

**HIGH-EFFICIENCY
SPLIT SYSTEM HEAT PUMP
UP TO 15.2 SEER2 & 7.8 HSPF2
1½ TO 5 TONS**



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Standard Features

- High-efficiency scroll compressor
- SmartShift® technology to ensure quiet reliable defrost
- Copper tube/ enhanced aluminum fin coil- 5mm diameter on 1.5-3.5T
- Factory-installed suction-line accumulator
- Factory-installed compressor crankcase heater
- Factory-installed high-capacity muffler
- High- and low-pressure switches
- Service valves with sweat connections and easy access to gauge ports
- Fully charged for 15' of tubing length
- Contactor with lug connection
- Ground lug connection
- AHRI Certified; ETL Listed

Cabinet Features

- Removable grille style top design compliant with UL 60335-2-40
- Steel louver coil guard
- Heavy-gauge galvanized-steel cabinet
- Attractive Architectural Gray powder-paint finish with 500-hour salt-spray approval
- Top and side maintenance access
- Single panel access to controls with space provided for field-installed accessories
- When properly anchored, meets the 2020 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)










Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR® criteria. Ask your contractor for details or visit www.energystar.gov.



* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec. The duration of warranty coverage in Texas and Florida differs in some cases.

NOMENCLATURE

	G	S	Z	H	5	0	36	1	0	AA	
	1	2	3	4	5	6	7,8	9	10	11, 12	
Brand											Engineering
G Goodman® Brand											Major/Minor Revisions A - Initial Release B - 1st Revision
Product Category											Variation
S Split System R-410A											
Unit Type - Split System											Electrical
X Condenser											1 208/230 V, 1 Phase, 60 Hz
Z Heat Pump											
Feature											Nominal Capacity
N Value											018 - 1½ tons
H Enhanced											042 3½ Tons
B Classic											024 - 2 tons
C Premium											048 4 Tons
M Multi-Family											030 - 2½ tons
V Ultimate											060 5 Tons
SEER2											036 - 3 tons
13.4 - 13.7 = 3											16.6 - 17.5 = 7
13.8 - 14.5 = 4											17.6 - 18.5 = 8
14.6 - 15.5 = 5											18.6 - 19.5 = 9
15.6 - 16.5 = 6											19.6 + = 0
											Sales Region
											N North
											S Southeast & North
											0 All Regions

	GSZH5 01810A*	GSZH5 02410A*	GSZH5 03010A*	GSZH5 03610A*	GSZH5 04210A*	GSZH5 04810A*	GSZH5 06010A*
NOMINAL CAPACITIES							
Cooling (BTU/h)	18,000	24,000	30,000	36,000	42,000	48,000	60,000
Heating (BTU/h)	18,000	24,000	30,000	36,000	42,000	48,000	60,000
SEER2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
Decibels	68	72	69	72	75	74	76
COMPRESSOR							
RLA	9.0	11.5	14.1	16.0	17.7	19.9	25.6
LRA	42.6	59.5	67.9	91.9	110.2	110.0	151.0
Stage	Single	Single	Single	Single	Single	Single	Two
Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
CONDENSER FAN MOTOR							
Horsepower	1/6	1/6	1/6	1/3	1/4	1/4	1/5
FLA	0.95	0.97	0.97	2.8	1.3	1.3	1.0
REFRIGERATION SYSTEM							
Refrigerant Line Size ¹							
Liquid Line Size ("O.D.)	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Line Size ("O.D.)	3/4"	3/4"	3/4"	7/8"	1 1/8"	1 1/8"	1 1/8"
Refrigerant Connection Size							
Liquid Valve Size ("O.D.)	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Valve Size ("O.D.)	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	7/8"
Valve Connection Type	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat
Refrigerant Charge (oz.)	106	118	119	114	167	222	276
ELECTRICAL DATA							
Volts/Phase (60 Hz)	208/230	208/230	208/230	208/230	208/230	208/230	208/230
Minimum Circuit Ampacity ²	12.2	15.3	18.6	22.8	23.4	26.2	33.0
Max. Overcurrent Protection ³	20	25	30	35	40	45	50
Min / Max Volts	197/253	197/253	197/253	197/253	197/253	197/253	197/253
Electrical Conduit Size	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"
UNIT WEIGHTS							
Equipment Weight	171	193	215	222	264	272	309
Shipping Weight	186	213	235	242	284	292	329
ENERGY STAR® CERTIFIED							
							

¹ Tested and rated in accordance with AHRI Standard 210/240

² Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes

³ Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.

NOTES

- Always check the S&R plate for electrical data on the unit being installed.
- Installer will need to supply 3/8" to 1 1/8" adapters for suction line connections.
- Unit is charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.
- Installation of these units requires the specified TXV Kit to be installed on the indoor coil.
THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT NOT THE INDOOR COIL.

ENERGY STAR NOTES

Proper sizing and installation of equipment is critical to achieving optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet **ENERGY STAR** criteria. Ask your contractor for details or visit www.energystar.gov. The www.energystar.gov website provides up-to-date system combinations certified to meet **ENERGY STAR** requirements.

COOLING DATA — GSZH504810A* + AMST48CU1400A*

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																															
		65°F					75°F					85°F					95°F					105°F					115°F						
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75		
70	MBh	46.9	47.5	48.9	-	46.4	47.1	48.5	-	45.2	45.9	47.3	-	43.2	43.8	45.2	-	40.6	41.3	42.7	-	38.3	39.0	40.3	-	38.3	39.0	40.3	-	38.9	39.5	40.9	-
	S/T	0.65	0.57	0.44	-	0.66	0.58	0.45	-	0.68	0.61	0.47	-	0.70	0.62	0.49	-	1.00	0.65	0.51	-	1.00	0.70	0.56	-	1.00	0.70	0.56	-	1.00	0.73	0.59	-
	Δ T	19	17	13	-	18	17	13	-	19	17	14	-	18	17	13	-	18	16	13	-	19	18	14	-	19	18	14	-	19	17	13	-
	kW	2.52	2.52	2.51	-	2.81	2.81	2.81	-	3.14	3.14	3.13	-	3.50	3.49	3.49	-	3.89	3.89	3.88	-	4.35	4.35	4.35	-	4.35	4.35	4.35	-	4.35	4.35	4.35	-
	Amps	9.4	9.3	9.3	-	10.7	10.7	10.7	-	12.2	12.2	12.2	-	13.8	13.8	13.8	-	15.6	15.6	15.6	-	17.7	17.7	17.7	-	17.7	17.7	17.7	-	17.7	17.8	17.8	-
HI PR	244	245	247	-	282	283	285	-	322	323	325	-	365	366	368	-	412	413	414	-	461	462	464	-	461	462	464	-	461	462	464	-	
LO PR	120	122	125	-	128	129	132	-	134	136	139	-	139	141	144	-	145	146	149	-	151	153	156	-	151	153	156	-	151	153	156	-	
HI PR	244	245	247	-	282	283	285	-	322	323	325	-	365	366	368	-	412	413	414	-	461	462	464	-	461	462	464	-	461	462	464	-	
LO PR	122	124	127	-	129	131	134	-	136	137	140	-	141	142	145	-	146	148	151	-	153	154	157	-	153	154	157	-	153	154	157	-	
HI PR	248	249	250	-	286	287	289	-	326	327	329	-	369	370	372	-	415	416	418	-	465	466	468	-	465	466	468	-	465	466	468	-	
LO PR	124	126	129	-	132	133	136	-	138	139	142	-	143	145	148	-	149	150	153	-	155	157	160	-	155	157	160	-	155	157	160	-	

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																															
		65°F					75°F					85°F					95°F					105°F					115°F						
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75		
75	MBh	46.9	47.5	48.9	51.0	46.5	47.1	48.5	50.6	45.3	45.9	47.3	49.4	43.2	43.8	45.2	47.3	40.6	41.3	42.7	44.8	38.3	39.0	40.4	42.5	38.3	39.0	40.4	42.5	38.9	39.6	40.9	43.1
	S/T	0.78	0.70	0.57	0.43	0.78	0.71	0.57	0.43	1.00	0.73	0.60	0.46	1.00	0.75	0.62	0.48	1.00	0.80	0.67	0.53	1.00	0.85	0.72	0.58	1.00	0.85	0.72	0.58	1.00	0.85	0.72	0.58
	Δ T	23	21	17	14	22	21	17	14	23	21	18	14	22	21	17	14	22	20	17	14	23	22	18	15	23	22	18	15	23	21	17	14
	kW	2.52	2.52	2.51	2.53	2.81	2.81	2.80	2.83	3.14	3.14	3.13	3.15	3.49	3.49	3.49	3.51	3.89	3.89	3.88	3.90	4.35	4.35	4.35	4.37	4.35	4.35	4.35	4.37	4.35	4.35	4.35	4.37
	Amps	9.3	9.3	9.3	9.4	10.7	10.7	10.6	10.8	12.2	12.2	12.2	12.2	12.2	13.8	13.8	13.8	13.9	15.6	15.6	15.6	15.7	17.7	17.7	17.7	17.8	17.7	17.7	17.7	17.8	17.8	17.8	17.9
HI PR	244	245	247	251	282	283	285	289	322	323	325	329	329	365	366	368	372	412	413	414	419	461	462	464	468	461	462	464	468	465	466	468	472
LO PR	121	122	125	130	128	129	132	137	134	136	139	144	144	139	141	144	149	145	146	149	154	151	153	156	161	151	153	156	161	155	157	160	165
HI PR	248	249	250	255	286	287	289	293	326	327	329	333	333	369	370	372	376	416	417	418	423	465	466	468	472	465	466	468	472	465	466	468	472
LO PR	122	124	127	132	129	131	134	139	136	137	140	145	145	141	142	145	151	146	148	151	156	153	154	157	162	153	154	157	162	155	157	160	165
HI PR	248	249	250	255	286	287	289	293	326	327	329	333	333	369	370	372	376	416	417	418	423	465	466	468	472	465	466	468	472	465	466	468	472
LO PR	124	126	129	134	132	133	136	141	138	139	142	148	148	143	145	148	153	149	150	153	158	155	157	160	165	155	157	160	165	155	157	160	165

IDB: Entering Indoor Dry Bulb Temperature
High and low pressures are measured at the liquid and suction service valves.

Shaded area reflects ACCA (TVA) Rating Conditions.

kw = Total system power
Amps = Outdoor unit amps (compressor + fan)

COOLING DATA — GSZH504810A* + AMST48CU1400A* (CONT.)

IDB	AIRFLOW	OUTDOOR AMBIENT TEMPERATURE																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		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	1400	MBh	47.1	47.8	49.2	51.3	46.7	47.4	48.8	50.9	45.5	46.2	47.5	49.7	43.4	44.1	45.5	47.6	40.9	41.5	42.9	45.0	38.6	39.2	40.6	42.7
		S/T	0.90	0.82	0.69	0.55	1.00	0.85	0.72	0.58	1.00	0.85	0.72	0.58	1.00	0.87	0.74	0.60	1.00	1.00	0.76	0.62	1.00	1.00	0.81	0.67
		Δ T	27	25	21	18	26	25	22	18	27	25	22	18	26	25	21	18	26	24	21	18	27	26	22	19
		KW	2.52	2.52	2.51	2.54	2.81	2.81	2.81	2.83	3.14	3.14	3.13	3.16	3.49	3.49	3.49	3.51	3.89	3.89	3.88	3.91	4.35	4.35	4.35	4.37
		Amps	9.3	9.3	9.3	9.4	10.7	10.7	10.7	10.8	12.2	12.2	12.2	12.3	13.8	13.8	13.8	13.9	15.6	15.6	15.6	15.7	17.7	17.7	17.7	17.8
	1600	HI PR	245	246	247	251	283	284	285	290	323	324	325	330	366	367	368	373	412	413	415	419	462	463	464	469
		LO PR	121	123	126	131	128	130	133	138	135	136	139	144	140	141	144	150	145	147	150	155	152	153	156	161
		MBh	47.7	48.4	49.8	51.9	47.3	48.0	49.3	51.4	46.1	46.7	48.1	50.2	44.0	44.7	46.0	48.2	41.5	42.1	43.5	45.6	39.1	39.8	41.2	43.3
		S/T	1.00	0.85	0.72	0.58	1.00	0.86	0.73	0.59	1.00	0.88	0.75	0.61	1.00	0.90	0.77	0.63	1.00	1.00	0.79	0.65	1.00	1.00	0.84	0.70
		Δ T	26	24	21	17	26	24	21	17	26	24	21	17	26	24	20	17	25	24	20	17	27	25	21	18
1800	KW	2.53	2.53	2.52	2.55	2.82	2.82	2.82	2.84	3.15	3.15	3.14	3.17	3.51	3.50	3.50	3.52	3.90	3.90	3.89	3.92	4.37	4.36	4.36	4.38	
	Amps	9.4	9.4	9.4	9.5	10.7	10.7	10.7	10.8	12.2	12.2	12.2	12.3	13.9	13.8	13.8	13.9	15.7	15.7	15.6	15.7	17.8	17.8	17.8	17.9	
	HI PR	246	247	249	253	284	285	287	291	324	325	327	331	367	368	370	374	414	414	415	417	463	464	466	470	
	LO PR	123	124	127	132	130	131	134	139	136	138	141	146	142	143	146	151	147	148	151	156	153	155	158	163	
	MBh	48.5	49.3	50.7	52.8	48.2	48.9	50.3	52.4	47.0	47.7	49.1	51.2	44.9	45.6	47.0	49.1	42.4	43.1	44.4	46.5	40.1	40.7	42.1	44.2	

85	1400	MBh	47.9	48.6	49.9	52.1	47.5	48.1	49.5	51.6	46.3	46.9	48.3	50.4	44.2	44.9	46.2	48.4	41.7	42.3	43.7	45.8	39.3	40.0	41.4	43.5
		S/T	1.00	0.92	0.79	0.7	1.00	0.93	0.80	0.7	1.00	0.82	0.7	0.7	1.00	0.88	0.77	0.63	1.00	1.00	0.86	0.7	1.00	1.00	0.91	0.8
		Δ T	30	28	25	21	30	28	25	21	30	28	25	22	30	28	25	21	30	28	25	21	31	29	26	22
		KW	2.53	2.52	2.52	2.5	2.82	2.82	2.81	2.8	3.15	3.14	3.14	3.2	3.50	3.50	3.49	3.5	3.90	3.89	3.89	3.9	4.36	4.36	4.35	4.4
		Amps	9.4	9.4	9.4	9.4	10.7	10.7	10.7	10.8	12.2	12.2	12.2	12.3	13.8	13.8	13.8	13.9	15.6	15.6	15.6	15.7	17.8	17.8	17.7	17.8
	1600	HI PR	246	247	248	253	284	285	287	291	324	325	327	331	367	368	370	374	413	414	416	420	463	464	466	470
		LO PR	123	124	127	132	130	132	135	140	136	138	141	146	142	143	146	151	147	148	151	157	154	155	158	163
		MBh	48.5	49.1	50.5	52.6	48.1	48.7	50.1	52.2	46.9	47.5	48.9	51.0	44.8	45.4	46.8	48.9	42.2	42.9	44.3	46.4	39.9	40.6	42.0	44.1
		S/T	1.00	0.95	0.82	0.7	1.00	0.96	0.83	0.7	1.00	0.85	0.7	0.7	1.00	0.90	0.79	0.65	1.00	1.00	0.89	0.8	1.00	1.00	0.91	0.8
		Δ T	29	27	24	21	29	27	24	21	29	27	24	21	29	27	24	21	29	27	24	20	30	28	25	21
1800	KW	2.54	2.53	2.53	2.6	2.83	2.83	2.82	2.8	3.16	3.15	3.15	3.2	3.51	3.51	3.50	3.5	3.91	3.90	3.90	3.9	4.37	4.37	4.36	4.4	
	Amps	9.4	9.4	9.4	9.5	10.8	10.8	10.7	10.8	12.3	12.3	12.2	12.3	13.9	13.9	13.8	14.0	15.7	15.7	15.7	15.8	17.8	17.8	17.8	17.9	
	HI PR	247	248	250	254	285	287	288	292	325	326	328	332	369	370	371	375	415	416	418	422	464	466	467	471	
	LO PR	124	126	129	134	132	133	136	141	138	139	142	147	143	145	148	153	149	150	153	158	155	157	160	165	
	MBh	49.4	50.1	51.5	53.6	49.0	49.7	51.0	53.2	47.8	48.5	49.8	51.9	45.7	46.4	47.8	49.9	43.2	43.8	45.2	47.3	40.9	41.5	42.9	45.0	

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction service valves.
 Shaded area reflects AHRI Rating Conditions.
 Amps = Outdoor unit amps (compressor + fan)
 kW = Total system power

HEATING DATA

GSZH501810A*+AMST30BU1400A*

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	22.7	21.2	19.8	18.3	17.4	16.7	15.0	13.4	12.1	11.1	10.4	10.0	9.5	8.3	7.0	5.8	4.6
T/R	32.6	30.8	28.9	27.1	26.0	25.0	22.4	20.0	18.0	16.6	15.5	14.9	14.2	12.4	10.5	8.7	6.8
kW	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1
Amps	5.1	5.0	4.9	4.8	4.7	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.1	4.0	3.9	3.8	3.7
COP	4.79	4.55	4.31	4.06	3.90	3.77	3.44	3.13	2.88	2.69	2.57	2.50	2.40	2.13	1.85	1.55	1.25
HI PR	363	351	339	327	320	315	304	292	280	268	257	249	245	233	221	209	198
LO PR	148	139	130	121	115	111	102	93	84	74	65	60	56	47	38	28	19

GSZH502410A*+AMST30BU1400A*

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	30.5	28.4	26.4	24.5	23.2	22.2	19.8	17.7	15.9	14.5	13.5	13.0	12.3	10.6	8.9	7.2	5.5
T/R	33.9	32.0	30.0	28.0	26.9	25.7	23.0	20.4	18.4	16.8	15.7	15.0	14.3	12.3	10.3	8.4	6.4
kW	2.0	2.0	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.3	1.3
Amps	7.5	7.3	7.1	6.9	6.7	6.6	6.4	6.2	5.9	5.7	5.5	5.4	5.3	5.0	4.8	4.6	4.4
COP	4.41	4.22	4.03	3.84	3.70	3.59	3.30	3.02	2.80	2.65	2.55	2.50	2.40	2.15	1.87	1.57	1.25
HI PR	377	365	353	340	333	328	316	304	291	279	267	259	254	242	230	218	205
LO PR	142	133	124	116	110	107	98	89	80	71	62	57	54	45	36	27	18

GSZH503010A*+AMST30BU1400A*

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	36.4	34.2	32.0	29.8	28.4	27.4	24.8	22.4	20.5	19.0	18.0	17.4	16.7	14.8	13.0	11.2	9.3
T/R	32.4	30.7	29.0	27.3	26.3	25.4	23.0	20.8	18.9	17.6	16.6	16.1	15.4	13.7	12.0	10.3	8.6
kW	2.4	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9
Amps	8.7	8.6	8.4	8.3	8.2	8.1	8.0	7.8	7.7	7.5	7.4	7.3	7.2	7.1	6.9	6.8	6.6
COP	4.49	4.28	4.06	3.85	3.70	3.59	3.31	3.04	2.81	2.66	2.56	2.50	2.41	2.18	1.95	1.70	1.45
HI PR	385	373	360	348	340	335	323	310	298	285	273	265	260	248	235	222	210
LO PR	137	129	120	112	107	103	95	86	77	69	60	55	52	43	35	26	18

GSZH503610A*+AMST42CU1400A*

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	44.8	41.9	39.0	36.2	34.4	33.1	29.7	26.6	24.0	22.1	20.8	20.0	19.0	16.6	14.2	11.8	9.4
T/R	36.9	34.8	32.8	30.7	29.5	28.4	25.5	22.8	20.6	19.0	17.8	17.1	16.3	14.3	12.2	10.1	8.1
kW	3.1	3.1	3.0	2.9	2.9	2.9	2.8	2.7	2.6	2.6	2.5	2.4	2.4	2.3	2.3	2.2	2.1
Amps	12.0	11.6	11.3	11.0	10.8	10.7	10.4	10.0	9.7	9.4	9.1	8.9	8.8	8.5	8.1	7.8	7.5
COP	4.17	4.00	3.81	3.63	3.50	3.40	3.13	2.88	2.68	2.54	2.45	2.40	2.31	2.08	1.84	1.58	1.30
HI PR	397	384	371	358	351	345	332	320	307	294	281	273	268	255	242	229	216
LO PR	133	125	117	108	104	100	92	84	75	67	59	54	50	42	34	26	17

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

Amps = Outdoor unit amps (comp.+fan)

kW = Total system power

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GSZH504210A*+AMST42CU1400A*

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	51.6	48.3	45.2	42.0	40.0	38.5	34.8	31.3	28.5	26.4	24.8	24.0	22.9	20.3	17.6	14.9	12.3
T/R	34.3	32.4	30.6	28.7	27.6	26.6	24.0	21.6	19.7	18.2	17.2	16.6	15.8	14.0	12.2	10.3	8.5
kW	3.5	3.4	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.0	3.0	2.9	2.9	2.9	2.8	2.7	2.7
Amps	12.9	12.6	12.4	12.2	12.0	11.9	11.7	11.5	11.2	11.0	10.8	10.6	10.5	10.3	10.0	9.8	9.6
COP	4.38	4.17	3.96	3.74	3.60	3.49	3.21	2.94	2.72	2.56	2.46	2.40	2.31	2.08	1.84	1.59	1.34
HI PR	395	382	369	356	348	343	330	318	305	292	279	271	266	253	241	228	215
LO PR	132	124	115	107	102	99	91	83	74	66	58	53	50	42	33	25	17

GSZH504810A*+AMST48CU1400A*

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	59.1	55.4	51.8	48.3	46.0	44.4	40.2	36.2	33.0	30.7	28.9	28.0	26.8	23.8	20.8	17.8	14.8
T/R	36.0	34.1	32.2	30.3	29.2	28.1	25.5	23.0	20.9	19.4	18.3	17.8	17.0	15.1	13.2	11.3	9.4
kW	3.9	3.8	3.7	3.7	3.6	3.6	3.6	3.5	3.4	3.4	3.3	3.3	3.3	3.2	3.1	3.1	3.0
Amps	14.5	14.2	13.9	13.7	13.5	13.4	13.2	12.9	12.6	12.4	12.1	12.0	11.9	11.6	11.3	11.1	10.8
COP	4.48	4.27	4.06	3.85	3.70	3.59	3.31	3.03	2.81	2.66	2.55	2.50	2.41	2.18	1.94	1.69	1.44
HI PR	433	419	405	391	382	376	362	348	334	320	306	298	292	278	264	250	236
LO PR	137	128	120	111	106	103	94	86	77	69	60	55	52	43	35	26	18

GSZH506010A*+AMST60DU1400A*

	OUTDOOR AMBIENT TEMPERATURE																
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5
MBh	71.1	67.2	63.3	59.5	57.0	55.2	51.0	46.4	43.2	40.7	38.9	38.0	36.7	33.6	30.4	27.2	24.1
T/R	35.4	33.7	32.1	30.5	29.5	28.6	26.4	24.2	22.4	21.1	20.1	19.7	19.0	17.4	15.7	14.1	12.4
kW	4.7	4.7	4.6	4.6	4.5	4.5	4.4	4.4	4.3	4.2	4.2	4.1	4.1	4.0	4.0	3.9	3.8
Amps	17.8	17.5	17.2	17.0	16.8	16.7	16.4	16.1	15.8	15.5	15.3	15.1	15.0	14.7	14.4	14.1	13.8
COP	4.39	4.20	4.02	3.83	3.70	3.60	3.38	3.12	2.95	2.82	2.74	2.70	2.63	2.44	2.24	2.04	1.84
HI PR	427	413	400	386	377	372	358	344	330	316	302	294	288	274	261	247	233
LO PR	130	122	114	105	101	97	89	81	73	65	57	52	49	41	33	25	17

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

Amps = Outdoor unit amps (comp.+fan)

kW = Total system power

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PERFORMANCE DATA

GSZH501810A* + AMST30BU1400A*				
CONDITIONS: 80 °F IBD, 67 °F IWB @ 620 CFM				
OUTDOOR TEM. ° F.	TOTAL BTU/H	SENSIBLE BTU/H	LATENT BTU/H	TOTAL WATTS
75	18,850	14,150	4,700	1,100
80	18,650	14,000	4,650	1,160
85	18,400	13,800	4,600	1,220
90	18,000	13,500	4,500	1,290
95	17,600	13,150	4,450	1,350
100	17,100	12,800	4,300	1,430
105	16,600	12,450	4,150	1,500
110	16,150	12,100	4,050	1,590
115	15,700	11,750	3,950	1,670
TVA CONDITIONS @ 95° OD DB, 75° ID DB 63° ID WB				
95°	16,950	13,200	3,750	1,350

GSZH502410A* + AMST30BU1400A*				
CONDITIONS: 80 °F IBD, 67 °F IWB @ 800 CFM				
OUTDOOR TEM. ° F.	TOTAL BTU/H	SENSIBLE BTU/H	LATENT BTU/H	TOTAL WATTS
75	24,900	18,600	6,300	1,440
80	24,600	18,400	6,200	1,530
85	24,250	18,150	6,100	1,610
90	23,750	17,750	6,000	1,700
95	23,200	17,350	5,850	1,780
100	22,550	16,900	5,650	1,880
105	21,900	16,400	5,500	1,980
110	21,300	15,950	5,350	2,100
115	20,700	15,500	5,200	2,210
TVA CONDITIONS @ 95° OD DB, 75° ID DB 63° ID WB				
95°	22,350	17,400	4,950	1,780

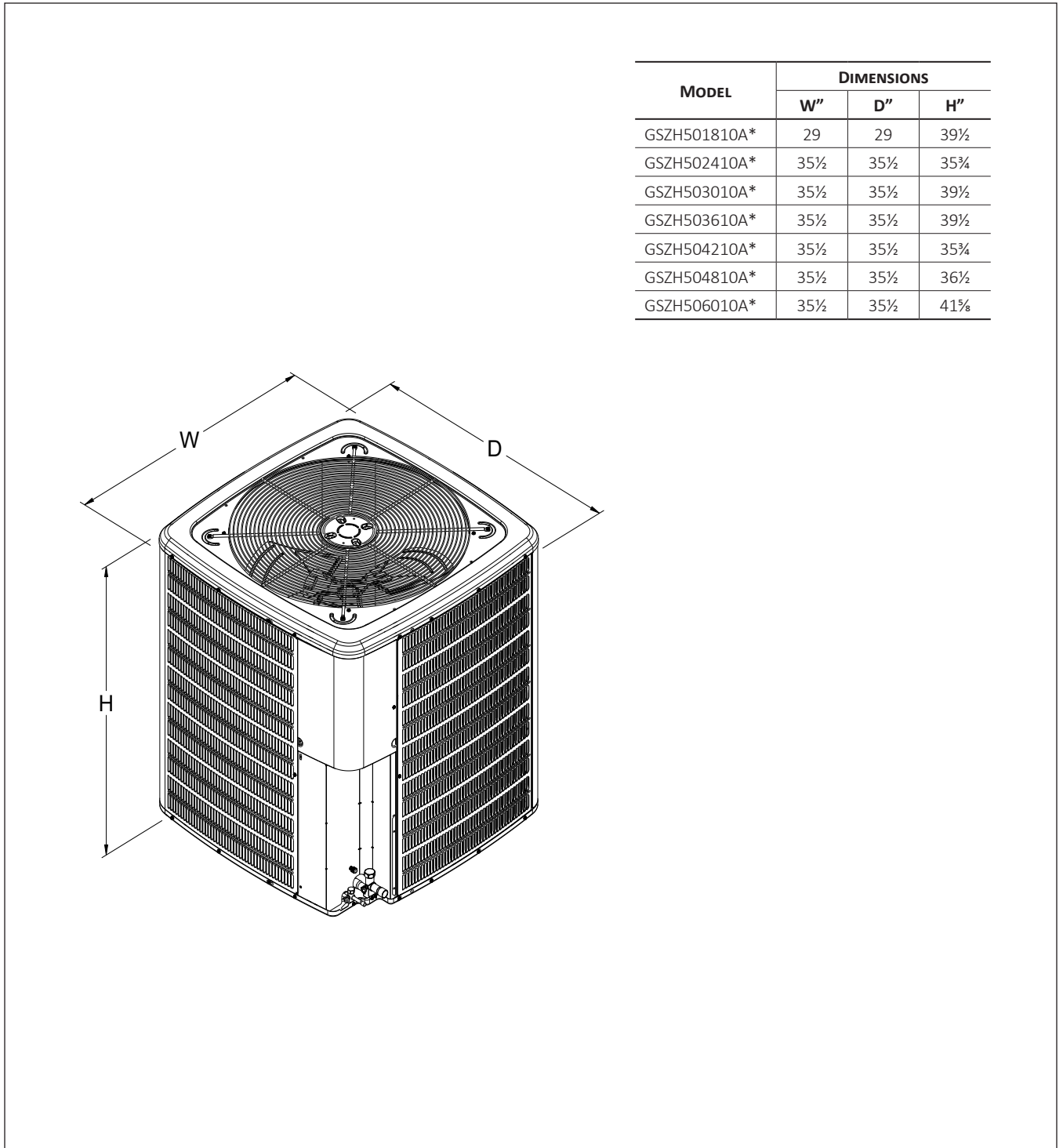
GSZH503010A* + AMST30BU1400A*				
CONDITIONS: 80 °F IBD, 67 °F IWB @ 1000 CFM				
OUTDOOR TEM. ° F.	TOTAL BTU/H	SENSIBLE BTU/H	LATENT BTU/H	TOTAL WATTS
75	30,450	23,100	7,350	1,820
80	30,100	22,850	7,250	1,920
85	29,700	22,550	7,150	2,020
90	29,050	22,050	7,000	2,140
95	28,400	21,550	6,850	2,250
100	27,600	20,950	6,650	2,380
105	26,800	20,350	6,450	2,500
110	26,100	19,800	6,300	2,650
115	25,350	19,250	6,100	2,790
TVA CONDITIONS @ 95° OD DB, 75° ID DB 63° ID WB				
95°	27,400	21,650	5,750	2,250

GSZH503610A* + AMST42CU1400A*				
CONDITIONS: 80 °F IBD, 67 °F IWB @ 1200 CFM				
OUTDOOR TEM. ° F.	TOTAL BTU/H	SENSIBLE BTU/H	LATENT BTU/H	TOTAL WATTS
75	37,800	28,250	9,550	2,170
80	37,350	27,900	9,450	2,310
85	36,900	27,550	9,350	2,440
90	36,100	26,950	9,150	2,590
95	35,300	26,350	8,950	2,730
100	34,350	25,650	8,700	2,890
105	33,350	24,900	8,450	3,050
110	32,450	24,250	8,200	3,240
115	31,550	23,600	7,950	3,430
TVA CONDITIONS @ 95° OD DB, 75° ID DB 63° ID WB				
95°	34,050	26,400	7,650	2,730

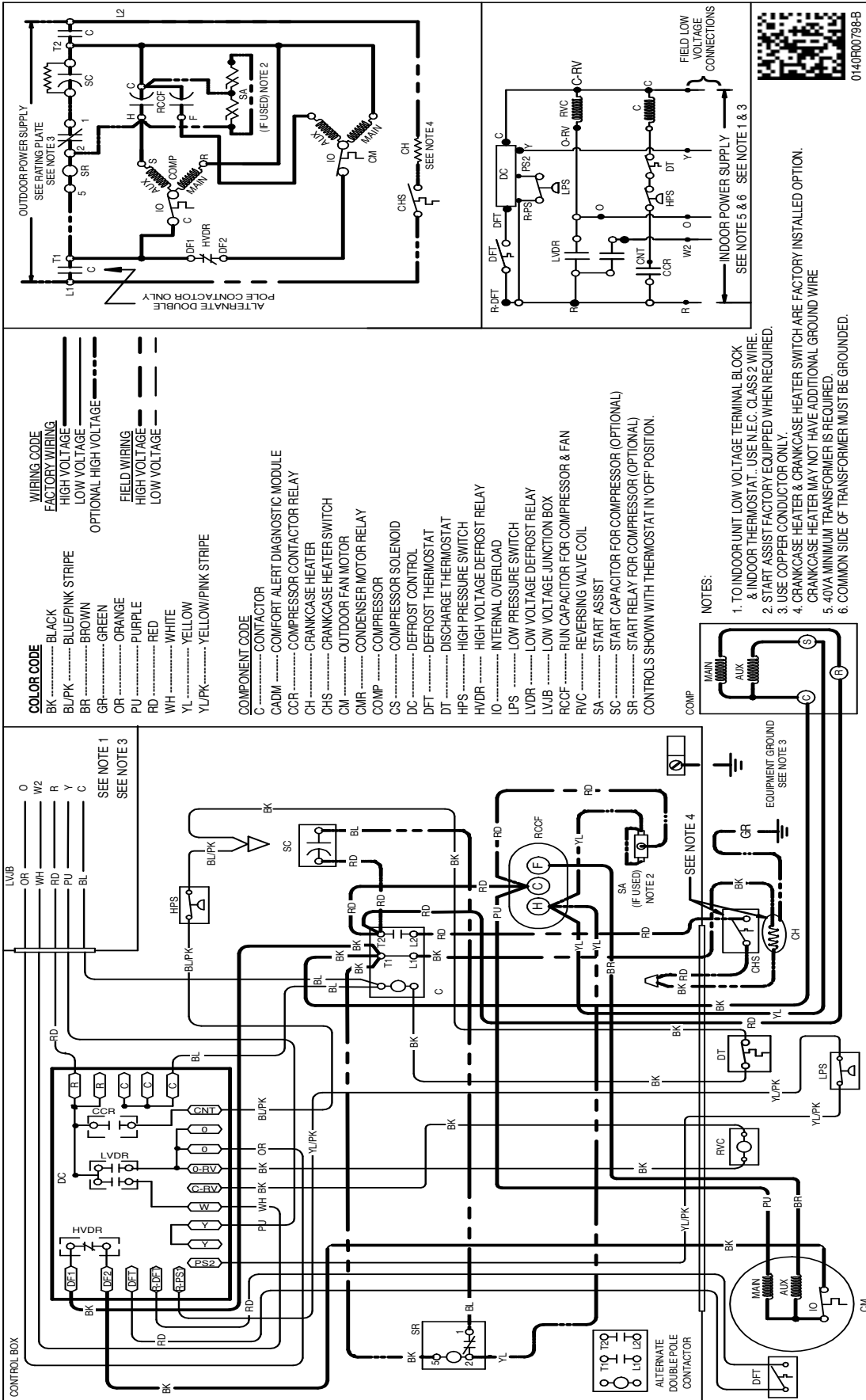
GSZH504210A* + AMST42CU1400A*				
CONDITIONS: 80 °F IBD, 67 °F IWB @ 1340 CFM				
OUTDOOR TEM. ° F.	TOTAL BTU/H	SENSIBLE BTU/H	LATENT BTU/H	TOTAL WATTS
75	42,900	31,950	10,950	2,500
80	42,400	31,550	10,850	2,640
85	41,850	31,150	10,700	2,780
90	40,950	30,500	10,450	2,940
95	40,000	29,800	10,200	3,090
100	38,900	28,950	9,950	3,260
105	37,750	28,100	9,650	3,430
110	36,750	27,350	9,400	3,630
115	35,750	26,600	9,150	3,830
TVA CONDITIONS @ 95° OD DB, 75° ID DB 63° ID WB				
95°	38,550	29,850	8,700	3,090

GSZH504810A* + AMST48CU1400A*				
CONDITIONS: 80 °F IBD, 67 °F IWB @ 1600 CFM				
OUTDOOR TEM. ° F.	TOTAL BTU/H	SENSIBLE BTU/H	LATENT BTU/H	TOTAL WATTS
75	49,350	37,100	12,250	2,820
80	48,750	36,650	12,100	2,980
85	48,150	36,200	11,950	3,140
90	47,100	35,400	11,700	3,320
95	46,050	34,600	11,450	3,500
100	44,800	33,650	11,150	3,700
105	43,500	32,700	10,800	3,890
110	42,350	31,850	10,500	4,130
115	41,200	30,950	10,250	4,360
TVA CONDITIONS @ 95° OD DB, 75° ID DB 63° ID WB				
95°	44,450	34,700	9,750	3,500

GSZH506010A* + AMST60DU1400A*				
CONDITIONS: 80 °F IBD, 67 °F IWB @ 1800 CFM				
OUTDOOR TEM. ° F.	TOTAL BTU/H	SENSIBLE BTU/H	LATENT BTU/H	TOTAL WATTS
75	60,600	44,900	15,700	3,760
80	59,850	44,350	15,500	4,000
85	59,100	43,750	15,350	4,230
90	57,800	42,800	15,000	4,490
95	56,500	41,850	14,650	4,750
100	54,950	40,700	14,250	5,040
105	53,350	39,500	13,850	5,320
110	51,900	38,450	13,450	5,660
115	50,450	37,400	13,050	6,000
TVA Conditions @ 95° OD DB, 75° ID DB 63° ID WB				
95°	54,500	42,000	12,500	4,750



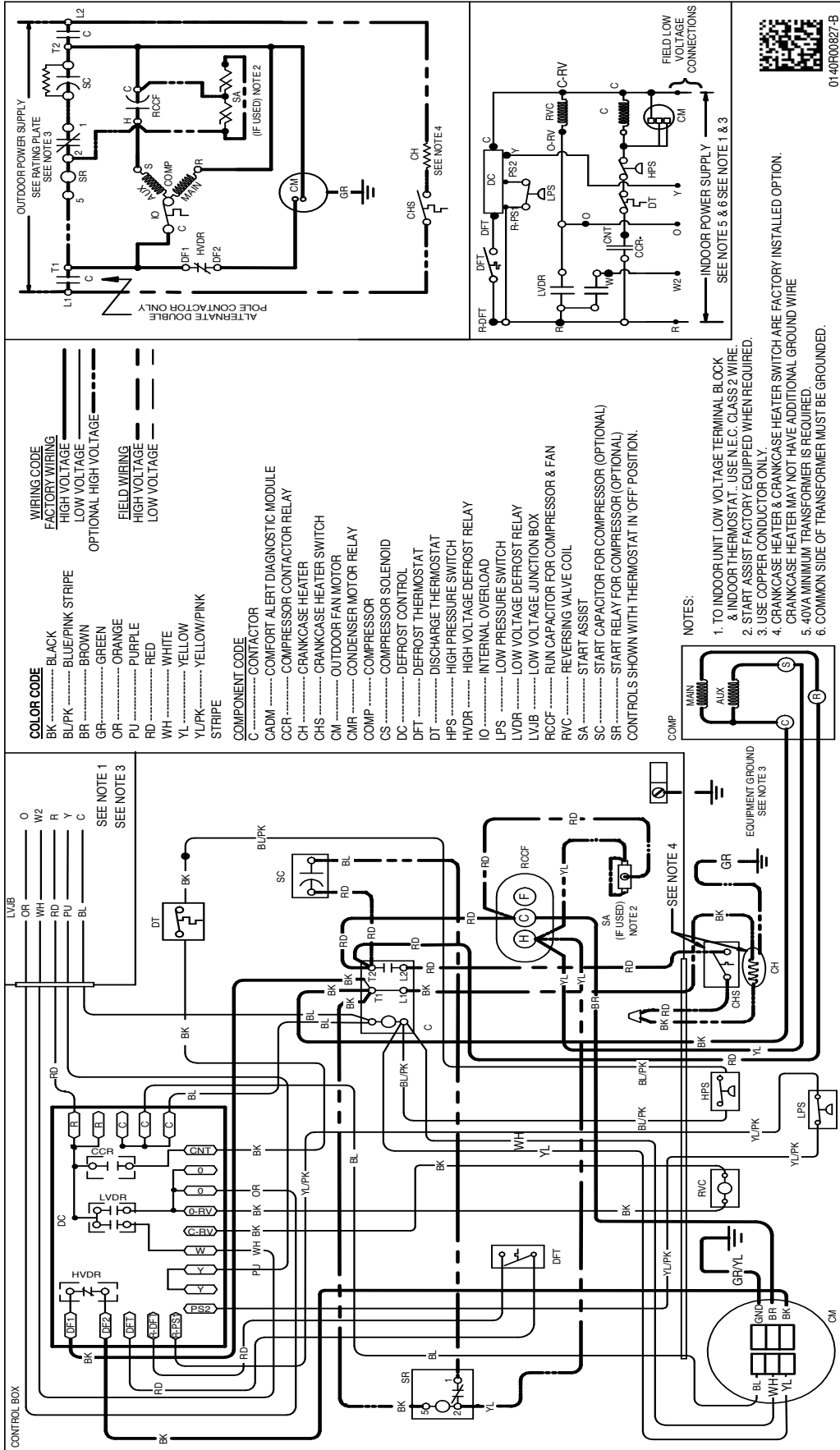
MODEL	DIMENSIONS		
	W"	D"	H"
GSZH501810A*	29	29	39½
GSZH502410A*	35½	35½	35¾
GSZH503010A*	35½	35½	39½
GSZH503610A*	35½	35½	39½
GSZH504210A*	35½	35½	35¾
GSZH504810A*	35½	35½	36½
GSZH506010A*	35½	35½	41¾



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.

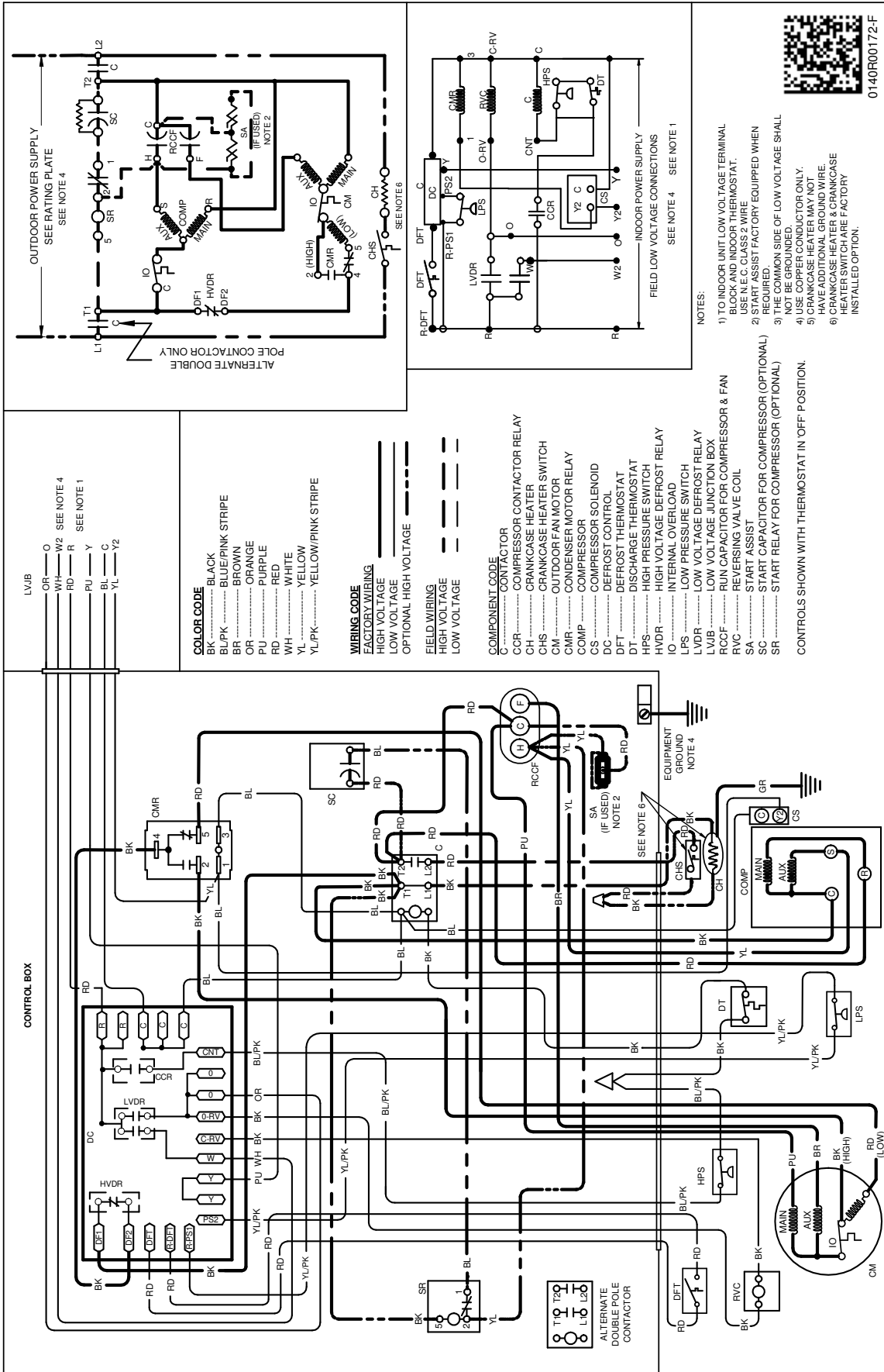
Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.



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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 or the unit for the most up-to-date wiring.

MODEL #	DESCRIPTION	GSZH5 01810A*	GSZH5 02410A*	GSZH5 03010A*	GSZH5 03610A*	GSZH5 04210A*	GSZH5 04810A*	GSZH5 06010A*
ABK-20	Anchor Bracket Kit ◊	X	X	X	X	X	X	X
CSR-U-1	Hard-start Kit	X	X	X	X			
CSR-U-2	Hard-start Kit					X	X	X
CSR-U-3	Hard-start Kit						X	X
FSK01A ¹	Freeze Protection Kit	X	X	X	X	X	X	X
LAKT01A	Low-Ambient Kit	X	X	X	X	X	X	X
OT18-60A ²	Outdoor Thermostat w/ Lockout Stat	X	X	X	X	X	X	X
TXV-FX-KX-2T ³	TXV Kit	X	X					
TXV-FX-KX-3T ³	TXV Kit			X	X			
TXV-FX-KX-5T ³	TXV Kit					X	X	X

⁰ Contains 20 brackets; four brackets needed to anchor unit to pad

¹ Installed on indoor coil

² Required for heat pump applications where ambient temperatures fall below 0°F with 50% or higher relative humidity.

³ Condensing units and heat pumps with reciprocating or rotary compressors require the use of start-assist components when used in conjunction with an indoor coil using a non-bleed thermal expansion valve refrigerant metering device or liquid line solenoid kit. The TXV should always be sized based on the tonnage of the outdoor unit.
