	19	16	11	21	19	16	11	21	19	16	11	21	**20**	16	11	21	19	16	11	20	18	15	10
		KW	1.25	1.27	1.31	1.35	1.34	1.37	1.41	1.45	1.42	1.45	1.50	1.54	1.49	**1.52**	1.57	1.62	1.55	1.59	1.64	1.69	1.61	1.64	1.69	1.75
		AMPS	4.5	4.6	4.8	4.9	4.9	5.0	5.2	5.3	5.3	5.4	5.6	5.8	5.7	**5.8**	6.0	6.2	6.0	6.2	6.4	6.6	6.4	6.5	6.8	7.0
		HI PR	225	242	255	266	252	271	287	299	287	309	326	340	327	**352**	371	387	368	396	418	436	406	437	461	481
		LO PR	109	116	126	134	115	122	133	142	119	127	139	148	125	**133**	146	155	131	140	153	162	136	145	158	168
	525	MBh	15.5	16.0	17.3	18.6	15.2	15.6	16.9	18.2	14.8	15.3	16.5	17.7	14.5	14.88	16.1	17.3	13.7	14.1	15.3	16.4	12.7	13.1	14.2	15.2
		S/T	0.78	0.69	0.53	0.34	0.81	0.72	0.55	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.39	0.89	0.80	0.60	0.39
		πT	21	19	16	11	21	20	16	11	21	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10
		KW	1.22	1.24	1.28	1.32	1.31	1.33	1.38	1.42	1.39	1.42	1.46	1.51	1.46	1.49	1.53	1.58	1.51	1.55	1.60	1.65	1.57	1.60	1.65	1.71
		AMPS	4.4	4.5	4.6	4.8	4.7	4.9	5.0	5.2	5.2	5.3	5.5	5.7	5.5	5.6	5.8	6.0	5.9	6.0	6.2	6.4	6.2	6.4	6.6	6.8
		HI PR	218	235	248	258	245	263	278	290	278	299	316	330	317	341	360	376	357	384	405	423	394	424	448	467
		LO PR	105	112	122	130	111	118	129	138	116	123	134	143	122	129	141	150	127	136	148	158	132	140	153	163

Shaded area is ACCA (TVA) conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ130181A* / AR*F182416A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	675	MBh	17.6	18.0	19.3	20.6	17.2	17.6	18.8	20.1	16.8	17.2	18.4	19.6	16.4	16.8	17.9	19.2	15.6	15.9	17.0	18.2	14.4	14.8	15.8	16.9
		S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.81	0.61
		DT	22	21	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	22	19	15	20	20	17	14
		KW	1.27	1.29	1.33	1.37	1.36	1.39	1.43	1.48	1.44	1.47	1.52	1.57	1.52	1.55	1.60	1.65	1.58	1.61	1.66	1.72	1.63	1.67	1.72	1.78
		AMPS	4.6	4.7	4.9	5.0	5.0	5.1	5.3	5.4	5.4	5.5	5.7	5.9	5.8	5.9	6.1	6.3	6.1	6.3	6.5	6.8	6.5	6.7	6.9	7.2
		HI PR	229	247	261	272	257	277	292	305	293	315	333	347	333	359	379	395	375	404	426	444	414	446	471	491
		LO PR	111	118	129	137	117	125	136	145	122	129	141	151	128	136	148	158	134	143	156	166	139	147	161	171
	600	MBh	17.1	17.5	18.7	20.0	16.7	17.1	18.3	19.5	16.3	16.7	17.8	19.1	15.9	16.3	**17.4**	18.6	15.1	15.5	16.5	17.7	14.0	14.3	15.3	16.4
		S/T	0.88	0.83	0.67	0.50	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	**0.74**	0.55	1.00	0.94	0.77	0.57	1.00	0.95	0.77	0.58
		DT	23	22	19	15	23	23	20	16	24	23	20	16	24	23	**20**	16	23	22	19	16	21	21	18	15
		KW	1.26	1.28	1.32	1.36	1.35	1.38	1.42	1.46	1.43	1.46	1.51	1.56	1.50	1.54	**1.59**	1.64	1.57	1.60	1.65	1.70	1.62	1.65	1.71	1.76
		AMPS	4.6	4.7	4.8	5.0	4.9	5.0	5.2	5.4	5.3	5.5	5.7	5.9	5.7	5.9	**6.1**	6.3	6.1	6.2	6.4	6.7	6.4	6.6	6.8	7.1
		HI PR	227	244	258	269	255	274	290	302	290	312	329	343	330	355	**375**	391	371	400	422	440	410	441	466	486
		LO PR	110	117	127	136	116	123	135	143	120	128	140	149	127	135	**147**	157	133	141	154	164	137	146	159	170
	525	MBh	15.8	16.2	17.3	18.5	15.4	15.8	16.9	18.0	15.1	15.4	16.5	17.6	14.7	15.0	16.1	17.2	14.0	14.3	15.3	16.3	12.9	13.2	14.1	15.1
		S/T	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.97	0.91	0.74	0.55	0.98	0.92	0.75	0.56
		DT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15
		KW	1.23	1.25	1.29	1.33	1.32	1.34	1.39	1.43	1.40	1.43	1.47	1.52	1.47	1.50	1.55	1.60	1.53	1.56	1.61	1.66	1.58	1.61	1.67	1.72
		AMPS	4.4	4.5	4.7	4.9	4.8	4.9	5.1	5.3	5.2	5.3	5.5	5.7	5.6	5.7	5.9	6.1	5.9	6.1	6.3	6.5	6.3	6.4	6.6	6.9
		HI PR	220	237	250	261	247	266	281	293	281	302	319	333	320	344	364	379	360	388	409	427	398	428	452	472
		LO PR	106	113	124	132	112	120	131	139	117	124	136	145	123	131	143	152	129	137	149	159	133	142	155	165
85	675	MBh	18.0	18.3	19.2	20.5	17.5	17.9	18.7	20.0	17.1	17.5	18.3	19.5	16.7	17.0	17.8	19.0	15.9	16.2	16.9	18.1	14.7	15.0	15.7	16.7
		S/T	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
		DT	24	23	22	19	24	24	22	19	23	24	22	19	23	23	23	20	22	22	22	19	20	20	21	18
		KW	1.28	1.30	1.34	1.38	1.37	1.40	1.44	1.49	1.45	1.49	1.53	1.58	1.53	1.56	1.61	1.66	1.59	1.63	1.68	1.73	1.65	1.68	1.74	1.79
		AMPS	4.6	4.7	4.9	5.1	5.0	5.1	5.3	5.5	5.4	5.6	5.8	6.0	5.8	6.0	6.2	6.4	6.2	6.3	6.6	6.8	6.6	6.7	7.0	7.2
		HI PR	232	249	263	275	260	280	295	308	296	318	336	350	337	362	383	399	379	408	430	449	418	450	475	496
		LO PR	112	119	130	138	118	126	137	146	123	131	143	152	129	137	150	160	135	144	157	167	140	149	163	173
	600	MBh	17.4	17.8	18.6	19.9	17.0	17.4	18.2	19.4	16.6	16.9	17.7	18.9	16.2	16.5	17.3	18.5	15.4	15.7	16.4	17.5	14.3	14.5	15.2	16.3
		S/T	0.93	0.89	0.81	0.65	0.96	0.93	0.84	0.68	0.98	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75
		DT	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	24	24	23	20	22	22	22	19
		KW	1.27	1.29	1.33	1.37	1.36	1.39	1.43	1.48	1.44	1.47	1.52	1.57	1.52	1.55	1.60	1.65	1.58	1.61	1.66	1.72	1.63	1.67	1.72	1.78
		AMPS	4.6	4.7	4.9	5.0	5.0	5.1	5.3	5.4	5.4	5.5	5.7	5.9	5.8	5.9	6.1	6.3	6.1	6.3	6.5	6.8	6.5	6.7	6.9	7.2
		HI PR	229	247	261	272	257	277	292	305	293	315	333	347	333	359	379	395	375	404	426	444	414	446	471	491
		LO PR	111	118	129	137	117	125	136	145	122	129	141	151	128	136	148	158	134	143	156	166	139	147	161	171
	525	MBh	16.1	16.4	17.2	18.3	15.7	16.0	16.8	17.9	15.3	15.6	16.4	17.5	15.0	15.3	16.0	17.0	14.2	14.5	15.2	16.2	13.2	13.4	14.1	15.0
		S/T	0.89	0.86	0.78	0.63	0.93	0.89	0.81	0.65	0.95	0.92	0.83	0.67	0.98	0.95	0.85	0.69	1.00	0.98	0.89	0.72	1.00	0.99	0.89	0.72
		DT	25	25	23	20	25	25	24	21	26	25	24	21	26	25	24	21	25	25	24	20	23	23	22	19
		KW	1.24	1.26	1.30	1.34	1.33	1.36	1.40	1.44	1.41	1.44	1.48	1.53	1.48	1.51	1.56	1.61	1.54	1.57	1.62	1.68	1.59	1.63	1.68	1.73
		AMPS	4.5	4.6	4.7	4.9	4.8	4.9	5.1	5.3	5.2	5.4	5.6	5.8	5.6	5.7	5.9	6.2	6.0	6.1	6.3	6.6	6.3	6.5	6.7	7.0
		HI PR	222	239	253	264	250	269	284	296	284	305	323	336	323	348	367	383	364	391	413	431	402	432	457	476
		LO PR	108	114	125	133	114	121	132	140	118	126	137	146	124	132	144	153	130	138	151	161	134	143	156	166

Shaded area is ARI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ13024-1A* / AR*F182416A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	917	MBh	22.5	23.4	25.6	-	22.0	22.8	25.0	-	21.5	22.3	24.4	-	21.0	21.7	23.8	-	19.9	20.6	22.6	-	18.4	19.1	21.0	-
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-
		DT	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-
		KW	1.63	1.66	1.71	-	1.75	1.79	1.84	-	1.86	1.90	1.96	-	1.95	1.99	2.06	-	2.03	2.08	2.14	-	2.10	2.15	2.22	-
		AMPS	5.8	6.0	6.2	-	6.3	6.5	6.7	-	6.9	7.0	7.3	-	7.4	7.5	7.8	-	7.8	8.0	8.3	-	8.3	8.5	8.8	-
		HI PR	226	243	257	-	254	273	288	-	288	310	328	-	328	353	373	-	369	398	420	-	408	439	464	-
		LO PR	106	112	123	-	112	119	130	-	116	123	135	-	122	130	142	-	128	136	148	-	132	141	153	-
	815	MBh	21.9	22.7	24.8	-	21.4	22.2	24.3	-	20.9	21.6	23.7	-	20.4	21.1	23.1	-	19.3	20.0	22.0	-	17.9	18.6	20.3	-
		S/T	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-
		DT	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-
		KW	1.62	1.65	1.70	-	1.74	1.77	1.83	-	1.84	1.88	1.94	-	1.94	1.98	2.04	-	2.01	2.06	2.12	-	2.08	2.13	2.20	-
		AMPS	5.8	5.9	6.1	-	6.3	6.4	6.6	-	6.8	7.0	7.2	-	7.3	7.5	7.7	-	7.8	8.0	8.2	-	8.2	8.5	8.7	-
		HI PR	224	241	254	-	251	270	285	-	285	307	324	-	325	350	369	-	366	394	416	-	404	435	459	-
		LO PR	105	111	122	-	111	118	128	-	115	122	133	-	121	128	140	-	126	135	147	-	131	139	152	-
	713	MBh	20.2	20.9	22.9	-	19.7	20.4	22.4	-	19.3	20.0	21.9	-	18.8	19.5	21.3	-	17.8	18.5	20.3	-	16.5	17.1	18.8	-
		S/T	0.68	0.57	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-
		DT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		KW	1.58	1.61	1.66	-	1.70	1.73	1.78	-	1.80	1.84	1.89	-	1.89	1.93	1.99	-	1.97	2.01	2.07	-	2.03	2.08	2.14	-
		AMPS	5.6	5.8	5.9	-	6.1	6.2	6.4	-	6.6	6.8	7.0	-	7.1	7.3	7.5	-	7.6	7.7	8.0	-	8.0	8.2	8.5	-
		HI PR	217	233	247	-	243	262	277	-	277	298	315	-	315	339	358	-	355	382	403	-	392	422	445	-
		LO PR	101	108	118	-	107	114	125	-	111	119	129	-	117	125	136	-	123	130	142	-	127	135	147	-
75	917	MBh	22.9	23.6	25.5	27.4	22.4	23.0	24.9	26.8	21.9	22.5	24.4	26.1	21.3	**22.0**	23.8	25.5	20.3	20.9	22.6	24.2	18.8	19.3	20.9	22.4
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	**0.83**	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42
		DT	19	18	15	10	20	18	15	10	20	18	15	10	20	**18**	15	10	20	18	15	10	18	17	14	9
		KW	1.64	1.68	1.73	1.78	1.76	1.80	1.86	1.92	1.87	1.91	1.97	2.04	1.97	**2.01**	2.07	2.14	2.05	2.09	2.16	2.23	2.12	2.16	2.23	2.31
		AMPS	5.9	6.0	6.2	6.5	6.4	6.5	6.8	7.0	6.9	7.1	7.4	7.6	7.4	**7.6**	7.9	8.2	7.9	8.1	8.4	8.7	8.4	8.6	8.9	9.3
		HI PR	228	246	259	271	256	276	291	304	291	313	331	345	332	**357**	377	393	373	402	424	442	412	444	469	489
		LO PR	107	114	124	132	113	120	131	139	117	125	136	145	123	**131**	143	152	129	137	150	160	133	142	155	165
	815	MBh	22.3	22.9	24.8	26.6	21.7	22.4	24.2	26.0	21.2	21.8	23.6	25.4	20.7	**21.3**	23.1	24.8	19.7	20.2	21.9	23.5	18.2	18.8	20.3	21.8
		S/T	0.80	0.72	0.54	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.88	**0.79**	0.60	0.38	0.92	0.82	0.62	0.40	0.92	0.83	0.63	0.40
		DT	20	19	15	11	20	19	15	11	20	19	15	11	21	**19**	16	11	20	19	15	11	19	17	14	10
		KW	1.63	1.66	1.71	1.77	1.75	1.79	1.84	1.90	1.86	1.90	1.96	2.02	1.95	**1.99**	2.06	2.12	2.03	2.08	2.14	2.21	2.10	2.15	2.22	2.29
		AMPS	5.8	6.0	6.2	6.4	6.3	6.5	6.7	6.9	6.9	7.1	7.3	7.6	7.4	**7.5**	7.8	8.1	7.8	8.0	8.3	8.6	8.3	8.5	8.8	9.2
		HI PR	226	243	257	268	254	273	288	301	288	310	328	342	328	**353**	373	389	369	398	420	438	408	439	464	484
		LO PR	106	112	123	131	112	119	130	138	116	123	135	144	122	**130**	142	151	128	136	148	158	132	141	153	163
	713	MBh	20.5	21.1	22.9	24.6	20.1	20.7	22.4	24.0	19.6	20.2	21.8	23.4	19.1	**19.7**	21.3	22.9	18.2	18.7	20.2	21.7	16.8	17.3	18.7	20.1
		S/T	0.78	0.69	0.53	0.34	0.80	0.72	0.54	0.35	0.82	0.74	0.56	0.36	0.85	**0.76**	0.58	0.37	0.88	0.79	0.60	0.38	0.89	0.80	0.60	0.39
		DT	21	19	16	11	21	19	16	11	21	19	16	11	21	**19**	16	11	21	19	16	11	19	18	15	10
		KW	1.59	1.62	1.67	1.72	1.71	1.74	1.80	1.86	1.81	1.85	1.91	1.97	1.90	**1.94**	2.01	2.07	1.98	2.02	2.09	2.16	2.05	2.09	2.16	2.23
		AMPS	5.7	5.8	6.0	6.2	6.1	6.3	6.5	6.8	6.7	6.9	7.1	7.4	7.2	**7.3**	7.6	7.9	7.6	7.8	8.1	8.4	8.1	8.3	8.6	8.9
		HI PR	219	236	249	260	246	265	279	292	280	301	318	332	319	**343**	362	378	358	386	407	425	396	426	450	469
		LO PR	103	109	119	127	108	115	126	134	113	120	131	139	118	**126**	137	146	124	132	144	153	128	136	149	159

Shaded area is ACCA (TVA) conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ13024-1A* / AR*F182416A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																					
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																					
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	917	MBh	23.3	23.8	25.5	27.2	22.8	23.3	24.9	26.6	22.2	22.7	24.3	26.0	21.7	22.2	23.7	25.3	20.6	21.1	22.5	24.1	19.1	19.5	20.8	22.3
		S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.81	0.61
		DT	22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	21	21	18	15	19	20	17	14
		KW	1.65	1.69	1.74	1.79	1.78	1.82	1.87	1.93	1.89	1.93	1.99	2.05	1.98	2.03	2.09	2.16	2.06	2.11	2.18	2.25	2.14	2.18	2.25	2.33
		AMPS	5.9	6.1	6.3	6.5	6.4	6.6	6.8	7.1	7.0	7.2	7.4	7.7	7.5	7.7	8.0	8.3	8.0	8.2	8.5	8.8	8.5	8.7	9.0	9.3
		HI PR	231	248	262	273	259	278	294	307	294	317	334	349	335	361	381	397	377	406	428	447	417	448	473	494
		LO PR	108	115	125	133	114	121	132	141	118	126	137	146	124	132	144	154	130	139	151	161	135	143	157	167
	815	MBh	22.6	23.1	24.7	26.4	22.1	22.6	24.2	25.8	21.6	22.1	23.6	25.2	21.1	21.5	**23.0**	24.6	20.0	20.5	21.9	23.4	18.5	18.9	20.2	21.6
		S/T	0.88	0.83	0.67	0.50	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	**0.74**	0.55	1.00	0.94	0.77	0.57	1.00	0.95	0.77	0.58
		DT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	**19**	15	23	22	19	15	21	20	18	14
		KW	1.64	1.68	1.73	1.78	1.76	1.80	1.86	1.92	1.87	1.91	1.97	2.04	1.97	2.01	**2.07**	2.14	2.05	2.09	2.16	2.23	2.12	2.16	2.24	2.31
		AMPS	5.9	6.0	6.2	6.5	6.4	6.5	6.8	7.0	6.9	7.1	7.4	7.6	7.4	7.6	**7.9**	8.2	7.9	8.1	8.4	8.7	8.4	8.6	8.9	9.3
		HI PR	228	246	259	271	256	276	291	304	291	313	331	345	332	357	**377**	393	373	402	424	442	412	444	469	489
		LO PR	107	114	124	132	113	120	131	140	117	125	136	145	123	131	**143**	152	129	137	150	160	133	142	155	165
	713	MBh	20.9	21.4	22.8	24.4	20.4	20.9	22.3	23.8	19.9	20.4	21.8	23.3	19.4	19.9	21.2	22.7	18.5	18.9	20.2	21.6	17.1	17.5	18.7	20.0
		S/T	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.97	0.91	0.74	0.55	0.98	0.92	0.75	0.56
		DT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	20	16	23	22	19	15	22	21	18	14
		KW	1.60	1.64	1.69	1.74	1.72	1.76	1.81	1.87	1.83	1.87	1.92	1.99	1.92	1.96	2.02	2.09	2.00	2.04	2.11	2.18	2.07	2.11	2.18	2.25
		AMPS	5.7	5.9	6.1	6.3	6.2	6.4	6.6	6.8	6.7	6.9	7.2	7.4	7.2	7.4	7.7	8.0	7.7	7.9	8.2	8.5	8.2	8.4	8.7	9.0
		HI PR	221	238	252	262	248	267	282	294	283	304	321	335	322	346	366	381	362	390	411	429	400	430	455	474
		LO PR	104	110	120	128	109	116	127	135	114	121	132	141	119	127	139	148	125	133	145	155	129	138	150	160
85	917	MBh	23.7	24.2	25.3	27.0	23.2	23.6	24.8	26.4	22.6	23.1	24.2	25.8	22.1	22.5	23.6	25.1	21.0	21.4	22.4	23.9	19.4	19.8	20.7	22.1
		S/T	0.97	0.94	0.84	0.69	1.00	0.97	0.88	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
		DT	23	23	21	19	23	23	22	19	23	23	22	19	22	23	22	19	21	21	22	19	19	20	20	17
		KW	1.67	1.70	1.75	1.81	1.79	1.83	1.89	1.95	1.90	1.94	2.00	2.07	2.00	2.04	2.11	2.18	2.08	2.13	2.20	2.27	2.15	2.20	2.27	2.35
		AMPS	6.0	6.1	6.4	6.6	6.5	6.7	6.9	7.1	7.1	7.3	7.5	7.8	7.6	7.8	8.0	8.3	8.1	8.3	8.6	8.9	8.6	8.8	9.1	9.4
		HI PR	233	251	265	276	261	281	297	310	297	320	338	352	338	364	385	401	381	410	433	451	421	453	478	499
		LO PR	109	116	126	135	115	122	134	142	120	127	139	148	126	134	146	155	132	140	153	163	136	145	158	168
	815	MBh	23.0	23.5	24.6	26.2	22.5	22.9	24.0	25.6	22.0	22.4	23.5	25.0	21.4	21.9	22.9	24.4	20.4	20.8	21.7	23.2	18.9	19.2	20.1	21.5
		S/T	0.93	0.89	0.81	0.65	0.96	0.93	0.84	0.68	0.98	0.95	0.86	0.69	1.00	0.98	0.88	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.93	0.75
		DT	24	24	22	19	24	24	23	20	24	24	23	20	24	24	23	20	23	23	23	19	21	22	21	18
		KW	1.65	1.69	1.74	1.79	1.78	1.82	1.87	1.93	1.89	1.93	1.99	2.05	1.98	2.03	2.09	2.16	2.06	2.11	2.18	2.25	2.14	2.18	2.25	2.33
		AMPS	5.9	6.1	6.3	6.5	6.4	6.6	6.8	7.1	7.0	7.2	7.4	7.7	7.5	7.7	8.0	8.3	8.0	8.2	8.5	8.8	8.5	8.7	9.0	9.3
		HI PR	231	248	262	273	259	278	294	307	294	317	334	349	335	361	381	397	377	406	428	447	417	448	473	494
		LO PR	108	115	125	133	114	121	132	141	118	126	137	146	124	132	144	154	130	139	151	161	135	143	157	167
	713	MBh	21.3	21.7	22.7	24.2	20.8	21.2	22.2	23.7	20.3	20.7	21.7	23.1	19.8	20.2	21.1	22.5	18.8	19.2	20.1	21.4	17.4	17.7	18.6	19.8
		S/T	0.89	0.86	0.78	0.63	0.92	0.89	0.81	0.65	0.95	0.91	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	0.99	0.89	0.72
		DT	24.47	24	23	20	25	24	23	20	25	24	23	20	25	25	23	20	24	24	23	20	22	23	21	19
		KW	1.62	1.65	1.70	1.75	1.74	1.77	1.83	1.88	1.84	1.88	1.94	2.00	1.93	1.98	2.04	2.11	2.01	2.06	2.12	2.19	2.08	2.13	2.20	2.27
		AMPS	5.8	5.9	6.1	6.4	6.3	6.4	6.6	6.9	6.8	7.0	7.2	7.5	7.3	7.5	7.7	8.0	7.8	8.0	8.2	8.6	8.2	8.5	8.7	9.1
		HI PR	224	241	254	265	251	270	285	297	285	307	324	338	325	350	369	385	366	393	416	433	404	435	459	479
		LO PR	105	111	121	129	110	118	128	137	115	122	133	142	121	128	140	149	126	134	147	156	131	139	152	162

Shaded area is ARI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ130301A* / AR*F30301A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1173	MBh	27.4	28.4	31.1	-	26.8	27.8	30.4	-	26.1	27.1	29.7	-	25.5	26.4	29.0	-	24.2	25.1	27.5	-	22.4	23.3	25.5	-
		S/T	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.81	0.67	0.47	-	0.83	0.70	0.48	-	0.87	0.72	0.50	-	0.87	0.73	0.51	-
		DT	16	14	11	-	17	14	11	-	17	14	11	-	17	14	11	-	16	14	11	-	15	13	10	-
		KW	1.98	2.02	2.08	-	2.13	2.17	2.24	-	2.25	2.30	2.37	-	2.37	2.42	2.49	-	2.46	2.52	2.60	-	2.55	2.60	2.68	-
		AMPS	7.8	7.9	8.2	-	8.3	8.5	8.8	-	9.0	9.2	9.5	-	9.6	9.8	10.2	-	10.2	10.5	10.8	-	10.8	11.1	11.4	-
		HI PR	229	246	260	-	257	276	292	-	292	314	332	-	333	358	378	-	374	403	425	-	413	445	470	-
		LO PR	107	114	124	-	113	120	131	-	117	125	136	-	123	131	143	-	129	137	150	-	134	142	155	-
	1050	MBh	27.0	28.0	30.7	-	26.4	27.4	30.0	-	25.8	26.7	29.3	-	25.1	26.1	28.5	-	23.9	24.7	27.1	-	22.1	22.9	25.1	-
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.48	-
		DT	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-
		KW	1.97	2.01	2.07	-	2.12	2.16	2.22	-	2.24	2.29	2.36	-	2.35	2.40	2.48	-	2.45	2.50	2.58	-	2.53	2.59	2.67	-
		AMPS	7.7	7.9	8.1	-	8.3	8.5	8.8	-	9.0	9.2	9.5	-	9.6	9.8	10.1	-	10.2	10.4	10.7	-	10.7	11.0	11.3	-
		HI PR	227	245	258	-	255	274	290	-	290	312	330	-	330	355	375	-	372	400	422	-	411	442	467	-
		LO PR	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-	133	141	154	-
	927	MBh	25.7	26.6	29.1	-	25.1	26.0	28.5	-	24.5	25.4	27.8	-	23.9	24.7	27.1	-	22.7	23.5	25.8	-	21.0	21.8	23.9	-
		S/T	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-
		DT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		KW	1.94	1.98	2.04	-	2.08	2.13	2.19	-	2.21	2.25	2.32	-	2.32	2.37	2.44	-	2.41	2.46	2.54	-	2.49	2.54	2.62	-
		AMPS	7.6	7.8	8.0	-	8.2	8.3	8.6	-	8.8	9.0	9.3	-	9.4	9.6	9.9	-	10.0	10.2	10.5	-	10.5	10.8	11.1	-
		HI PR	223	240	253	-	250	269	284	-	284	306	323	-	324	348	368	-	364	392	414	-	402	433	457	-
		LO PR	104	111	121	-	110	117	128	-	114	121	133	-	120	128	139	-	126	134	146	-	130	138	151	-
75	1173	MBh	27.9	28.7	31.1	33.4	27.2	28.0	30.4	32.6	26.6	27.4	29.6	31.8	25.9	**26.7**	28.9	31.0	24.6	25.4	27.5	29.5	22.8	23.5	25.4	27.3
		S/T	0.86	0.77	0.59	0.38	0.90	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	**0.85**	0.64	0.41	0.98	0.88	0.67	0.43	0.99	0.89	0.67	0.43
		DT	19	17	14	10	19	18	14	10	19	18	14	10	19	**18**	15	10	19	17	14	10	18	16	13	9
		KW	2.00	2.04	2.10	2.16	2.14	2.19	2.25	2.33	2.27	2.32	2.39	2.47	2.39	**2.44**	2.51	2.59	2.48	2.54	2.62	2.70	2.57	2.62	2.71	2.79
		AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.9	9.2	9.1	9.3	9.6	10.0	9.7	**9.9**	10.3	10.6	10.3	10.5	10.9	11.3	10.9	11.2	11.5	11.9
		HI PR	231	249	263	274	259	279	295	307	295	317	335	350	336	**362**	382	398	378	407	430	448	418	449	475	495
		LO PR	108	115	125	133	114	121	132	141	118	126	138	147	124	**132**	145	154	130	139	151	161	135	144	157	167
	1050	MBh	27.5	28.3	30.6	32.9	26.8	27.6	29.9	32.1	26.2	27.0	29.2	31.3	25.6	**26.3**	28.5	30.6	24.3	25.0	27.1	29.0	22.5	23.2	25.1	26.9
		S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.91	**0.81**	0.61	0.40	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
		DT	20	18	15	10	20	19	15	10	20	19	15	11	20	**19**	15	11	20	18	15	10	19	17	14	10
		KW	1.99	2.03	2.09	2.15	2.13	2.18	2.24	2.31	2.26	2.31	2.38	2.45	2.37	**2.42**	2.50	2.58	2.47	2.52	2.60	2.69	2.55	2.61	2.69	2.78
		AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.8	9.1	9.1	9.3	9.6	9.9	9.6	**9.9**	10.2	10.6	10.2	10.5	10.8	11.2	10.8	11.1	11.4	11.9
		HI PR	230	247	261	272	258	277	293	305	293	315	333	347	334	**359**	379	395	375	404	427	445	415	446	471	492
		LO PR	107	114	124	133	113	120	131	140	118	125	137	146	124	**131**	144	153	130	138	150	160	134	143	156	166
	927	MBh	26.1	26.9	29.1	31.2	25.5	26.3	28.4	30.5	24.9	25.6	27.7	29.8	24.3	**25.0**	27.1	29.0	23.1	23.8	25.7	27.6	21.4	22.0	23.8	25.6
		S/T	0.79	0.71	0.54	0.35	0.82	0.73	0.56	0.36	0.84	0.75	0.57	0.37	0.87	**0.78**	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.81	0.62	0.40
		DT	21	19	15	11	21	19	16	11	21	19	16	11	21	**19**	16	11	21	19	16	11	19	18	15	10
		KW	1.96	2.00	2.06	2.12	2.10	2.14	2.21	2.28	2.22	2.27	2.34	2.42	2.34	**2.38**	2.46	2.54	2.43	2.48	2.56	2.64	2.51	2.56	2.65	2.73
		AMPS	7.6	7.8	8.1	8.3	8.2	8.4	8.7	9.0	8.9	9.1	9.4	9.7	9.5	**9.7**	10.0	10.4	10.1	10.3	10.6	11.0	10.6	10.9	11.2	11.6
		HI PR	225	242	256	267	252	272	287	299	287	309	326	340	327	**352**	372	388	368	396	418	436	406	437	462	482
		LO PR	105	112	122	130	111	118	129	137	115	123	134	143	121	**129**	141	150	127	135	147	157	131	140	152	162

Shaded area is ACCA (TVA) conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ130301A* / AR*F30301A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1173	MBh	28.4	29.0	31.0	33.1	27.7	28.3	30.3	32.4	27.1	27.7	29.5	31.6	26.4	27.0	28.8	30.8	25.1	25.6	27.4	29.3	23.2	23.7	25.4	27.1
		S/T	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	0.98	0.79	0.59	1.00	1.00	0.82	0.62	1.00	1.00	0.83	0.62
		DT	21	20	18	14	21	20	18	14	21	20	18	14	21	21	18	14	20	20	18	14	18	19	17	13
		KW	2.01	2.05	2.12	2.18	2.16	2.20	2.27	2.34	2.29	2.34	2.41	2.49	2.41	2.46	2.53	2.62	2.50	2.56	2.64	2.72	2.59	2.64	2.73	2.82
		AMPS	7.9	8.1	8.3	8.6	8.5	8.7	9.0	9.3	9.2	9.4	9.7	10.1	9.8	10.0	10.3	10.7	10.4	10.6	11.0	11.4	11.0	11.3	11.6	12.0
		HI PR	234	251	265	277	262	282	298	311	298	321	339	353	339	365	386	402	382	411	434	453	422	454	479	500
		LO PR	109	116	127	135	115	123	134	142	120	127	139	148	126	134	146	156	132	140	153	163	136	145	158	169
	1050	MBh	28.0	28.6	30.5	32.6	27.3	27.9	29.8	31.9	26.7	27.2	29.1	31.1	26.0	26.6	**28.4**	30.4	24.7	25.3	27.0	28.8	22.9	23.4	25.0	26.7
		S/T	0.91	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.96	0.90	0.74	0.55	1.00	0.93	**0.76**	0.57	1.00	0.97	0.79	0.59	1.00	0.98	0.80	0.59
		DT	22	21	19	15	22	22	19	15	23	22	19	15	23	22	**19**	15	22	21	19	15	20	20	17	14
		KW	2.00	2.04	2.10	2.17	2.15	2.19	2.26	2.33	2.28	2.33	2.40	2.47	2.39	2.44	**2.52**	2.60	2.49	2.54	2.62	2.71	2.57	2.63	2.71	2.80
		AMPS	7.8	8.0	8.3	8.6	8.4	8.6	8.9	9.2	9.1	9.3	9.6	10.0	9.7	10.0	**10.3**	10.7	10.3	10.6	10.9	11.3	10.9	11.2	11.5	12.0
		HI PR	232	250	264	275	260	280	296	308	296	318	336	351	337	363	**383**	399	379	408	431	449	419	451	476	497
		LO PR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	**145**	154	131	139	152	162	135	144	157	167
	927	MBh	26.6	27.1	29.0	31.0	25.9	26.5	28.3	30.3	25.3	25.9	27.7	29.6	24.7	25.3	27.0	28.8	23.5	24.0	25.6	27.4	21.7	22.2	23.7	25.4
		S/T	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.92	0.87	0.71	0.53	0.95	0.89	0.73	0.54	0.99	0.93	0.76	0.56	1.00	0.94	0.76	0.57
		DT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	16	23	22	19	15	22	21	18	14
		KW	1.97	2.01	2.07	2.13	2.12	2.16	2.22	2.29	2.24	2.29	2.36	2.43	2.35	2.40	2.48	2.56	2.45	2.50	2.58	2.66	2.53	2.59	2.67	2.76
		AMPS	7.7	7.9	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.8	9.6	9.8	10.1	10.5	10.2	10.4	10.7	11.1	10.7	11.0	11.3	11.8
		HI PR	227	245	258	269	255	274	290	302	290	312	330	344	330	355	375	391	372	400	422	440	411	442	467	487
		LO PR	106	113	123	131	112	119	130	139	116	124	135	144	122	130	142	151	128	136	149	159	133	141	154	164
85	1173	MBh	28.9	29.4	30.8	32.9	28.2	28.8	30.1	32.1	27.5	28.1	29.4	31.4	26.9	27.4	28.7	30.6	25.5	26.0	27.2	29.1	23.6	24.1	25.2	26.9
		S/T	0.99	0.96	0.87	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.99	0.80	1.00	1.00	0.99	0.81
		DT	22	22	21	18	22	22	21	18	22	22	21	18	21	21	21	18	20	20	21	18	19	19	20	17
		KW	2.03	2.07	2.13	2.20	2.18	2.22	2.29	2.36	2.31	2.36	2.43	2.51	2.42	2.48	2.55	2.64	2.52	2.58	2.66	2.75	2.61	2.66	2.75	2.84
		AMPS	8.0	8.1	8.4	8.7	8.6	8.8	9.0	9.4	9.3	9.5	9.8	10.1	9.9	10.1	10.4	10.8	10.5	10.7	11.1	11.5	11.1	11.4	11.7	12.2
		HI PR	236	254	268	280	265	285	301	314	301	324	342	357	343	369	390	406	386	415	438	457	426	459	484	505
		LO PR	110	117	128	136	116	124	135	144	121	129	140	150	127	135	147	157	133	142	155	165	138	146	160	170
	1050	MBh	28.5	29.0	30.4	32.4	27.8	28.3	29.7	31.7	27.1	27.7	29.0	30.9	26.5	27.0	28.3	30.1	25.1	25.6	26.8	28.6	23.3	23.7	24.9	26.5
		S/T	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.77	1.00	1.00	0.95	0.77
		DT	24	23	22	19	24	24	22	19	24	24	22	19	23	24	22	19	22	22	22	19	20	21	21	18
		KW	2.02	2.06	2.12	2.19	2.17	2.21	2.28	2.35	2.30	2.34	2.42	2.49	2.41	2.46	2.54	2.62	2.51	2.56	2.64	2.73	2.59	2.65	2.74	2.82
		AMPS	7.9	8.1	8.3	8.6	8.5	8.7	9.0	9.3	9.2	9.4	9.7	10.1	9.8	10.1	10.4	10.7	10.4	10.7	11.0	11.4	11.0	11.3	11.6	12.1
		HI PR	234	252	266	278	263	283	299	311	299	322	340	354	340	366	387	403	383	412	435	454	423	455	481	502
		LO PR	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169
	927	MBh	27.0	27.6	28.9	30.8	26.4	26.9	28.2	30.1	25.8	26.3	27.5	29.4	25.1	25.6	26.8	28.6	23.9	24.4	25.5	27.2	22.1	22.6	23.6	25.2
		S/T	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.67	0.97	0.93	0.84	0.68	1.00	0.96	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.74
		DT	24	24	23	20	25	24	23	20	25	24	23	20	25	25	23	20	24	24	23	20	22	22	21	18
		KW	1.99	2.03	2.09	2.15	2.13	2.18	2.24	2.31	2.26	2.31	2.38	2.45	2.37	2.42	2.50	2.58	2.47	2.52	2.60	2.69	2.55	2.61	2.69	2.78
		AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.8	9.1	9.1	9.3	9.6	9.9	9.6	9.9	10.2	10.6	10.2	10.5	10.8	11.2	10.8	11.1	11.4	11.9
		HI PR	230	247	261	272	258	277	293	305	293	315	333	347	334	359	379	395	375	404	426	445	415	446	471	491
		LO PR	107	114	124	133	113	120	131	140	118	125	137	146	124	131	144	153	130	138	150	160	134	143	156	166

Shaded area is ARI Rating Conditions

IDB: Entering Indoor Dry Bulb Temperature

KW=Total system power

AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ130361A* / AR*F364216A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1425	MBh	33.8	35.0	38.4	-	33.0	34.2	37.5	-	32.2	33.4	36.6	-	31.4	32.6	35.7	-	29.9	31.0	33.9	-	27.7	28.7	31.4	-
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-
		DT	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-
		KW	2.60	2.65	2.73	-	2.79	2.84	2.92	-	2.95	3.01	3.10	-	3.09	3.15	3.25	-	3.21	3.28	3.38	-	3.32	3.38	3.49	-
		AMPS	9.4	9.7	10.0	-	10.2	10.4	10.7	-	11.0	11.3	11.7	-	11.8	12.0	12.4	-	12.5	12.8	13.2	-	13.2	13.6	14.0	-
		HI PR	239	257	272	-	268	289	305	-	305	328	347	-	347	374	395	-	391	421	444	-	432	465	491	-
		LO PR	108	114	125	-	114	121	132	-	118	126	137	-	124	132	144	-	130	138	151	-	134	143	156	-
	1275	MBh	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.9	36.1	-	31.0	32.1	35.2	-	29.4	30.5	33.4	-	27.3	28.3	31.0	-
		S/T	0.71	0.59	0.41	-	0.73	0.61	0.43	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-
		DT	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-
		KW	2.59	2.64	2.72	-	2.77	2.83	2.91	-	2.93	2.99	3.08	-	3.07	3.14	3.23	-	3.19	3.26	3.36	-	3.30	3.37	3.47	-
		AMPS	9.4	9.6	9.9	-	10.1	10.3	10.7	-	11.0	11.2	11.6	-	11.7	12.0	12.4	-	12.4	12.7	13.1	-	13.2	13.5	13.9	-
		HI PR	237	255	270	-	266	287	303	-	303	326	344	-	345	371	392	-	388	418	441	-	429	461	487	-
		LO PR	107	114	124	-	113	120	131	-	117	125	136	-	123	131	143	-	129	137	150	-	134	142	155	-
	1125	MBh	31.6	32.8	35.9	-	30.9	32.0	35.1	-	30.2	31.3	34.3	-	29.4	30.5	33.4	-	28.0	29.0	31.7	-	25.9	26.8	29.4	-
		S/T	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.65	0.45	-	0.78	0.65	0.45	-
		DT	18	15	12	-	18	15	12	-	18	15	12	-	18	16	12	-	18	15	12	-	16	14	11	-
		KW	2.55	2.60	2.68	-	2.73	2.78	2.87	-	2.89	2.95	3.03	-	3.03	3.09	3.18	-	3.14	3.21	3.31	-	3.25	3.31	3.42	-
		AMPS	9.2	9.4	9.7	-	9.9	10.2	10.5	-	10.8	11.0	11.4	-	11.5	11.8	12.1	-	12.2	12.5	12.9	-	12.9	13.2	13.7	-
		HI PR	233	250	264	-	261	281	297	-	297	319	337	-	338	364	384	-	380	409	432	-	420	452	478	-
		LO PR	105	111	122	-	111	118	128	-	115	122	133	-	121	128	140	-	127	135	147	-	131	139	152	-
75	1425	MBh	34.4	35.4	38.3	41.1	33.6	34.6	37.4	40.2	32.8	33.7	36.5	39.2	32.0	**32.9**	35.6	38.2	30.4	31.3	33.8	36.3	28.1	29.0	31.4	33.7
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.89	0.80	0.61	0.39	0.92	**0.83**	0.62	0.40	0.96	0.86	0.65	0.42	0.97	0.86	0.65	0.42
		DT	19	17	14	10	19	17	14	10	19	17	14	10	19	**18**	14	10	19	17	14	10	18	16	13	9
		KW	2.62	2.67	2.75	2.83	2.81	2.86	2.95	3.04	2.97	3.03	3.12	3.22	3.11	**3.18**	3.28	3.38	3.24	3.30	3.41	3.51	3.34	3.41	3.52	3.63
		AMPS	9.5	9.7	10.0	10.4	10.3	10.5	10.8	11.2	11.1	11.4	11.8	12.2	11.9	**12.2**	12.6	13.0	12.6	12.9	13.3	13.8	13.4	13.7	14.1	14.7
		HI PR	241	260	274	286	271	292	308	321	308	332	350	365	351	**378**	399	416	395	425	449	468	436	469	496	517
		LO PR	109	116	126	134	115	122	133	142	119	127	139	148	125	**133**	146	155	131	140	153	162	136	145	158	168
	1275	MBh	33.9	34.9	37.7	40.5	33.1	34.1	36.9	39.6	32.3	33.2	36.0	38.6	31.5	**32.4**	35.1	37.7	29.9	30.8	33.3	35.8	27.7	28.5	30.9	33.2
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.37	0.88	**0.79**	0.60	0.38	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40
		DT	20	18	15	10	20	18	15	10	20	18	15	10	20	**18**	15	10	20	18	15	10	18	17	14	10
		KW	2.61	2.66	2.74	2.82	2.79	2.85	2.93	3.02	2.95	3.01	3.10	3.20	3.10	**3.16**	3.26	3.36	3.22	3.29	3.39	3.49	3.32	3.39	3.50	3.61
		AMPS	9.5	9.7	10.0	10.3	10.2	10.4	10.8	11.2	11.1	11.3	11.7	12.1	11.8	**12.1**	12.5	12.9	12.5	12.8	13.3	13.8	13.3	13.6	14.0	14.6
		HI PR	240	258	272	284	269	290	306	319	306	329	348	363	348	**375**	396	413	392	422	446	465	433	466	492	513
		LO PR	108	115	125	133	114	121	132	141	118	126	138	147	124	**132**	145	154	130	139	151	161	135	144	157	167
	1125	MBh	32.2	33.1	35.9	38.5	31.4	32.4	35.0	37.6	30.7	31.6	34.2	36.7	29.9	**30.8**	33.3	35.8	28.4	29.3	31.7	34.0	26.3	27.1	29.3	31.5
		S/T	0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.82	0.73	0.56	0.36	0.85	**0.76**	0.57	0.37	0.88	0.79	0.59	0.38	0.89	0.79	0.60	0.39
		DT	20	19	15	11	21	19	15	11	21	19	16	11	21	**19**	16	11	20	19	15	11	19	18	14	10
		KW	2.57	2.62	2.70	2.77	2.75	2.81	2.89	2.97	2.91	2.97	3.06	3.15	3.05	**3.11**	3.21	3.31	3.17	3.23	3.33	3.44	3.27	3.34	3.44	3.55
		AMPS	9.3	9.5	9.8	10.2	10.0	10.3	10.6	11.0	10.9	11.1	11.5	11.9	11.6	**11.9**	12.3	12.7	12.3	12.6	13.0	13.5	13.0	13.3	13.8	14.3
		HI PR	235	253	267	278	264	284	300	312	300	323	341	355	342	**368**	388	405	384	413	437	455	424	457	482	503
		LO PR	106	112	123	131	112	119	130	138	116	124	135	144	122	**130**	142	151	128	136	148	158	132	141	154	164

Shaded area is ACCA (TVA) conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ130361A* / AR*F364216A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1425	MBh	34.98	35.75	38.19	40.82	34.17	34.91	37.30	39.88	33.35	34.08	36.41	38.93	32.54	33.25	35.53	37.98	30.91	31.59	33.75	36.08	28.64	29.26	31.26	33.42
		S/T	0.92	0.87	0.70	0.53	0.96	0.90	0.73	0.55	0.98	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.81	0.60
		DT	21	20	17	14	21	20	18	14	21	20	18	14	21	20	18	14	20	20	17	14	18	19	16	13
		KW	2.64	2.69	2.77	2.85	2.83	2.88	2.97	3.06	2.99	3.05	3.15	3.24	3.14	3.20	3.30	3.40	3.26	3.33	3.43	3.54	3.37	3.44	3.55	3.66
		AMPS	9.6	9.8	10.1	10.5	10.4	10.6	10.9	11.3	11.2	11.5	11.9	12.3	12.0	12.3	12.7	13.1	12.7	13.0	13.5	14.0	13.5	13.8	14.3	14.8
		HI PR	244	262	277	289	274	294	311	324	311	335	354	369	354	381	403	420	399	429	453	473	441	474	501	522
		LO PR	110	117	127	136	116	123	135	143	121	128	140	149	127	135	147	157	133	141	154	164	137	146	159	170
	1275	MBh	34.5	35.2	37.6	40.2	33.7	34.4	36.8	39.3	32.9	33.6	35.9	38.4	32.1	32.8	**35.0**	37.4	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9
		S/T	0.88	0.83	0.67	0.50	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	**0.74**	0.55	1.00	0.94	0.77	0.57	1.00	0.95	0.77	0.58
		DT	22	21	18	15	22	21	19	15	22	21	19	15	22	21	**19**	15	22	21	18	15	20	20	17	14
		KW	2.63	2.68	2.76	2.84	2.81	2.87	2.95	3.04	2.98	3.04	3.13	3.23	3.12	3.19	**3.28**	3.39	3.24	3.31	3.41	3.52	3.35	3.42	3.53	3.64
		AMPS	9.5	9.8	10.1	10.4	10.3	10.5	10.9	11.3	11.2	11.4	11.8	12.2	11.9	12.2	**12.6**	13.1	12.7	13.0	13.4	13.9	13.4	13.7	14.2	14.7
		HI PR	242	261	275	287	272	292	309	322	309	333	351	366	352	379	**400**	417	396	426	450	469	438	471	497	519
		LO PR	109	116	127	135	115	123	134	142	120	127	139	148	126	134	**146**	155	132	140	153	163	136	145	158	169
	1125	MBh	32.7	33.5	35.7	38.2	32.0	32.7	34.9	37.3	31.2	31.9	34.1	36.4	30.5	31.1	33.3	35.5	28.9	29.6	31.6	33.8	26.8	27.4	29.3	31.3
		S/T	0.85	0.79	0.65	0.48	0.88	0.82	0.67	0.50	0.90	0.84	0.69	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.74	0.55	0.97	0.91	0.74	0.55
		DT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	20	18	14
		KW	2.59	2.64	2.72	2.80	2.77	2.83	2.91	3.00	2.93	2.99	3.08	3.18	3.07	3.14	3.23	3.33	3.19	3.26	3.36	3.47	3.30	3.37	3.47	3.58
		AMPS	9.4	9.6	9.9	10.3	10.1	10.3	10.7	11.1	11.0	11.2	11.6	12.0	11.7	12.0	12.4	12.8	12.4	12.7	13.1	13.6	13.2	13.5	13.9	14.4
		HI PR	237	255	270	281	266	287	303	316	303	326	344	359	345	371	392	409	388	418	441	460	429	461	487	508
		LO PR	107	114	124	132	113	120	131	140	117	125	136	145	123	131	143	152	129	137	150	160	134	142	155	165
85	1425	MBh	35.59	36.28	38.00	40.54	34.76	35.44	37.11	39.60	33.94	34.59	36.23	38.65	33.11	33.75	35.35	37.71	31.45	32.06	33.58	35.82	29.14	29.70	31.11	33.19
		S/T	0.97	0.93	0.84	0.68	1.00	0.97	0.87	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.78
		DT	22	22	21	18	22	22	21	18	22	22	21	18	21	22	21	18	20	21	21	18	19	19	19	17
		KW	2.66	2.71	2.79	2.87	2.85	2.91	2.99	3.08	3.02	3.08	3.17	3.27	3.16	3.23	3.33	3.43	3.29	3.36	3.46	3.57	3.39	3.47	3.57	3.69
		AMPS	9.7	9.9	10.2	10.6	10.4	10.7	11.0	11.4	11.3	11.6	12.0	12.4	12.1	12.4	12.8	13.3	12.9	13.2	13.6	14.1	13.6	13.9	14.4	14.9
		HI PR	246	265	280	292	276	297	314	328	314	338	357	373	358	385	407	424	403	433	458	477	445	479	506	527
		LO PR	111	118	129	137	117	125	136	145	122	129	141	151	128	136	148	158	134	143	156	166	139	147	161	171
	1275	MBh	35.1	35.7	37.4	39.9	34.3	34.9	36.6	39.0	33.4	34.1	35.7	38.1	32.6	33.3	34.8	37.2	31.0	31.6	33.1	35.3	28.7	29.3	30.6	32.7
		S/T	0.93	0.89	0.81	0.65	0.96	0.93	0.84	0.68	0.98	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75
		DT	23	23	22	19	24	23	22	19	24	23	22	19	24	24	22	19	22	23	22	19	21	21	20	18
		KW	2.65	2.70	2.78	2.86	2.83	2.89	2.98	3.07	3.00	3.06	3.15	3.25	3.15	3.21	3.31	3.41	3.27	3.34	3.44	3.55	3.38	3.45	3.56	3.67
		AMPS	9.6	9.9	10.2	10.5	10.4	10.6	11.0	11.4	11.3	11.5	11.9	12.3	12.0	12.3	12.7	13.2	12.8	13.1	13.5	14.0	13.5	13.8	14.3	14.8
		HI PR	245	263	278	290	274	295	312	325	312	336	355	370	356	383	404	421	400	430	455	474	442	476	502	524
		LO PR	110	117	128	136	116	124	135	144	121	129	140	150	127	135	147	157	133	142	155	165	138	146	160	170
	1125	MBh	33.3	34.0	35.6	37.9	32.5	33.2	34.7	37.1	31.8	32.4	33.9	36.2	31.0	31.6	33.1	35.3	29.4	30.0	31.4	33.5	27.3	27.8	29.1	31.1
		S/T	0.89	0.86	0.77	0.63	0.92	0.89	0.80	0.65	0.94	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	0.98	0.89	0.72
		DT	24	24	22	19	24	24	23	20	24	24	23	20	25	24	23	20	24	24	23	20	22	22	21	18
		KW	2.61	2.66	2.74	2.82	2.79	2.85	2.93	3.02	2.95	3.01	3.10	3.20	3.10	3.16	3.26	3.36	3.22	3.28	3.39	3.49	3.32	3.39	3.50	3.61
		AMPS	9.5	9.7	10.0	10.3	10.2	10.4	10.8	11.2	11.1	11.3	11.7	12.1	11.8	12.1	12.5	12.9	12.5	12.8	13.3	13.8	13.3	13.6	14.0	14.6
		HI PR	240	258	272	284	269	289	306	319	306	329	348	363	348	375	396	413	392	422	445	465	433	466	492	513
		LO PR	108	115	125	133	114	121	132	141	118	126	138	147	124	132	145	154	130	139	151	161	135	143	157	167

Shaded area is ARI Rating Conditions

IDB: Entering Indoor Dry Bulb Temperature

KW=Total system power

AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ130421A* / AR*F364216A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1575	MBh	39.7	41.1	45.1	-	38.8	40.2	44.0	-	37.8	39.2	43.0	-	36.9	38.3	41.9	-	35.1	36.4	39.8	-	32.5	33.7	36.9	-
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-
		DT	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-
		KW	2.94	2.99	3.08	-	3.14	3.20	3.29	-	3.32	3.38	3.48	-	3.48	3.55	3.65	-	3.61	3.68	3.80	-	3.73	3.80	3.92	-
		AMPS	11.5	11.8	12.2	-	12.4	12.7	13.1	-	13.5	13.8	14.3	-	14.4	14.8	15.2	-	15.3	15.7	16.2	-	16.2	16.6	17.2	-
		HI PR	240	258	272	-	269	289	306	-	306	329	348	-	348	375	396	-	392	422	445	-	433	466	492	-
		LO PR	106	113	124	-	112	120	131	-	117	124	136	-	123	131	143	-	129	137	149	-	133	142	155	-
	1400	MBh	38.5	39.9	43.8	-	37.6	39.0	42.7	-	36.7	38.1	41.7	-	35.8	37.1	40.7	-	34.1	35.3	38.7	-	31.5	32.7	35.8	-
		S/T	0.71	0.59	0.41	-	0.73	0.61	0.43	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-
		DT	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	2.92	2.97	3.05	-	3.12	3.18	3.27	-	3.29	3.36	3.46	-	3.45	3.52	3.62	-	3.58	3.66	3.77	-	3.70	3.77	3.89	-
		AMPS	11.4	11.7	12.0	-	12.3	12.6	13.0	-	13.4	13.7	14.1	-	14.3	14.6	15.1	-	15.2	15.6	16.1	-	16.1	16.5	17.0	-
		HI PR	237	255	270	-	266	287	303	-	303	326	344	-	345	371	392	-	388	418	441	-	429	461	487	-
		LO PR	105	112	122	-	111	118	129	-	116	123	134	-	122	129	141	-	127	135	148	-	132	140	153	-
	1225	MBh	35.6	36.9	40.4	-	34.7	36.0	39.4	-	33.9	35.1	38.5	-	33.1	34.3	37.6	-	31.4	32.6	35.7	-	29.1	30.2	33.1	-
		S/T	0.68	0.57	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.78	0.66	0.45	-
		DT	18	16	12	-	18	16	12	-	18	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		KW	2.85	2.91	2.99	-	3.05	3.11	3.20	-	3.22	3.28	3.38	-	3.37	3.44	3.54	-	3.50	3.57	3.68	-	3.61	3.68	3.80	-
		AMPS	11.1	11.4	11.7	-	12.0	12.3	12.7	-	13.0	13.3	13.7	-	13.9	14.2	14.7	-	14.8	15.1	15.6	-	15.6	16.0	16.6	-
		HI PR	230	248	262	-	258	278	294	-	294	316	334	-	335	360	380	-	376	405	428	-	416	448	473	-
		LO PR	102	109	119	-	108	115	125	-	112	119	130	-	118	125	137	-	124	131	143	-	128	136	148	-
75	1575	MBh	40.4	41.6	45.0	48.3	39.4	40.6	43.9	47.2	38.5	39.6	42.9	46.0	37.5	**38.7**	41.8	44.9	35.7	36.7	39.7	42.7	33.0	34.0	36.8	39.5
		S/T	0.84	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	**0.83**	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42
		DT	20	18	15	10	20	19	15	10	20	19	15	11	20	**19**	15	11	20	18	15	10	19	17	14	10
		KW	2.96	3.01	3.10	3.19	3.16	3.22	3.32	3.42	3.34	3.41	3.51	3.62	3.50	**3.57**	3.68	3.79	3.64	3.71	3.83	3.94	3.75	3.83	3.95	4.07
		AMPS	11.6	11.9	12.3	12.7	12.5	12.8	13.3	13.7	13.6	13.9	14.4	14.9	14.5	**14.9**	15.4	16.0	15.5	15.8	16.4	17.0	16.4	16.8	17.4	18.0
		HI PR	242	261	275	287	272	292	309	322	309	333	351	366	352	**379**	400	417	396	426	450	469	437	471	497	519
		LO PR	107	114	125	133	114	121	132	140	118	126	137	146	124	**132**	144	153	130	138	151	161	134	143	156	166
	1400	MBh	39.2	40.3	43.7	46.9	38.3	39.4	42.7	45.8	37.4	38.5	41.6	44.7	36.5	**37.5**	40.6	43.6	34.6	35.7	38.6	41.4	32.1	33.0	35.7	38.4
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.37	0.88	**0.79**	0.60	0.38	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40
		DT	21	19	16	11	21	19	16	11	21	19	16	11	21	**19**	16	11	21	19	16	11	19	18	15	10
		KW	2.94	2.99	3.08	3.17	3.14	3.20	3.29	3.39	3.32	3.38	3.48	3.59	3.48	**3.55**	3.65	3.76	3.61	3.68	3.80	3.91	3.73	3.80	3.92	4.04
		AMPS	11.5	11.8	12.2	12.6	12.4	12.7	13.1	13.6	13.5	13.8	14.3	14.8	14.4	**14.8**	15.2	15.8	15.3	15.7	16.2	16.8	16.2	16.6	17.2	17.8
		HI PR	240	258	272	284	269	290	306	319	306	329	348	363	348	**375**	396	413	392	422	446	465	433	466	492	513
		LO PR	106	113	124	132	112	120	131	139	117	124	136	145	123	**131**	143	152	129	137	149	159	133	142	155	165
	1225	MBh	36.2	37.2	40.3	43.3	35.3	36.4	39.4	42.3	34.5	35.5	38.4	41.2	33.6	**34.6**	37.5	40.2	32.0	32.9	35.6	38.2	29.6	30.5	33.0	35.4
		S/T	0.78	0.69	0.53	0.34	0.81	0.72	0.55	0.35	0.83	0.74	0.56	0.36	0.85	**0.76**	0.58	0.37	0.88	0.79	0.60	0.39	0.89	0.80	0.60	0.39
		DT	21	19	16	11	21	20	16	11	21	20	16	11	22	**20**	16	11	21	20	16	11	20	18	15	10
		KW	2.87	2.93	3.01	3.10	3.07	3.13	3.22	3.31	3.24	3.31	3.41	3.51	3.40	**3.46**	3.57	3.68	3.53	3.60	3.71	3.82	3.64	3.71	3.83	3.95
		AMPS	11.2	11.5	11.8	12.3	12.1	12.4	12.8	13.2	13.1	13.4	13.9	14.4	14.0	**14.4**	14.8	15.4	14.9	15.3	15.8	16.4	15.8	16.2	16.7	17.4
		HI PR	233	250	264	276	261	281	297	309	297	319	337	352	338	**364**	384	401	380	409	432	451	420	452	477	498
		LO PR	103	110	120	128	109	116	127	135	113	121	132	140	119	**127**	138	147	125	133	145	154	129	137	150	160

Shaded area is ACCA (TVA) conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ130421A* / AR*F364216A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1575	MBh	40.6	41.5	44.3	47.3	39.6	40.5	43.3	46.2	38.7	39.5	42.2	45.1	37.7	38.6	41.2	44.0	35.9	36.6	39.1	41.8	33.2	33.9	36.3	38.8
		S/T	0.97	0.91	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.96	0.78	0.59	1.00	1.00	0.81	0.60	1.00	1.00	0.84	0.63	1.00	1.00	0.85	0.63
		Delta T	23	22	19	15	23	22	19	15	23	22	19	15	22	23	19	16	21	21	19	15	19	20	18	14
		KW	2.69	2.75	2.83	2.91	2.88	2.94	3.03	3.12	3.05	3.11	3.21	3.31	3.20	3.27	3.37	3.47	3.33	3.40	3.50	3.61	3.44	3.51	3.62	3.73
		AMPS	9.9	10.1	10.4	10.8	10.6	10.9	11.2	11.6	11.5	11.8	12.2	12.6	12.3	12.6	13.0	13.5	13.1	13.4	13.8	14.3	13.8	14.2	14.6	15.2
		HI PR	222	239	252	263	249	268	283	295	283	305	322	336	323	347	367	382	363	391	412	430	401	432	456	475
		LO PR	110	117	127	136	116	123	134	143	120	128	140	149	126	134	147	156	132	141	154	164	137	146	159	169
	1400	MBh	39.4	40.2	43.0	46.0	38.5	39.3	42.0	44.9	37.6	38.4	41.0	43.8	36.6	37.4	**40.0**	42.8	34.8	35.6	38.0	40.6	32.2	32.9	35.2	37.6
		S/T	0.92	0.86	0.70	0.53	0.95	0.90	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.95	**0.77**	0.58	1.00	0.98	0.80	0.60	1.00	0.99	0.81	0.60
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	**20**	16	23	23	20	16	21	21	19	15
		KW	2.67	2.73	2.80	2.89	2.86	2.92	3.01	3.10	3.03	3.09	3.18	3.28	3.18	3.24	**3.34**	3.45	3.30	3.37	3.48	3.59	3.41	3.48	3.59	3.71
		AMPS	9.8	10.0	10.3	10.7	10.5	10.8	11.1	11.5	11.4	11.7	12.1	12.5	12.2	12.5	**12.9**	13.3	12.9	13.3	13.7	14.2	13.7	14.0	14.5	15.0
		HI PR	220	237	250	260	247	265	280	292	280	302	319	332	319	344	**363**	379	359	387	408	426	397	427	451	471
		LO PR	109	115	126	134	115	122	133	142	119	127	138	147	125	133	**145**	155	131	140	152	162	136	144	158	168
	1225	MBh	36.4	37.1	39.7	42.4	35.5	36.3	38.8	41.4	34.7	35.4	37.8	40.5	33.8	34.6	36.9	39.5	32.1	32.8	35.1	37.5	29.8	30.4	32.5	34.7
		S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.56	1.01	0.95	0.77	0.58	1.02	0.96	0.78	0.58
		Delta T	24	23	20	16	25	24	20	16	25	24	20	16	25	24	21	16	24	23	20	16	23	22	19	15
		KW	2.61	2.67	2.74	2.82	2.80	2.85	2.94	3.03	2.96	3.02	3.11	3.21	3.10	3.17	3.26	3.36	3.22	3.29	3.39	3.50	3.33	3.40	3.50	3.62
		AMPS	9.5	9.7	10.0	10.4	10.3	10.5	10.8	11.2	11.1	11.4	11.7	12.2	11.9	12.1	12.5	13.0	12.6	12.9	13.3	13.8	13.3	13.6	14.1	14.6
		HI PR	213	229	242	253	239	257	272	284	272	293	309	322	310	333	352	367	349	375	396	413	385	414	438	456
		LO PR	105	112	122	130	111	118	129	138	116	123	134	143	121	129	141	150	127	135	148	157	132	140	153	163
85	1575	MBh	41.3	42.1	44.1	47.0	40.3	41.1	43.0	45.9	39.4	40.1	42.0	44.8	38.4	39.1	41.0	43.7	36.5	37.2	38.9	41.5	33.8	34.4	36.1	38.5
		S/T	1.00	0.98	0.88	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.78	1.00	1.00	1.00	0.81	1.00	1.00	1.00	0.82
		Delta T	24	24	23	20	24	24	23	20	23	23	23	20	22	23	23	20	21	22	23	20	20	20	21	18
		KW	2.71	2.77	2.85	2.93	2.91	2.96	3.05	3.15	3.08	3.14	3.23	3.33	3.23	3.29	3.39	3.50	3.35	3.42	3.53	3.64	3.46	3.54	3.65	3.76
		AMPS	9.9	10.2	10.5	10.9	10.7	11.0	11.3	11.7	11.6	11.9	12.3	12.7	12.4	12.7	13.1	13.6	13.2	13.5	13.9	14.5	13.9	14.3	14.8	15.3
		HI PR	224	241	255	266	252	271	286	298	286	308	325	339	326	351	370	386	367	395	417	434	405	436	460	480
		LO PR	111	118	129	137	117	124	136	145	122	129	141	150	128	136	148	158	134	142	155	165	138	147	161	171
	1400	MBh	40.1	40.9	42.8	45.6	39.1	39.9	41.8	44.6	38.2	39.0	40.8	43.5	37.3	38.0	39.8	42.5	35.4	36.1	37.8	40.3	32.8	33.4	35.0	37.4
		S/T	0.97	0.93	0.84	0.68	1.00	0.97	0.87	0.71	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.78
		Delta T	25	25	24	20	26	25	24	21	25	25	24	21	24	25	24	21	23	24	24	21	22	22	22	19
		KW	2.69	2.75	2.83	2.91	2.88	2.94	3.03	3.12	3.05	3.11	3.21	3.31	3.20	3.27	3.37	3.47	3.33	3.40	3.50	3.61	3.44	3.51	3.62	3.73
		AMPS	9.9	10.1	10.4	10.8	10.6	10.9	11.2	11.6	11.5	11.8	12.2	12.6	12.3	12.6	13.0	13.5	13.1	13.4	13.8	14.3	13.8	14.2	14.6	15.2
		HI PR	222	239	252	263	249	268	283	295	283	305	322	336	323	347	367	382	363	391	412	430	401	432	456	475
		LO PR	110	117	127	136	116	123	134	143	120	128	140	149	126	134	147	156	132	141	154	164	137	146	159	169
	1225	MBh	37.0	37.7	39.5	42.1	36.1	36.8	38.6	41.2	35.3	36.0	37.7	40.2	34.4	35.1	36.7	39.2	32.7	33.3	34.9	37.2	30.3	30.9	32.3	34.5
		S/T	0.93	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.76
		Delta T	26	25	24	21	26	26	24	21	26	26	24	21	26	26	25	21	25	25	24	21	23	23	23	20
		KW	2.63	2.68	2.76	2.84	2.82	2.87	2.96	3.05	2.98	3.04	3.13	3.23	3.13	3.19	3.29	3.39	3.25	3.32	3.42	3.53	3.36	3.43	3.53	3.64
		AMPS	9.6	9.8	10.1	10.5	10.3	10.6	10.9	11.3	11.2	11.5	11.8	12.3	12.0	12.2	12.6	13.1	12.7	13.0	13.4	13.9	13.4	13.8	14.2	14.7
		HI PR	215	232	245	255	242	260	275	286	275	296	312	326	313	337	356	371	352	379	400	417	389	419	442	461
		LO PR	106	113	123	131	112	119	130	139	117	124	136	144	123	130	142	152	128	137	149	159	133	141	154	164

Shaded area is ARI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ130481A* /AR*F48601A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1800	MBh	45.1	46.7	51.2	-	44.0	45.6	50.0	-	43.0	44.5	48.8	-	41.9	43.5	47.6	-	39.8	41.3	45.2	-	36.9	38.2	41.9	-
		S/T	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.81	0.67	0.47	-	0.83	0.70	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-
		DT	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-
		KW	3.33	3.39	3.48	-	3.55	3.62	3.72	-	3.75	3.82	3.93	-	3.92	4.00	4.12	-	4.07	4.15	4.28	-	4.20	4.28	4.41	-
		AMPS	11.8	12.1	12.5	-	12.7	13.0	13.5	-	13.8	14.2	14.6	-	14.8	15.2	15.7	-	15.7	16.1	16.7	-	16.7	17.1	17.7	-
		HI PR	234	252	266	-	262	282	298	-	298	321	339	-	340	366	386	-	382	411	434	-	422	454	480	-
		LO PR	111	118	129	-	117	125	136	-	122	129	141	-	128	136	148	-	134	143	156	-	139	147	161	-
	1600	MBh	43.8	45.4	49.7	-	42.7	44.3	48.5	-	41.7	43.2	47.4	-	40.7	42.2	46.2	-	38.7	40.1	43.9	-	35.8	37.1	40.7	-
		S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-
		DT	18	16	12	-	18	16	12	-	18	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		KW	3.31	3.37	3.46	-	3.53	3.59	3.70	-	3.72	3.79	3.90	-	3.89	3.97	4.09	-	4.04	4.12	4.24	-	4.17	4.25	4.38	-
		AMPS	11.7	12.0	12.3	-	12.6	12.9	13.4	-	13.7	14.0	14.5	-	14.7	15.0	15.5	-	15.6	16.0	16.5	-	16.5	16.9	17.5	-
		HI PR	231	249	263	-	260	279	295	-	295	318	336	-	336	362	382	-	378	407	430	-	418	450	475	-
		LO PR	110	117	127	-	116	123	135	-	120	128	140	-	127	135	147	-	133	141	154	-	137	146	159	-
	1400	MBh	40.4	41.9	45.9	-	39.5	40.9	44.8	-	38.5	39.9	43.7	-	37.6	38.9	42.7	-	35.7	37.0	40.5	-	33.1	34.3	37.5	-
		S/T	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-
		DT	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		KW	3.24	3.30	3.39	-	3.45	3.52	3.62	-	3.64	3.71	3.82	-	3.81	3.88	4.00	-	3.95	4.03	4.15	-	4.07	4.15	4.28	-
		AMPS	11.4	11.6	12.0	-	12.3	12.6	13.0	-	13.3	13.7	14.1	-	14.3	14.6	15.1	-	15.2	15.5	16.1	-	16.1	16.5	17.0	-
		HI PR	224	242	255	-	252	271	286	-	286	308	326	-	326	351	371	-	367	395	417	-	406	436	461	-
		LO PR	106	113	124	-	112	120	131	-	117	124	136	-	123	131	143	-	129	137	149	-	133	142	155	-
75	1800	MBh	45.8	47.2	51.1	54.8	44.8	46.1	49.9	53.6	43.7	45.0	48.7	52.3	42.6	**43.9**	47.5	51.0	40.5	41.7	45.1	48.5	37.5	38.6	41.8	44.9
		S/T	0.86	0.77	0.58	0.38	0.89	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	**0.85**	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.89	0.67	0.43
		DT	20	19	15	11	20	19	15	11	20	19	15	11	21	**19**	16	11	20	19	15	11	19	17	14	10
		KW	3.35	3.41	3.51	3.61	3.58	3.65	3.75	3.86	3.78	3.85	3.96	4.08	3.95	**4.03**	4.15	4.27	4.10	4.18	4.31	4.44	4.23	4.32	4.45	4.58
		AMPS	11.9	12.2	12.6	13.0	12.9	13.2	13.6	14.1	14.0	14.3	14.8	15.3	14.9	**15.3**	15.8	16.4	15.9	16.3	16.8	17.5	16.8	17.3	17.8	18.5
		HI PR	236	254	268	280	265	285	301	314	301	324	342	357	343	**369**	390	407	386	415	439	458	427	459	485	506
		LO PR	112	119	130	138	118	126	137	146	123	131	143	152	129	**137**	150	160	135	144	157	167	140	149	163	173
	1600	MBh	44.5	45.8	49.6	53.2	43.5	44.8	48.4	52.0	42.4	43.7	47.3	50.8	41.4	**42.6**	46.1	49.5	39.3	40.5	43.8	47.0	36.4	37.5	40.6	43.6
		S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	**0.81**	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41
		DT	21	19	16	11	21	20	16	11	21	20	16	11	21	**20**	16	11	21	19	16	11	20	18	15	10
		KW	3.33	3.39	3.48	3.58	3.55	3.62	3.72	3.83	3.75	3.82	3.93	4.05	3.92	**4.00**	4.12	4.24	4.07	4.15	4.28	4.41	4.20	4.28	4.41	4.55
		AMPS	11.8	12.1	12.5	12.9	12.7	13.0	13.5	14.0	13.8	14.2	14.6	15.2	14.8	**15.2**	15.7	16.3	15.7	16.1	16.7	17.3	16.7	17.1	17.7	18.4
		HI PR	234	252	266	277	262	282	298	311	298	321	339	354	340	**366**	386	403	382	411	434	453	422	454	480	501
		LO PR	111	118	129	137	117	125	136	145	122	129	141	151	128	**136**	149	158	134	143	156	166	139	147	161	171
	1400	MBh	41.1	42.3	45.8	49.1	40.1	41.3	44.7	48.0	39.2	40.3	43.7	46.8	38.2	**39.3**	42.6	45.7	36.3	37.4	40.5	43.4	33.6	34.6	37.5	40.2
		S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.75	0.57	0.37	0.87	**0.78**	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.81	0.62	0.40
		DT	21	20	16	11	22	20	16	11	22	20	16	11	22	**20**	16	11	22	20	16	11	20	19	15	10
		KW	3.26	3.32	3.41	3.51	3.48	3.54	3.64	3.75	3.67	3.74	3.85	3.96	3.84	**3.91**	4.03	4.15	3.98	4.06	4.18	4.31	4.10	4.19	4.31	4.44
		AMPS	11.5	11.7	12.1	12.6	12.4	12.7	13.1	13.6	13.5	13.8	14.2	14.8	14.4	**14.7**	15.2	15.8	15.3	15.7	16.2	16.8	16.2	16.6	17.2	17.8
		HI PR	227	244	258	269	254	274	289	302	289	311	329	343	330	**355**	375	391	371	399	421	439	410	441	466	486
		LO PR	108	114	125	133	114	121	132	141	118	126	137	146	124	**132**	144	153	130	138	151	161	134	143	156	166

Shaded area is ACCA (TVA) conditions

IDB: Entering Indoor Dry Bulb Temperature

KW=Total system power

AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ130481A* /AR*F48601A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1800	MBh	46.7	47.7	50.9	54.4	45.6	46.6	49.7	53.2	44.5	45.5	48.6	51.9	43.4	44.3	47.4	50.6	41.2	42.1	45.0	48.1	38.2	39.0	41.7	44.6
		S/T	0.95	0.89	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62
		DT	23	22	19	15	23	22	19	15	23	22	19	15	22	23	19	15	21	22	19	15	20	20	18	14
		KW	3.38	3.44	3.53	3.63	3.60	3.67	3.78	3.89	3.80	3.88	3.99	4.11	3.98	4.06	4.18	4.31	4.13	4.22	4.34	4.48	4.26	4.35	4.48	4.62
		AMPS	12.0	12.3	12.7	13.2	13.0	13.3	13.7	14.2	14.1	14.4	14.9	15.5	15.1	15.4	16.0	16.6	16.0	16.4	17.0	17.6	17.0	17.4	18.0	18.7
		HI PR	238	257	271	283	268	288	304	317	304	328	346	361	347	373	394	411	390	420	443	462	431	464	490	511
		LO PR	113	120	131	140	119	127	139	148	124	132	144	154	130	139	152	161	137	145	159	169	141	150	164	175
	1600	MBh	45.3	46.3	49.5	52.9	44.2	45.2	48.3	51.6	43.2	44.1	47.2	50.4	42.1	43.1	**46.0**	49.2	40.0	40.9	43.7	46.7	37.1	37.9	40.5	43.3
		S/T	0.90	0.85	0.69	0.51	0.94	0.88	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	**0.76**	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59
		DT	23	23	20	16	24	23	20	16	24	23	20	16	24	23	**20**	16	23	23	20	16	21	21	18	15
		KW	3.35	3.41	3.51	3.61	3.58	3.65	3.75	3.86	3.78	3.85	3.96	4.08	3.95	4.03	**4.15**	4.28	4.10	4.18	4.31	4.44	4.23	4.32	4.45	4.58
		AMPS	11.9	12.2	12.6	13.0	12.9	13.2	13.6	14.1	14.0	14.3	14.8	15.3	14.9	15.3	**15.8**	16.4	15.9	16.3	16.8	17.5	16.8	17.3	17.8	18.5
		HI PR	236	254	268	280	265	285	301	314	301	324	342	357	343	369	**390**	407	386	415	439	458	427	459	485	506
		LO PR	112	119	130	139	118	126	137	146	123	131	143	152	129	137	**150**	160	135	144	157	167	140	149	163	173
	1400	MBh	41.8	42.7	45.6	48.8	40.8	41.7	44.6	47.7	39.9	40.7	43.5	46.5	38.9	39.7	42.5	45.4	36.9	37.8	40.3	43.1	34.2	35.0	37.4	39.9
		S/T	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.92	0.87	0.71	0.53	0.95	0.90	0.73	0.54	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57
		DT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	22	19	15
		KW	3.28	3.34	3.43	3.53	3.50	3.57	3.67	3.77	3.69	3.77	3.87	3.99	3.87	3.94	4.06	4.18	4.01	4.09	4.21	4.34	4.14	4.22	4.34	4.48
		AMPS	11.6	11.8	12.2	12.7	12.5	12.8	13.2	13.7	13.6	13.9	14.4	14.9	14.5	14.9	15.4	16.0	15.5	15.8	16.4	17.0	16.4	16.8	17.3	18.0
		HI PR	229	246	260	271	257	277	292	305	292	315	332	346	333	358	378	395	375	403	426	444	414	445	470	490
		LO PR	109	116	126	134	115	122	133	142	119	127	139	148	125	133	146	155	131	140	152	162	136	144	158	168
85	1800	MBh	47.5	48.4	50.7	54.1	46.4	47.3	49.5	52.8	45.3	46.1	48.3	51.6	44.2	45.0	47.1	50.3	42.0	42.8	44.8	47.8	38.9	39.6	41.5	44.3
		S/T	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80
		DT	24	24	22	19	24	24	23	20	23	24	23	20	23	23	23	20	21	22	22	19	20	20	21	18
		KW	3.40	3.46	3.56	3.66	3.63	3.70	3.80	3.92	3.83	3.91	4.02	4.14	4.01	4.09	4.21	4.34	4.16	4.25	4.38	4.51	4.30	4.38	4.52	4.66
		AMPS	12.1	12.4	12.8	13.3	13.1	13.4	13.9	14.4	14.2	14.6	15.1	15.6	15.2	15.6	16.1	16.7	16.2	16.6	17.1	17.8	17.2	17.6	18.2	18.9
		HI PR	241	259	274	285	270	291	307	320	307	331	349	364	350	377	398	415	394	424	448	467	435	468	495	516
		LO PR	114	122	133	141	121	128	140	149	125	133	146	155	132	140	153	163	138	147	160	171	143	152	166	177
	1600	MBh	46.1	47.0	49.2	52.5	45.0	45.9	48.1	51.3	43.9	44.8	46.9	50.1	42.9	43.7	45.8	48.8	40.7	41.5	43.5	46.4	37.7	38.5	40.3	43.0
		S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
		DT	25	25	23	20	25	25	24	20	25	25	24	20	25	25	24	21	23	24	23	20	22	22	22	19
		KW	3.38	3.44	3.53	3.63	3.60	3.67	3.78	3.89	3.80	3.88	3.99	4.11	3.98	4.06	4.18	4.31	4.13	4.22	4.34	4.48	4.26	4.35	4.48	4.62
		AMPS	12.0	12.3	12.7	13.2	13.0	13.3	13.7	14.2	14.1	14.4	14.9	15.5	15.1	15.4	16.0	16.6	16.0	16.4	17.0	17.6	17.0	17.4	18.0	18.7
		HI PR	238	257	271	283	268	288	304	317	304	328	346	361	347	373	394	411	390	420	443	462	431	464	490	511
		LO PR	113	120	131	140	119	127	139	148	124	132	144	154	130	139	152	161	137	145	159	169	141	150	164	175
	1400	MBh	42.5	43.4	45.4	48.5	41.5	42.4	44.4	47.3	40.6	41.3	43.3	46.2	39.6	40.3	42.2	45.1	37.6	38.3	40.1	42.8	34.8	35.5	37.2	39.7
		S/T	0.91	0.88	0.79	0.64	0.95	0.91	0.82	0.67	0.97	0.94	0.84	0.68	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.74
		DT	25	25	24	21	26	25	24	21	26	25	24	21	26	26	24	21	25	25	24	21	23	23	22	19
		KW	3.31	3.37	3.46	3.56	3.53	3.59	3.69	3.80	3.72	3.79	3.90	4.02	3.89	3.97	4.09	4.21	4.04	4.12	4.24	4.37	4.17	4.25	4.38	4.51
		AMPS	11.7	12.0	12.3	12.8	12.6	12.9	13.3	13.8	13.7	14.0	14.5	15.1	14.7	15.0	15.5	16.1	15.6	16.0	16.5	17.1	16.5	16.9	17.5	18.2
		HI PR	231	249	263	274	260	279	295	308	295	318	335	350	336	362	382	399	378	407	430	448	418	450	475	495
		LO PR	110	117	127	136	116	123	135	143	120	128	140	149	127	135	147	157	133	141	154	164	137	146	159	170

Shaded area is ARI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ130601A* / AR*F48601A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	2025	MBh	55.9	57.9	63.4	-	54.6	56.5	62.0	-	53.3	55.2	60.5	-	52.0	53.9	59.0	-	49.4	51.2	56.1	-	45.7	47.4	51.9	-
		S/T	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.86	0.72	0.50	-
		DT	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	16	12	-
		KW	4.11	4.19	4.31	-	4.40	4.49	4.62	-	4.66	4.75	4.90	-	4.88	4.99	5.14	-	5.08	5.18	5.34	-	5.24	5.35	5.52	-
		AMPS	14.5	14.8	15.3	-	15.7	16.1	16.6	-	17.1	17.5	18.1	-	18.3	18.7	19.3	-	19.4	19.9	20.6	-	20.6	21.1	21.9	-
		HI PR	225	242	255	-	252	271	287	-	287	309	326	-	327	352	371	-	367	395	418	-	406	437	461	-
		LO PR	102	108	118	-	108	115	125	-	112	119	130	-	118	125	137	-	123	131	143	-	127	136	148	-
	1800	MBh	54.2	56.2	61.6	-	53.0	54.9	60.1	-	51.7	53.6	58.7	-	50.4	52.3	57.3	-	47.9	49.7	54.4	-	44.4	46.0	50.4	-
		S/T	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.82	0.69	0.48	-
		DT	20	17	13	-	20	17	13	-	20	17	13	-	20	18	13	-	20	17	13	-	19	16	12	-
		KW	4.08	4.16	4.28	-	4.37	4.46	4.59	-	4.62	4.72	4.86	-	4.85	4.95	5.10	-	5.04	5.14	5.30	-	5.20	5.31	5.48	-
		AMPS	14.4	14.7	15.2	-	15.5	15.9	16.5	-	16.9	17.3	17.9	-	18.1	18.5	19.2	-	19.3	19.7	20.4	-	20.4	20.9	21.7	-
		HI PR	222	239	253	-	250	269	284	-	284	306	323	-	323	348	368	-	364	392	413	-	402	433	457	-
		LO PR	101	107	117	-	107	113	124	-	111	118	129	-	116	124	135	-	122	130	142	-	126	134	147	-
	1575	MBh	50.1	51.9	56.8	-	48.9	50.7	55.5	-	47.7	49.5	54.2	-	46.6	48.3	52.9	-	44.2	45.8	50.2	-	41.0	42.5	46.5	-
		S/T	0.69	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.61	0.43	-	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.80	0.66	0.46	-
		DT	20	18	13	-	20	18	13	-	21	18	13	-	21	18	14	-	20	18	13	-	19	16	12	-
		KW	3.99	4.07	4.18	-	4.27	4.35	4.48	-	4.52	4.61	4.75	-	4.73	4.83	4.98	-	4.92	5.02	5.18	-	5.08	5.19	5.35	-
		AMPS	14.0	14.3	14.8	-	15.1	15.5	16.0	-	16.4	16.8	17.4	-	17.6	18.0	18.6	-	18.7	19.2	19.8	-	19.9	20.4	21.0	-
		HI PR	216	232	245	-	242	261	275	-	275	296	313	-	314	338	356	-	353	380	401	-	390	420	443	-
		LO PR	98	104	114	-	103	110	120	-	108	114	125	-	113	120	131	-	118	126	137	-	122	130	142	-
75	2025	MBh	56.8	58.5	63.3	67.9	55.5	57.1	61.8	66.4	54.2	55.8	60.4	64.8	52.8	**54.4**	58.9	63.2	50.2	51.7	55.9	60.0	46.5	47.9	51.8	55.6
		S/T	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.91	0.81	0.62	0.40	0.94	**0.84**	0.64	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.67	0.43
		DT	22	20	17	12	22	21	17	12	22	21	17	12	23	**21**	17	12	22	20	17	12	21	19	16	11
		KW	4.14	4.22	4.34	4.47	4.43	4.52	4.66	4.80	4.69	4.79	4.94	5.09	4.92	**5.02**	5.18	5.34	5.12	5.22	5.39	5.56	5.29	5.40	5.57	5.75
		AMPS	14.6	15.0	15.5	16.1	15.8	16.2	16.8	17.4	17.2	17.7	18.2	18.9	18.4	**18.9**	19.5	20.3	19.6	20.1	20.8	21.6	20.8	21.3	22.1	22.9
		HI PR	227	244	258	269	255	274	289	302	290	312	329	343	330	**355**	375	391	371	399	422	440	410	441	466	486
		LO PR	103	110	120	127	109	116	126	135	113	120	131	140	119	**126**	138	147	125	132	145	154	129	137	150	159
	1800	MBh	55.1	56.8	61.5	66.0	53.9	55.5	60.0	64.4	52.6	54.1	58.6	62.9	51.3	**52.8**	57.2	61.4	48.7	50.2	54.3	58.3	45.1	46.5	50.3	54.0
		S/T	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.87	0.78	0.59	0.38	0.90	**0.80**	0.61	0.39	0.93	0.83	0.63	0.40	0.94	0.84	0.63	0.41
		DT	23	21	17	12	23	21	18	12	23	21	18	12	23	**22**	18	12	23	21	17	12	22	20	16	11
		KW	4.11	4.19	4.31	4.44	4.40	4.49	4.62	4.76	4.66	4.75	4.90	5.05	4.89	**4.99**	5.14	5.30	5.08	5.18	5.34	5.51	5.24	5.35	5.52	5.70
		AMPS	14.5	14.8	15.3	15.9	15.7	16.1	16.6	17.2	17.1	17.5	18.1	18.8	18.3	**18.7**	19.3	20.1	19.5	19.9	20.6	21.4	20.6	21.1	21.9	22.7
		HI PR	225	242	255	266	252	271	287	299	287	309	326	340	327	**352**	371	387	368	396	418	436	406	437	461	481
		LO PR	102	108	118	126	108	115	125	133	112	119	130	139	118	**125**	137	146	123	131	143	152	128	136	148	158
	1575	MBh	50.9	52.4	56.7	60.9	49.7	51.2	55.4	59.5	48.5	50.0	54.1	58.1	47.3	**48.8**	52.8	56.6	45.0	46.3	50.1	53.8	41.7	42.9	46.4	49.8
		S/T	0.79	0.70	0.53	0.34	0.82	0.73	0.55	0.36	0.84	0.75	0.57	0.36	0.86	**0.77**	0.58	0.38	0.90	0.80	0.61	0.39	0.90	0.81	0.61	0.39
		DT	23	22	18	12	24	22	18	12	24	22	18	12	24	**22**	18	12	24	22	18	12	22	20	17	11
		KW	4.02	4.10	4.22	4.34	4.30	4.39	4.52	4.65	4.55	4.64	4.78	4.93	4.77	**4.87**	5.02	5.17	4.96	5.06	5.22	5.38	5.12	5.23	5.39	5.56
		AMPS	14.1	14.4	14.9	15.5	15.3	15.6	16.1	16.8	16.6	17.0	17.6	18.2	17.7	**18.2**	18.8	19.5	18.9	19.4	20.0	20.8	20.0	20.5	21.2	22.1
		HI PR	218	235	248	258	245	263	278	290	278	299	316	330	317	**341**	360	376	357	384	405	423	394	424	448	467
		LO PR	99	105	115	122	105	111	121	129	109	116	126	134	114	**121**	133	141	120	127	139	148	124	132	144	153

Shaded area is ACCA (TVA) conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSZ130601A* / AR*F48601A*

Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	2025	MBh	57.8	59.1	63.1	67.5	56.5	57.7	61.6	65.9	55.1	56.3	60.2	64.3	53.8	55.0	58.7	62.8	51.1	52.2	55.8	59.6	47.3	48.4	51.7	55.2
		S/T	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.82	0.62
		DT	25	24	21	16	26	24	21	17	25	24	21	17	24	24	21	17	23	24	21	17	21	22	19	15
		KW	4.17	4.25	4.38	4.51	4.47	4.56	4.69	4.84	4.73	4.83	4.97	5.13	4.96	5.06	5.22	5.39	5.16	5.27	5.43	5.60	5.33	5.44	5.61	5.79
		AMPS	14.8	15.1	15.6	16.2	16.0	16.4	16.9	17.6	17.4	17.8	18.4	19.1	18.6	19.1	19.7	20.5	19.8	20.3	21.0	21.8	21.0	21.5	22.3	23.1
		HI PR	229	247	261	272	257	277	292	305	293	315	333	347	333	359	379	395	375	404	426	444	414	446	471	491
		LO PR	104	111	121	129	110	117	128	136	114	122	133	141	120	128	139	148	126	134	146	156	130	138	151	161
	1800	MBh	56.1	57.4	61.3	65.5	54.8	56.0	59.9	64.0	53.5	54.7	58.4	62.5	52.2	53.4	**57.0**	60.9	49.6	50.7	54.2	57.9	45.9	46.9	50.2	53.6
		S/T	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.73	0.54	0.98	0.92	**0.75**	0.56	1.00	0.96	0.78	0.58	1.00	0.96	0.78	0.59
		DT	26	25	21	17	26	25	22	17	26	25	22	17	26	25	**22**	17	25	25	22	17	23	23	20	16
		KW	4.14	4.22	4.34	4.47	4.43	4.52	4.66	4.80	4.69	4.79	4.94	5.09	4.92	5.03	**5.18**	5.34	5.12	5.23	5.39	5.56	5.29	5.40	5.57	5.75
		AMPS	14.6	15.0	15.5	16.1	15.8	16.2	16.8	17.4	17.2	17.7	18.2	18.9	18.4	18.9	**19.5**	20.3	19.6	20.1	20.8	21.6	20.8	21.3	22.1	22.9
		HI PR	227	244	258	269	255	274	290	302	290	312	329	343	330	355	**375**	391	371	400	422	440	410	441	466	486
		LO PR	103	110	120	127	109	116	126	135	113	120	131	140	119	126	**138**	147	125	132	145	154	129	137	150	159
	1575	MBh	51.8	52.9	56.6	60.5	50.6	51.7	55.2	59.1	49.4	50.5	53.9	57.6	48.2	49.2	52.6	56.2	45.8	46.8	50.0	53.4	42.4	43.3	46.3	49.5
		S/T	0.86	0.81	0.66	0.49	0.90	0.84	0.68	0.51	0.92	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.76	0.57
		DT	26	25	22	17	26	25	22	18	26	25	22	18	27	26	22	18	26	25	22	17	25	24	20	16
		KW	4.05	4.13	4.25	4.37	4.33	4.42	4.55	4.69	4.59	4.68	4.82	4.97	4.81	4.91	5.06	5.22	5.00	5.10	5.26	5.43	5.16	5.27	5.43	5.61
		AMPS	14.2	14.6	15.1	15.6	15.4	15.8	16.3	16.9	16.7	17.2	17.7	18.4	17.9	18.4	19.0	19.7	19.1	19.6	20.2	21.0	20.2	20.7	21.4	22.3
		HI PR	220	237	250	261	247	266	281	293	281	302	319	333	320	344	364	379	360	388	409	427	398	428	452	472
		LO PR	100	106	116	124	106	112	123	131	110	117	127	136	115	123	134	143	121	129	140	149	125	133	145	155
85	2025	MBh	58.8	60.0	62.8	67.0	57.5	58.6	61.3	65.4	56.1	57.2	59.9	63.9	54.7	55.8	58.4	62.3	52.0	53.0	55.5	59.2	48.2	49.1	51.4	54.8
		S/T	0.98	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.98	0.79	1.00	1.00	0.98	0.80
		DT	26	26	24	21	26	26	25	21	25	26	25	21	25	25	25	22	24	24	25	21	22	22	23	20
		KW	4.20	4.28	4.41	4.54	4.50	4.59	4.73	4.87	4.77	4.86	5.01	5.17	5.00	5.10	5.26	5.43	5.20	5.31	5.47	5.65	5.37	5.48	5.66	5.84
		AMPS	14.9	15.3	15.8	16.4	16.1	16.5	17.1	17.7	17.5	18.0	18.6	19.3	18.8	19.2	19.9	20.7	20.0	20.5	21.2	22.0	21.2	21.7	22.5	23.4
		HI PR	232	249	263	275	260	280	295	308	296	318	336	350	337	362	383	399	379	408	430	449	418	450	475	496
		LO PR	105	112	122	130	111	118	129	137	115	123	134	143	121	129	141	150	127	135	148	157	131	140	153	163
	1800	MBh	57.1	58.2	61.0	65.0	55.8	56.9	59.6	63.5	54.5	55.5	58.1	62.0	53.1	54.2	56.7	60.5	50.5	51.4	53.9	57.5	46.7	47.7	49.9	53.2
		S/T	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.96	0.87	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.94	0.76
		DT	27	27	25	22	28	27	26	22	28	27	26	22	27	27	26	22	26	26	26	22	24	24	24	21
		KW	4.17	4.25	4.38	4.51	4.47	4.56	4.69	4.84	4.73	4.83	4.97	5.13	4.96	5.06	5.22	5.39	5.16	5.27	5.43	5.60	5.33	5.44	5.61	5.79
		AMPS	14.8	15.1	15.6	16.2	16.0	16.4	16.9	17.6	17.4	17.8	18.4	19.1	18.6	19.1	19.7	20.5	19.8	20.3	21.0	21.8	21.0	21.5	22.3	23.1
		HI PR	229	247	261	272	257	277	292	305	293	315	333	347	333	359	379	395	375	404	426	444	414	446	471	491
		LO PR	104	111	121	129	110	117	128	136	114	122	133	141	120	128	139	148	126	134	146	156	130	138	151	161
	1575	MBh	52.7	53.7	56.3	60.0	51.5	52.5	55.0	58.6	50.3	51.2	53.7	57.2	49.0	50.0	52.3	55.8	46.6	47.5	49.7	53.1	43.1	44.0	46.1	49.1
		S/T	0.91	0.87	0.79	0.64	0.94	0.91	0.82	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.91	0.73
		DT	28	27	26	22	28	28	26	23	28	28	26	23	28	28	26	23	27	28	26	23	25	26	24	21
		KW	4.08	4.16	4.28	4.41	4.37	4.45	4.59	4.73	4.62	4.72	4.86	5.01	4.85	4.95	5.10	5.26	5.04	5.14	5.30	5.47	5.20	5.31	5.48	5.65
		AMPS	14.4	14.7	15.2	15.8	15.5	15.9	16.5	17.1	16.9	17.3	17.9	18.6	18.1	18.5	19.2	19.9	19.3	19.7	20.4	21.2	20.4	20.9	21.7	22.5
		HI PR	222	239	253	264	250	269	284	296	284	305	323	336	323	348	367	383	364	391	413	431	402	432	457	476
		LO PR	101	107	117	125	107	113	124	132	111	118	129	137	116	124	135	144	122	130	142	151	126	134	147	156

Shaded area is ARI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

SPLIT SYSTEM HEATING PERFORMANCE

EXPANDED PERFORMANCE DATA

MODEL: GSZ130181A* / AR*F182416A* **HEATING OPERATION**

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	21.4	20.2	19.0	17.8	17.0	16.5	15.3	14.1	13.3	12.3	11.3	10.7	10.3	9.2	8.2	7.2	6.1	5.0
DELTA T	33.0	31.2	29.4	27.5	26.2	25.4	23.6	21.8	20.6	19.0	17.5	16.5	15.9	14.3	12.7	11.0	9.4	7.7
KW	1.68	1.64	1.61	1.58	1.56	1.54	1.51	1.48	1.46	1.42	1.39	1.37	1.36	1.32	1.29	1.26	1.23	1.19
AMPS	7.3	6.7	6.3	5.9	5.7	5.6	5.3	5.0	4.8	4.6	4.3	4.2	4.2	4.0	3.7	3.5	3.2	2.9
COP	3.73	3.60	3.46	3.30	3.19	3.12	2.96	2.79	2.68	2.53	2.39	2.29	2.22	2.04	1.86	1.66	1.46	1.22
EER	12.8	12.3	11.8	11.3	10.9	10.7	10.1	9.5	9.2	8.7	8.2	7.8	7.6	7.0	6.3	5.7	5.0	4.2
HI PR	392	375	361	345	337	331	318	305	292	279	268	262	257	247	238	228	220	212
LO PR	145	134	126	115	109	105	96	86	77	69	61	57	55	46	40	34	29	23

EXPANDED PERFORMANCE DATA

MODEL: GSZ13024-1A* / AR*F182416A* **HEATING OPERATION**

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	28.9	27.4	25.8	24.1	23.0	22.3	20.7	19.1	28.7	26.5	24.4	23.0	22.1	19.9	17.6	15.4	13.1	10.7
DELTA T	32.8	31.1	29.3	27.4	26.1	25.3	23.5	21.7	32.6	30.0	27.7	26.1	25.2	22.6	20.0	17.5	14.9	12.2
KW	2.17	2.13	2.09	2.04	2.02	2.00	1.96	1.92	1.81	1.77	1.73	1.71	1.69	1.65	1.61	1.57	1.53	1.49
AMPS	9.6	8.9	8.3	7.8	7.5	7.4	6.9	6.6	6.3	6.0	5.7	5.5	5.5	5.2	4.8	4.5	4.2	3.7
COP	3.89	3.76	3.61	3.45	3.33	3.26	3.09	2.91	4.63	4.37	4.12	3.94	3.83	3.52	3.20	2.86	2.51	2.11
EER	13.3	12.9	12.3	11.8	11.4	11.1	10.6	10.0	15.8	14.9	14.1	13.5	13.1	12.0	10.9	9.8	8.6	7.2
HI PR	413	395	380	364	355	348	335	321	308	294	282	275	271	260	250	240	231	223
LO PR	138	128	120	110	104	100	92	82	74	66	58	54	52	44	38	32	28	22

EXPANDED PERFORMANCE DATA

MODEL: GSZ130301A* / AR*F30301A* **HEATING OPERATION**

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	33.2	31.4	29.6	27.6	26.4	25.6	23.8	21.9	19.9	18.4	16.9	16.0	15.4	13.8	12.3	10.7	9.1	7.5
DELTA T	29.3	27.7	26.1	24.4	23.3	22.6	21.0	19.3	17.6	16.2	14.9	14.1	13.6	12.2	10.8	9.4	8.0	6.6
KW	2.52	2.47	2.42	2.37	2.35	2.32	2.28	2.23	2.37	2.32	2.26	2.23	2.21	2.16	2.11	2.05	2.00	1.95
AMPS	9.7	9.0	8.5	8.0	7.7	7.6	7.2	6.9	6.6	6.3	6.0	5.9	5.8	5.6	5.2	5.0	4.6	4.2
COP	3.86	3.72	3.57	3.41	3.29	3.22	3.05	2.88	2.46	2.32	2.19	2.10	2.04	1.88	1.70	1.52	1.34	1.12
EER	13.2	12.7	12.2	11.6	11.3	11.0	10.4	9.8	8.4	7.9	7.5	7.2	7.0	6.4	5.8	5.2	4.6	3.8
HI PR	366	351	337	323	315	309	297	285	273	261	250	244	240	231	222	213	205	198
LO PR	129	119	112	103	97	93	86	76	69	62	54	50	49	41	35	30	26	20

EXPANDED PERFORMANCE DATA

MODEL: GSZ130361A* / AR*F364216A* **HEATING OPERATION**

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	42.7	40.5	38.1	35.6	34.0	32.9	30.6	28.2	19.9	18.4	16.9	16.0	15.4	13.8	12.3	10.7	9.1	7.5
DELTA T	31.0	29.4	27.7	25.9	24.7	23.9	22.2	20.5	14.5	13.4	12.3	11.6	11.2	10.0	8.9	7.8	6.6	5.4
KW	3.07	3.01	2.96	2.90	2.87	2.85	2.79	2.74	2.82	2.76	2.70	2.67	2.64	2.58	2.52	2.46	2.40	2.35
AMPS	14.2	13.2	12.3	11.6	11.2	11.0	10.4	9.9	9.4	9.0	8.6	8.4	8.3	7.9	7.4	7.0	6.5	5.8
COP	4.07	3.93	3.77	3.59	3.47	3.39	3.21	3.02	2.07	1.95	1.84	1.76	1.71	1.57	1.42	1.27	1.11	0.93
EER	13.9	13.4	12.9	12.3	11.8	11.6	11.0	10.3	7.1	6.7	6.3	6.0	5.8	5.4	4.9	4.3	3.8	3.2
HI PR	372	356	343	328	320	314	302	290	277	265	254	248	244	235	226	216	209	201
LO PR	133	123	115	106	100	96	89	79	71	64	56	52	50	42	37	31	27	21

High pressure is measured at the liquid service valve (the smaller valve).
Low pressure is measured at the gauge port connection.
Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)
KW = Total system power

**Note: Shaded area is ARI Rating Conditions at 47° outdoor ambient temberature*

SPLIT SYSTEM HEATING PERFORMANCE

EXPANDED PERFORMANCE DATA

MODEL: GSZ13042-1A* / ARUF49-00*-1* / ARUF36421A* **HEATING OPERATION**

	Outdoor Ambient Temperature																	
	65	**60**	**55**	**50**	**47**	**45**	**40**	**35**	**30**	**25**	**20**	**17**	**15**	**10**	**5**	**0**	**-5**	**-10**
MBh	49.0	46.4	43.7	40.8	**39.0**	37.8	35.1	32.4	28.7	26.5	24.4	23.0	22.1	19.9	17.6	15.4	13.1	10.7
DELTA T	30.3	28.6	27.0	25.2	24.1	23.3	21.7	20.0	17.7	16.3	15.0	14.2	13.7	12.3	10.9	9.5	8.1	6.6
KW	3.59	3.52	3.46	3.39	**3.35**	3.32	3.26	3.19	3.08	3.01	2.95	2.91	2.88	2.82	2.75	2.69	2.62	2.56
AMPS	16.7	15.5	14.5	13.6	13.1	12.9	12.1	11.5	11.0	10.5	10.0	9.8	9.7	9.2	8.6	8.1	7.4	6.7
COP	4.00	3.86	3.70	3.53	3.41	3.33	3.15	2.97	2.72	2.57	2.42	2.31	2.25	2.06	1.87	1.67	1.46	1.23
EER	13.7	13.2	12.6	12.1	11.6	11.4	10.8	10.1	9.3	8.8	8.3	7.9	7.7	7.1	6.4	5.7	5.0	4.2
HI PR	237	227	218	209	204	200	192	184	177	169	162	158	155	149	144	138	133	128
LO PR	75	70	65	60	57	54	50	45	40	36	32	29	28	24	21	17	15	12

EXPANDED PERFORMANCE DATA

MODEL: GSZ130481A* /AR*F48601A* **HEATING OPERATION**

	Outdoor Ambient Temperature																	
	65	**60**	**55**	**50**	**47**	**45**	**40**	**35**	**30**	**25**	**20**	**17**	**15**	**10**	**5**	**0**	**-5**	**-10**
MBh	55.3	52.4	49.3	46.1	**44.0**	42.6	39.6	36.5	33.6	31.1	28.6	27.0	26.0	23.3	20.7	18.0	15.4	12.6
DELTA T	32.0	30.3	28.5	26.7	25.5	24.7	22.9	21.1	19.5	18.0	16.5	15.6	15.0	13.5	12.0	10.4	8.9	7.3
KW	3.93	3.87	3.80	3.73	**3.69**	3.66	3.59	3.52	3.37	3.30	3.23	3.19	3.17	3.10	3.04	2.97	2.90	2.84
AMPS	18.2	16.8	15.7	14.8	14.3	14.0	13.2	12.5	12.0	11.4	10.9	10.6	10.5	9.9	9.3	8.7	8.1	7.3
COP	4.11	3.96	3.80	3.62	3.49	3.41	3.23	3.03	2.93	2.76	2.59	2.47	2.40	2.20	1.99	1.78	1.55	1.30
EER	14.1	13.5	13.0	12.4	11.9	11.7	11.0	10.4	10.0	9.4	8.8	8.5	8.2	7.5	6.8	6.1	5.3	4.4
HI PR	380	364	350	335	327	321	308	296	284	271	260	254	249	240	231	221	213	206
LO PR	129	119	112	103	97	93	86	76	69	62	54	50	49	41	35	30	26	20

EXPANDED PERFORMANCE DATA

MODEL: GSZ130601A* / AR*F48601A* **HEATING OPERATION**

	Outdoor Ambient Temperature																	
	65	**60**	**55**	**50**	**47**	**45**	**40**	**35**	**30**	**25**	**20**	**17**	**15**	**10**	**5**	**0**	**-5**	**-10**
MBh	72.9	69.0	65.0	60.7	**58.0**	56.2	52.2	48.1	44.9	41.4	38.1	36.0	34.7	31.1	27.6	24.0	20.5	16.8
DELTA T	37.5	35.5	33.4	31.2	29.8	28.9	26.9	24.8	23.1	21.3	19.6	18.5	17.8	16.0	14.2	12.4	10.6	8.6
KW	5.21	5.11	5.01	4.92	**4.86**	4.82	4.72	4.63	4.66	4.56	4.46	4.40	4.36	4.26	4.16	4.06	3.96	3.86
AMPS	24.0	22.2	20.7	19.5	18.8	18.4	17.3	16.4	15.7	15.0	14.2	13.9	13.7	13.0	12.1	11.3	10.5	9.4
COP	4.10	3.95	3.79	3.62	3.49	3.41	3.23	3.05	2.82	2.66	2.50	2.40	2.33	2.14	1.94	1.73	1.52	1.28
EER	14.0	13.5	13.0	12.4	11.9	11.7	11.1	10.4	9.6	9.1	8.6	8.2	8.0	7.3	6.6	5.9	5.2	4.4
HI PR	416	399	383	367	358	351	338	324	310	296	285	278	273	262	252	242	233	225
LO PR	133	123	115	106	100	96	89	79	71	64	56	52	50	42	37	31	27	21

High pressure is measured at the liquid service valve (the smaller valve).
Low pressure is measured at the gauge port connection.
Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)
KW = Total system power

**Note: Shaded area is ARI Rating Conditions at 47° outdoor ambient temberature*

PERFORMANCE DATA

PERFORMANCE TEST

All data based upon listed indoor dry bulb temperature. .00 inches external static pressure on coil of outdoor section. Indoor air cubic feet per minute (CFM) as listed in the Performance Data Sheets:

If conditions vary from this, results will change as follows:

1. As indoor dry bulb temperatures increase, a slight increase will occur in indoor air temperature drop (Delta T). Low and high side pressures and power will not change.

2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop (Delta T). A slight decrease will occur in low and high side pressures and power.

A properly operating unit should be within plus or minus **2 degrees** of the subcooling value shown in the Heat Pump Specifications.

A properly operating unit should be within plus or minus **3 degrees** of the typical (Delta T) value shown.

A properly operating unit should be within plus or minus **7 PSIG** of the **HI PR** shown.

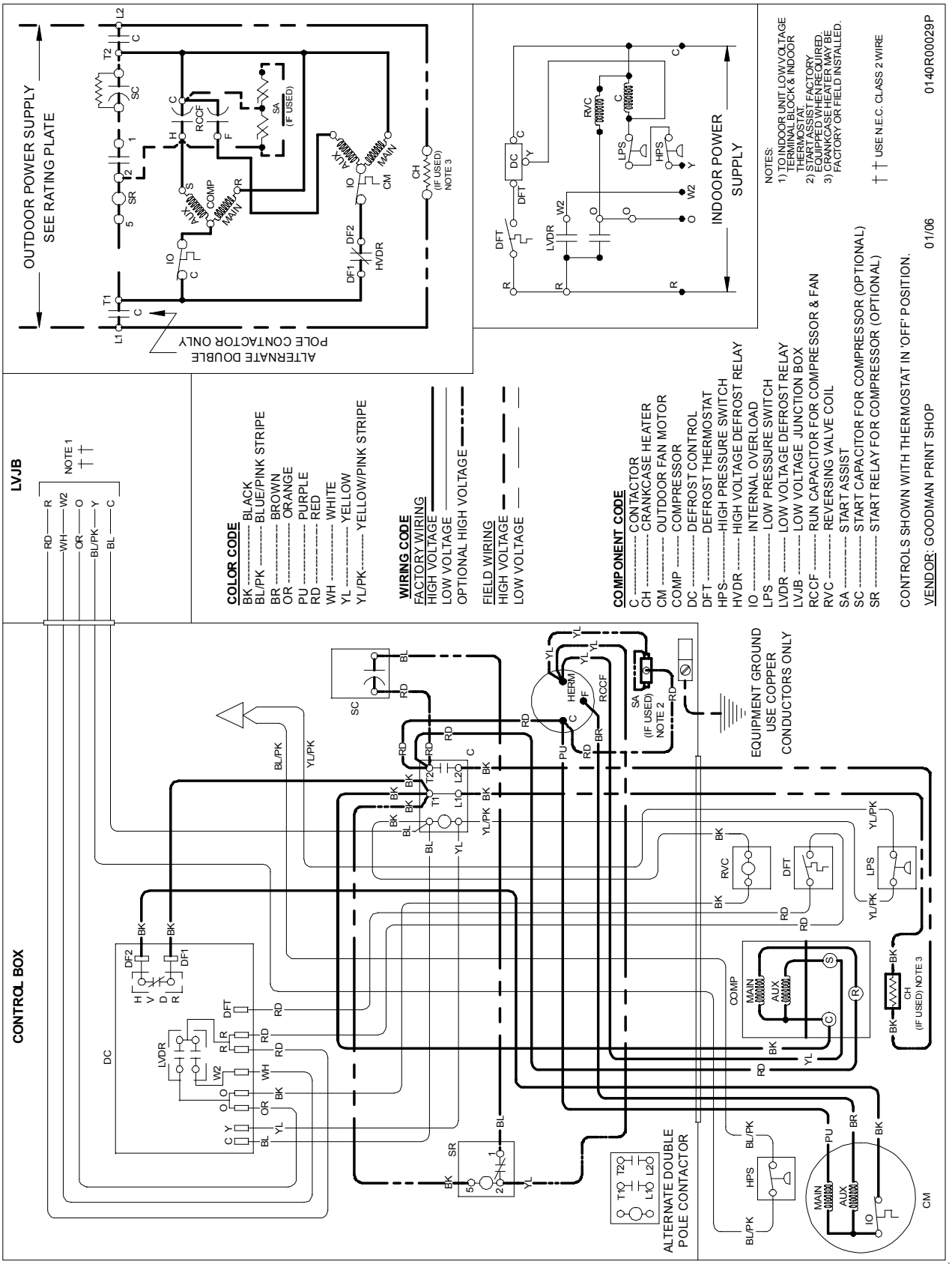
A properly operating unit should be within plus or minus **3 PSIG** of the **LO PR** shown.

A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.

NOTE: Pressures are measured at the liquid and suction service valve ports.

WARNING

HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.