Goodman®

Air Conditioning & Heating

GSH Commercial

Split System Heat Pump

Product Specifications

The Goodman® brand GSH Commercial heat pump features a louvered metal guard that protects the coil from damage and strengthens the unit. Designed for ground-level or rooftop mount, the unit has a base pan that elevates it above the slab for excellent water drainage.

3, 4, & 5 Tons: 13 SEER

7½ to 10 Tons: 10 EER

Standard Features

- Energy-efficient compressor with internal pressure relief valve
- High-capacity, steel-cased, bi-flow heat pump filter dryer
- Liquid refrigerant return protection
- Check flowrater heating mode expansion device
- Reliable, time-initiated, temperature-terminated defrost control
- Low-pressure switch
- Discharge line muffler
- Brass liquid and suction line service valves mounted at a 90° angle with sweat connections and service ports
- High-efficiency copper tube/aluminum fin coil
- Complies with ASHRAE Standard 90.1
- AHRI Certified; ETL Listed

Cabinet Features

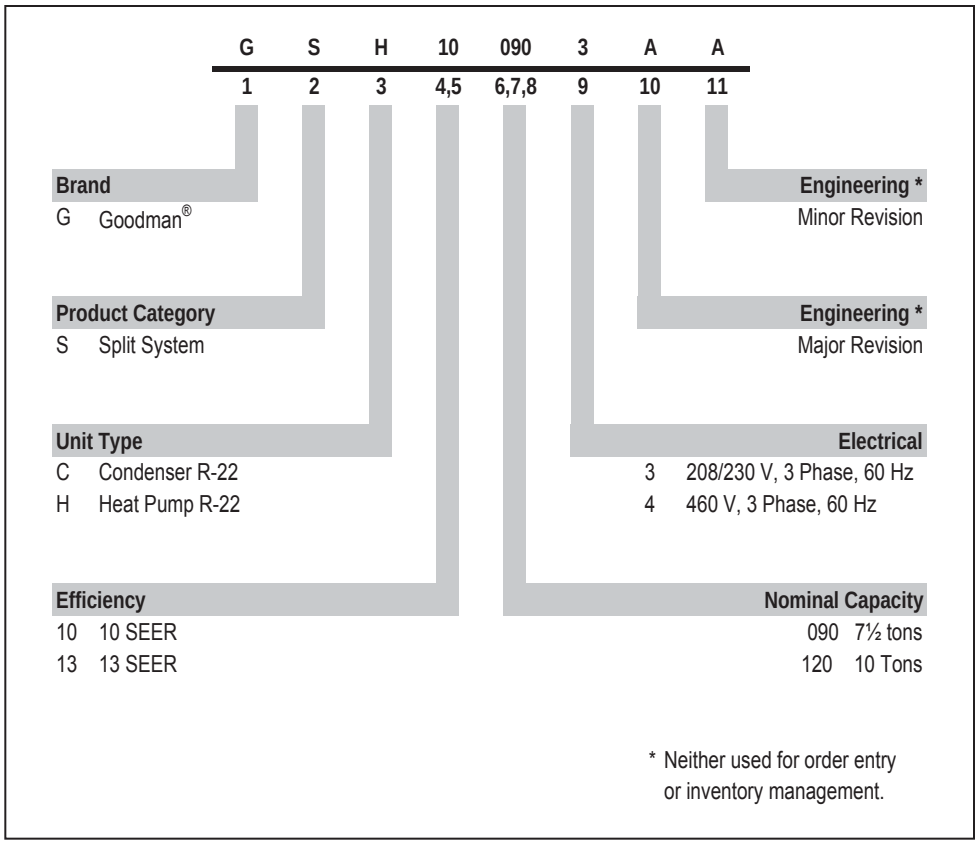
- Goodman brand sound control top design
- Steel louver coil guard protects coil from damage and adds strength to the unit
- Heavy-gauge, galvanized-steel cabinet
- Attractive Architectural Gray powder-paint finish with 500-hour salt-spray approval
- When properly anchored, meets the 2001 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)

Contents

5 YEAR PARTS LIMITED WARRANTY*

Full warranty details available at www.goodmanmfg.com.

NOMENCLATURE



SPECIFICATIONS

	GSH13 0363AA	GSH13 0483AA	GSH13 0484AA	GSH13 0603AA	GSH13 0604AA	GSH10 0903AA	GSH10 0904AA	GSH10 1203AA	GSH10 1204AA
Nominal Capacities									
Cooling (BTU/h)	35,000	45,000	45,000	55,500	55,500	87,000	87,000	110,000	110,000
Heating (BTU/h)	32,000	43,000	43,000	55,500	55,500	82,000	82,000	100,000	100,000
SEER	13	13	13	13	13	10	10	10	10
Deci bels	80	76	76	77	77	76	76	77	77
Compressor									
RLA	9.0	12.4	5.8	17.3	6.7	25.6	12.8	30.1	15.5
LRA	65.5	88.0	44.0	123.0	49.5	196	100	225	114
Condenser Fan Motor									
Horsepower	¼	¼	¼	1/6	1/6	1	1	1	1
FLA	1.6	1.6	0.8	1.1	0.6	5.6	2.7	5.6	2.7
Refrigeration System									
Liquid Valve Size (“O.D.)	⅜"	⅜"	⅜"	⅜"	⅜"	⅝"	⅝"	⅝"	⅝"
Suction Valve Size (“O.D.)	1⅛"	1⅛"	1⅛"	1⅛"	1⅛"	1⅛"	1⅛"	1⅛"	1⅛"
Valve Type	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat
Refrigerant Charge	188	223	223	233	233	30	30	30	30
Electrical Data									
Voltage-Phase	208/230-3	208/230-3	460-3-60	208/230-3	460-3-60	208/230-3	460-3	208/230-3	460-3
Minimum Circuit Ampacity [2]	12.0	17.2	8.0	22.7	9.0	37.6	18.7	43.2	22.1
Max. Overcurrent Protection [3]	20	20	15	40	15	60	30	70	30
Min / Max Volts	197/253	197/253	414/506	197/253	414/506	197/253	414/506	197/253	414/506
Electrical Conduit Size	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"
Ship Weight (lbs)	207	225	225	266	266	254	254	296	296

[1] Tested and rated in accordance with ARI 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 ⅞” to 1⅛” adapters for suction line connections.
Unit is charged with refrigerant for 15’ of ⅜” 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.

EXPANDED COOLING DATA — GSH130363A* / ARUF49-00*-1* / ARUF36421A*

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	1434	MBh	34.3	35.5	38.9	-	33.5	34.7	38.0	-	32.7	33.9	37.1	-	31.9	33.1	36.2	-	30.3	31.4	34.4	-	28.1	29.1	31.9	-
		S/T	0.76	0.64	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	-
		ΔT	17	14	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-
		kW	2.38	2.43	2.50	-	2.56	2.61	2.69	-	2.71	2.77	2.86	-	2.85	2.91	3.00	-	2.96	3.03	3.12	-	3.06	3.13	3.23	-
		Amps	7.7	7.8	8.1	-	8.2	8.4	8.7	-	8.9	9.1	9.4	-	9.5	9.7	10.0	-	10.1	10.3	10.7	-	10.7	10.9	11.3	-
		Hi PR	140	151	160	-	158	170	179	-	179	193	204	-	204	220	232	-	230	247	261	-	254	273	288	-
		Lo PR	63	67	73	-	67	71	77	-	69	74	81	-	73	77	85	-	76	81	89	-	79	84	92	-
	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	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.80	0.66	0.46	-	0.83	0.69	0.48	-	0.83	0.70	0.48	-
		ΔT	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-
		kW	2.36	2.41	2.49	-	2.54	2.59	2.67	-	2.69	2.75	2.83	-	2.83	2.89	2.98	-	2.94	3.00	3.10	-	3.04	3.11	3.21	-
		Amps	7.6	7.8	8.0	-	8.2	8.4	8.6	-	8.8	9.0	9.3	-	9.4	9.6	9.9	-	10.0	10.2	10.6	-	10.6	10.8	11.2	-
		Hi PR	139	150	158	-	156	168	177	-	177	191	202	-	202	217	230	-	227	245	258	-	251	270	285	-
		Lo PR	63	66	73	-	66	70	77	-	69	73	80	-	72	77	84	-	76	80	88	-	78	83	91	-
	1116	MBh	30.7	31.9	34.9	-	30.0	31.1	34.1	-	29.3	30.4	33.3	-	28.6	29.6	32.5	-	27.2	28.2	30.8	-	25.2	26.1	28.6	-
		S/T	0.70	0.58	0.40	-	0.72	0.61	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.80	0.66	0.46	-	0.80	0.67	0.46	-
		ΔT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		kW	2.31	2.36	2.43	-	2.48	2.53	2.61	-	2.63	2.68	2.77	-	2.76	2.82	2.91	-	2.87	2.93	3.02	-	2.97	3.03	3.13	-
		Amps	7.4	7.6	7.8	-	8.0	8.1	8.4	-	8.6	8.8	9.1	-	9.2	9.4	9.7	-	9.7	10.0	10.3	-	10.3	10.5	10.9	-
		Hi PR	135	145	153	-	151	163	172	-	172	185	196	-	196	211	223	-	220	237	251	-	244	262	277	-
		Lo PR	61	65	70	-	64	68	74	-	67	71	77	-	70	74	81	-	73	78	85	-	76	81	88	-
75	1434	MBh	34.9	35.9	38.9	41.7	34.1	35.1	38.0	40.7	33.3	34.2	37.1	39.8	32.4	**33.4**	36.2	38.8	30.8	31.7	34.4	36.9	28.6	29.4	31.8	34.2
		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
		ΔT	19	18	15	10	20	18	15	10	20	18	15	10	20	**18**	15	10	19	18	15	10	18	17	14	9
		kW	2.40	2.45	2.52	2.60	2.58	2.63	2.71	2.80	2.73	2.79	2.88	2.97	2.87	**2.93**	3.03	3.12	2.99	3.05	3.15	3.25	3.09	3.16	3.26	3.37
		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	10.8	11.2	10.8	11.0	11.4	11.8
		Hi PR	142	153	161	168	159	171	181	189	181	195	206	214	206	**222**	234	244	232	250	263	275	256	276	291	304
		Lo PR	64	68	74	79	67	72	78	83	70	74	81	87	74	**78**	85	91	77	82	90	95	80	85	93	99
	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	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.78	0.59	0.38	0.90	**0.81**	0.61	0.39	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
		ΔT	20	19	15	10	20	19	15	11	20	19	15	11	21	**19**	15	11	20	19	15	11	19	17	14	10
		kW	2.38	2.43	2.50	2.58	2.56	2.61	2.69	2.78	2.71	2.77	2.86	2.95	2.85	**2.91**	3.00	3.10	2.96	3.03	3.13	3.23	3.06	3.13	3.23	3.34
		Amps	7.7	7.8	8.1	8.4	8.2	8.4	8.7	9.0	8.9	9.1	9.4	9.8	9.5	**9.7**	10.0	10.4	10.1	10.3	10.7	11.1	10.7	10.9	11.3	11.7
		Hi PR	140	151	160	166	158	170	179	187	179	193	204	212	204	**220**	232	242	230	247	261	272	254	273	288	301
		Lo PR	63	67	73	78	67	71	77	83	69	74	81	86	73	**77**	85	90	76	81	89	94	79	84	92	98
	1116	MBh	31.3	32.2	34.8	37.4	30.5	31.4	34.0	36.5	29.8	30.7	33.2	35.6	29.1	**29.9**	32.4	34.8	27.6	28.4	30.8	33.0	25.6	26.3	28.5	30.6
		S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.76	0.57	0.37	0.87	**0.78**	0.59	0.38	0.91	0.81	0.61	0.39	0.91	0.82	0.62	0.40
		ΔT	20	19	15	11	21	19	16	11	21	19	16	11	21	**19**	16	11	21	19	16	11	19	18	15	10
		kW	2.33	2.38	2.45	2.52	2.50	2.55	2.63	2.71	2.65	2.70	2.79	2.88	2.78	**2.84**	2.93	3.02	2.89	2.95	3.05	3.15	2.99	3.05	3.15	3.26
		Amps	7.5	7.6	7.9	8.1	8.0	8.2	8.5	8.8	8.7	8.9	9.2	9.5	9.3	**9.5**	9.8	10.1	9.8	10.1	10.4	10.8	10.4	10.6	11.0	11.4
		Hi PR	136	147	155	161	153	164	174	181	174	187	197	206	198	**213**	225	235	223	240	253	264	246	265	280	292
		Lo PR	61	65	71	76	65	69	75	80	67	72	78	83	71	**75**	82	87	74	79	86	92	77	81	89	95

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

High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	1434	MBh	35.5	36.3	38.8	41.4	34.7	35.4	37.9	40.5	33.8	34.6	37.0	39.5	33.0	33.7	36.1	38.5	31.4	32.1	34.2	36.6	29.1	29.7	31.7	33.9
		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	0.62	1.00	1.00	0.83	0.62
		ΔT	22	21	18	14	22	21	18	15	22	21	18	15	21	22	18	15	20	21	18	14	19	19	17	13
		kW	2.42	2.47	2.54	2.62	2.60	2.65	2.73	2.82	2.76	2.81	2.90	3.00	2.89	2.96	3.05	3.15	3.01	3.08	3.18	3.28	3.12	3.18	3.29	3.39
		Amps	7.8	8.0	8.2	8.5	8.4	8.6	8.8	9.2	9.1	9.3	9.6	9.9	9.7	9.9	10.2	10.6	10.3	10.5	10.9	11.3	10.9	11.1	11.5	11.9
		Hi PR	143	154	163	170	161	173	183	190	183	197	208	217	208	224	237	247	234	252	266	278	259	278	294	307
		Lo PR	64	69	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	81	86	94	100
	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	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.53	0.96	0.90	0.73	0.55	0.99	0.93	**0.76**	0.57	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59
		ΔT	22	22	19	15	23	22	19	15	23	22	19	15	23	22	**19**	15	22	22	19	15	20	20	18	14
		kW	2.40	2.45	2.52	2.60	2.58	2.63	2.71	2.80	2.73	2.79	2.88	2.97	2.87	2.93	**3.03**	3.12	2.99	3.05	3.15	3.25	3.09	3.16	3.26	3.37
		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	10.8	11.2	10.8	11.0	11.4	11.8
		Hi PR	142	153	161	168	159	171	181	189	181	195	206	215	206	222	**234**	244	232	250	264	275	256	276	291	304
		Lo PR	64	68	74	79	67	72	78	83	70	75	81	87	74	78	**85**	91	77	82	90	95	80	85	93	99
	1116	MBh	31.8	32.5	34.7	37.1	31.1	31.7	33.9	36.3	30.3	31.0	33.1	35.4	29.6	30.2	32.3	34.5	28.1	28.7	30.7	32.8	26.0	26.6	28.4	30.4
		S/T	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57
		ΔT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	16	23	22	19	15	21	21	18	14
		kW	2.35	2.39	2.47	2.54	2.52	2.57	2.65	2.73	2.67	2.73	2.81	2.90	2.80	2.86	2.95	3.05	2.92	2.98	3.07	3.17	3.01	3.08	3.18	3.28
		Amps	7.5	7.7	7.9	8.2	8.1	8.3	8.5	8.8	8.8	9.0	9.2	9.6	9.3	9.6	9.9	10.2	9.9	10.1	10.5	10.9	10.5	10.7	11.1	11.5
		Hi PR	138	148	156	163	154	166	175	183	176	189	199	208	200	215	227	237	225	242	256	267	249	267	282	295
		Lo PR	62	66	72	77	65	70	76	81	68	72	79	84	71	76	83	88	75	80	87	93	77	82	90	96
85	1434	MBh	36.1	36.8	38.6	41.1	35.3	36.0	37.7	40.2	34.4	35.1	36.8	39.2	33.6	34.2	35.9	38.3	31.9	32.5	34.1	36.4	29.6	30.1	31.6	33.7
		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
		ΔT	23	23	21	19	23	23	22	19	22	23	22	19	22	22	22	19	20	21	22	19	19	19	20	17
		kW	2.44	2.49	2.56	2.64	2.62	2.67	2.76	2.84	2.78	2.84	2.93	3.02	2.92	2.98	3.08	3.18	3.04	3.10	3.20	3.31	3.14	3.21	3.31	3.42
		Amps	7.9	8.0	8.3	8.6	8.5	8.7	8.9	9.2	9.2	9.4	9.7	10.0	9.8	10.0	10.3	10.7	10.4	10.6	11.0	11.4	11.0	11.2	11.6	12.0
		Hi PR	145	156	164	171	162	175	184	192	185	199	210	219	210	226	239	249	237	255	269	280	261	281	297	310
		Lo PR	65	69	76	80	69	73	80	85	71	76	83	88	75	80	87	93	79	84	91	97	81	87	94	101
	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	0.95	0.91	0.83	0.67	0.98	0.95	0.86	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
		ΔT	24	24	22	19	24	24	23	20	24	24	23	20	24	24	23	20	22	23	22	19	21	21	21	18
		kW	2.42	2.47	2.54	2.62	2.60	2.65	2.73	2.82	2.76	2.81	2.90	3.00	2.89	2.96	3.05	3.15	3.01	3.08	3.18	3.28	3.12	3.18	3.29	3.39
		Amps	7.8	8.0	8.2	8.5	8.4	8.6	8.8	9.2	9.1	9.3	9.6	9.9	9.7	9.9	10.2	10.6	10.3	10.5	10.9	11.3	10.9	11.1	11.5	11.9
		Hi PR	143	154	163	170	161	173	183	190	183	197	208	217	208	224	237	247	234	252	266	278	259	278	294	307
		Lo PR	64	69	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	81	86	94	100
	1116	MBh	32.4	33.0	34.6	36.9	31.6	32.2	33.8	36.0	30.9	31.5	32.9	35.1	30.1	30.7	32.1	34.3	28.6	29.2	30.5	32.6	26.5	27.0	28.3	30.2
		S/T	0.91	0.88	0.80	0.65	0.95	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.91	0.74
		ΔT	24	24	23	20	25	24	23	20	25	24	23	20	25	24	23	20	24	24	23	20	22	22	21	18
		kW	2.36	2.41	2.48	2.56	2.54	2.59	2.67	2.75	2.69	2.75	2.83	2.92	2.83	2.89	2.98	3.07	2.94	3.00	3.10	3.20	3.04	3.10	3.20	3.31
		Amps	7.6	7.8	8.0	8.3	8.2	8.4	8.6	8.9	8.8	9.0	9.3	9.7	9.4	9.6	9.9	10.3	10.0	10.2	10.6	11.0	10.6	10.8	11.2	11.6
		Hi PR	139	150	158	165	156	168	177	185	177	191	201	210	202	217	229	239	227	244	258	269	251	270	285	298
		Lo PR	62	66	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	80	88	93	78	83	91	97

IDB: Entering Indoor Dry Bulb Temperature kW = Total system power Shaded area reflects AHRI (TVA) conditions Amps = outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

EXPANDED COOLING DATA — GSH130483A* / ARUF61-00*-1* / ARUF48601A*

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	44.1	45.7	50.1	-	43.1	44.6	48.9	-	42	43.6	47.7	-	41	42.5	46.6	-	39	40.4	44.3	-	36.1	37.4	41	-
		S/T	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.81	0.67	0.47	-	0.83	0.7	0.48	-	0.86	0.72	0.5	-	0.87	0.73	0.5	-
		ΔT	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-
		kW	3.1	3.17	3.27	-	3.34	3.41	3.52	-	3.55	3.62	3.74	-	3.73	3.81	3.93	-	3.88	3.97	4.1	-	4.02	4.11	4.24	-
		Amps	9.99	10.2	10.5	-	10.8	11	11.4	-	11.7	11.9	12.3	-	12.4	12.7	13.2	-	13.2	13.5	14	-	14	14.3	14.8	-
		Hi PR	145	156	165	-	163	175	185	-	185	199	211	-	211	227	240	-	237	256	270	-	262	282	298	-
		Lo PR	62	65.9	72	-	65.5	69.7	76	-	68	72.4	79	-	71.5	76	83	-	74.9	79.7	87	-	77.5	82.4	90	-
	1600	MBh	42.8	44.4	48.6	-	41.8	43.3	47.5	-	40.8	42.3	46.4	-	39.8	41.3	45.2	-	37.8	39.2	43	-	35	36.3	39.8	-
		S/T	0.72	0.6	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	-
		ΔT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	14	11	-
		kW	3.08	3.14	3.24	-	3.31	3.38	3.49	-	3.52	3.59	3.71	-	3.7	3.78	3.9	-	3.85	3.94	4.07	-	3.99	4.07	4.21	-
		Amps	9.9	10.1	10.5	-	10.7	10.9	11.3	-	11.6	11.8	12.2	-	12.3	12.6	13	-	13.1	13.4	13.9	-	13.9	14.2	14.7	-
		Hi PR	144	155	163	-	161	174	183	-	184	197	209	-	209	225	238	-	235	253	267	-	260	280	295	-
		Lo PR	61.4	65.3	71.3	-	64.8	69	75.3	-	67.4	71.7	78.3	-	70.8	75.3	82.2	-	74.2	78.9	86.1	-	76.7	81.6	89.1	-
	1400	MBh	39.5	41	44.9	-	38.6	40	43.8	-	37.7	39.1	42.8	-	36.8	38.1	41.7	-	34.9	36.2	39.7	-	32.3	33.5	36.7	-
		S/T	0.7	0.58	0.4	-	0.72	0.6	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.8	0.67	0.46	-
		ΔT	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		kW	3.01	3.07	3.16	-	3.23	3.3	3.4	-	3.43	3.51	3.62	-	3.61	3.69	3.81	-	3.76	3.84	3.97	-	3.89	3.97	4.1	-
		Amps	9.64	9.87	10.2	-	10.4	10.6	11	-	11.3	11.5	11.9	-	12	12.3	12.7	-	12.8	13.1	13.5	-	13.5	13.8	14.3	-
		Hi PR	139	150	159	-	157	168	178	-	178	192	202	-	203	218	230	-	228	245	259	-	252	271	286	-
		Lo PR	59.5	63.3	69.1	-	62.9	66.9	73	-	65.4	69.5	75.9	-	68.6	73	79.7	-	71.9	76.5	83.6	-	74.4	79.2	86.4	-
75	1800	MBh	44.8	46.2	50	53.6	43.8	45.1	48.8	52.4	42.8	44	47.7	51.1	41.7	**42.9**	46.5	49.9	39.6	40.8	44.2	47.4	36.7	37.8	40.9	43.9
		S/T	0.86	0.77	0.58	0.38	0.89	0.8	0.61	0.39	0.92	0.82	0.62	0.4	0.95	**0.85**	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.89	0.67	0.43
		ΔT	20	18	15	10	20	18	15	10	20	18	15	10	20	**19**	15	11	20	18	15	10	19	17	14	10
		kW	3.13	3.19	3.29	3.4	3.37	3.44	3.55	3.66	3.58	3.65	3.77	3.89	3.76	**3.84**	3.97	4.1	3.92	4	4.14	4.27	4.05	4.14	4.28	4.43
		Amps	10.1	10.3	10.6	11	10.9	11.1	11.5	11.9	11.8	12.1	12.4	12.9	12.6	**12.9**	13.3	13.8	13.3	13.7	14.1	14.6	14.1	14.5	14.9	15.5
		Hi PR	147	158	167	174	165	177	187	195	187	201	213	222	213	**229**	242	253	240	258	273	284	265	285	301	314
		Lo PR	62.6	66.6	72.7	77.4	66.1	70.4	76.8	81.8	68.7	73.1	79.8	85	72.2	**76.8**	83.9	89.3	75.7	80.5	87.9	93.6	78.3	83.3	90.9	96.8
	1600	MBh	43.5	44.8	48.5	52.1	42.5	43.8	47.4	50.9	41.5	42.7	46.3	49.7	40.5	**41.7**	45.1	48.4	38.5	39.6	42.9	46	35.6	36.7	39.7	42.6
		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	0.9	**0.81**	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41
		ΔT	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	3.1	3.17	3.27	3.37	3.34	3.41	3.52	3.63	3.55	3.62	3.74	3.86	3.73	**3.81**	3.94	4.07	3.89	3.97	4.1	4.24	4.02	4.11	4.25	4.39
		Amps	9.99	10.2	10.5	10.9	10.8	11	11.4	11.8	11.7	11.9	12.3	12.8	12.5	**12.7**	13.2	13.6	13.2	13.5	14	14.5	14	14.3	14.8	15.4
		Hi PR	145	156	165	172	163	175	185	193	185	199	211	220	211	**227**	240	250	238	256	270	282	262	282	298	311
		Lo PR	62	65.9	72	76.7	65.5	69.7	76.1	81	68.1	72.4	79	84.2	71.5	**76.1**	83	88.4	74.9	79.7	87	92.7	77.5	82.4	90	95.9
	1400	MBh	40.2	41.4	44.8	48.1	39.3	40.4	43.7	46.9	38.3	39.5	42.7	45.8	37.4	**38.5**	41.7	44.7	35.5	36.6	39.6	42.5	32.9	33.9	36.7	39.3
		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	0.9	0.81	0.61	0.39	0.91	0.81	0.62	0.4
		ΔT	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	3.03	3.09	3.19	3.29	3.26	3.33	3.43	3.54	3.46	3.53	3.65	3.77	3.64	**3.72**	3.84	3.96	3.79	3.87	4	4.13	3.92	4.01	4.14	4.28
		Amps	9.73	9.95	10.3	10.6	10.5	10.7	11.1	11.5	11.4	11.6	12	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	141	152	160	167	158	170	180	187	180	194	204	213	205	**220**	233	243	230	248	262	273	255	274	289	302
		Lo PR	60.1	64	69.8	74.4	63.5	67.6	73.8	78.6	66	70.2	76.7	81.7	69.3	**73.8**	80.5	85.8	72.7	77.3	84.4	89.9	75.2	80	87.3	93

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

High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	45.6	46.6	49.8	53.3	44.6	45.6	48.7	52	43.5	44.5	47.5	50.8	42.5	43.4	46.4	49.5	40.3	41.2	44	47.1	37.4	38.2	40.8	43.6
		S/T	0.95	0.89	0.72	0.54	1	0.92	0.75	0.56	1	0.94	0.77	0.57	1	1	0.79	0.59	1	1	0.82	0.61	1	1	0.83	0.62
		ΔT	22	21	18	15	23	21	19	15	22	21	19	15	22	22	19	15	21	21	18	15	19	19	17	14
		kW	3.15	3.22	3.32	3.42	3.39	3.46	3.58	3.69	3.6	3.68	3.8	3.93	3.79	3.87	4	4.13	3.95	4.04	4.17	4.31	4.09	4.18	4.32	4.46
		Amps	10.2	10.4	10.7	11.1	11	11.2	11.6	12	11.9	12.2	12.6	13	12.7	13	13.4	13.9	13.5	13.8	14.2	14.8	14.3	14.6	15.1	15.6
		Hi PR	148	159	168	176	166	179	189	197	189	204	215	224	215	232	245	255	242	261	275	287	268	288	304	317
		Lo PR	63.2	67.3	73.4	78.2	66.8	71.1	77.6	82.6	69.4	73.9	80.6	85.9	72.9	77.6	84.7	90.2	76.4	81.3	88.8	94.5	79.1	84.1	91.8	97.8
	1600	MBh	44.3	45.3	48.4	51.7	43.3	44.2	47.3	50.5	42.3	43.2	46.1	49.3	41.2	42.1	**45**	48.1	39.2	40	42.8	45.7	36.3	37.1	39.6	42.3
		S/T	0.9	0.85	0.69	0.51	0.94	0.88	0.71	0.53	0.96	0.9	0.73	0.55	0.99	0.93	**0.76**	0.56	1	0.96	0.78	0.59	1	0.97	0.79	0.59
		ΔT	23	22	19	15	23	22	19	15	23	22	19	16	23	22	**20**	16	23	22	19	15	21	21	18	14
		kW	3.13	3.19	3.29	3.4	3.37	3.44	3.55	3.66	3.58	3.65	3.77	3.89	3.76	3.84	**3.97**	4.1	3.92	4	4.14	4.27	4.05	4.14	4.28	4.43
		Amps	10.1	10.3	10.6	11	10.9	11.1	11.5	11.9	11.8	12.1	12.4	12.9	12.6	12.9	**13.3**	13.8	13.4	13.7	14.1	14.6	14.1	14.5	14.9	15.5
		Hi PR	147	158	167	174	165	177	187	195	187	202	213	222	213	230	**242**	253	240	258	273	284	265	285	301	314
		Lo PR	62.6	66.6	72.7	77.4	66.1	70.4	76.8	81.8	68.7	73.1	79.8	85	72.2	76.8	**83.9**	89.3	75.7	80.5	87.9	93.6	78.3	83.3	90.9	96.8
	1400	MBh	40.9	41.8	44.7	47.7	39.9	40.8	43.6	46.6	39	39.8	42.6	45.5	38	38.9	41.5	44.4	36.1	36.9	39.5	42.2	33.5	34.2	36.6	39.1
		S/T	0.87	0.82	0.66	0.5	0.9	0.85	0.69	0.51	0.92	0.87	0.71	0.53	0.95	0.9	0.73	0.54	0.99	0.93	0.76	0.57	1	0.94	0.76	0.57
		ΔT	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15
		kW	3.05	3.12	3.21	3.32	3.28	3.35	3.46	3.57	3.49	3.56	3.68	3.8	3.67	3.75	3.87	4	3.82	3.9	4.03	4.17	3.95	4.04	4.17	4.31
		Amps	9.81	10	10.4	10.7	10.6	10.8	11.2	11.6	11.5	11.7	12.1	12.6	12.2	12.5	12.9	13.4	13	13.3	13.7	14.2	13.7	14.1	14.5	15.1
		Hi PR	142	153	162	169	160	172	181	189	182	195	206	215	207	223	235	245	233	250	264	276	257	277	292	305
		Lo PR	60.7	64.6	70.5	75.1	64.2	68.3	74.5	79.4	66.7	70.9	77.5	82.5	70	74.5	81.4	86.6	73.4	78.1	85.3	90.8	75.9	80.8	88.2	93.9
85	1800	MBh	46.4	47.3	49.6	52.9	45.4	46.2	48.4	51.7	44.3	45.1	47.3	50.4	43.2	44	46.1	49.2	41	41.8	43.8	46.7	38	38.8	40.6	43.3
		S/T	0.99	0.96	0.86	0.7	1	0.99	0.9	0.73	1	1	0.92	0.74	1	1	0.95	0.77	1	1	0.98	0.8	1	1	0.99	0.8
		ΔT	24	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	21	21	22	19	19	20	21	18
		kW	3.18	3.24	3.35	3.45	3.42	3.49	3.6	3.72	3.63	3.71	3.83	3.96	3.82	3.91	4.03	4.17	3.98	4.07	4.21	4.35	4.12	4.21	4.35	4.5
		Amps	10.3	10.5	10.8	11.2	11.1	11.3	11.7	12.1	12	12.3	12.7	13.1	12.8	13.1	13.5	14	13.6	13.9	14.4	14.9	14.4	14.7	15.2	15.8
		Hi PR	150	161	170	177	168	181	191	199	191	206	217	226	218	234	247	258	245	263	278	290	270	291	307	321
		Lo PR	63.9	67.9	74.2	79	67.5	71.8	78.4	83.5	70.1	74.6	81.5	86.7	73.7	78.4	85.6	91.1	77.2	82.1	89.7	95.5	79.9	85	92.7	98.8
	1600	MBh	45.1	46	48.1	51.4	44	44.9	47	50.2	43	43.8	45.9	49	41.9	42.8	44.8	47.8	39.8	40.6	42.5	45.4	36.9	37.6	39.4	42
		S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1	0.97	0.88	0.71	1	1	0.9	0.73	1	1	0.94	0.76	1	1	0.95	0.77
		ΔT	25	24	23	20	25	24	23	20	25	24	23	20	24	25	23	20	23	23	23	20	21	22	21	19
		kW	3.15	3.22	3.32	3.42	3.39	3.46	3.58	3.69	3.6	3.68	3.8	3.93	3.79	3.87	4	4.13	3.95	4.04	4.17	4.31	4.09	4.18	4.32	4.46
		Amps	10.2	10.4	10.7	11.1	11	11.2	11.6	12	11.9	12.2	12.6	13	12.7	13	13.4	13.9	13.5	13.8	14.2	14.8	14.3	14.6	15.1	15.6
		Hi PR	148	159	168	176	166	179	189	197	189	204	215	224	215	232	245	255	242	261	275	287	268	288	304	317
		Lo PR	63.2	67.3	73.4	78.2	66.8	71.1	77.6	82.6	69.4	73.9	80.6	85.9	72.9	77.6	84.7	90.2	76.4	81.3	88.8	94.5	79.1	84.1	91.8	97.8
	1400	MBh	41.6	42.4	44.4	47.4	40.6	41.4	43.4	46.3	39.7	40.4	42.4	45.2	38.7	39.5	41.3	44.1	36.8	37.5	39.3	41.9	34.1	34.7	36.4	38.8
		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	0.97	0.87	0.71	1	1	0.9	0.73	1	1	0.91	0.74
		ΔT	25	25	23	20	25	25	23	20	25	25	23	20	25	25	24	20	24	25	23	20	22	23	22	19
		kW	3.08	3.14	3.24	3.34	3.31	3.38	3.49	3.6	3.52	3.59	3.71	3.83	3.7	3.78	3.9	4.03	3.85	3.94	4.07	4.2	3.99	4.07	4.21	4.35
		Amps	9.9	10.1	10.4	10.8	10.7	10.9	11.3	11.7	11.6	11.8	12.2	12.7	12.3	12.6	13	13.5	13.1	13.4	13.9	14.4	13.9	14.2	14.7	15.2
		Hi PR	144	155	163	170	161	174	183	191	183	197	208	217	209	225	237	248	235	253	267	279	260	279	295	308
		Lo PR	61.3	65.3	71.2	75.9	64.8	68.9	75.3	80.2	67.4	71.7	78.2	83.3	70.7	75.3	82.2	87.5	74.1	78.9	86.1	91.7	76.7	81.6	89.1	94.9

IDB: Entering Indoor Dry Bulb Temperature kW = Total system power Shaded area reflects AHRI (TVA) conditions Amps = outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

EXPANDED COOLING DATA — GSH130484A* / ARUF61-00*-1* / ARUF48601A*

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	44.1	45.7	50.1	-	43.1	44.6	48.9	-	42.0	43.6	47.7	-	41.0	42.5	46.6	-	39.0	40.4	44.3	-	36.1	37.4	41.0	-
		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	-
		ΔT	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-
		kW	3.02	3.10	3.21	-	3.29	3.37	3.49	-	3.52	3.61	3.74	-	3.73	3.83	3.97	-	3.91	4.01	4.16	-	4.06	4.16	4.32	-
		Amps	2.3	2.4	2.4	-	2.5	2.5	2.6	-	2.6	2.7	2.8	-	2.8	2.9	2.9	-	2.9	3.0	3.1	-	3.1	3.2	3.3	-
		Hi PR	150	162	171	-	169	182	192	-	192	207	218	-	219	235	249	-	246	265	280	-	272	293	309	-
		Lo PR	63	67	73	-	66	70	77	-	69	73	80	-	72	77	84	-	76	81	88	-	78	83	91	-
	1600	MBh	42.8	44.4	48.6	-	41.8	43.3	47.5	-	40.8	42.3	46.4	-	39.8	41.3	45.2	-	37.8	39.2	43.0	-	35.0	36.3	39.8	-
		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	-
		ΔT	18	15	12	-	18	15	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		kW	2.99	3.07	3.18	-	3.26	3.34	3.46	-	3.49	3.58	3.71	-	3.70	3.79	3.93	-	3.87	3.97	4.12	-	4.03	4.13	4.28	-
		Amps	2.3	2.3	2.4	-	2.4	2.5	2.6	-	2.6	2.7	2.7	-	2.8	2.8	2.9	-	2.9	3.0	3.1	-	3.1	3.1	3.2	-
		Hi PR	149	160	169	-	167	180	190	-	190	205	216	-	217	233	246	-	244	262	277	-	269	290	306	-
		Lo PR	62	66	72	-	66	70	76	-	68	72	79	-	72	76	83	-	75	80	87	-	78	82	90	-
	1400	MBh	39.5	41.0	44.9	-	38.6	40.0	43.8	-	37.7	39.1	42.8	-	36.8	38.1	41.7	-	34.9	36.2	39.7	-	32.3	33.5	36.7	-
		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	-
		ΔT	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		kW	2.91	2.98	3.09	-	3.17	3.25	3.36	-	3.40	3.48	3.61	-	3.60	3.68	3.82	-	3.77	3.86	4.00	-	3.91	4.01	4.16	-
		Amps	2.2	2.3	2.3	-	2.4	2.4	2.5	-	2.6	2.6	2.7	-	2.7	2.8	2.8	-	2.9	2.9	3.0	-	3.0	3.1	3.2	-
		Hi PR	145	156	164	-	162	175	184	-	184	198	210	-	210	226	239	-	236	254	269	-	261	281	297	-
		Lo PR	60	64	70	-	64	68	74	-	66	70	77	-	69	74	81	-	73	77	84	-	75	80	87	-
75	1800	MBh	44.84	46.17	49.98	53.64	43.80	45.10	48.81	52.39	42.76	44.02	47.65	51.14	41.72	42.95	46.49	49.89	39.63	40.80	44.16	47.40	36.71	37.80	40.91	43.91
		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
		ΔT	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	3.05	3.12	3.24	3.36	3.32	3.40	3.53	3.66	3.56	3.65	3.78	3.92	3.77	3.86	4.00	4.15	3.95	4.05	4.20	4.35	4.10	4.20	4.36	4.52
		Amps	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.7	2.7	2.7	2.8	2.9	2.8	2.9	3.0	3.1	3.0	3.0	3.1	3.2	3.1	3.2	3.3	3.4
		Hi PR	152	164	173	180	171	184	194	202	194	209	220	230	221	238	251	262	249	268	282	295	275	296	312	326
		Lo PR	63	67	73	78	67	71	78	83	69	74	81	86	73	78	85	90	76	81	89	95	79	84	92	98
	1600	MBh	43.5	44.8	48.5	52.1	42.5	43.8	47.4	50.9	41.5	42.7	46.3	49.7	40.5	**41.7**	45.1	48.4	38.5	39.6	42.9	46.0	35.6	36.7	39.7	42.6
		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
		ΔT	20	19	15	11	21	19	16	11	21	19	16	11	21	**19**	16	11	21	19	16	11	19	18	14	10
		kW	3.02	3.10	3.21	3.33	3.29	3.37	3.49	3.62	3.53	3.61	3.74	3.88	3.73	**3.83**	3.97	4.12	3.91	4.01	4.16	4.31	4.06	4.16	4.32	4.48
		Amps	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.7	2.6	2.7	2.8	2.9	2.8	**2.9**	2.9	3.0	2.9	3.0	3.1	3.2	3.1	3.2	3.3	3.4
		Hi PR	151	162	171	178	169	182	192	200	192	207	218	228	219	**235**	249	259	246	265	280	292	272	293	309	322
		Lo PR	63	67	73	77	66	70	77	82	69	73	80	85	72	**77**	84	89	76	81	88	94	78	83	91	97
	1400	MBh	40.2	41.4	44.8	48.1	39.3	40.4	43.7	46.9	38.3	39.5	42.7	45.8	37.4	38.49	41.7	44.7	35.5	36.6	39.6	42.5	32.9	33.9	36.7	39.3
		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
		ΔT	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	2.94	3.01	3.12	3.23	3.20	3.28	3.40	3.52	3.43	3.51	3.64	3.78	3.63	3.72	3.86	4.00	3.80	3.90	4.04	4.19	3.95	4.05	4.20	4.35
		Amps	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.6	2.6	2.6	2.7	2.8	2.7	2.8	2.9	3.0	2.9	2.9	3.0	3.1	3.0	3.1	3.2	3.3
		Hi PR	146	157	166	173	164	176	186	194	186	201	212	221	212	228	241	252	239	257	271	283	264	284	300	313
		Lo PR	61	65	71	75	64	68	75	79	67	71	78	83	70	75	81	87	73	78	85	91	76	81	88	94

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

High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	45.64	46.64	49.83	53.26	44.58	45.55	48.67	52.03	43.52	44.47	47.51	50.79	42.46	43.38	46.35	49.55	40.33	41.21	44.03	47.07	37.36	38.18	40.79	43.60
		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
		ΔT	22	21	18	15	23	21	18	15	22	21	18	15	22	21	19	15	21	21	18	15	19	19	17	14
		kW	3.08	3.15	3.27	3.39	3.35	3.43	3.56	3.69	3.59	3.68	3.82	3.96	3.80	3.90	4.04	4.19	3.98	4.08	4.23	4.39	4.14	4.24	4.40	4.57
		Amps	2.3	2.4	2.5	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8	2.9	2.8	2.9	3.0	3.1	3.0	3.1	3.1	3.3	3.1	3.2	3.3	3.4
		Hi PR	154	165	175	182	172	185	196	204	196	211	223	232	223	240	254	265	251	270	285	298	277	299	315	329
		Lo PR	64	68	74	79	68	72	78	84	70	75	82	87	74	78	86	91	77	82	90	96	80	85	93	99
	1600	MBh	44.3	45.3	48.4	51.7	43.3	44.2	47.3	50.5	42.3	43.2	46.1	49.3	41.2	42.1	**45.0**	48.1	39.2	40.0	42.8	45.7	36.3	37.1	39.6	42.3
		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
		ΔT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	**19**	15	23	22	19	15	21	21	18	14
		kW	3.05	3.12	3.24	3.36	3.32	3.40	3.53	3.66	3.56	3.65	3.78	3.92	3.77	3.86	**4.00**	4.15	3.95	4.05	4.20	4.35	4.10	4.20	4.36	4.52
		Amps	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.7	2.7	2.7	2.8	2.9	2.8	2.9	**3.0**	3.1	3.0	3.0	3.1	3.2	3.1	3.2	3.3	3.4
		Hi PR	152	164	173	180	171	184	194	202	194	209	220	230	221	238	**251**	262	249	268	283	295	275	296	312	326
		Lo PR	63	67	73	78	67	71	78	83	69	74	81	86	73	78	**85**	90	76	81	89	95	79	84	92	98
	1400	MBh	40.9	41.8	44.7	47.7	39.9	40.8	43.6	46.6	39.0	39.8	42.6	45.5	38.0	38.9	41.5	44.4	36.1	36.9	39.5	42.2	33.5	34.2	36.6	39.1
		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
		ΔT	23	22	19	15	23	23	20	16	24	23	20	16	24	23	20	16	23	22	19	16	22	21	18	15
		kW	2.97	3.04	3.15	3.26	3.23	3.31	3.43	3.55	3.46	3.54	3.67	3.81	3.66	3.75	3.89	4.04	3.84	3.93	4.08	4.23	3.99	4.09	4.24	4.40
		Amps	2.3	2.3	2.4	2.5	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.8	2.7	2.8	2.9	3.0	2.9	3.0	3.0	3.1	3.0	3.1	3.2	3.3
		Hi PR	147	159	168	175	165	178	188	196	188	203	214	223	214	231	244	254	241	260	274	286	266	287	303	316
		Lo PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	88	74	79	86	92	77	82	89	95
85	1800	MBh	46.44	47.34	49.58	52.89	45.36	46.24	48.42	51.66	44.28	45.14	47.27	50.43	43.20	44.03	46.12	49.20	41.04	41.83	43.81	46.74	38.01	38.75	40.58	43.30
		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
		ΔT	23	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	21	21	22	19	19	20	20	18
		kW	3.11	3.18	3.30	3.42	3.38	3.46	3.59	3.72	3.62	3.71	3.85	3.99	3.84	3.93	4.08	4.23	4.02	4.12	4.27	4.44	4.18	4.28	4.44	4.61
		Amps	2.4	2.4	2.5	2.6	2.5	2.6	2.6	2.7	2.7	2.8	2.8	2.9	2.9	2.9	3.0	3.1	3.0	3.1	3.2	3.3	3.2	3.2	3.3	3.5
		Hi PR	155	167	176	184	174	187	198	206	198	213	225	235	225	243	256	267	254	273	288	301	280	302	318	332
		Lo PR	65	69	75	80	68	73	79	84	71	75	82	88	74	79	86	92	78	83	91	97	81	86	94	100
	1600	MBh	45.1	46.0	48.1	51.4	44.0	44.9	47.0	50.2	43.0	43.8	45.9	49.0	41.9	42.8	44.8	47.8	39.8	40.6	42.5	45.4	36.9	37.6	39.4	42.0
		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
		ΔT	24	24	23	20	25	24	23	20	25	24	23	20	24	24	23	20	23	23	23	20	21	22	21	18
		kW	3.08	3.15	3.27	3.39	3.35	3.43	3.56	3.69	3.59	3.68	3.82	3.96	3.80	3.90	4.04	4.19	3.98	4.08	4.23	4.39	4.14	4.24	4.40	4.57
		Amps	2.3	2.4	2.5	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8	2.9	2.8	2.9	3.0	3.1	3.0	3.1	3.1	3.3	3.1	3.2	3.3	3.4
		Hi PR	154	165	175	182	172	185	196	204	196	211	223	232	223	240	254	265	251	270	285	298	277	299	315	329
		Lo PR	64	68	74	79	68	72	78	84	70	75	82	87	74	78	86	91	77	82	90	96	80	85	93	99
	1400	MBh	41.6	42.4	44.4	47.4	40.6	41.4	43.4	46.3	39.7	40.4	42.4	45.2	38.7	39.5	41.3	44.1	36.8	37.5	39.3	41.9	34.1	34.7	36.4	38.8
		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
		ΔT	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	24	24	23	20	22	23	22	19
		kW	2.99	3.07	3.18	3.29	3.26	3.34	3.46	3.59	3.49	3.58	3.71	3.85	3.70	3.79	3.93	4.08	3.87	3.97	4.12	4.27	4.02	4.12	4.28	4.44
		Amps	2.3	2.3	2.4	2.5	2.4	2.5	2.6	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.9	3.0	2.9	3.0	3.1	3.2	3.1	3.1	3.2	3.3
		Hi PR	149	160	169	177	167	180	190	198	190	205	216	225	217	233	246	257	244	262	277	289	269	290	306	319
		Lo PR	62	66	72	77	66	70	76	81	68	72	79	84	72	76	83	88	75	80	87	93	78	82	90	96

IDB: Entering Indoor Dry Bulb Temperature kW = Total system power Shaded area reflects AHRI (TVA) conditions Amps = outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

EXPANDED COOLING DATA — GSH130603A* / ARUF61-00*-1* / ARUF48601A*

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	54.4	56.4	61.8	-	53.1	55.1	60.3	-	51.9	53.7	58.9	-	50.6	52.4	57.5	-	48.1	49.8	54.6	-	44.5	46.1	50.6	-
		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	-
		ΔT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		kW	4.03	4.12	4.25	-	4.35	4.45	4.60	-	4.64	4.74	4.90	-	4.89	5.00	5.17	-	5.10	5.22	5.39	-	5.28	5.40	5.59	-
		Amps	13.0	13.3	13.8	-	14.1	14.4	14.9	-	15.3	15.7	16.2	-	16.3	16.7	17.3	-	17.4	17.8	18.4	-	18.4	18.9	19.5	-
		Hi PR	146	157	166	-	164	176	186	-	186	200	211	-	212	228	241	-	238	257	271	-	263	283	299	-
		Lo PR	57	61	66	-	60	64	70	-	63	67	73	-	66	70	76	-	69	73	80	-	71	76	83	-
	1800	MBh	52.8	54.7	60.0	-	51.6	53.5	58.6	-	50.3	52.2	57.2	-	49.1	50.9	55.8	-	46.7	48.4	53.0	-	43.2	44.8	49.1	-
		S/T	0.69	0.58	0.40	-	0.72	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.79	0.66	0.46	-
		ΔT	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		kW	4.00	4.09	4.22	-	4.32	4.41	4.56	-	4.60	4.70	4.86	-	4.84	4.96	5.12	-	5.06	5.17	5.35	-	5.24	5.36	5.54	-
		Amps	12.9	13.2	13.7	-	14.0	14.3	14.8	-	15.1	15.5	16.0	-	16.2	16.6	17.1	-	17.2	17.6	18.2	-	18.2	18.7	19.3	-
		Hi PR	144	155	164	-	162	174	184	-	184	198	209	-	210	226	238	-	236	254	268	-	261	281	296	-
		Lo PR	57	60	66	-	60	64	69	-	62	66	72	-	65	69	76	-	68	73	79	-	71	75	82	-
	1575	MBh	48.7	50.5	55.3	-	47.6	49.3	54.1	-	46.5	48.2	52.8	-	45.3	47.0	51.5	-	43.1	44.6	48.9	-	39.9	41.4	45.3	-
		S/T	0.67	0.56	0.39	-	0.69	0.58	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.76	0.64	0.44	-
		ΔT	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	13	-	18	15	12	-
		kW	3.90	3.99	4.12	-	4.21	4.30	4.44	-	4.48	4.58	4.73	-	4.72	4.83	4.99	-	4.93	5.04	5.21	-	5.10	5.22	5.40	-
		Amps	12.6	12.9	13.3	-	13.6	13.9	14.4	-	14.7	15.1	15.6	-	15.7	16.1	16.7	-	16.7	17.1	17.7	-	17.7	18.2	18.8	-
		Hi PR	140	151	159	-	157	169	179	-	179	192	203	-	204	219	231	-	229	246	260	-	253	272	287	-
		Lo PR	55	58	64	-	58	62	67	-	60	64	70	-	63	67	73	-	66	70	77	-	69	73	80	-
75	2025	MBh	55.31	56.94	61.64	66.15	54.02	55.62	60.20	64.61	52.73	54.30	58.77	63.08	51.45	52.97	57.34	61.54	48.88	50.32	54.47	58.46	45.27	46.61	50.46	54.15
		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
		ΔT	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	4.07	4.16	4.29	4.43	4.39	4.49	4.64	4.79	4.68	4.78	4.94	5.11	4.93	5.04	5.21	5.39	5.14	5.26	5.44	5.63	5.33	5.45	5.64	5.83
		Amps	13.2	13.5	13.9	14.4	14.2	14.5	15.0	15.6	15.4	15.8	16.3	16.9	16.5	16.9	17.4	18.1	17.5	18.0	18.6	19.3	18.6	19.0	19.7	20.4
		Hi PR	147	159	167	175	165	178	188	196	188	202	214	223	214	230	243	254	241	259	274	285	266	286	302	315
		Lo PR	58	61	67	71	61	65	71	75	63	67	74	78	67	71	77	82	70	74	81	86	72	77	84	89
	1800	MBh	53.7	55.3	59.8	64.2	52.4	54.0	58.4	62.7	51.2	52.7	57.1	61.2	50.0	**51.4**	55.7	59.7	47.5	48.9	52.9	56.8	44.0	45.3	49.0	52.6
		S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	**0.77**	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39
		ΔT	22	20	16	11	22	20	16	11	22	20	16	11	22	**20**	17	11	22	20	16	11	20	19	15	11
		kW	4.03	4.12	4.26	4.40	4.35	4.45	4.60	4.75	4.64	4.74	4.90	5.07	4.89	**5.00**	5.17	5.35	5.10	5.22	5.39	5.58	5.28	5.40	5.59	5.78
		Amps	13.0	13.3	13.8	14.3	14.1	14.4	14.9	15.4	15.3	15.7	16.2	16.8	16.3	**16.7**	17.3	17.9	17.4	17.8	18.4	19.1	18.4	18.9	19.5	20.2
		Hi PR	146	157	166	173	164	176	186	194	186	200	211	221	212	**228**	241	251	238	257	271	283	263	284	299	312
		Lo PR	57	61	66	71	60	64	70	75	63	67	73	78	66	**70**	76	81	69	73	80	85	71	76	83	88
	1575	MBh	49.6	51.0	55.2	59.3	48.4	49.8	53.9	57.9	47.3	48.7	52.7	56.5	46.1	47.47	51.4	55.1	43.8	45.1	48.8	52.4	40.6	41.8	45.2	48.5
		S/T	0.76	0.68	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.38	0.87	0.78	0.59	0.38
		ΔT	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	11	21	19	16	11
		kW	3.93	4.02	4.15	4.29	4.24	4.34	4.48	4.63	4.52	4.62	4.78	4.94	4.76	4.87	5.03	5.21	4.97	5.08	5.25	5.44	5.15	5.26	5.44	5.63
		Amps	12.7	13.0	13.4	13.9	13.7	14.0	14.5	15.0	14.9	15.2	15.7	16.3	15.9	16.3	16.8	17.4	16.9	17.3	17.9	18.6	17.9	18.3	18.9	19.7
		Hi PR	141	152	161	168	159	171	180	188	181	194	205	214	206	221	234	244	231	249	263	274	256	275	290	303
		Lo PR	55	59	64	68	59	62	68	72	61	65	71	75	64	68	74	79	67	71	78	83	69	74	80	86

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

High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	56.29	57.52	61.45	65.69	54.98	56.18	60.02	64.16	53.67	54.84	58.59	62.64	52.36	53.51	57.17	61.11	49.74	50.83	54.31	58.05	46.08	47.09	50.31	53.78
		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	1.00	0.93	0.76	0.56	1.00	0.96	0.78	0.59	1.00	1.00	0.79	0.59
		ΔT	23	22	19	15	23	22	19	16	23	22	19	16	24	23	20	16	23	22	19	15	21	21	18	14
		kW	4.10	4.19	4.33	4.47	4.43	4.53	4.68	4.83	4.72	4.82	4.98	5.16	4.97	5.08	5.26	5.44	5.19	5.31	5.49	5.68	5.38	5.50	5.69	5.89
		Amps	13.3	13.6	14.0	14.5	14.3	14.7	15.2	15.7	15.6	15.9	16.5	17.1	16.6	17.0	17.6	18.3	17.7	18.1	18.7	19.4	18.8	19.2	19.9	20.6
		Hi PR	149	160	169	176	167	180	190	198	190	204	216	225	216	233	246	256	243	262	276	288	269	289	305	319
		Lo PR	58	62	68	72	62	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	85	90
	1800	MBh	54.7	55.8	59.7	63.8	53.4	54.5	58.3	62.3	52.1	53.2	56.9	60.8	50.8	51.9	**55.5**	59.3	48.3	49.4	52.7	56.4	44.7	45.7	48.8	52.2
		S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.89	**0.72**	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56
		ΔT	24	23	20	16	24	23	20	16	24	23	20	16	25	23	**20**	16	24	23	20	16	23	22	19	15
		kW	4.07	4.16	4.29	4.43	4.39	4.49	4.64	4.79	4.68	4.78	4.94	5.11	4.93	5.04	**5.21**	5.39	5.14	5.26	5.44	5.63	5.33	5.45	5.64	5.84
		Amps	13.2	13.5	13.9	14.4	14.2	14.5	15.0	15.6	15.4	15.8	16.3	16.9	16.5	16.9	**17.4**	18.1	17.5	18.0	18.6	19.3	18.6	19.0	19.7	20.4
		Hi PR	147	159	167	175	165	178	188	196	188	202	214	223	214	230	**243**	254	241	259	274	285	266	286	302	315
		Lo PR	58	61	67	71	61	65	71	75	63	67	74	78	67	71	**77**	82	70	74	81	86	72	77	84	89
	1575	MBh	50.4	51.5	55.1	58.9	49.3	50.3	53.8	57.5	48.1	49.1	52.5	56.1	46.9	47.9	51.2	54.8	44.6	45.6	48.7	52.0	41.3	42.2	45.1	48.2
		S/T	0.83	0.78	0.63	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.89	0.72	0.54	0.95	0.89	0.73	0.54
		ΔT	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	25	24	20	16	23	22	19	15
		kW	3.97	4.05	4.18	4.32	4.28	4.38	4.52	4.67	4.56	4.66	4.82	4.98	4.80	4.91	5.08	5.25	5.01	5.13	5.30	5.48	5.19	5.31	5.49	5.68
		Amps	12.8	13.1	13.5	14.0	13.8	14.2	14.6	15.2	15.0	15.4	15.9	16.5	16.0	16.4	17.0	17.6	17.1	17.5	18.1	18.7	18.1	18.5	19.1	19.9
		Hi PR	143	154	162	169	160	173	182	190	182	196	207	216	208	223	236	246	234	251	266	277	258	278	293	306
		Lo PR	56	60	65	69	59	63	69	73	61	65	71	76	65	69	75	80	68	72	79	84	70	74	81	87
85	2025	MBh	57.27	58.38	61.15	65.23	55.94	57.02	59.72	63.72	54.61	55.67	58.30	62.20	53.28	54.31	56.88	60.68	50.61	51.59	54.04	57.65	46.88	47.79	50.05	53.40
		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
		ΔT	25	24	23	20	25	24	23	20	25	25	23	20	24	25	23	20	23	23	23	20	21	22	21	19
		kW	4.13	4.22	4.36	4.51	4.46	4.56	4.72	4.88	4.76	4.86	5.03	5.20	5.01	5.13	5.30	5.49	5.23	5.35	5.54	5.73	5.42	5.55	5.74	5.94
		Amps	13.4	13.7	14.2	14.7	14.5	14.8	15.3	15.9	15.7	16.1	16.6	17.2	16.8	17.2	17.8	18.4	17.9	18.3	18.9	19.6	18.9	19.4	20.0	20.8
		Hi PR	150	162	171	178	169	181	192	200	192	206	218	227	218	235	248	259	246	264	279	291	271	292	309	322
		Lo PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	78	85	91
	1800	MBh	55.6	56.7	59.4	63.3	54.3	55.4	58.0	61.9	53.0	54.0	56.6	60.4	51.7	52.7	55.2	58.9	49.1	50.1	52.5	56.0	45.5	46.4	48.6	51.8
		S/T	0.90	0.87	0.79	0.64	0.94	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.90	0.73
		ΔT	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21	25	25	24	21	23	24	22	19
		kW	4.10	4.19	4.33	4.47	4.43	4.53	4.68	4.83	4.72	4.82	4.98	5.16	4.97	5.08	5.26	5.44	5.19	5.31	5.49	5.68	5.38	5.50	5.69	5.89
		Amps	13.3	13.6	14.0	14.5	14.3	14.7	15.2	15.7	15.6	15.9	16.5	17.1	16.6	17.0	17.6	18.3	17.7	18.1	18.7	19.4	18.8	19.2	19.9	20.6
		Hi PR	149	160	169	176	167	180	190	198	190	204	216	225	216	233	246	256	243	262	276	288	269	289	305	319
		Lo PR	58	62	68	72	62	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	85	90
	1575	MBh	51.3	52.3	54.8	58.5	50.1	51.1	53.5	57.1	48.9	49.9	52.2	55.7	47.7	48.7	51.0	54.4	45.4	46.2	48.4	51.7	42.0	42.8	44.9	47.9
		S/T	0.87	0.84	0.76	0.61	0.90	0.87	0.79	0.64	0.92	0.89	0.81	0.65	0.95	0.92	0.83	0.67	0.99	0.96	0.86	0.70	1.00	0.96	0.87	0.71
		ΔT	26	26	24	21	26	26	25	21	26	26	25	21	27	26	25	21	26	26	24	21	24	24	23	20
		kW	4.00	4.09	4.22	4.36	4.32	4.41	4.56	4.71	4.60	4.70	4.86	5.02	4.84	4.95	5.12	5.30	5.05	5.17	5.35	5.53	5.24	5.36	5.54	5.73
		Amps	12.9	13.2	13.6	14.1	13.9	14.3	14.7	15.3	15.1	15.5	16.0	16.6	16.2	16.6	17.1	17.8	17.2	17.6	18.2	18.9	18.2	18.7	19.3	20.0
		Hi PR	144	155	164	171	162	174	184	192	184	198	209	218	210	226	238	249	236	254	268	280	261	281	296	309
		Lo PR	56	60	66	70	60	64	69	74	62	66	72	77	65	69	76	81	68	73	79	84	71	75	82	87

IDB: Entering Indoor Dry Bulb Temperature kW = Total system power Shaded area reflects AHRI (TVA) conditions Amps = outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

EXPANDED COOLING DATA — GSH130604A* / ARUF61-00*-1* / ARUF48601A*

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	54.4	56.4	61.8	-	53.1	55.1	60.3	-	51.9	53.7	58.9	-	50.6	52.4	57.5	-	48.1	49.8	54.6	-	44.5	46.1	50.6	-
		S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-
		ΔT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		kW	3.98	4.06	4.18	-	4.26	4.35	4.48	-	4.52	4.61	4.75	-	4.74	4.84	4.99	-	4.93	5.04	5.19	-	5.09	5.20	5.37	-
		Amps	3.2	3.2	3.3	-	3.3	3.3	3.3	-	3.3	3.3	3.3	-	3.3	3.4	3.4	-	3.4	3.4	3.4	-	3.4	3.4	3.5	-
		Hi PR	152	163	173	-	170	183	194	-	194	209	220	-	221	238	251	-	248	267	282	-	274	295	312	-
		Lo PR	59	62	68	-	62	66	72	-	64	68	75	-	68	72	78	-	71	75	82	-	73	78	85	-
	1800	MBh	52.8	54.7	60.0	-	51.6	53.5	58.6	-	50.3	52.2	57.2	-	49.1	50.9	55.8	-	46.7	48.4	53.0	-	43.2	44.8	49.1	-
		S/T	0.69	0.58	0.40	-	0.71	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.79	0.66	0.46	-
		ΔT	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		kW	3.95	4.03	4.14	-	4.23	4.32	4.45	-	4.48	4.57	4.72	-	4.70	4.80	4.95	-	4.89	5.00	5.15	-	5.05	5.16	5.33	-
		Amps	3.2	3.2	3.2	-	3.3	3.3	3.3	-	3.3	3.3	3.3	-	3.3	3.4	3.4	-	3.4	3.4	3.4	-	3.4	3.4	3.5	-
		Hi PR	150	162	171	-	169	182	192	-	192	206	218	-	219	235	248	-	246	265	279	-	272	292	309	-
		Lo PR	58	62	67	-	61	65	71	-	64	68	74	-	67	71	78	-	70	75	81	-	73	77	84	-
	1575	MBh	48.7	50.5	55.3	-	47.6	49.3	54.1	-	46.5	48.2	52.8	-	45.3	47.0	51.5	-	43.1	44.6	48.9	-	39.9	41.4	45.3	-
		S/T	0.67	0.56	0.38	-	0.69	0.58	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.76	0.64	0.44	-
		ΔT	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	13	-	18	15	12	-
		kW	3.86	3.94	4.05	-	4.14	4.22	4.34	-	4.38	4.47	4.60	-	4.59	4.69	4.83	-	4.78	4.88	5.03	-	4.93	5.04	5.20	-
		Amps	3.2	3.2	3.2	-	3.2	3.3	3.3	-	3.3	3.3	3.3	-	3.3	3.3	3.4	-	3.4	3.4	3.4	-	3.4	3.4	3.4	-
		Hi PR	146	157	166	-	164	176	186	-	186	200	211	-	212	228	241	-	238	257	271	-	263	284	299	-
		Lo PR	56	60	65	-	59	63	69	-	62	66	72	-	65	69	75	-	68	72	79	-	70	75	82	-
75	2025	MBh	55.31	56.94	61.64	66.15	54.02	55.62	60.20	64.61	52.73	54.30	58.77	63.08	51.45	52.97	57.34	61.54	48.88	50.32	54.47	58.46	45.27	46.61	50.46	54.15
		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
		ΔT	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	4.01	4.09	4.21	4.34	4.30	4.38	4.52	4.66	4.55	4.65	4.79	4.94	4.78	4.88	5.03	5.19	4.97	5.08	5.24	5.41	5.14	5.25	5.41	5.59
		Amps	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.4	3.5	3.5	3.5
		Hi PR	153	165	174	182	172	185	196	204	196	211	222	232	223	240	253	264	251	270	285	297	277	298	315	328
		Lo PR	59	63	69	73	63	67	73	77	65	69	75	80	68	73	79	84	72	76	83	88	74	79	86	92
	1800	MBh	53.7	55.3	59.8	64.2	52.4	54.0	58.4	62.7	51.2	52.7	57.1	61.2	50.0	**51.4**	55.7	59.7	47.5	48.9	52.9	56.8	44.0	45.3	49.0	52.6
		S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	**0.77**	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39
		ΔT	22	20	16	11	22	20	16	11	22	20	16	11	22	**20**	17	11	22	20	16	11	20	19	15	11
		kW	3.98	4.06	4.18	4.30	4.26	4.35	4.48	4.62	4.52	4.61	4.75	4.90	4.74	**4.84**	4.99	5.15	4.93	5.04	5.19	5.36	5.10	5.20	5.37	5.54
		Amps	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.3	**3.4**	3.4	3.4	3.4	3.4	3.4	3.5	3.4	3.4	3.5	3.5
		Hi PR	152	163	173	180	170	183	194	202	194	209	220	230	221	**238**	251	262	248	267	282	294	274	295	312	325
		Lo PR	59	62	68	72	62	66	72	77	64	68	75	80	68	**72**	79	84	71	75	82	88	73	78	85	91
	1575	MBh	49.6	51.0	55.2	59.3	48.4	49.8	53.9	57.9	47.3	48.7	52.7	56.5	46.1	47.47	51.4	55.1	43.8	45.1	48.8	52.4	40.6	41.8	45.2	48.5
		S/T	0.76	0.68	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.87	0.78	0.59	0.38
		ΔT	22	20	16	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	11	21	19	16	11
		kW	3.89	3.97	4.08	4.20	4.17	4.25	4.38	4.51	4.41	4.50	4.64	4.79	4.63	4.73	4.87	5.03	4.81	4.92	5.07	5.23	4.97	5.08	5.24	5.41
		Amps	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5
		Hi PR	147	159	167	175	165	178	188	196	188	202	214	223	214	230	243	254	241	259	274	286	266	286	302	315
		Lo PR	57	60	66	70	60	64	70	74	62	66	72	77	66	70	76	81	69	73	80	85	71	76	83	88

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

High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	56.29	57.52	61.45	65.69	54.98	56.18	60.02	64.16	53.67	54.84	58.59	62.64	52.36	53.51	57.17	61.11	49.74	50.83	54.31	58.05	46.08	47.09	50.31	53.78
		S/T	0.90	0.85	0.69	0.51	0.93	0.88	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.75	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59
		ΔT	23	22	19	15	23	22	19	16	23	22	19	16	24	23	20	16	23	22	19	15	21	21	18	14
		kW	4.04	4.12	4.24	4.37	4.33	4.42	4.55	4.69	4.59	4.68	4.83	4.98	4.82	4.92	5.07	5.23	5.01	5.12	5.28	5.45	5.18	5.29	5.46	5.64
		Amps	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.4	3.5	3.5	3.5
		Hi PR	155	167	176	184	174	187	198	206	198	213	225	234	225	242	256	267	253	273	288	300	280	301	318	332
		Lo PR	60	64	69	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	89	75	80	87	92
	1800	MBh	54.7	55.8	59.7	63.8	53.4	54.5	58.3	62.3	52.1	53.2	56.9	60.8	50.8	51.9	**55.5**	59.3	48.3	49.4	52.7	56.4	44.7	45.7	48.8	52.2
		S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.88	**0.72**	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56
		ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	**20**	16	24	23	20	16	23	22	19	15
		kW	4.01	4.09	4.21	4.34	4.30	4.38	4.52	4.66	4.55	4.65	4.79	4.94	4.78	4.88	**5.03**	5.19	4.97	5.08	5.24	5.41	5.14	5.25	5.41	5.59
		Amps	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	**3.4**	3.4	3.4	3.4	3.4	3.5	3.4	3.5	3.5	3.5
		Hi PR	153	165	174	182	172	185	196	204	196	211	222	232	223	240	**253**	264	251	270	285	297	277	298	315	329
		Lo PR	59	63	69	73	63	67	73	77	65	69	75	80	68	73	**79**	84	72	76	83	89	74	79	86	92
	1575	MBh	50.4	51.5	55.1	58.9	49.3	50.3	53.8	57.5	48.1	49.1	52.5	56.1	46.9	47.9	51.2	54.8	44.6	45.6	48.7	52.0	41.3	42.2	45.1	48.2
		S/T	0.83	0.78	0.63	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.89	0.72	0.54	0.95	0.89	0.73	0.54
		ΔT	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	25	24	20	16	23	22	19	15
		kW	3.92	4.00	4.11	4.24	4.20	4.28	4.41	4.55	4.45	4.54	4.68	4.82	4.67	4.76	4.91	5.07	4.85	4.95	5.11	5.27	5.01	5.12	5.28	5.45
		Amps	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.5
		Hi PR	149	160	169	176	167	180	190	198	190	204	216	225	216	233	246	256	243	262	277	288	269	289	306	319
		Lo PR	57	61	67	71	61	65	70	75	63	67	73	78	66	70	77	82	69	74	81	86	72	76	83	89
85	2025	MBh	57.27	58.38	61.15	65.23	55.94	57.02	59.72	63.72	54.61	55.67	58.30	62.20	53.28	54.31	56.88	60.68	50.61	51.59	54.04	57.65	46.88	47.79	50.05	53.40
		S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.94	0.77
		ΔT	25	24	23	20	25	24	23	20	25	24	23	20	24	25	23	20	23	23	23	20	21	22	21	19
		kW	4.07	4.15	4.27	4.40	4.36	4.45	4.59	4.73	4.62	4.72	4.87	5.02	4.85	4.96	5.11	5.28	5.05	5.16	5.32	5.49	5.22	5.33	5.50	5.68
		Amps	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.4	3.5	3.5	3.5
		Hi PR	157	168	178	185	176	189	200	208	200	215	227	237	227	245	258	270	256	275	291	303	283	304	321	335
		Lo PR	60	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86	73	78	85	90	76	80	88	93
	1800	MBh	55.6	56.7	59.4	63.3	54.3	55.4	58.0	61.9	53.0	54.0	56.6	60.4	51.7	52.7	55.2	58.9	49.1	50.1	52.5	56.0	45.5	46.4	48.6	51.8
		S/T	0.90	0.87	0.79	0.64	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.90	0.73
		ΔT	26	25	24	21	26	25	24	21	26	26	24	21	26	26	24	21	25	25	24	21	23	24	22	19
		kW	4.04	4.12	4.24	4.37	4.33	4.42	4.55	4.69	4.59	4.68	4.83	4.98	4.82	4.92	5.07	5.23	5.01	5.12	5.28	5.45	5.18	5.29	5.46	5.64
		Amps	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.4	3.5	3.5	3.5
		Hi PR	155	167	176	184	174	187	198	206	198	213	225	234	225	242	256	267	253	273	288	300	280	301	318	332
		Lo PR	60	64	69	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	89	75	80	87	92
	1575	MBh	51.3	52.3	54.8	58.5	50.1	51.1	53.5	57.1	48.9	49.9	52.2	55.7	47.7	48.7	51.0	54.4	45.4	46.2	48.4	51.7	42.0	42.8	44.9	47.9
		S/T	0.87	0.84	0.76	0.61	0.90	0.87	0.78	0.64	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.96	0.87	0.71
		ΔT	26	26	24	21	26	26	25	21	26	26	25	21	27	26	25	21	26	26	24	21	24	24	23	20
		kW	3.95	4.02	4.14	4.27	4.23	4.32	4.45	4.58	4.48	4.57	4.71	4.86	4.70	4.80	4.95	5.11	4.89	4.99	5.15	5.32	5.05	5.16	5.32	5.50
		Amps	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.5
		Hi PR	150	162	171	178	169	181	192	200	192	206	218	227	218	235	248	259	246	264	279	291	272	292	309	322
		Lo PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	81	87	73	77	84	90

IDB: Entering Indoor Dry Bulb Temperature kW = Total system power Shaded area reflects AHRI (TVA) conditions Amps = outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

EXPANDED COOLING DATA — GSH100903A* / AR090

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	3240	MBh	85.3	88.4	96.8	-	83.3	86.3	94.6	-	81.3	84.3	92.3	-	79.3	82.2	90.1	-	75.3	78.1	85.6	-	69.8	72.3	79.3	-
		S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.47	-	0.83	0.70	0.48	-	0.84	0.70	0.49	-
		ΔT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		kW	6.80	6.93	7.14	-	7.29	7.44	7.67	-	7.73	7.89	8.13	-	8.11	8.28	8.54	-	8.44	8.62	8.89	-	8.72	8.90	9.19	-
		Amps	15.7	16.1	16.6	-	17.0	17.4	18.0	-	18.4	18.9	19.5	-	19.7	20.2	20.9	-	21.0	21.5	22.3	-	22.3	22.8	23.6	-
		Hi PR	153	164	174	-	171	185	195	-	195	210	222	-	222	239	252	-	250	269	284	-	276	297	314	-
		Lo PR	57	61	66	-	60	64	70	-	62	66	73	-	66	70	76	-	69	73	80	-	71	76	83	-
	2880	MBh	82.8	85.8	94.0	-	80.8	83.8	91.8	-	78.9	81.8	89.6	-	77.0	79.8	87.4	-	73.1	75.8	83.1	-	67.8	70.2	76.9	-
		S/T	0.70	0.58	0.40	-	0.72	0.61	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.80	0.66	0.46	-	0.80	0.67	0.46	-
		ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		kW	6.75	6.88	7.09	-	7.23	7.38	7.61	-	7.67	7.82	8.07	-	8.05	8.22	8.47	-	8.37	8.55	8.82	-	8.65	8.83	9.11	-
		Amps	15.5	15.9	16.4	-	16.8	17.2	17.8	-	18.3	18.7	19.4	-	19.5	20.0	20.7	-	20.8	21.3	22.1	-	22.1	22.6	23.4	-
		Hi PR	151	163	172	-	170	183	193	-	193	208	219	-	220	237	250	-	247	266	281	-	273	294	311	-
		Lo PR	56	60	65	-	60	63	69	-	62	66	72	-	65	69	75	-	68	72	79	-	70	75	82	-
	2520	MBh	76.4	79.2	86.8	-	74.6	77.3	84.7	-	72.8	75.5	82.7	-	71.1	73.7	80.7	-	67.5	70.0	76.7	-	62.5	64.8	71.0	-
		S/T	0.67	0.56	0.39	-	0.70	0.58	0.40	-	0.72	0.60	0.41	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.77	0.65	0.45	-
		ΔT	19	16	12	-	19	16	12	-	19	16	13	-	19	17	13	-	19	16	12	-	18	15	12	-
		kW	6.60	6.73	6.92	-	7.07	7.21	7.43	-	7.49	7.64	7.88	-	7.86	8.02	8.27	-	8.17	8.34	8.60	-	8.44	8.62	8.89	-
		Amps	15.1	15.5	16.0	-	16.3	16.7	17.3	-	17.8	18.2	18.8	-	19.0	19.5	20.1	-	20.2	20.7	21.4	-	21.5	22.0	22.7	-
		Hi PR	147	158	167	-	165	177	187	-	187	202	213	-	213	230	242	-	240	258	273	-	265	285	301	-
		Lo PR	55	58	63	-	58	61	67	-	60	64	70	-	63	67	73	-	66	70	77	-	68	73	79	-
75	3240	MBh	86.70	89.26	96.62	103.7	84.68	87.19	94.37	101.29	82.67	85.11	92.13	98.88	80.65	83.04	89.88	96.46	76.62	78.88	85.38	91.64	70.97	73.07	79.09	84.89
		S/T	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.38	0.89	0.79	0.60	0.39	0.91	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.96	0.86	0.65	0.42
		ΔT	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	6.85	6.99	7.19	7.41	7.35	7.50	7.73	7.97	7.79	7.95	8.20	8.45	8.17	8.35	8.61	8.89	8.50	8.69	8.96	9.25	8.79	8.98	9.26	9.57
		Amps	15.8	16.2	16.7	17.4	17.1	17.5	18.1	18.8	18.6	19.1	19.7	20.5	19.9	20.4	21.1	21.9	21.2	21.7	22.5	23.3	22.5	23.1	23.8	24.8
		Hi PR	154	166	175	183	173	186	197	205	197	212	224	233	224	241	255	266	252	272	287	299	279	300	317	331
		Lo PR	57	61	67	71	61	65	71	75	63	67	73	78	66	71	77	82	69	74	81	86	72	76	83	89
	2880	MBh	84.2	86.7	93.8	100.7	82.2	84.6	91.6	98.3	80.3	82.6	89.4	96.0	78.3	**80.6**	87.3	93.7	74.4	76.6	82.9	89.0	68.9	70.9	76.8	82.4
		S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.76	0.57	0.37	0.87	**0.78**	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.82	0.62	0.40
		ΔT	21	20	16	11	22	20	16	11	22	20	16	11	22	**20**	16	11	21	20	16	11	20	18	15	10
		kW	6.80	6.93	7.14	7.36	7.29	7.44	7.67	7.90	7.73	7.89	8.13	8.39	8.11	**8.28**	8.54	8.81	8.44	8.62	8.89	9.18	8.72	8.91	9.19	9.49
		Amps	15.7	16.1	16.6	17.2	17.0	17.4	18.0	18.6	18.4	18.9	19.5	20.3	19.7	**20.2**	20.9	21.7	21.0	21.5	22.3	23.1	22.3	22.8	23.6	24.5
		Hi PR	153	164	174	181	172	185	195	203	195	210	222	231	222	**239**	252	263	250	269	284	296	276	297	314	327
		Lo PR	57	61	66	70	60	64	70	74	62	66	73	77	66	**70**	76	81	69	73	80	85	71	76	83	88
	2520	MBh	77.7	80.0	86.6	92.9	75.9	78.1	84.6	90.8	74.1	76.3	82.6	88.6	72.3	74.41	80.5	86.4	68.7	70.7	76.5	82.1	63.6	65.5	70.9	76.1
		S/T	0.77	0.69	0.52	0.33	0.79	0.71	0.54	0.35	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.88	0.79	0.60	0.38
		ΔT	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11
		kW	6.65	6.78	6.98	7.19	7.12	7.27	7.49	7.72	7.55	7.70	7.94	8.19	7.92	8.08	8.34	8.60	8.24	8.41	8.67	8.95	8.51	8.69	8.97	9.26
		Amps	15.3	15.6	16.1	16.7	16.5	16.9	17.5	18.1	17.9	18.4	19.0	19.7	19.2	19.7	20.3	21.1	20.4	20.9	21.6	22.5	21.7	22.2	22.9	23.8
		Hi PR	148	160	168	176	166	179	189	197	189	204	215	224	215	232	245	255	242	261	275	287	268	288	304	317
		Lo PR	55	59	64	68	58	62	68	72	61	64	70	75	64	68	74	79	67	71	77	83	69	73	80	85

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

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	3240	MBh	88.24	90.17	96.33	102.98	86.19	88.07	94.09	100.58	84.13	85.97	91.85	98.19	82.08	83.87	89.61	95.79	77.98	79.68	85.13	91.00	72.23	73.81	78.86	84.30
		S/T	0.91	0.86	0.70	0.52	0.95	0.89	0.72	0.54	1.00	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.80	0.60
		ΔT	23	22	19	15	23	22	19	15	24	22	19	15	23	22	19	16	22	23	19	15	20	21	18	14
		kW	6.90	7.04	7.25	7.47	7.40	7.56	7.79	8.03	7.85	8.01	8.26	8.52	8.24	8.41	8.68	8.96	8.57	8.76	9.03	9.33	8.86	9.05	9.34	9.65
		Amps	16.0	16.4	16.9	17.5	17.3	17.7	18.3	19.0	18.8	19.3	19.9	20.7	20.1	20.6	21.3	22.1	21.4	21.9	22.7	23.6	22.7	23.3	24.1	25.0
		Hi PR	156	168	177	185	175	188	199	207	199	214	226	236	227	244	258	269	255	274	290	302	282	303	320	334
		Lo PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90
	2880	MBh	85.7	87.5	93.5	100.0	83.7	85.5	91.4	97.7	81.7	83.5	89.2	95.3	79.7	81.4	**87.0**	93.0	75.7	77.4	82.7	88.4	70.1	71.7	76.6	81.8
		S/T	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	**0.73**	0.55	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57
		ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	**20**	16	24	23	20	16	22	21	19	15
		kW	6.85	6.99	7.20	7.41	7.35	7.50	7.73	7.97	7.79	7.95	8.20	8.46	8.18	8.35	**8.61**	8.89	8.51	8.69	8.96	9.25	8.79	8.98	9.27	9.57
		Amps	15.8	16.2	16.7	17.4	17.1	17.5	18.1	18.8	18.6	19.1	19.7	20.5	19.9	20.4	**21.1**	21.9	21.2	21.7	22.5	23.3	22.5	23.1	23.8	24.8
		Hi PR	154	166	175	183	173	186	197	205	197	212	224	234	224	241	**255**	266	252	272	287	299	279	300	317	331
		Lo PR	57	61	67	71	61	65	71	75	63	67	73	78	66	71	**77**	82	69	74	81	86	72	76	83	89
	2520	MBh	79.1	80.8	86.3	92.3	77.2	78.9	84.3	90.1	75.4	77.0	82.3	88.0	73.6	75.2	80.3	85.8	69.9	71.4	76.3	81.5	64.7	66.1	70.7	75.5
		S/T	0.84	0.79	0.64	0.48	0.87	0.82	0.67	0.50	0.89	0.84	0.68	0.51	0.92	0.86	0.70	0.53	0.96	0.90	0.73	0.55	0.97	0.91	0.74	0.55
		ΔT	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	6.70	6.83	7.03	7.24	7.18	7.32	7.55	7.78	7.61	7.76	8.00	8.25	7.98	8.15	8.40	8.67	8.30	8.48	8.74	9.03	8.58	8.76	9.04	9.33
		Amps	15.4	15.8	16.3	16.9	16.7	17.1	17.6	18.3	18.1	18.5	19.2	19.9	19.4	19.8	20.5	21.3	20.6	21.1	21.8	22.7	21.9	22.4	23.2	24.1
		Hi PR	150	161	170	177	168	181	191	199	191	206	217	227	218	234	247	258	245	264	278	290	271	291	307	321
		Lo PR	56	59	65	69	59	63	68	73	61	65	71	76	64	68	75	80	67	72	78	83	70	74	81	86
85	3240	MBh	89.78	91.52	95.85	102.26	87.69	89.39	93.62	99.88	85.60	87.26	91.39	97.50	83.52	85.13	89.16	95.12	79.34	80.88	84.70	90.37	73.49	74.92	78.46	83.71
		S/T	0.96	0.92	0.83	0.68	0.99	0.96	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
		ΔT	24	24	23	20	25	24	23	20	24	24	23	20	24	24	23	20	23	23	23	20	21	21	21	18
		kW	6.95	7.09	7.31	7.53	7.46	7.61	7.85	8.09	7.91	8.07	8.33	8.59	8.31	8.48	8.75	9.03	8.64	8.83	9.11	9.40	8.93	9.12	9.42	9.73
		Amps	16.1	16.5	17.1	17.7	17.4	17.9	18.5	19.2	19.0	19.4	20.1	20.9	20.3	20.8	21.5	22.3	21.6	22.2	22.9	23.8	22.9	23.5	24.3	25.2
		Hi PR	157	169	179	187	177	190	201	209	201	216	228	238	229	246	260	271	258	277	293	305	285	306	323	337
		Lo PR	59	62	68	73	62	66	72	77	64	68	75	80	68	72	79	84	71	75	82	88	73	78	85	91
	2880	MBh	87.2	88.9	93.1	99.3	85.1	86.8	90.9	97.0	83.1	84.7	88.7	94.7	81.1	82.7	86.6	92.4	77.0	78.5	82.2	87.7	71.4	72.7	76.2	81.3
		S/T	0.91	0.88	0.80	0.65	0.95	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.91	0.74
		ΔT	25	25	24	20	26	25	24	21	26	25	24	21	26	26	24	21	25	25	24	21	23	23	22	19
		kW	6.90	7.04	7.25	7.47	7.40	7.56	7.79	8.03	7.85	8.01	8.26	8.52	8.24	8.41	8.68	8.96	8.57	8.76	9.03	9.33	8.86	9.05	9.34	9.65
		Amps	16.0	16.4	16.9	17.5	17.3	17.7	18.3	19.0	18.8	19.3	19.9	20.7	20.1	20.6	21.3	22.1	21.4	21.9	22.7	23.6	22.7	23.3	24.1	25.0
		Hi PR	156	168	177	185	175	188	199	207	199	214	226	236	227	244	258	269	255	274	290	302	282	303	320	334
		Lo PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90
	2520	MBh	80.5	82.0	85.9	91.6	78.6	80.1	83.9	89.5	76.7	78.2	81.9	87.4	74.8	76.3	79.9	85.2	71.1	72.5	75.9	81.0	65.9	67.1	70.3	75.0
		S/T	0.88	0.85	0.77	0.62	0.91	0.88	0.80	0.65	0.94	0.90	0.82	0.66	0.97	0.93	0.84	0.68	1.00	0.97	0.87	0.71	1.00	0.98	0.88	0.71
		ΔT	26	25	24	21	26	26	24	21	26	26	24	21	26	26	25	21	26	26	24	21	24	24	23	20
		kW	6.75	6.88	7.08	7.30	7.23	7.38	7.60	7.84	7.66	7.82	8.06	8.32	8.04	8.21	8.47	8.74	8.37	8.54	8.81	9.10	8.65	8.83	9.11	9.41
		Amps	15.5	15.9	16.4	17.1	16.8	17.2	17.8	18.5	18.3	18.7	19.3	20.1	19.5	20.0	20.7	21.5	20.8	21.3	22.1	22.9	22.1	22.6	23.4	24.3
		Hi PR	151	163	172	179	170	183	193	201	193	208	219	229	220	237	250	261	247	266	281	293	273	294	311	324
		Lo PR	56	60	65	70	59	63	69	74	62	66	72	76	65	69	75	80	68	72	79	84	70	75	82	87

Shaded area is AHRI 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. Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

EXPANDED COOLING DATA — GSH100904A* / AR090

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	3240	MBh	85.3	88.4	96.8	-	83.3	86.3	94.6	-	81.3	84.3	92.3	-	79.3	82.2	90.1	-	75.3	78.1	85.6	-	69.8	72.3	79.3	-
		S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.47	-	0.83	0.70	0.48	-	0.84	0.70	0.49	-
		ΔT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		kW	6.86	7.00	7.20	-	7.35	7.50	7.72	-	7.78	7.94	8.18	-	8.16	8.32	8.58	-	8.48	8.66	8.92	-	8.76	8.94	9.22	-
		Amps	7.7	7.9	8.2	-	8.4	8.6	8.9	-	9.1	9.3	9.6	-	9.7	10.0	10.3	-	10.4	10.6	11.0	-	11.0	11.3	11.6	-
		Hi PR	150	161	170	-	168	181	191	-	191	206	217	-	218	234	247	-	245	264	278	-	271	291	308	-
		Lo PR	57	61	66	-	60	64	70	-	62	66	73	-	66	70	76	-	69	73	80	-	71	76	83	-
	2880	MBh	82.8	85.8	94.0	-	80.8	83.8	91.8	-	78.9	81.8	89.6	-	77.0	79.8	87.4	-	73.1	75.8	83.1	-	67.8	70.2	76.9	-
		S/T	0.70	0.58	0.40	-	0.72	0.61	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.80	0.66	0.46	-	0.80	0.67	0.46	-
		ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		kW	6.81	6.95	7.15	-	7.29	7.44	7.66	-	7.72	7.88	8.11	-	8.09	8.26	8.51	-	8.41	8.59	8.85	-	8.69	8.87	9.15	-
		Amps	7.7	7.8	8.1	-	8.3	8.5	8.8	-	9.0	9.2	9.5	-	9.6	9.9	10.2	-	10.3	10.5	10.9	-	10.9	11.1	11.5	-
		Hi PR	148	160	169	-	166	179	189	-	189	204	215	-	216	232	245	-	243	261	276	-	268	288	305	-
		Lo PR	56	60	65	-	60	63	69	-	62	66	72	-	65	69	75	-	68	72	79	-	70	75	82	-
	2520	MBh	76.4	79.2	86.8	-	74.6	77.3	84.7	-	72.8	75.5	82.7	-	71.1	73.7	80.7	-	67.5	70.0	76.7	-	62.5	64.8	71.0	-
		S/T	0.67	0.56	0.39	-	0.70	0.58	0.40	-	0.72	0.60	0.41	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.77	0.65	0.45	-
		ΔT	19	16	12	-	19	16	12	-	19	16	13	-	19	17	13	-	19	16	12	-	18	15	12	-
		kW	6.67	6.79	6.99	-	7.13	7.27	7.49	-	7.54	7.70	7.93	-	7.91	8.07	8.31	-	8.22	8.39	8.64	-	8.48	8.66	8.93	-
		Amps	7.5	7.6	7.9	-	8.1	8.3	8.5	-	8.8	9.0	9.3	-	9.4	9.6	9.9	-	10.0	10.2	10.6	-	10.6	10.8	11.2	-
		Hi PR	144	155	164	-	161	174	183	-	184	198	209	-	209	225	238	-	235	253	267	-	260	280	295	-
		Lo PR	55	58	63	-	58	61	67	-	60	64	70	-	63	67	73	-	66	70	77	-	68	73	79	-
75	3240	MBh	86.70	89.26	96.62	103.7	84.68	87.19	94.37	101.29	82.67	85.11	92.13	98.88	80.65	83.04	89.88	96.46	76.62	78.88	85.38	91.64	70.97	73.07	79.09	84.89
		S/T	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.38	0.89	0.79	0.60	0.39	0.91	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.96	0.86	0.65	0.42
		ΔT	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	6.91	7.05	7.26	7.47	7.41	7.55	7.78	8.02	7.84	8.00	8.24	8.50	8.22	8.39	8.65	8.92	8.55	8.72	9.00	9.28	8.83	9.01	9.30	9.59
		Amps	7.8	8.0	8.3	8.6	8.4	8.6	8.9	9.3	9.2	9.4	9.7	10.1	9.8	10.1	10.4	10.8	10.5	10.7	11.1	11.5	11.1	11.4	11.7	12.2
		Hi PR	151	163	172	179	170	183	193	201	193	208	219	229	220	237	250	261	247	266	281	293	273	294	311	324
		Lo PR	57	61	67	71	61	65	71	75	63	67	73	78	66	71	77	82	69	74	81	86	72	76	83	89
	2880	MBh	84.2	86.7	93.8	100.7	82.2	84.6	91.6	98.3	80.3	82.6	89.4	96.0	78.3	**80.6**	87.3	93.7	74.4	76.6	82.9	89.0	68.9	70.9	76.8	82.4
		S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.76	0.57	0.37	0.87	**0.78**	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.82	0.62	0.40
		ΔT	21	20	16	11	22	20	16	11	22	20	16	11	22	**20**	16	11	21	20	16	11	20	18	15	10
		kW	6.86	7.00	7.20	7.42	7.35	7.50	7.72	7.96	7.78	7.94	8.18	8.43	8.16	**8.33**	8.58	8.85	8.48	8.66	8.93	9.21	8.76	8.94	9.22	9.52
		Amps	7.7	7.9	8.2	8.5	8.4	8.6	8.9	9.2	9.1	9.3	9.6	10.0	9.7	**10.0**	10.3	10.7	10.4	10.6	11.0	11.4	11.0	11.3	11.6	12.1
		Hi PR	150	161	170	178	168	181	191	199	191	206	217	227	218	**234**	248	258	245	264	278	290	271	291	308	321
		Lo PR	57	61	66	70	60	64	70	74	62	66	73	77	66	**70**	76	81	69	73	80	85	71	76	83	88
	2520	MBh	77.7	80.0	86.6	92.9	75.9	78.1	84.6	90.8	74.1	76.3	82.6	88.6	72.3	74.41	80.5	86.4	68.7	70.7	76.5	82.1	63.6	65.5	70.9	76.1
		S/T	0.77	0.69	0.52	0.33	0.79	0.71	0.54	0.35	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.88	0.79	0.60	0.38
		ΔT	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11
		kW	6.71	6.84	7.04	7.25	7.19	7.33	7.54	7.77	7.60	7.75	7.99	8.23	7.97	8.13	8.38	8.64	8.28	8.45	8.71	8.99	8.55	8.73	9.00	9.29
		Amps	7.5	7.7	8.0	8.3	8.1	8.3	8.6	8.9	8.8	9.1	9.4	9.7	9.5	9.7	10.0	10.4	10.1	10.3	10.7	11.1	10.7	10.9	11.3	11.7
		Hi PR	145	156	165	172	163	176	185	193	185	200	211	220	211	227	240	250	238	256	270	282	263	283	298	311
		Lo PR	55	59	64	68	58	62	68	72	61	64	70	75	64	68	74	79	67	71	77	83	69	73	80	85

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

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	3240	MBh	88.24	90.17	96.33	102.98	86.19	88.07	94.09	100.58	84.13	85.97	91.85	98.19	82.08	83.87	89.61	95.79	77.98	79.68	85.13	91.00	72.23	73.81	78.86	84.30
		S/T	0.91	0.86	0.70	0.52	0.95	0.89	0.72	0.54	1.00	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.80	0.60
		ΔT	23	22	19	15	23	22	19	15	24	22	19	15	23	22	19	16	22	23	19	15	20	21	18	14
		kW	6.97	7.10	7.31	7.53	7.46	7.61	7.84	8.08	7.90	8.06	8.31	8.56	8.29	8.46	8.72	8.99	8.61	8.79	9.07	9.36	8.90	9.08	9.37	9.67
		Amps	7.9	8.1	8.3	8.6	8.5	8.7	9.0	9.4	9.3	9.5	9.8	10.2	9.9	10.2	10.5	10.9	10.6	10.8	11.2	11.6	11.2	11.5	11.9	12.3
		Hi PR	153	165	174	181	172	185	195	203	195	210	222	231	222	239	253	263	250	269	284	296	276	297	314	327
		Lo PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90
	2880	MBh	85.7	87.5	93.5	100.0	83.7	85.5	91.4	97.7	81.7	83.5	89.2	95.3	79.7	81.4	**87.0**	93.0	75.7	77.4	82.7	88.4	70.1	71.7	76.6	81.8
		S/T	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	**0.73**	0.55	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57
		ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	**20**	16	24	23	20	16	22	21	19	15
		kW	6.92	7.05	7.26	7.47	7.41	7.55	7.78	8.02	7.84	8.00	8.24	8.50	8.22	8.39	**8.65**	8.92	8.55	8.73	9.00	9.28	8.83	9.01	9.30	9.59
		Amps	7.8	8.0	8.3	8.6	8.4	8.6	8.9	9.3	9.2	9.4	9.7	10.1	9.8	10.1	**10.4**	10.8	10.5	10.7	11.1	11.5	11.1	11.4	11.7	12.2
		Hi PR	151	163	172	179	170	183	193	201	193	208	220	229	220	237	**250**	261	248	266	281	293	273	294	311	324
		Lo PR	57	61	67	71	61	65	71	75	63	67	73	78	66	71	**77**	82	69	74	81	86	72	76	83	89
	2520	MBh	79.1	80.8	86.3	92.3	77.2	78.9	84.3	90.1	75.4	77.0	82.3	88.0	73.6	75.2	80.3	85.8	69.9	71.4	76.3	81.5	64.7	66.1	70.7	75.5
		S/T	0.84	0.79	0.64	0.48	0.87	0.82	0.67	0.50	0.89	0.84	0.68	0.51	0.92	0.86	0.70	0.53	0.96	0.90	0.73	0.55	0.97	0.91	0.74	0.55
		ΔT	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	6.76	6.89	7.09	7.30	7.24	7.38	7.60	7.83	7.66	7.81	8.05	8.30	8.03	8.20	8.45	8.71	8.35	8.52	8.78	9.06	8.62	8.80	9.07	9.36
		Amps	7.6	7.8	8.0	8.3	8.2	8.4	8.7	9.0	8.9	9.1	9.5	9.8	9.5	9.8	10.1	10.5	10.2	10.4	10.8	11.2	10.8	11.0	11.4	11.9
		Hi PR	147	158	167	174	165	177	187	195	187	202	213	222	213	230	243	253	240	258	273	285	265	285	301	314
		Lo PR	56	59	65	69	59	63	68	73	61	65	71	76	64	68	75	80	67	72	78	83	70	74	81	86
85	3240	MBh	89.78	91.52	95.85	102.26	87.69	89.39	93.62	99.88	85.60	87.26	91.39	97.50	83.52	85.13	89.16	95.12	79.34	80.88	84.70	90.37	73.49	74.92	78.46	83.71
		S/T	0.96	0.92	0.83	0.68	0.99	0.96	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
		ΔT	24	24	23	20	25	24	23	20	24	24	23	20	24	24	23	20	23	23	23	20	21	21	21	18
		kW	7.02	7.16	7.36	7.59	7.52	7.67	7.90	8.14	7.96	8.12	8.37	8.63	8.35	8.52	8.79	9.06	8.68	8.86	9.14	9.43	8.97	9.16	9.45	9.75
		Amps	7.9	8.1	8.4	8.7	8.6	8.8	9.1	9.4	9.4	9.6	9.9	10.3	10.0	10.2	10.6	11.0	10.7	10.9	11.3	11.7	11.3	11.6	12.0	12.4
		Hi PR	154	166	175	183	173	186	197	205	197	212	224	234	224	242	255	266	252	272	287	299	279	300	317	331
		Lo PR	59	62	68	73	62	66	72	77	64	68	75	80	68	72	79	84	71	75	82	88	73	78	85	91
	2880	MBh	87.2	88.9	93.1	99.3	85.1	86.8	90.9	97.0	83.1	84.7	88.7	94.7	81.1	82.7	86.6	92.4	77.0	78.5	82.2	87.7	71.4	72.7	76.2	81.3
		S/T	0.91	0.88	0.80	0.65	0.95	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.91	0.74
		ΔT	25	25	24	20	26	25	24	21	26	25	24	21	26	26	24	21	25	25	24	21	23	23	22	19
		kW	6.97	7.10	7.31	7.53	7.46	7.61	7.84	8.08	7.90	8.06	8.31	8.56	8.29	8.46	8.72	8.99	8.61	8.79	9.07	9.36	8.90	9.08	9.37	9.67
		Amps	7.9	8.1	8.3	8.6	8.5	8.7	9.0	9.4	9.3	9.5	9.8	10.2	9.9	10.2	10.5	10.9	10.6	10.8	11.2	11.6	11.2	11.5	11.9	12.3
		Hi PR	153	165	174	181	172	185	195	203	195	210	222	231	222	239	253	263	250	269	284	296	276	297	314	327
		Lo PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90
	2520	MBh	80.5	82.0	85.9	91.6	78.6	80.1	83.9	89.5	76.7	78.2	81.9	87.4	74.8	76.3	79.9	85.2	71.1	72.5	75.9	81.0	65.9	67.1	70.3	75.0
		S/T	0.88	0.85	0.77	0.62	0.91	0.88	0.80	0.65	0.94	0.90	0.82	0.66	0.97	0.93	0.84	0.68	1.00	0.97	0.87	0.71	1.00	0.98	0.88	0.71
		ΔT	26	25	24	21	26	26	24	21	26	26	24	21	26	26	25	21	26	26	24	21	24	24	23	20
		kW	6.81	6.95	7.15	7.36	7.29	7.44	7.66	7.89	7.72	7.87	8.11	8.36	8.09	8.26	8.51	8.78	8.41	8.59	8.85	9.13	8.69	8.87	9.14	9.44
		Amps	7.7	7.8	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.9	9.6	9.9	10.2	10.6	10.3	10.5	10.9	11.3	10.9	11.1	11.5	12.0
		Hi PR	148	160	169	176	166	179	189	197	189	204	215	224	216	232	245	255	242	261	276	287	268	288	304	318
		Lo PR	56	60	65	70	59	63	69	74	62	66	72	76	65	69	75	80	68	72	79	84	70	75	82	87

Shaded area is AHRI 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. Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

EXPANDED COOLING DATA — GSH101203A* / AR120

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	4500	MBh	106.8	110.7	121.3	-	104.3	108.1	118.5	-	101.8	105.6	115.7	-	99.4	103.0	112.8	-	94.4	97.8	107.2	-	87.4	90.6	99.3	-
		S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-
		ΔT	16	14	10	-	16	14	10	-	16	14	11	-	16	14	11	-	16	14	10	-	15	13	10	-
		kW	8.51	8.69	8.95	-	9.14	9.32	9.61	-	9.68	9.89	10.19	-	10.17	10.38	10.71	-	10.58	10.81	11.15	-	10.94	11.17	11.53	-
		Amps	18.4	18.8	19.5	-	19.9	20.4	21.1	-	21.7	22.3	23.0	-	23.3	23.8	24.7	-	24.8	25.4	26.3	-	26.3	27.0	27.9	-
		Hi PR	138	148	157	-	155	166	176	-	176	189	200	-	200	216	228	-	225	243	256	-	249	268	283	-
		Lo PR	61	64	70	-	64	68	74	-	67	71	77	-	70	74	81	-	73	78	85	-	76	81	88	-
	4000	MBh	103.7	107.5	117.8	-	101.3	105.0	115.0	-	98.9	102.5	112.3	-	96.5	100.0	109.5	-	91.6	95.0	104.1	-	84.9	88.0	96.4	-
		S/T	0.69	0.58	0.40	-	0.71	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.79	0.66	0.46	-
		ΔT	16	14	11	-	17	14	11	-	17	14	11	-	17	15	11	-	17	14	11	-	15	13	10	-
		kW	8.45	8.62	8.88	-	9.07	9.25	9.53	-	9.61	9.81	10.11	-	10.09	10.30	10.63	-	10.50	10.72	11.06	-	10.85	11.08	11.44	-
		Amps	18.2	18.7	19.3	-	19.7	20.2	20.9	-	21.5	22.0	22.8	-	23.0	23.6	24.4	-	24.6	25.2	26.1	-	26.1	26.7	27.7	-
		Hi PR	136	147	155	-	153	165	174	-	174	187	198	-	198	213	225	-	223	240	254	-	247	265	280	-
		Lo PR	60	64	70	-	63	67	74	-	66	70	77	-	69	74	80	-	73	77	84	-	75	80	87	-
	3500	MBh	95.7	99.2	108.7	-	93.5	96.9	106.2	-	91.3	94.6	103.6	-	89.0	92.3	101.1	-	84.6	87.7	96.1	-	78.4	81.2	89.0	-
		S/T	0.67	0.56	0.38	-	0.69	0.58	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.76	0.64	0.44	-
		ΔT	17	14	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-
		kW	8.26	8.42	8.67	-	8.86	9.04	9.31	-	9.38	9.58	9.87	-	9.85	10.06	10.37	-	10.24	10.46	10.79	-	10.59	10.81	11.16	-
		Amps	17.7	18.1	18.8	-	19.2	19.7	20.3	-	20.9	21.4	22.2	-	22.4	22.9	23.7	-	23.9	24.5	25.3	-	25.3	26.0	26.9	-
		Hi PR	132	142	150	-	149	160	169	-	169	182	192	-	192	207	219	-	216	233	246	-	239	257	272	-
		Lo PR	58	62	68	-	61	65	71	-	64	68	74	-	67	71	78	-	70	75	82	-	73	77	84	-

75	4500	MBh	108.62	111.84	121.05	129.92	106.10	109.24	118.24	126.90	103.57	106.63	115.42	123.88	101.04	104.03	112.61	120.86	95.99	98.83	106.98	114.81	88.92	91.55	99.09	106.35
		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
		ΔT	18	17	14	10	18	17	14	10	18	17	14	10	19	17	14	10	18	17	14	10	17	16	13	9
		kW	8.58	8.75	9.02	9.29	9.21	9.40	9.69	9.99	9.76	9.97	10.28	10.60	10.25	10.47	10.80	11.15	10.67	10.90	11.24	11.61	11.03	11.26	11.63	12.01
		Amps	18.6	19.0	19.7	20.4	20.1	20.6	21.3	22.1	21.9	22.5	23.2	24.1	23.5	24.1	24.9	25.9	25.0	25.7	26.6	27.6	26.6	27.2	28.2	29.3
		Hi PR	139	150	158	165	156	168	178	185	178	191	202	211	202	218	230	240	228	245	259	270	252	271	286	298
		Lo PR	61	65	71	76	65	69	75	80	67	71	78	83	71	75	82	87	74	79	86	92	77	81	89	95
	4000	MBh	105.5	108.6	117.5	126.1	103.0	106.1	114.8	123.2	100.6	103.5	112.1	120.3	98.1	**101.0**	109.3	117.3	93.2	96.0	103.9	111.5	86.3	88.9	96.2	103.3
		S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	**0.77**	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39
		ΔT	19	18	14	10	19	18	15	10	19	18	15	10	19	**18**	15	10	19	18	14	10	18	16	13	9
		kW	8.52	8.69	8.95	9.22	9.14	9.33	9.61	9.91	9.69	9.89	10.20	10.52	10.17	**10.39**	10.71	11.06	10.58	10.81	11.15	11.51	10.94	11.17	11.53	11.91
		Amps	18.4	18.8	19.5	20.2	19.9	20.4	21.1	21.9	21.7	22.3	23.0	23.9	23.3	**23.8**	24.7	25.6	24.8	25.4	26.3	27.3	26.3	27.0	27.9	29.0
		Hi PR	138	148	157	163	155	166	176	183	176	189	200	209	200	**216**	228	237	225	243	256	267	249	268	283	295
		Lo PR	61	64	70	75	64	68	74	79	67	71	77	82	70	**74**	81	86	73	78	85	91	76	81	88	94
	3500	MBh	97.3	100.2	108.5	116.4	95.1	97.9	106.0	113.7	92.8	95.6	103.4	111.0	90.5	93.23	100.9	108.3	86.0	88.6	95.9	102.9	79.7	82.0	88.8	95.3
		S/T	0.76	0.68	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.87	0.78	0.59	0.38
		ΔT	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	19	18	15	10	18	17	14	9
		kW	8.32	8.49	8.74	9.01	8.93	9.11	9.39	9.68	9.46	9.65	9.95	10.27	9.93	10.14	10.45	10.79	10.33	10.55	10.88	11.23	10.67	10.90	11.25	11.61
		Amps	17.9	18.3	18.9	19.7	19.4	19.8	20.5	21.3	21.1	21.6	22.4	23.2	22.6	23.2	24.0	24.9	24.1	24.7	25.6	26.6	25.6	26.2	27.1	28.2
		Hi PR	134	144	152	158	150	161	171	178	171	184	194	202	194	209	221	230	219	235	248	259	242	260	275	286
		Lo PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	73	78	85	91

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

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	4500	MBh	110.55	112.97	120.69	129.02	107.98	110.34	117.88	126.02	105.41	107.71	115.08	123.02	102.84	105.08	112.27	120.02	97.70	99.83	106.66	114.02	90.50	92.47	98.80	105.61
		S/T	0.90	0.85	0.69	0.51	0.93	0.88	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.75	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59
		ΔT	20	20	17	14	21	20	17	14	21	20	17	14	21	20	17	14	20	20	17	14	18	18	16	13
		kW	8.65	8.82	9.09	9.37	9.28	9.47	9.76	10.07	9.84	10.05	10.36	10.69	10.33	10.55	10.89	11.24	10.75	10.98	11.34	11.70	11.12	11.36	11.72	12.11
		Amps	18.7	19.2	19.8	20.6	20.3	20.8	21.5	22.4	22.1	22.7	23.5	24.4	23.7	24.3	25.1	26.1	25.3	25.9	26.8	27.9	26.8	27.5	28.5	29.6
		Hi PR	141	151	160	167	158	170	179	187	179	193	204	213	204	220	232	242	230	247	261	273	254	273	289	301
		Lo PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	80	87	92	77	82	90	96
	4000	MBh	107.3	109.7	117.2	125.3	104.8	107.1	114.5	122.3	102.3	104.6	111.7	119.4	99.8	102.0	**109.0**	116.5	94.9	96.9	103.6	110.7	87.9	89.8	95.9	102.5
		S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.88	**0.72**	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56
		ΔT	21	20	18	14	21	21	18	14	21	21	18	14	22	21	**18**	14	21	20	18	14	20	19	17	13
		kW	8.58	8.75	9.02	9.29	9.21	9.40	9.69	9.99	9.76	9.97	10.28	10.61	10.25	10.47	**10.80**	11.15	10.67	10.90	11.24	11.61	11.03	11.26	11.63	12.01
		Amps	18.6	19.0	19.7	20.4	20.1	20.6	21.3	22.1	21.9	22.5	23.2	24.1	23.5	24.1	**24.9**	25.9	25.0	25.7	26.6	27.6	26.6	27.2	28.2	29.3
		Hi PR	139	150	158	165	156	168	178	185	178	191	202	211	202	218	**230**	240	228	245	259	270	252	271	286	298
		Lo PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	**82**	87	74	79	86	92	77	81	89	95
	3500	MBh	99.1	101.2	108.2	115.6	96.8	98.9	105.6	112.9	94.5	96.5	103.1	110.2	92.2	94.2	100.6	107.5	87.5	89.5	95.6	102.2	81.1	82.9	88.5	94.6
		S/T	0.83	0.78	0.63	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.89	0.72	0.54	0.95	0.89	0.73	0.54
		ΔT	22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	22	21	18	14	20	19	17	14
		kW	8.39	8.55	8.81	9.08	9.00	9.18	9.46	9.75	9.53	9.73	10.03	10.35	10.01	10.22	10.54	10.88	10.41	10.63	10.97	11.32	10.76	10.99	11.34	11.71
		Amps	18.0	18.5	19.1	19.8	19.5	20.0	20.7	21.5	21.3	21.8	22.6	23.5	22.8	23.4	24.2	25.1	24.3	24.9	25.8	26.8	25.8	26.5	27.4	28.5
		Hi PR	135	145	153	160	152	163	172	180	172	186	196	204	196	211	223	233	221	238	251	262	244	263	277	289
		Lo PR	59	63	69	73	63	67	73	78	65	69	76	81	68	73	80	85	72	76	83	89	74	79	86	92
85	4500	MBh	112.48	114.66	120.09	128.11	109.87	111.99	117.29	125.14	107.25	109.33	114.50	122.16	104.64	106.66	111.71	119.18	99.40	101.33	106.12	113.22	92.08	93.86	98.30	104.88
		S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.94	0.77
		ΔT	22	21	20	17	22	22	20	18	22	22	20	18	21	22	21	18	20	21	20	18	19	19	19	16
		kW	8.71	8.89	9.16	9.44	9.35	9.54	9.84	10.15	9.92	10.13	10.44	10.78	10.42	10.64	10.97	11.33	10.84	11.07	11.43	11.80	11.21	11.45	11.82	12.21
		Amps	18.9	19.4	20.0	20.8	20.5	21.0	21.7	22.6	22.3	22.9	23.7	24.6	23.9	24.5	25.4	26.4	25.5	26.2	27.1	28.1	27.1	27.8	28.7	29.9
		Hi PR	142	153	161	168	159	172	181	189	181	195	206	215	206	222	235	245	232	250	264	275	257	276	292	304
		Lo PR	62	66	73	77	66	70	77	82	69	73	80	85	72	77	84	89	75	80	88	93	78	83	91	97
	4000	MBh	109.2	111.3	116.6	124.4	106.7	108.7	113.9	121.5	104.1	106.1	111.2	118.6	101.6	103.6	108.5	115.7	96.5	98.4	103.0	109.9	89.4	91.1	95.4	101.8
		S/T	0.90	0.87	0.79	0.64	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.90	0.73
		ΔT	23	22	21	18	23	23	21	18	23	23	21	18	23	23	21	19	22	22	21	18	21	21	20	17
		kW	8.65	8.82	9.09	9.37	9.28	9.47	9.76	10.07	9.84	10.05	10.36	10.69	10.33	10.55	10.89	11.24	10.75	10.98	11.34	11.70	11.12	11.36	11.72	12.11
		Amps	18.7	19.2	19.8	20.6	20.3	20.8	21.5	22.4	22.1	22.7	23.5	24.4	23.7	24.3	25.1	26.1	25.3	25.9	26.8	27.9	26.8	27.5	28.5	29.6
		Hi PR	141	151	160	167	158	170	179	187	179	193	204	213	204	220	232	242	230	247	261	273	254	273	289	301
		Lo PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	80	87	92	77	82	90	96
	3500	MBh	100.8	102.7	107.6	114.8	98.5	100.4	105.1	112.1	96.1	98.0	102.6	109.5	93.8	95.6	100.1	106.8	89.1	90.8	95.1	101.5	82.5	84.1	88.1	94.0
		S/T	0.87	0.84	0.76	0.61	0.90	0.87	0.78	0.64	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.96	0.87	0.71
		ΔT	23	23	21	19	23	23	22	19	23	23	22	19	23	23	22	19	23	23	22	19	22	21	20	17
		kW	8.45	8.62	8.88	9.15	9.06	9.25	9.53	9.83	9.61	9.81	10.11	10.43	10.09	10.30	10.62	10.96	10.49	10.72	11.06	11.42	10.85	11.08	11.43	11.81
		Amps	18.2	18.7	19.3	20.0	19.7	20.2	20.9	21.7	21.5	22.0	22.8	23.7	23.0	23.6	24.4	25.4	24.6	25.2	26.0	27.1	26.1	26.7	27.6	28.7
		Hi PR	136	147	155	162	153	165	174	181	174	187	198	206	198	213	225	235	223	240	253	264	246	265	280	292
		Lo PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93

Shaded area is AHRI 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. Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

EXPANDED COOLING DATA — GSH101204A* / AR120

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	4500	MBh	106.8	110.7	121.3	-	104.3	108.1	118.5	-	101.8	105.6	115.7	-	99.4	103.0	112.8	-	94.4	97.8	107.2	-	87.4	90.6	99.3	-
		S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-
		ΔT	16	14	10	-	16	14	10	-	16	14	11	-	16	14	11	-	16	14	10	-	15	13	10	-
		kW	8.48	8.65	8.91	-	9.10	9.28	9.57	-	9.64	9.84	10.15	-	10.12	10.34	10.66	-	10.53	10.76	11.10	-	10.88	11.12	11.48	-
		Amps	8.8	9.0	9.3	-	9.5	9.8	10.1	-	10.4	10.6	11.0	-	11.1	11.4	11.8	-	11.9	12.1	12.6	-	12.6	12.9	13.3	-
		Hi PR	138	148	157	-	155	166	176	-	176	189	200	-	200	216	228	-	225	243	256	-	249	268	283	-
		Lo PR	61	64	70	-	64	68	74	-	67	71	77	-	70	74	81	-	73	78	85	-	76	81	88	-
	4000	MBh	103.7	107.5	117.8	-	101.3	105.0	115.0	-	98.9	102.5	112.3	-	96.5	100.0	109.5	-	91.6	95.0	104.1	-	84.9	88.0	96.4	-
		S/T	0.69	0.58	0.40	-	0.71	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.79	0.66	0.46	-
		ΔT	16	14	11	-	17	14	11	-	17	14	11	-	17	15	11	-	17	14	11	-	15	13	10	-
		kW	8.41	8.58	8.84	-	9.03	9.21	9.49	-	9.57	9.77	10.07	-	10.04	10.25	10.58	-	10.45	10.67	11.01	-	10.80	11.03	11.38	-
		Amps	8.7	9.0	9.3	-	9.5	9.7	10.0	-	10.3	10.6	10.9	-	11.0	11.3	11.7	-	11.7	12.0	12.4	-	12.5	12.8	13.2	-
		Hi PR	136	147	155	-	153	165	174	-	174	187	198	-	198	213	225	-	223	240	254	-	247	265	280	-
		Lo PR	60	64	70	-	63	67	74	-	66	70	77	-	69	74	80	-	73	77	84	-	75	80	87	-
	3500	MBh	95.7	99.2	108.7	-	93.5	96.9	106.2	-	91.3	94.6	103.6	-	89.0	92.3	101.1	-	84.6	87.7	96.1	-	78.4	81.2	89.0	-
		S/T	0.67	0.56	0.38	-	0.69	0.58	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.76	0.64	0.44	-
		ΔT	17	14	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-
		kW	8.23	8.39	8.64	-	8.82	9.00	9.27	-	9.34	9.54	9.83	-	9.80	10.01	10.32	-	10.20	10.41	10.74	-	10.54	10.76	11.10	-
		Amps	8.5	8.7	9.0	-	9.2	9.4	9.7	-	10.0	10.3	10.6	-	10.7	11.0	11.3	-	11.4	11.7	12.1	-	12.1	12.4	12.8	-
		Hi PR	132	142	150	-	149	160	169	-	169	182	192	-	192	207	219	-	216	233	246	-	239	257	272	-
		Lo PR	58	62	68	-	61	65	71	-	64	68	74	-	67	71	78	-	70	75	82	-	73	77	84	-

75	4500	MBh	108.62	111.84	121.05	129.92	106.10	109.24	118.24	126.90	103.57	106.63	115.42	123.88	101.04	104.03	112.61	120.86	95.99	98.83	106.98	114.81	88.92	91.55	99.09	106.35
		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
		ΔT	18	17	14	10	18	17	14	10	18	17	14	10	19	17	14	10	18	17	14	10	17	16	13	9
		kW	8.54	8.71	8.98	9.25	9.17	9.36	9.64	9.94	9.72	9.92	10.23	10.56	10.20	10.42	10.75	11.10	10.62	10.84	11.19	11.55	10.97	11.21	11.57	11.95
		Amps	8.9	9.1	9.4	9.8	9.6	9.9	10.2	10.6	10.5	10.8	11.1	11.5	11.2	11.5	11.9	12.4	12.0	12.3	12.7	13.2	12.7	13.0	13.5	14.0
		Hi PR	139	150	158	165	156	168	178	185	178	191	202	211	202	218	230	240	228	245	259	270	252	271	286	298
		Lo PR	61	65	71	76	65	69	75	80	67	71	78	83	71	75	82	87	74	79	86	92	77	81	89	95
	4000	MBh	105.5	108.6	117.5	126.1	103.0	106.1	114.8	123.2	100.6	103.5	112.1	120.3	98.1	**101.0**	109.3	117.3	93.2	96.0	103.9	111.5	86.3	88.9	96.2	103.3
		S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	**0.77**	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39
		ΔT	19	18	14	10	19	18	15	10	19	18	15	10	19	**18**	15	10	19	18	14	10	18	16	13	9
		kW	8.48	8.65	8.91	9.18	9.10	9.28	9.57	9.87	9.64	9.84	10.15	10.47	10.12	**10.34**	10.66	11.01	10.53	10.76	11.10	11.46	10.89	11.12	11.48	11.85
		Amps	8.8	9.0	9.3	9.7	9.5	9.8	10.1	10.5	10.4	10.7	11.0	11.4	11.1	**11.4**	11.8	12.2	11.9	12.1	12.6	13.1	12.6	12.9	13.3	13.8
		Hi PR	138	148	157	163	155	166	176	183	176	189	200	209	200	**216**	228	237	225	243	256	267	249	268	283	295
		Lo PR	61	64	70	75	64	68	74	79	67	71	77	82	70	**74**	81	86	73	78	85	91	76	81	88	94
	3500	MBh	97.3	100.2	108.5	116.4	95.1	97.9	106.0	113.7	92.8	95.6	103.4	111.0	90.5	93.23	100.9	108.3	86.0	88.6	95.9	102.9	79.7	82.0	88.8	95.3
		S/T	0.76	0.68	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.87	0.78	0.59	0.38
		ΔT	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	19	18	15	10	18	17	14	9
		kW	8.29	8.45	8.70	8.97	8.89	9.07	9.34	9.63	9.42	9.61	9.91	10.22	9.88	10.09	10.41	10.74	10.28	10.50	10.83	11.18	10.62	10.85	11.20	11.56
		Amps	8.6	8.8	9.1	9.4	9.3	9.5	9.8	10.2	10.1	10.4	10.7	11.1	10.8	11.1	11.5	11.9	11.5	11.8	12.2	12.7	12.2	12.5	13.0	13.5
		Hi PR	134	144	152	158	150	161	171	178	171	184	194	202	194	209	221	230	219	235	248	259	242	260	275	286
		Lo PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	73	78	85	91

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

			Outdoor Ambient Temperature																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			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	4500	MBh	110.55	112.97	120.69	129.02	107.98	110.34	117.88	126.02	105.41	107.71	115.08	123.02	102.84	105.08	112.27	120.02	97.70	99.83	106.66	114.02	90.50	92.47	98.80	105.61
		S/T	0.90	0.85	0.69	0.51	0.93	0.88	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.75	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59
		ΔT	20	20	17	14	21	20	17	14	21	20	17	14	21	20	17	14	20	20	17	14	18	18	16	13
		kW	8.61	8.78	9.05	9.32	9.24	9.43	9.72	10.02	9.79	10.00	10.31	10.64	10.29	10.50	10.84	11.19	10.70	10.93	11.28	11.65	11.06	11.30	11.67	12.05
		Amps	9.0	9.2	9.5	9.9	9.7	10.0	10.3	10.7	10.6	10.9	11.2	11.7	11.3	11.6	12.0	12.5	12.1	12.4	12.8	13.3	12.8	13.1	13.6	14.1
		Hi PR	141	151	160	167	158	170	179	187	179	193	204	213	204	220	232	242	230	247	261	273	254	273	289	301
		Lo PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	80	87	92	77	82	90	96
	4000	MBh	107.3	109.7	117.2	125.3	104.8	107.1	114.5	122.3	102.3	104.6	111.7	119.4	99.8	102.0	**109.0**	116.5	94.9	96.9	103.6	110.7	87.9	89.8	95.9	102.5
		S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.88	**0.72**	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56
		ΔT	21	20	18	14	21	21	18	14	21	21	18	14	22	21	**18**	14	21	20	18	14	20	19	17	13
		kW	8.54	8.72	8.98	9.25	9.17	9.36	9.64	9.94	9.72	9.92	10.23	10.56	10.21	10.42	**10.75**	11.10	10.62	10.85	11.19	11.55	10.98	11.21	11.57	11.95
		Amps	8.9	9.1	9.4	9.8	9.6	9.9	10.2	10.6	10.5	10.8	11.1	11.5	11.2	11.5	**11.9**	12.4	12.0	12.3	12.7	13.2	12.7	13.0	13.5	14.0
		Hi PR	139	150	158	165	156	168	178	185	178	191	202	211	202	218	**230**	240	228	245	259	270	252	271	286	298
		Lo PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	**82**	87	74	79	86	92	77	81	89	95
	3500	MBh	99.1	101.2	108.2	115.6	96.8	98.9	105.6	112.9	94.5	96.5	103.1	110.2	92.2	94.2	100.6	107.5	87.5	89.5	95.6	102.2	81.1	82.9	88.5	94.6
		S/T	0.83	0.78	0.63	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.89	0.72	0.54	0.95	0.89	0.73	0.54
		ΔT	22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	22	21	18	14	20	19	17	14
		kW	8.35	8.52	8.77	9.04	8.96	9.14	9.42	9.71	9.49	9.69	9.99	10.30	9.96	10.17	10.49	10.83	10.36	10.58	10.92	11.27	10.71	10.94	11.29	11.66
		Amps	8.7	8.9	9.2	9.5	9.4	9.6	9.9	10.3	10.2	10.4	10.8	11.2	10.9	11.2	11.6	12.0	11.6	11.9	12.3	12.8	12.3	12.6	13.1	13.6
		Hi PR	135	145	153	160	152	163	172	180	172	186	196	204	196	211	223	233	221	238	251	262	244	263	277	289
		Lo PR	59	63	69	73	63	67	73	78	65	69	76	81	68	73	80	85	72	76	83	89	74	79	86	92
85	4500	MBh	112.48	114.66	120.09	128.11	109.87	111.99	117.29	125.14	107.25	109.33	114.50	122.16	104.64	106.66	111.71	119.18	99.40	101.33	106.12	113.22	92.08	93.86	98.30	104.88
		S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.94	0.77
		ΔT	22	21	20	17	22	22	20	18	22	22	20	18	21	22	21	18	20	21	20	18	19	19	19	16
		kW	8.67	8.85	9.11	9.40	9.31	9.50	9.79	10.10	9.87	10.08	10.39	10.73	10.37	10.59	10.92	11.28	10.79	11.02	11.37	11.74	11.15	11.39	11.76	12.15
		Amps	9.1	9.3	9.6	10.0	9.8	10.1	10.4	10.8	10.7	11.0	11.3	11.8	11.4	11.7	12.1	12.6	12.2	12.5	12.9	13.4	12.9	13.3	13.7	14.2
		Hi PR	142	153	161	168	159	172	181	189	181	195	206	215	206	222	235	245	232	250	264	275	257	276	292	304
		Lo PR	62	66	73	77	66	70	77	82	69	73	80	85	72	77	84	89	75	80	88	93	78	83	91	97
	4000	MBh	109.2	111.3	116.6	124.4	106.7	108.7	113.9	121.5	104.1	106.1	111.2	118.6	101.6	103.6	108.5	115.7	96.5	98.4	103.0	109.9	89.4	91.1	95.4	101.8
		S/T	0.90	0.87	0.79	0.64	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.90	0.73
		ΔT	23	22	21	18	23	23	21	18	23	23	21	18	23	23	21	19	22	22	21	18	21	21	20	17
		kW	8.61	8.78	9.05	9.32	9.24	9.43	9.72	10.02	9.79	10.00	10.31	10.64	10.29	10.50	10.84	11.19	10.70	10.93	11.28	11.65	11.06	11.30	11.67	12.05
		Amps	9.0	9.2	9.5	9.9	9.7	10.0	10.3	10.7	10.6	10.9	11.2	11.7	11.3	11.6	12.0	12.5	12.1	12.4	12.8	13.3	12.8	13.1	13.6	14.1
		Hi PR	141	151	160	167	158	170	179	187	179	193	204	213	204	220	232	242	230	247	261	273	254	273	289	301
		Lo PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	80	87	92	77	82	90	96
	3500	MBh	100.8	102.7	107.6	114.8	98.5	100.4	105.1	112.1	96.1	98.0	102.6	109.5	93.8	95.6	100.1	106.8	89.1	90.8	95.1	101.5	82.5	84.1	88.1	94.0
		S/T	0.87	0.84	0.76	0.61	0.90	0.87	0.78	0.64	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.96	0.87	0.71
		ΔT	23	23	21	19	23	23	22	19	23	23	22	19	23	23	22	19	23	23	22	19	22	21	20	17
		kW	8.41	8.58	8.84	9.11	9.02	9.21	9.49	9.79	9.56	9.76	10.07	10.38	10.04	10.25	10.57	10.91	10.45	10.67	11.01	11.36	10.79	11.03	11.38	11.75
		Amps	8.7	8.9	9.2	9.6	9.5	9.7	10.0	10.4	10.3	10.5	10.9	11.3	11.0	11.3	11.7	12.1	11.7	12.0	12.4	12.9	12.4	12.8	13.2	13.7
		Hi PR	136	147	155	162	153	165	174	181	174	187	198	206	198	213	225	235	223	240	253	264	246	265	280	292
		Lo PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93

Shaded area is AHRI 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. Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

EXPANDED HEATING DATA — GSH13

GSH130363A* / ARUF49-00*-1* / ARUF36421A*

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	40.2	38.1	35.8	33.5	**32.0**	31.0	28.8	26.6	19.9	18.4	16.9	16.0	15.4	13.8	12.3	10.7	9.1	7.5
DT	29.2	27.7	26.0	24.3	23.2	22.5	20.9	19.3	14.5	13.4	12.3	11.6	11.2	10.0	8.9	7.8	6.6	5.4
kW	2.80	2.75	2.70	2.64	**2.61**	2.59	2.54	2.49	2.47	2.41	2.36	2.33	2.31	2.25	2.20	2.15	2.09	2.04
Amps	11.0	10.2	9.6	9.1	8.7	8.6	8.1	7.7	7.4	7.1	6.8	6.6	6.5	6.2	5.8	5.5	5.1	4.7
COP	4.20	4.05	3.89	3.71	3.58	3.50	3.32	3.13	2.36	2.23	2.10	2.01	1.95	1.79	1.63	1.46	1.27	1.07
EER	14.4	13.9	13.3	12.7	12.2	12.0	11.3	10.7	8.1	7.6	7.2	6.9	6.7	6.1	5.6	5.0	4.4	3.7
Hi PR	219	210	202	193	189	185	178	171	164	156	150	146	144	138	133	128	123	119
Lo PR	78	72	67	62	58	56	52	46	42	37	33	30	29	25	21	18	16	12

GSH130483A* / ARUF61-00*-1* / ARUF48601A*

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	54.1	51.2	48.2	45.0	**43.0**	41.7	38.7	35.7	33.6	31.1	28.6	27.0	26.0	23.3	20.7	18.0	15.4	12.6
DT	31.3	29.6	27.9	26.1	24.9	24.1	22.4	20.7	19.5	18.0	16.5	15.6	15.0	13.5	12.0	10.4	8.9	7.3
kW	3.71	3.64	3.57	3.50	**3.45**	3.42	3.35	3.28	3.34	3.26	3.19	3.14	3.11	3.04	2.96	2.89	2.81	2.74
Amps	14.6	13.6	12.7	12.0	11.6	11.3	10.7	10.2	9.8	9.3	8.9	8.7	8.6	8.2	7.7	7.2	6.7	6.1
COP	4.26	4.11	3.95	3.77	3.64	3.56	3.38	3.18	2.95	2.79	2.63	2.51	2.44	2.25	2.04	1.83	1.60	1.35
EER	14.6	14.1	13.5	12.9	12.4	12.2	11.5	10.9	10.1	9.5	9.0	8.6	8.4	7.7	7.0	6.2	5.5	4.6
Hi PR	224	215	206	197	193	189	182	174	167	159	153	149	147	141	136	130	126	121
Lo PR	73	68	64	58	55	53	49	44	39	35	31	29	28	23	20	17	15	12

GSH130603A* / ARUF61-00*-1* / ARUF48601A*

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	69.8	66.0	62.2	58.1	**55.5**	53.8	50.0	46.1	43.6	40.3	37.1	35.0	33.7	30.2	26.8	23.4	20.0	16.3
DT	35.9	34.0	32.0	29.9	28.5	27.7	25.7	23.7	22.4	20.7	19.1	18.0	17.3	15.6	13.8	12.0	10.3	8.4
kW	5.58	5.47	5.35	5.24	**5.17**	5.12	5.01	4.89	4.37	4.27	4.17	4.11	4.07	3.96	3.86	3.76	3.65	3.55
Amps	22.1	20.4	19.1	18.0	17.3	17.0	16.0	15.2	14.5	13.9	13.2	12.9	12.7	12.1	11.2	10.6	9.8	8.8
COP	3.66	3.54	3.40	3.25	3.14	3.07	2.92	2.75	2.92	2.76	2.60	2.49	2.43	2.23	2.03	1.82	1.60	1.35
EER	12.5	12.1	11.6	11.1	10.7	10.5	10.0	9.4	10.0	9.4	8.9	8.5	8.3	7.6	6.9	6.2	5.5	4.6
Hi PR	273	262	252	241	235	231	222	213	204	195	187	182	179	172	166	159	153	148
Lo PR	72	67	63	58	54	52	48	43	39	35	30	28	27	23	20	17	15	11

High pressure is measured at the suction service valve (the larger 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

EXPANDED HEATING DATA — GSH10

GSH100903A* / AR090

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	103.1	97.6	91.8	85.9	**82.0**	79.5	73.8	68.1	66.0	61.0	56.1	53.0	51.0	45.8	40.6	35.4	30.2	24.8
ΔT	33.1	31.4	29.5	27.6	26.4	25.5	23.7	21.9	21.2	19.6	18.0	17.0	16.4	14.7	13.1	11.4	9.7	8.0
kW	8.04	7.89	7.74	7.59	**7.50**	7.44	7.29	7.14	7.48	7.32	7.16	7.06	7.00	6.83	6.67	6.51	6.34	6.18
Amps	24.4	22.6	21.1	19.8	19.1	18.7	17.6	16.7	16.0	15.3	14.5	14.2	14.0	13.3	12.4	11.6	10.7	9.6
COP	3.75	3.62	3.47	3.31	3.20	3.13	2.96	2.79	2.58	2.44	2.30	2.20	2.14	1.96	1.78	1.59	1.39	1.17
EER	12.8	12.4	11.9	11.3	10.9	10.7	10.1	9.5	8.8	8.3	7.8	7.5	7.3	6.7	6.1	5.4	4.8	4.0
Hi PR	244	234	225	215	210	206	198	190	182	174	167	163	160	154	148	142	137	132
Lo PR	72	66	62	57	54	52	48	43	38	34	30	28	27	23	20	17	15	11

GSH100904A* / AR090

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	103.1	97.6	91.8	85.9	**82.0**	79.5	73.8	68.1	66.0	61.0	56.1	53.0	51.0	45.8	40.6	35.4	30.2	24.8
ΔT	33.1	31.4	29.5	27.6	26.4	25.5	23.7	21.9	21.2	19.6	18.0	17.0	16.4	14.7	13.1	11.4	9.7	8.0
kW	8.03	7.88	7.73	7.58	**7.50**	7.44	7.30	7.15	3.68	3.63	3.58	3.55	3.53	3.48	3.43	3.37	3.32	3.27
Amps	12.5	11.6	10.8	10.2	9.8	9.6	9.1	8.6	8.2	7.8	7.5	7.3	7.2	6.8	6.3	6.0	5.5	4.9
COP	3.76	3.62	3.48	3.31	3.20	3.13	2.96	2.79	5.25	4.91	4.59	4.37	4.23	3.85	3.47	3.07	2.66	2.21
EER	12.8	12.4	11.9	11.3	10.9	10.7	10.1	9.5	17.9	16.8	15.7	14.9	14.5	13.2	11.9	10.5	9.1	7.6
Hi PR	242	232	223	213	208	204	196	188	180	172	165	161	158	152	147	141	136	131
Lo PR	73	68	63	58	55	53	49	43	39	35	31	29	28	23	20	17	15	12

GSH101203A* / AR120

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	132.6	125.5	118.2	110.5	**105.5**	102.2	95.0	87.6	85.4	78.8	72.5	68.5	66.0	59.2	52.5	45.8	39.0	32.0
ΔT	30.7	29.1	27.4	25.6	24.4	23.7	22.0	20.3	19.8	18.2	16.8	15.9	15.3	13.7	12.1	10.6	9.0	7.4
kW	10.41	10.21	10.01	9.81	**9.70**	9.62	9.43	9.23	9.69	9.47	9.26	9.13	9.05	8.83	8.62	8.41	8.19	7.98
Amps	28.3	26.2	24.5	23.0	22.1	21.7	20.4	19.3	18.4	17.6	16.7	16.3	16.1	15.2	14.1	13.3	12.2	10.9
COP	3.73	3.60	3.45	3.29	3.18	3.11	2.95	2.78	2.58	2.44	2.29	2.20	2.13	1.96	1.78	1.59	1.40	1.17
EER	12.7	12.3	11.8	11.3	10.9	10.6	10.1	9.5	8.8	8.3	7.8	7.5	7.3	6.7	6.1	5.4	4.8	4.0
Hi PR	221	212	203	195	190	186	179	172	165	157	151	147	145	139	134	128	124	120
Lo PR	66	62	58	53	50	48	44	39	36	32	28	26	25	21	18	15	13	11

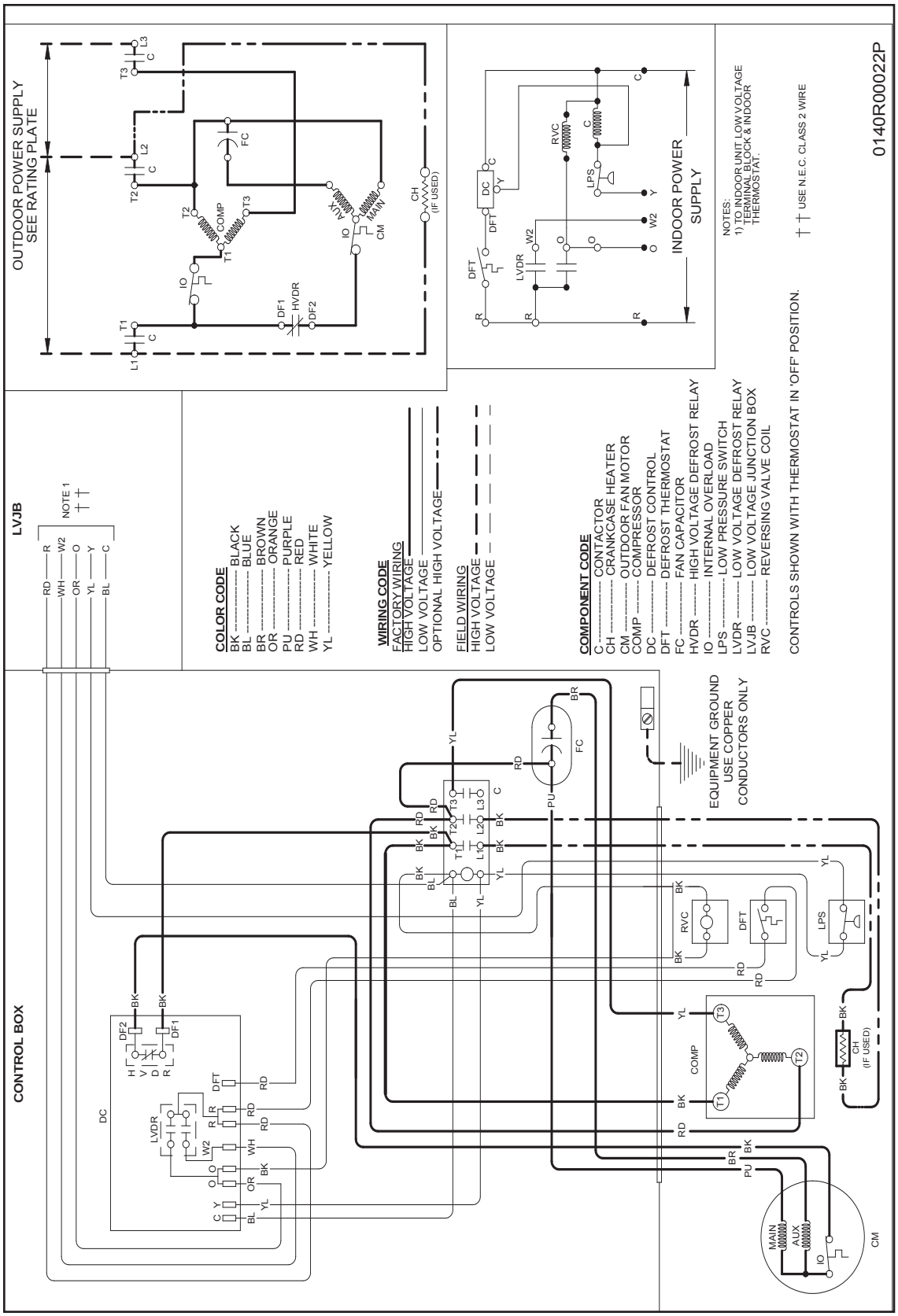
GSH101204A* / AR120

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	132.6	125.5	118.2	110.5	**105.5**	102.2	95.0	87.6	85.4	78.8	72.5	68.5	66.0	59.2	52.5	45.8	39.0	32.0
ΔT	30.7	29.1	27.4	25.6	24.4	23.7	22.0	20.3	19.8	18.2	16.8	15.9	15.3	13.7	12.1	10.6	9.0	7.4
kW	10.37	10.18	9.98	9.78	**9.67**	9.59	9.40	9.20	9.65	9.44	9.23	9.10	9.02	8.80	8.59	8.38	8.16	7.95
Amps	13.9	12.9	12.1	11.3	10.9	10.7	10.1	9.5	9.1	8.7	8.3	8.1	8.0	7.5	7.0	6.6	6.1	5.4
COP	3.74	3.61	3.46	3.30	3.19	3.12	2.96	2.79	2.59	2.44	2.30	2.20	2.14	1.97	1.79	1.60	1.40	1.18
EER	12.8	12.3	11.8	11.3	10.9	10.7	10.1	9.5	8.8	8.3	7.9	7.5	7.3	6.7	6.1	5.5	4.8	4.0
Hi PR	222	213	205	196	191	187	180	173	166	158	152	148	146	140	135	129	125	120
Lo PR	66	62	58	53	50	48	44	39	36	32	28	26	25	21	18	15	13	11

High pressure is measured at the suction service valve (the larger 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

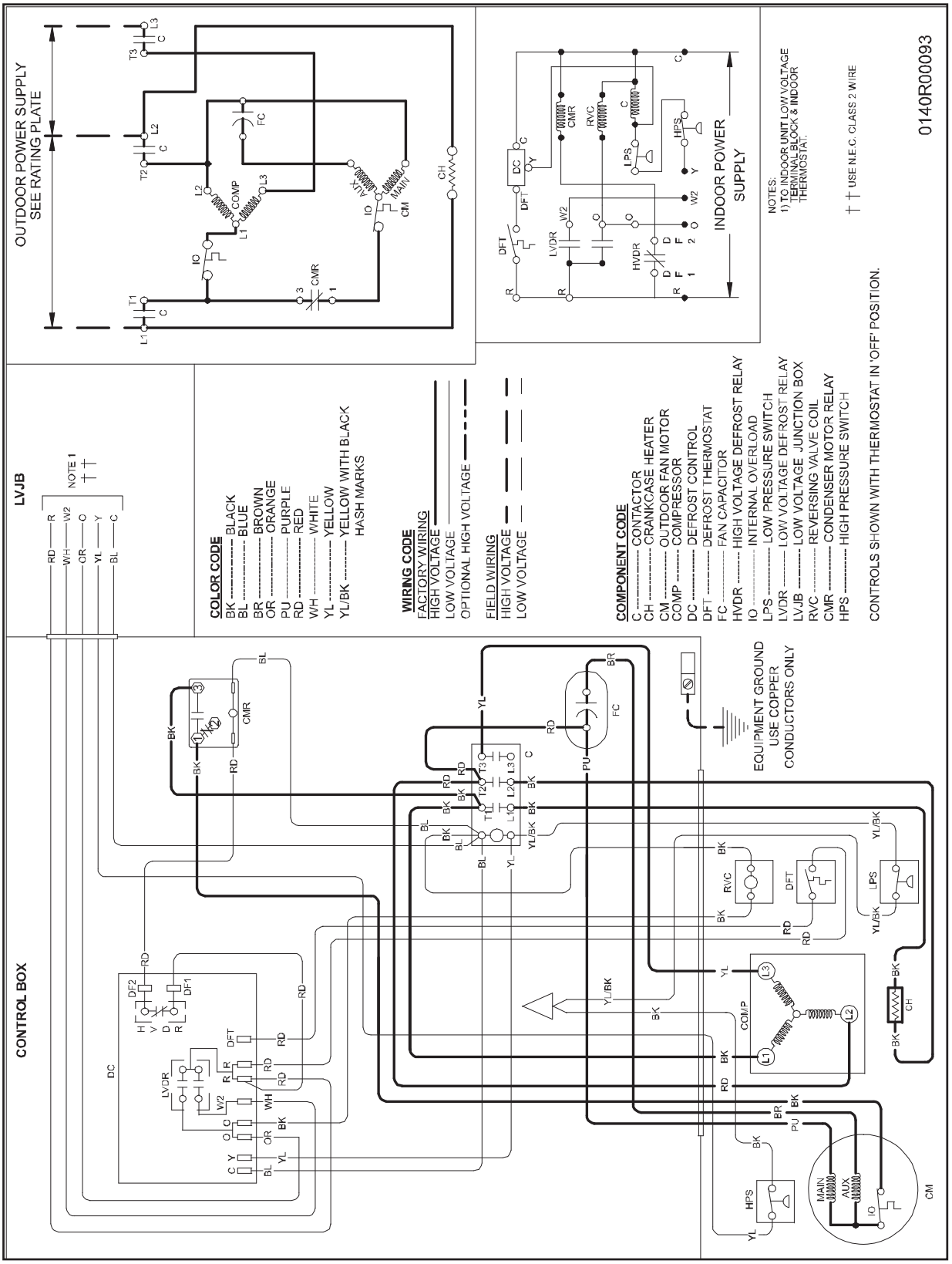
WIRING DIAGRAM — GSH13***3A/4A*



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 schematic.

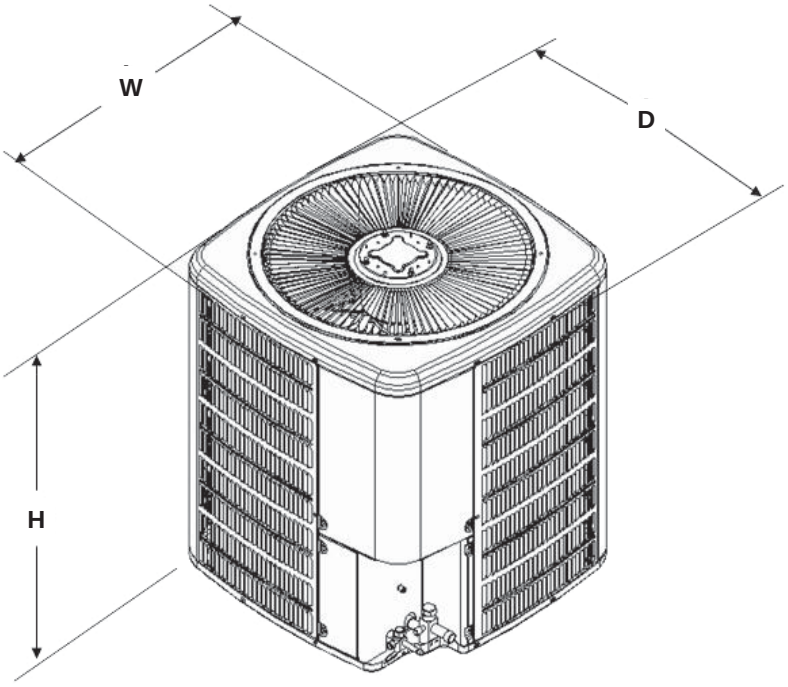
WIRING DIAGRAM — GSH10***3A/4A*



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 schematic.

Dimensions



Model	Dimensions		
	W"	D"	H"
GSH130363A	29	29	38¼
GSH130483A	29	29	34¾
GSH130484A	29	29	34¾
GSH130603A	35½	35½	34¾
GSH130604A	35½	35½	34¾
GSH100903AA	35½	35½	41½
GSH100904AA	35½	35½	41½
GSH101203AA	35½	35½	37½
GSH101204AA	35½	35½	37½

ACCESSORIES

Model	Description	GSH13 036***	GSH13 048***	GSH13 060***	GSH10 090	GSH10 120
ABK-20	Anchor Bracket Kit ▼	X	X	X		
AFE18-60A	All-fuel Kit	X	X	X	X	X
ASC01	Anti-Short Cycle Kit	X	X	X		
CSR-U-1	Hard-start Kit	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
OT/EHR18-60	Emergency Heat Relay kit	X	X	X		
OT18-60A[2]	Outdoor Thermostat with Lockout Stat	X	X	X	X	X
TX3N2[3]	TXV Kit					
TX5N2[3]	TXV Kit	X	X			

▼ 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 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.

NOTES