

Air Conditioning & Heating

COOLING CAPACITY: 24,000 - 57,500 BTU/H HEATING CAPACITY: 22,000 - 54,500 BTU/H

# GPH13H

# PACKAGED HEAT PUMP 13 SEER / R-410A

2 to 5 Tons

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### **Standard Features**

- · Energy-efficient compressor with internal relief valve
- PSC blower motor; EEM blower motor on 5-ton units
- · Quiet horizontal discharge
- Copper tube/aluminum fin coil
- Totally enclosed, permanently lubricated condenser fan motor
- Fully charged system
- Electric heat kit available as a field-installed option
- AHRI Certified
- ETL Listed

### **Cabinet Features**

- Heavy-gauge galvanized-steel cabinet with attractive Architectural Gray powder-paint finish
- Fully insulated blower compartment with convenient access panels
- Louvered condenser coil protection
- · One footprint; three heights









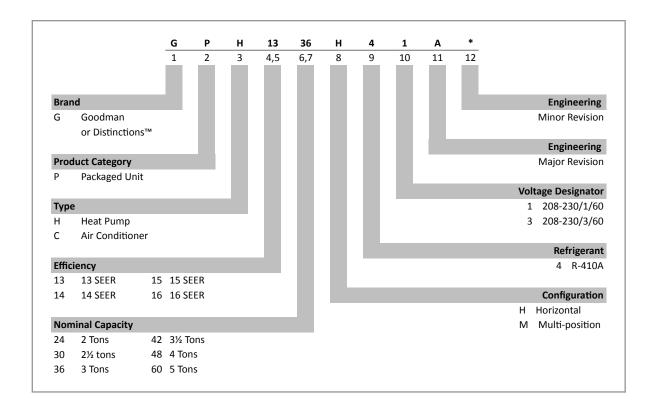








### Nomenclature





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## **S**PECIFICATIONS

	GPH13 24H41C*	GPH13 30H41C*	GPH13 36H41C*	GPH13 42H41C*	GPH13 48H41D*	GPH13 60H41D*
COOLING CAPACITY						
Total BTU/h	24,000	28,000	35,000	40,500	46,000	57,500
Sensible BTU/h	19,200	22,300	26,400	29,400	35,700	42,700
SEER / EER	13.0 / 11.0	13.0 / 11.0	13.0 / 11.0	13.0 / 11.0	13.0 / 11.0	13.0 / 11.0
Decibels	76	76	78	78	80	80
AHRI Numbers	5677868	5677869	5677870	5677871	5677872	5677873
HEATING CAPACITY						
BTU/h (47°F)	22,000	27,400	33,600	38,000	44,500	54,500
C.O.P. (47°F)	3.4	3.4	3.4	3.6	3.6	3.6
BTU/h (17°F)	14,000	15,800	18,000	21,800	26,000	32,000
C.O.P. (17°F)	2.4	2.1	2.4	2.2	2.4	2.4
HSPF	7.7	7.7	7.7	7.7	7.7	7.7
EVAPORATOR MOTOR						
Туре	DD	DD	DD	DD	DD	EEM
Wheel (D x W)	9 x 6	9 x 6	9 x 8	10 x 8	10 x 8	11 x 8
Nominal Cooling CFM	850	1,050	1,200	1,400	1,600	1,850
RLA / LRA	1.5 / 2.2	1.86 / 3.2	1.86 / 3.2	2.87 / 4.9	2.87 / 4.9	5.8 / 8.0
No. of Speeds	3	3	3	3	3	3
Horsepower - RPM	1/4 - 952	½ - 1,020	⅓ - 1,020	½ - 1,050	½ - 1,005	¾ - 1,005/Var
EVAPORATOR COIL						
Face Area (ft²)	5.2	5.2	6.2	6.2	6.2	7.0
Rows Deep / Fins per Inch	3 / 14	3 / 14	3 / 14	4 / 14	4 / 14	4/14
Filter Size (ft²)	20 x 20 x 1	20 x 25 x 1	25 x 25 x 1	(2) 20 x 20 x 1	(2) 20 x 20 x 1	(2) 20 x 25 x 1
Drain Size (NPT)	3/11	3/4"	3/4"	3/4"	3/4"	3/4"
Refrigerant Charge (oz.)	105	105	120	140	170	170
CONDENSER FAN / COIL						
Horsepower - RPM	1/6 - 815	1/6 - 815	1/4 - 830	¼ - 1075	¼ - 1075	½ - 1075
RLA/LRA	1.1 / 1.7	1.1 / 1.7	1.5 / 3.0	1.4 / 2.9	1.4 / 2.9	1.4 / 2.9
Fan Diameter / # Fan Blades	22/3	22/3	22 / 4	22 / 4	22 / 4	22 / 4
Face Area (ft²)	13.4	13.4	17	17	19.1	19.1
Rows Deep/ Fins per Inch	1/24	1 / 24	1 / 24	1 / 24	2/16	2/16
COMPRESSOR	,			,	, -	
Quantity / Type	1 / Scroll					
Stage	Single	Single	Single	Single	Single	Single
Compressor RLA / LRA	12.8 / 58.3	14.1 / 73	16.7 / 79	17.9 / 112	19.9 / 109	26.4 / 134
ELECTRICAL DATA	-,	.,	, , , ,	- ,	,	, , , , ,
Voltage-Phase (60 Hz)	208/230-1	208/230-1	208/230-1	208/230-1	208/230-1	208/230-1
Indoor Blower FLA	1.5	1.86	1.86	2.87	2.87	5.8
Outdoor Fan RLA	1.1	1.1	1.5	1.4	1.4	1.4
Total Unit Amps	15.4	17.06	20.06	22.2	24.17	33.6
Min. Circuit Ampacity <sup>1</sup>	18.6	20.6	24.1	26.6	29.2	40.2
Max. Overcurrent Protection <sup>2</sup>	30	30	40	40	45	60
SHIP WEIGHT (LBS)	325	325	385	385	415	415

<sup>&</sup>lt;sup>1</sup> Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

Note: Always check the S&R plate for electrical data on the unit being installed.

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

# Expanded Cooling Data — GPH1324H41\*\*

	115ºF		59 63 67 71	19.3 20.0 21.9 -	0.92 0.77 0.53 -	17 14 11 -	2.20 2.25 2.32 -	9.8 10.0 10.3 -	436 470 496 -	140 149 163 -	18.7 19.4 21.2 -	0.88 0.73 0.51 -	17 15 11 -	2.18 2.23 2.31 -	9.7 10.0 10.3 -	432 465 491 -	139 148 161 -	17.8 18.4 20.2 -	0.84 0.70 0.49 -	18 15 12 -	2.15 2.20 2.27 -	9.6 9.8 10.1 -	423 456 481 -	
	Jō		67 71	23.6 -	0.53 -	12 -	2.25 -	- 8.6	- 448	157 -	22.9 -	0.50	12 -	2.23 -	- 7.6	444 -	156 -	21.8 -	0.48 -	13 -	2.19 -	- 9.6	436 -	
	105ºF		29 63	20.8 21.5	0.91 0.76	18 15	2.13 2.18	9.3 9.5	395 425	135 144	20.2 20.9	0.87 0.73	18 16	2.11 2.16	9.3 9.5	391 421	134 143	19.2 19.9	0.83 0.70	19 17	2.08 2.12	9.1 9.3		
	Н		71	- 2	0	,,	- 2	-	(1) -	- 1	- 2	0 -		- 2	-	(11)	-	- 1:	0		- 2	-	-	
Æ	9F	MTURE	29	24.8	0.51	12	2.16	9.3	399	150	24.1	0.49	12	2.14	9.2	395	149	22.9	0.46	13	2.10	9.1	387	
OUTDOOR AMBIENT TEMPERATURE	95ºF	ENTERING INDOOR WET BULB TEMPERATURE	63	22.7	0.73	16	2.09	9.0	378	137	22.0	0.70	16	2.07	8.9	374	136	20.9	0.67	17	2.04	8.8	367	
ENT TEN		/ET BULB	29	21.9	0.88	18	2.05	8.8	351	129	21.2	0.84	19	2.03	8.8	348	128	20.2	0.80	19	2.00	9.8	341	
OR AMB		IDOOR W	71		- 6	ı	-	1	-	-	- 2	- 2	•	- 8	1				-	1	- 0	1	-	
OUTDO	85ºF	ERING IN	29 8	2 25.5	1 0.49		9 2.05	5 8.8	2 350	1 143	6 24.7		3 12		4 8.7	8 347	0 141	4 23.5	5 0.45	, 13	(7	3 8.5	2 340	
		ENT	29 63	22.4 23.2	0.85 0.71	18 16	1.95 1.99	8.3 8.5	308 332	123 131	21.8 22.6	0.81 0.68		1.93 1.97	8.3 8.4	305 328	122 130	20.7 21.4	0.78 0.65	19 17	_	8.1 8.3	299 32	
			71   5	- 22	- 0	<u> </u>	<u>-</u>	<u>~</u> 	- 3	- 1	- 21	<u> </u>	-	- 1	<u>~</u> -	<u>.</u>	- 13	-   20	- 0	_	- 1	<u>~</u> -	- 29	
			29	26.1	0.48	12	1.93	8.1	308	137	25.3	0.46	12	1.92	8.1	305	136	24.1	0.44	13	1.89	7.9	299	
	75ºF		63	23.8	69.0	15	1.87	7.9	292	126	23.1		16	1.86	7.8	289	125	22.0	0.63	17	1.83	7.7	283	
			29	23.0	0.83	18	1.83	7.7	271	118	22.3	0.79	19	1.82	7.7	268	117	21.2	0.76	19	1.79	7.6	263	
			71		,	ı	,	,	1	-		1	,	1	1	1			1	1	1	1	1	
	65ºF		29															24.6						
	9		63															7 22.5						
			29	—			—	_	_	_	_	_		_	_	_	_	1 21.7	_	—		_		
			AIRFLOW	MBł	S/T	ΔT	_	Amb	Hi	Lo Pi	MB	T/S	ΔT	_	Amb	Hi	Lo Pi	MBh	T/S	∆T	_	Amb	Hi Pf	
			IDB A	_			980	_	_			_		70 875	_	_			_	_	770	_		

		MBh	23.9	24.6	26.7	28.6	23.4	24.1	26.0	27.9	22.8	23.5	25.4	27.3	22.2	22.9	24.8	26.6	21.1	21.8	23.6	25.3	19.6	20.2	21.8	23.4
		S/T	0.91	0.81	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	99.0	0.42	1.00	0.89	0.68	0.44	1.00	0.93	0.70	0.45	1.00 (	94	0.71	0.46
		ΔT	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	20	19	16	11	18	18	14	10
_	086	 ×	1.72	1.76	1.81	1.87	1.85	1.89	1.95	2.01	1.96	2.00	2.07	2.13	2.06	2.11	2.17	2.25	2.15	2.19	2.27	2.34	2.22	2.27	2.34	2.42
		Amps	7.3	7.5	7.7	7.9	7.8	8.0	8.2	8.5	8.4	9.8	8.8	9.1	8.9	9.1	9.4	9.7	9.4	9.6	6.6	10.2	6.6	10.1	10.4	10.8
		Hi PR	244	263	277	289	274	295	311	325	311	335	354	369	355	382	403	420	399	429	453	473	441	474	501	523
		Lo PR	113	120	131	140	120	127	139	148	124	132	144	154	131	139	152	161	137	146	159	169	142	151	164	175
_		MBh	23.2	23.9	25.9	27.8	22.7	23.4	25.3	27.1	22.1	22.8	24.7	26.5	21.6	22.2	24.1	25.8	20.5	21.1	22.9	24.5	19.0	19.6	21.2	22.7
_	_	S/T	_	0.78	0.59	0.38	06.0	0.81	0.61	0.39	0.92	0.83	0.63	0.40	0.95	0.85	0.65	0.42	0.99	0.88	0.67	0.43	1.00 (	0.89	99.0	0.43
		ΔT	21	20	16	11	21	20	16	11	21	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10
75	875	××	1.71	1.74	1.80	1.85	1.83	1.87	1.93	1.99	1.95	1.99	2.05	2.12	2.05	2.09	2.16	2.23	2.13	2.18	2.25	2.32	2.20	2.25	2.32	2.40
_	_	Amps	7.2	7.4	7.6	7.8	7.7	7.9	8.1	8.4	8.3	8.5	8.8	9.0	8.8	9.0	9.3	9.6	9.3	9.5	8.6	10.2	9.8	10.0	10.3	10.7
		Hi PR	242	260	275	286	271	292	308	321	308	332	350	365	351	378	399	416	395	425	449	468	437	470	496	517
		Lo PR	112	119	130	139	118	126	138	146	123	131	143	152	129	138	150	160	135	144	157	168	140	149	163	173
		MBh	22.1	22.7	24.6	26.4	21.5	22.2	24.0	25.8	21.0	21.7	23.4	25.2	20.5	21.1	22.9	24.5	19.5	20.1	21.7	23.3	18.1	18.6	20.1	21.6
		S/T	0.83	0.74 (	0.56	98.0	98.0	0.77	0.58	0.38	0.88	0.79	09.0	0.39	0.91	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.96	0.85	0.65	0.42
		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
	770	××	1.68	1.72	1.77	1.82	1.81	1.84	1.90	1.96	1.92	1.96	2.02	2.08	2.01	2.06	2.12	2.19	2.10	2.14	2.21	2.28	2.17	2.21	2.29	2.36
		Amps	7.1	7.3	7.5	7.7	9.7	7.8	8.0	8.3	8.2	8.4	9.8	8.9	8.7	8.9	9.1	9.4	9.2	9.4	2.6	10.0	9.7	6.6	10.2	10.5
		Hi PR	237	255	569	281	566	286	302	315	302	325	343	358	344	370	391	408	387	417	440	459	428	460	486	207
		Lo PR	110	117	128	136	116	123	135	144	121	128	140	149	127	135	147	157	133	141	154	164	137	146	159	170
IDB: Ente	ring Indo	IDB: Entering Indoor Dry Bulb Temperature	ılb Tempe	rature							S	hadeda	rea refle	cts ACC#	Shaded area reflects ACCA (TVA) conditions	nditions							Σ	V = Tota	kW = Total system powe	power
High and	low pre	High and low pressures are measured at the liquid and suction service valves	measure	at the l	iquid an	d suction	n service	valves.														Amps =	Amps = outdoor unit amps (comp.+fan	unit am	ps (com	p.+fan)
,																										

# Expanded Cooling Data — GPH1324H41\*\* (cont.)

											ಠ	JTDOOR	AMBIE	OUTDOOR AMBIENT TEMPERATURE	PERATU	뮕									
			9	65ºF			7.	75ºF			85ºF	₽º			95ºF	냚			105ºF	H.			115ºF	L	
											ENTERI	NG IND	OOR WI	ENTERING INDOOR WET BULB TEMPERATURE	TEMPE	RATURE									
1	AIRFLOW	29	63	29	71	29	63	29	71	65	63	29	71	59	63	29	71	59	63	29	71	29	63	29	71
	MBh	_	24.9	26.6	28.4	23.8		26.0	27.7	23.2	23.7	25.3	27.1	22.6	23.1	24.7	26.4	21.5	22.0	23.5	25.1	19.9	20.4	21.8	23.3
	S/T		0.94	0.76	0.57	1.00		0.79	0.59	1.00	1.00	0.81	0.61	1.00	1.00	0.84	0.63	1.00	1.00	0.87	0.65	1.00	1.00	0.88	0.65
	ΔT		22	19	15	22		19	15	22	22	19	15	21	22	19	16	20	21	19	15	19	19	18	14
980	—		1.77	1.82	1.88	1.86		1.96	2.03	1.98	2.02	2.08	2.15	2.08	2.12	2.19	2.26	2.17	2.21	2.28	2.36	2.24	2.29	2.36	2.44
	Amps		7.5	7.7	8.0	7.9		8.3	8.5	8.5	9.8	8.9	9.5	9.0	9.2	9.4	8.6	9.5	9.7	10.0	10.3	10.0	10.2	10.5	10.9
	Hi PR		265	280	292	277		314	328	315	339	357	373	358	386	407	425	403	434	458	478	445	479	206	528
	Lo PR		122	133	141	121		140	149	126	134	146	155	132	140	153	163	138	147	161	171	143	152	166	177
	MBh	_	24.1	25.8	27.6	23.1		25.2	26.9	22.5	23.0	24.6	26.3	22.0	22.5	19.2	25.7	20.9	21.3	22.8	24.4	19.3	19.8	21.1	22.6
	S/T		0.89	0.73	0.54	0.99		0.75	0.56	1.00	0.95	0.77	0.58	1.00	0.98	0.80	09.0	1.00	1.00	0.83	0.62	1.00	1.00	0.84	0.62
	ΔT		23	20	16	24		20	16	24	23	20	16	23	23	20	16	22	22	20	16	20	21	19	15
875	_		1.76	1.81	1.87	1.85		1.95	2.01	1.96	2.00	2.07	2.14	2.06	2.11	2.18	2.25	2.15	2.19	2.27	2.34	2.22	2.27	2.34	2.42
	Amps		7.5	7.7	7.9	7.8		8.2	8.5	8.4	9.8	8.8	9.1	8.9	9.1	9.4	9.7	9.4	9.6	6.6	10.2	6.6	10.1	10.4	10.8
	Hi PR		263	277	289	274		311	325	311	332	354	369	355	382	403	420	399	429	453	473	441	474	501	523
	Lo PR	_	120	131	140	120		139	148	124	132	144	154	131	139	152	162	137	146	159	169	142	151	164	175
	MBh	22.5	22.9	24.5	26.2	21.9	22.4	23.9	25.6	21.4	21.9	23.4	25.0	20.9	21.3	22.8	24.4	19.8	20.3	21.7	23.2	18.4	18.8	20.1	21.4
	S/T		0.86	0.70	0.52	0.95		0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	92.0	0.57	1.04	0.97	0.79	0.59	1.05	0.98	0.80	09.0
	ΔT		23	20	16	25		21	16	25	24	21	17	25	24	21	17	25	24	21	16	23	22	19	15
770			1.73	1.78	1.84	1.82		1.92	1.98	1.93	1.97	2.03	2.10	2.03	2.07	2.14	2.21	2.11	2.16	2.23	2.30	2.18	2.23	2.31	2.38
	Amps		7.3	7.5	7.8	7.7		8.1	8.3	8.3	8.4	8.7	9.0	8.8	8.9	9.5	9.5	9.3	9.5	9.7	10.1	9.7	10.0	10.3	10.6
	Hi PR		257	272	283	268		305	318	305	328	347	362	348	374	395	412	391	421	444	494	432	465	491	512
	Lo PR		118	129	137	117		136	145	122	130	141	151	128	136	149	158	134	143	156	166	139	148	161	172

kW = Total system power Amos = outdoor unit amos (comp.+fan)	otal syste	kW = To	S = Outd	Amp	Ŷ.	Ę	CT .	8	3	tions	RI condi	lects AH	Shaded area reflects AHRI conditions	Shaded	Car	P	ì		ion serv	10000	S. S	nperature	Bulb Ten	IDB: Entering Indoor Dry Bulb Temperature	IDB: Entering Indoor Dry Bulb Temperature
173	163		140			144	135		150	137	129	152	143	131	123	321 146	137	126	118	139	130			Lo PR	
517	496		436	468	449	425	395		399	378	351	365	350	332	308	321	308	292	271	286	275		242	Hi PR	
10.7	10.3		9.8			9.5	9.3		9.3	9.0	8.8	9.0	8.8	8.5	8.3	8.4	8.1	7.9	7.7	7.8	7.6			Amps	
2.40	2.32	2.25	2.20			2.18	2.13	2.23	2.16	2.09	2.05	2.12	2.05	1.99	1.95	1.99	1.93	1.87	1.83	1.85	1.80	1.74	1.71	k K	770
20	23		22			25	24		25	26	25	21	25	26	56	21	25	56	56	21	24	26	26	TΔ	
	96.0		1.00			1.00	1.00		0.91	1.00	1.00	0.72	0.89	0.98	1.00	0.70	0.86	0.96	0.99	0.68	0.83	0.92	_	S/T	
	20.0	19.1	18.7			20.6	20.2	24.2	22.7	21.7	21.2	24.8	23.3	22.2	21.8	25.4	23.8	22.7	22.3	26.0	24.4	23.3	22.8	MBh	
	166	152	143	171		147	138		153	140	132	155	146	134	126	149	140	129	121	141	133	122	114	Lo PR	
528	206	479	445			434	403		407	386	358	373	357	339	315	328	314	298	277	292	280			Hi PR	
10.9	10.5		10.0		٠.	9.7	9.5		9.4	9.2	9.0	9.2	8.9	8.6	8.5	8.5	8.3	8.0	7.9	8.0	7.7	7.5	7.4	Amps	
2.44	2.36	2.29	2.24	2.36		2.21	2.17	2.26	2.19	2.12	2.08	2.15	2.08	2.02	1.98	2.03	1.96	1.90	1.86	1.88	1.82		1.73	¥ ≪	85 875
19	22		21			23	22		24	24	24	21	24	25	24	21	24	25	25	20	23			ΔT	
0.81	1.00	1.00	1.00			1.00	_		0.95	1.00	1.00	0.75	0.92	1.00	1.00	0.73	0.90	1.00	1.00	0.71	0.87	0.96	_	T/S	
22.4	21.0	20.1	19.7	24.2	22.7	21.7	21.2		23.9	22.8	22.4	26.1	24.5	23.4	22.9	26.8	25.1	23.9	23.5	27.4	25.7	24.5	24.0	MBh	
179	168	154	144	173		149	140	165	155	142	133	157	147	135	127	151	142	130	122	143	134	123	115	Lo PR	
533	511	484	450	482	463	438	407		411	389	362	377	361	342	318	331	317	301	279	295	283		_	Hi PR	
11.0	10.6	10.3	10.1	10.4	10.1	9.8	9.6		9.5	9.5	9.0	9.3	9.0	8.7	8.5	8.6	8.3	8.1	7.9	8.0	7.8	7.6	5 7.4	Amps	
2.46	2.38	2.31	2.26	2.38	2.30	2.23	2.18	2.28	2.21	2.14	2.10	2.17	2.10	2.04	1.99	2.04	1.98	1.92	1.88	1.90	1.84	1.78	1.75	k	980
18	20	19	19	20	22	21	21		23	22	22	20	23	23	22	20	23	23	23	20	23	24	23	ΔT	
0.85	1.00	1.00	1.00	0.84	1.00	1.00	1.00	0	1.00	1.00	1.00	0.79	0.97	1.00	1.00	0.77	0.95	1.00	1.00	0.74	0.91	1.00	1.00	S/T	
23.1	21.6	20.7	20.3	24.9	23.4	22.3	21.9	26.2	24.6	23.5	23.0	26.9	25.2	24.1	23.6	27.6	25.8	24.7	24.2	28.2	26.4	25.2	24.8	MBh	

# Expanded Cooling Data — GPH1330H41\*\*

												0	UTDOOR	AMBIE	<b>OUTDOOR AMBIENT TEMPERATURE</b>	PERATU	RE									
				65	65ºF		Ц		75ºF			∞	85ºF			95	95ºF			105≗F	<b>∃</b> ō			115ºF	щ	
												ENTER	ENTERING INDOOR WET	OOR WI	ET BULB	<b>BULB TEMPERATURE</b>	RATURE									
IDB	AIRFLOW	LOW	59	63	67	71	29	63	29	71	29	63	67	71	59	63	29	71	29	63	29	71	29	63	29	71
		MBh	27.6	28.6	31.4		27.0		30.7		26.3	27.3	29.9		25.7	26.6	29.5		24.4	25.3	27.7	-	22.6	23.4	25.7	
		S/T	0.80	0.67	0.46	•	0.83		_	1	0.85	0.71	0.49	1	0.87	0.73	0.51	-		92.0	0.52	_	0.91	92.0	0.53	,
		ΔT	17	15	11	٠	17		11	1	17	15	11		18	15	11	-	17	15	11	_	16	14	11	
	1180	κW	2.03	2.07	2.13	•	2.18		•	1	2.31	2.36	2.43		2.43	2.48	2.56	-	2.53	2.58	2.66	_	2.61	2.67	2.75	ï
		Amps	8.7	8.8	9.1	•	9.3		9.7	1	6.6	10.1	10.4	1	10.5	10.8	11.1	-	11.1	11.4	11.7	,	11.7	12.0	12.3	,
		Hi PR	247	265	280	1	277			1	315	339	358	1	358	386	407	-	403	434	458	_	446	479	909	,
		Lo PR	112	119	130	1	118		137	1	123	131	143	_	129	137	150	-	135	144	157	-	140	149	162	
		MBh	26.8	27.8	30.5		26.2	27.2	29.8		25.6	26.5	29.0		25.0	25.9	28.3	-	23.7	24.6	26.9	-	22.0	22.8	24.9	
		S/T	0.76	0.63	0.44	1	0.79		0.46	1	0.81	0.67	0.47	1	0.83	0.70	0.48	-	0.87	0.72	0.50	_	0.87	0.73	0.50	
		ΔT	18	15	12	•	18			1	18	16	12	1	18	16	12	-	18	16	12	_	17	15	11	,
20	1050	ΚW	2.01	2.05	2.12	1	2.16			1	2.29	2.34	2.41	1	2.41	2.46	2.54	,	2.51	2.56	2.64	_	2.59	2.65	2.73	,
		Amps	9.8	8.8	9.0		9.5		9.6	1	6.6	10.1	10.4		10.4	10.7	11.0	-	11.0	11.3	11.6	_	11.6	11.9	12.2	
		Hi PR	244	263	277	1	274			1	312	335	354	1	355	382	403	-	399	430	454	_	441	475	501	,
		Lo PR	111	118	129	1	117		136	١	121	129	141	-	128	136	148	-	134	142	155	-	138	147	161	
		MBh	24.8	25.7	28.1		24.2		27.5	1	23.6	24.5	26.8		23.0	23.9	26.2	-	21.9	22.7	24.9	,	20.3	21.0	23.0	
		S/T	0.73	0.61	0.42	1	0.76		0.44	1	0.78	0.65	0.45	1	0.80	0.67	0.47		0.83	0.70	0.48	,	0.84	0.70	0.49	,
		ΔT	18	16	12	1	18		12	1	18	16	12		18	16	12	,	18	16	12	_	17	15	11	,
	920	Ϋ́	1.97	2.01	2.07	ı	2.11			ı	2.24	2.28	2.36		2.35	2.40	2.48	-	2.45	2.50	2.58	_	2.53	2.58	2.66	
		Amps	8.4	8.6	8.8	1	9.0		9.4	ı	9.6	8.6	10.1		10.2	10.4	10.7	,	10.8	11.0	11.3	,	11.3	11.6	11.9	
		Hi PR	237	255	569	1	266		302	ı	302	325	343		344	370	391	-	387	417	440	_	428	460	486	
		Lo PR	107	114	125	٠	113		132	٠	118	125	137	,	124	132	144	-	130	138	151	-	134	143	156	

		MBh	28.1	28.9	31.3	33.6	27.4	28.3	30.6	32.8	26.8	27.6	29.9	32.0	26.1	26.9	29.1	31.3 2	24.8 2	25.6 2	27.7 29	29.7 2	3.0 23.7	.7 25.6	6 27.5
		S/T	0.91	0.81	0.61	0.39	0.94	0.84	0.64	0.41	96.0	98.0	0.65	0.42	0.99	0.89	0.67	0.43   1	0 00.1	0.92 0	0.70 0.	0.45   1	1.00 0.9	0.93 0.70	
		ΔT	20	18	15	10	20	18	15	10	20	19	15	10	20	19	15	11	19	18	15 1		18 1	17 14	10
	1180	ķ	2.04	2.09	2.15	2.22	2.20	2.24	2.31	2.38	2.33	2.38	2.45	2.53	2.45	2.50	2.58	2.66   2	2.55 2	, ,	•	_	2.63 2.6	2.69 2.78	
		Amps	8.7	8.9	9.1	9.4	9.3	9.5	8.6	10.1	10.0	10.2	10.5	10.9	10.6	10.8	11.2	11.5   1	11.2 1	11.5 1	11.8 12	12.2   1	11.8 12	12.1 12.4	
		Hi PR	249	268	283	295	280	301	318	331	318	342	361	377	362	390	411	429 4	407 4	438 4	463 4	483 4	450 484	4 511	
		Lo PR	113	120	131	140	119	127	139	148	124	132	144	153	130	139	151	161   1	136 1	145 1	158 1	169   1	141 150	0 164	1 175
		MBh	27.3	28.1	30.4	32.6	26.6	27.4	29.7	31.9	26.0	26.8	29.0	31.1	25.4	:6.13	28.3	_	24.1 2	24.8 2	26.9 28	_	22.3 23	23.0 24.9	
		S/T	0.86	0.77	0.58	0.38	06.0	0.80	0.61	0.39	0.92	0.82	0.62	0.40		0.85	0.64 (		~				0.99 0.8	9.0 68.0	
		ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21 1			11			16 1	11	19 1	18 15	10
75	1050	Κ	2.03	2.07	2.13	2.20	2.18	2.22	2.29	2.36	2.31	2.36	2.43	2.51	2.43	2.48	2.56						2.61 2.67		
		Amps	8.7	8.8	9.1	9.4	9.3	9.4	9.7	10.0	6.6	10.1	10.4	10.8	٠.	92.0	11.1		11.1	11.4 1	11.7 13		11.7 12.0		
		Hi PR	247	265	280	292	277	298	315	328	315	339	358	373	358	385		_	403 4	434 4	458 4		446 480	905 0	
		Lo PR	112	119	130	138	118	126	137	146	123	131	143	152		137		_				_	.40 149	9 162	
		MBh	25.2		28.1	30.1	24.6	25.3	27.4	29.4	24.0	24.7	26.8	28.7	23.4	24.1		28.0   2	22.3 2	22.9 2	24.8 26	26.6   2	20.6 21	21.2 23.0	
		S/T	0.83		0.56	0.36	98.0	0.77	0.58	0.38	0.89	0.79	0.60	0.39		0.82	0.62 (					_	0.96 0.8	0.86 0.65	
		ΔT	21	19	16	11	21	20	16	11	21	20	16	11	21	20		_						18 15	
	920	κ	1.98	2.02	2.08	2.15	2.13	2.17	2.24	2.31	2.26	2.30	2.37	2.45	2.37	2.42	2.50	_		2.52 2	2.60 2.	_	2.55 2.60		9 2.78
		Amps	8.5	9.8	8.9	9.1	0.6	9.5	9.5	8.6	9.7	6.6	10.2	10.5	10.3	10.5	10.8	11.2   1	10.9		11.4 13		11.4 11	11.7 12.0	
		Hi PR	239	257	272	284	268	289	305	318	305	329	347	362	348	374	395	412   3	391 4	421 4	445 4	464 4	432 465	5 491	
		Lo PR	108	115	126	134	115	122	133	142	119	127	138	147	125	133	145	155 1	131 1	139 1	152 1	.62	136 144	4 157	7 168
IDB: Ent	ering Ind	IDB: Entering Indoor Dry Bulb Temperature	ulb Temp	erature							S	shaded a	rea refle	cts ACCA	Shaded area reflects ACCA (TVA) conditions	nditions							Ϋ́	<w =="" power<="" system="" th="" total=""><th>tem pov</th></w>	tem pov
High an	d low pre	High and low pressures are measured at the liquid and suction service valv	e measur	ed at the	· liquid ar	nd suctio	n service	valves.													4	Amps = o	Amps = outdoor unit amps (comp.+fan	it amps (	comp.+f

# Expanded Cooling Data — GPH1330H41\*\* (cont.)

												ō	TDOOR	AMBIEN	<b>OUTDOOR AMBIENT TEMPERATURE</b>	ERATUR										
				65	65ºF			75	75ºF			85ºF	Ŧ			95ºF	L.			105ºF	L.			115≗F		
												ENTERI	IG INDO	OR WEI	ENTERING INDOOR WET BULB TEMPERATURE	remper,	<b>ATURE</b>									
IDB	AIRF	AIRFLOW	59	63	29	71	29	63	67	71	59	63	- 69	71	29	63	29	71	29	63		71	29	63	67	71
		MBh	28.6	29.2	31.2	33.4	27.9	28.5	30.5	32.6	27.3	27.9	29.8	31.8	26.6	27.2	29.0	31.1	25.3	25.8	27.6	29.5   2	23.4 2	23.9 2	25.6	27.3
		S/T	1.00	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.81	09.0	1.00	1.00	0.83	0.62	1.00	1.00	98.0	0.65   1	00	00	0.87 (	0.65
		ΔT	22	21	18	15	22	21	19	15	21	22	19	15	21	21	19	15	20	20	19	15	18	19	17	14
	1180	ΚW	2.06	2.10	2.17	2.23	2.21	2.26	2.33	2.40	2.35	2.40	2.47	2.55	2.47	2.52	2.60	2.68	2.57	2.62	2.71	2.80 2	2.66 2	2.71 2	80	2.89
		Amps	8.8	9.0	9.2	9.5	9.4	9.6	6.6	10.2	10.1	10.3	10.6	11.0	10.7	10.9	11.3	11.6	11.3	11.6	11.9	12.3   1	11.9	2.2	2.5	13.0
		Hi PR	252	271	286	298	282	304	321	335	321	346	365	381	366	394	416	433	411	443	468	488 7	455 4	489	517	539
		Lo PR	114	121	132	141	120	128	140	149	125	133	145	155	132	140	153	163	138	147	160	171   :	143	152 1	166	176
		MBh	27.8	28.4	30.3	32.4	27.1	27.7	29.6	31.7	26.5	27.1	28.9	30.9	25.8	26.4	28.2	30.1	24.5	25.1	26.8	28.6   2	22.7 2	23.2 2	24.8	26.5
		S/T	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82 (	0.62	1.00	00.1	0.83 (	0.62
		ΔT	23	22	19	15	23	22	19	16	23	22	19	16	23	23	70	16	21	22	19	15	20	20	18	14
80	1050	ΚW	2.04	2.09	2.15	2.22	2.20	2.24	2.31	2.38	2.33	2.38	2.45	2.53	2.45	2.50	2.58	2.66	2.55	2.60	2.69	2.77   2	2.63 2	2.69 2	2.78	2.87
		Amps	8.7	8.9	9.5	9.4	9.3	9.5	8.6	10.1	10.0	10.2	10.5	10.9	10.6	10.8	11.2	11.5	11.2	11.5	11.8	12.2	11.8	12.1	12.4	12.9
		Hi PR	249	268	283	295	280	301	318	331	318	342	361	377	362	390	412	429	407	438	463	483 4	450 4	484	511	533
		Lo PR	113	120	131	140	119	127	139	148	124	132	144	153	130	139	151	161	136	145	159	169	141	150 1	164	175
		MBh	25.6	26.2	28.0	29.9	25.0	25.6	27.3	29.5	24.4	25.0	26.7	28.5	23.8	24.4	26.0	27.8	22.7	23.1	24.7	26.4   2	21.0 2	21.4 2	22.9	24.5
		S/T	0.91	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	92.0	0.57	1.04	0.98	0.79 (	0.59	1.05	0.98	0.80	09.0
		ΔT	23	22	19	16	24	23	20	16	24	23	20	16	24	23	70	16	24	23	20	16	22	21	18	15
	920	κ	2.00	2.04	2.10	2.16	2.14	2.19	2.26	2.33	2.27	2.32	2.39	2.47	2.39	2.44	2.52	2.60	2.49	2.54	2.62	2.71   2	2.57 2	2.62 2	2.71	2.80
		Amps	8.5	8.7	8.9	9.5	9.1	9.3	9.6	6.6	8.6	10.0	10.3	10.6	10.4	10.6	10.9	11.3	10.9	11.2	11.5	11.9	11.5 1	11.8 1	2.1	12.5
		Hi PR	242	260	275	286	271	292	308	321	308	332	350	366	351	378	399	416	395	425	449	468   4	437 4	470 4	496	517
		Lo PR	110	117	127	135	116	123	134	143	120	128	140	149	126	134	147	156	132	141	154	164	137	146 1	159	169

		MBh 2	29.1 29.7	7 31.1	1 33.1	28.4	29.0	30.3	32.4	27.7	28.3	29.6	31.6	27.1	57.6	28.9	30.8	25.7 2	26.2	27.5	29.3	23.8 24	24.3 25.4	.4 27.
		S/T	1.00 1.00	0 0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	96.0	0.78	1.00	1.00	0.99	0.81	1.00	00.1	_	0.84	1.00	00 1.0	.00 0.84
			23 23			22	23	22	19	22	22	22	19	21	21	22	19		20		19	19 1	19 20	) 18
1	1180	kw 2		2 2.18	3 2.25	2.23	2.28	2.35	2.42	2.37	2.42	2.49	2.57	2.49	2.54	2.62	2.71	2.59 2		2.73	2.82	2.68 2.	2.74 2.82	. •
			8.9 9.0			9.5	9.7	9.9	10.3	10.2	10.4	10.7	11.1	10.8	11.0	11.3	11.7	11.4	11.7		12.4	12.0 12		12.6 13.1
		Hi PR	254 27	3 289	301	285	307	324	338	324	349	369	384	369	398	420	438	416 4	447	472 ,	493	459 49	494 522	
						122	129	141	151	126	135	147	156	133	141	154	164	139	148		172	144 1	153 167	7 178
			28.3 28.			27.6	28.1	29.5	31.4	56.9	27.5	28.8	30.7	26.3	26.8	28.1	29.9	25.0 2	25.5	26.7	28.4	23.1 23	23.6 24.7	.7 26.3
		S/T (	0.99 0.9			1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	_			0.80	1.00 1.		
						24	24	23	20	24	24	23	20	23	23	23	20	22						
85 10	1050		2.06 2.10			2.21	2.26	2.33	2.40	2.35	2.40	2.47	2.55	2.47	2.52	2.60	7.68			2.71	2.80	2.66 2.	2.71 2.80	0 2.89
		Amps		9.2	9.5	9.4	9.6	9.9	10.2	10.1	10.3	10.6	11.0	10.7	10.9	11.3	11.6	11.3 1				11.9 12		
						282	304	321	335	321	346	365	381	366	394	416	433	411 4	443 ,	468 4	488	455 48	489 517	7 539
		Lo PR	114 121			120	128	140	149	125	133	145	155	132	140	153	$\dashv$	138			171	143 15	152 166	6 176
				6 27.8			26.0	27.2	29.0	24.9	25.3	26.5	28.3		24.7	25.9	27.6		23.5	24.6	29.5		•	
							96.0	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	_			.   77.0	_	_	
		ΔT	25 25	23	20	25	25	23	20	25	25	24	20	24	25	24	20		23	23	70		22 22	
<b>U</b> 1	920						2.21	2.27	2.35	2.29	2.34	2.41	2.49	2.41	2.46	2.54	2.62	2.51 2	•		2.73	2.59 2.	•	
			8.6 8.8			9.5	9.4	9.6	6.6	6.6	10.1	10.4	10.7	10.4	10.7	11.0	11.3	11.0 1	11.3	11.6 1	_	11.6 11	11.9 12	
			244 263			274	295	311	325	311	332	354	369	355	382	403	420	399	430	454 ,	473	441 4	475 501	
		Lo PR	111 118	3 128	137	117	124	136	145	121	129	141	150	128	136	148	158	134	142	155	165	138 14	147 161	1 171
IDB: Enteri	ng Indo	IDB: Entering Indoor Dry Bulb Temperature	Temperatu	ıre							Shaded a	area refle	cts AHR	Shaded area reflects AHRI conditions	SI							ΚW	= Total sy	kW = Total system power
High and Ic	w pres	High and low pressures are measured at the liquid and suction service valv	easured at	the liquid	and suct	ion servic	e valves.														Amps =	Amps = outdoor unit amps (comp.+fan)	it amps	(comp.+f

# Expanded Cooling Data — GPH1336H41\*\*

			71		,	_	,	_	_	_		_	_	_	,	_	-	,	_	,	,	_	_	,
	L		29	31.9	0.50	11	3.52	15.7	207	160	31.0	0.48	11	3.49	15.6	502	158	28.6	0.46	12	3.41	15.2	487	154
	115ºF		63	29.1	0.73 (	14	3.41	15.2	480	146	28.3	0.69	15	3.39	15.1	476	145	26.1	0.67	15	3.30	14.8	461	141
			29	28.1	0.87	17	3.34	14.9	446	138	27.3	0.83	17	3.32	14.8	442	136	25.2	0.80	18	3.24		429	132
			71		,	_	,	_	_	,	-	_	_	_	_	_	-	-	_	_	,		_	,
	₽£		29	34.4	0.50	12	3.41	14.9	459	155	33.4	0.48	12	3.38	14.8	455	153	30.8	0.46	12	3.30	14.4	441	148
	105≗F		63	31.4	0.72	15	3.30	14.5	435	142	30.5	69.0	16	3.28	14.4	431	140	28.2	99.0	16	3.20	14.0	418	136
			59	30.3	98.0	18	3.23	14.2	404	133	29.4	0.82	19	3.21	14.1	400	132	27.2	0.79	19	3.13	13.7	388	128
			71	-	,	_	,	_	_	,	-	_	,	_	,	_	-	-	,	_	,	,	_	
RE	95ºF	RATURE	<b>49</b>	36.2	0.48	12	3.27	14.1	408	148	35.2	0.46	12	3.25	14.0	404	146	32.5	0.44	13	3.17	13.7	392	142
PERATU	95	TEMPE	63	33.1	69.0	16	3.18	13.7	387	135	32.1	99.0	16	3.15	13.6	383	134	29.6	0.64	17	3.08	13.3	371	130
<b>OUTDOOR AMBIENT TEMPERATURE</b>		ENTERING INDOOR WET BULB TEMPERATURE	29	31.9	0.83	18	3.11	13.4	359	127	31.0	0.79	19	3.09	13.3	356	126	28.6	0.76	19	3.01	13.0	345	122
AMBIE		OOR WE	71	-	,	1	1	,	-	,	-	,	,	-	1	,	-	1	,	,	,	1	,	
UTDOOF	85ºF	ING IND	29	37.1	0.47	12	3.12	13.3	358	140	36.1	0.44	12	3.09	13.2	355	139	33.3	0.43	12	3.02	12.9	344	135
ō	82	ENTER	63	33.9	0.67	16	3.02	13.0	339	129	32.9	0.64	16	3.00	12.9	336	127	30.4	0.62	16	2.93	12.6	326	124
			29	32.7	0.81	18	2.96	12.7	315	121	31.7	0.77	19	2.94	12.6	312	120	29.3	0.74	19	2.87	12.3	303	116
			71		,	1	1	1	1	ı	,	1	1	1	1	1	1	,	1	1	1	ı	1	,
	75ºF		29	38.0	0.45	12	2.94		315	135	36.9	0.43	12	2.92	12.3	312	134	34.1	0.42	12	2.85	12.0	303	130
	7		63	34.7	99.0	16	2.85	12.1	298	124	33.7	0.63	16	2.83	12.0	295	123	31.1	0.60	16	2.77	11.7	287	119
			29	33.5	0.79	18	2.80	11.8	277	116	32.5	0.75	19	2.78	11.8	275	115	30.0	0.72	19	2.71	11.5	266	112
			71		•	1	1	1	1	1	'	1	1	1	1	1	1	1	1	1	1	1	1	•
	65ºF		29								37.8													123
	9		63								34.5													
			29	_							33.3						_	_						
			AIRFLOW	MBh	S/T	ΔT	kW	Amps	Hi PR	Lo PR	MBh	S/T	ΔT	Ϋ́	Amps	Hi PR	Lo PR	MBh	S/T	ΔT	kW	Amps	Hi PR	Lo PR
			AIR			_	1350			_				1200							1050			
			IDB											20										

1550   May   May	_	Ľ	MBh	34.9 35	35.9 38	38.9 4	41.7   3	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
146 11 21 19 16 11 21 19 11 21 2			S/T	_					_	09.0	-	0.92	0.82	0.62	0.40	0.94	0.85	0.64	0.41	0.98	0.88	99.0	0.43	_	.88	0.67	0.43
2.96         3.06         2.99         3.05         3.14         3.20         3.30         3.41         3.26         3.33         3.41         3.55         3.31         3.44         3.55         3.37         3.44         3.55           12.5         12.9         13.0         13.2         13.2         13.2         14.2         14.7         14.3         14.6         15.0         15			ΔT				_	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
12.5 12.9 12.8 13.1 13.4 13.9 13.6 13.8 14.2 14.7 14.3 14.6 15.0 15.5 15.6 15.8 15.8 15.8 13.8 13.8 13.8 13.2 13.9 14.8 13.9 14.8 13.0 14.8 13.0 14.8 13.0 14.8 13.0 15.8 13.8 13.8 13.8 13.8 13.8 13.8 13.8 13	13	_	- ×	( 4	(1	(1	_		.88	2.96	_	2.99	3.05	3.14	3.24	3.13	3.20	3.30	3.41	3.26	3.33	3.44	3.55	3.37	3.44	3.55	3.67
318         332         319         343         362         378         362         391         412         430         469         484         484         484         481         362         318         313         362         378         362         378         362         378         125         149         159         143         156         166         139         148         461         481         461         481         461         481         461         482         483         313         313         313         313         318         313         313         318         318         319         318         319         318         319         319         319         314         419         150         313         318         316         317         319         319         318         319         311         21         21         21         21         21         21         21         21         21         21         21         21         314         414         414         415         414         415         414         415         414         414         414         414         414         414         414         414 <t< td=""><th></th><th>Ā</th><td></td><td>` .</td><td>` '</td><td></td><td></td><td></td><td>2.2</td><td>12.5</td><td>12.9</td><td>12.8</td><td>13.1</td><td>13.4</td><td>13.9</td><td>13.6</td><td>13.8</td><td>14.2</td><td>14.7</td><td>14.3</td><td>14.6</td><td>15.0</td><td>15.5</td><td>` '</td><td>15.4</td><td>15.8</td><td>16.4</td></t<>		Ā		` .	` '				2.2	12.5	12.9	12.8	13.1	13.4	13.9	13.6	13.8	14.2	14.7	14.3	14.6	15.0	15.5	` '	15.4	15.8	16.4
137         145         125         130         142         151         143         145         156         166         136         136         137         149         159         134         145         156         166         136         136         148         162         160         160         137         149         159         136         313         35.0         38.0         38.6         38.7         38.8         38.9         38.8         38.9         38.8         38.7         48.8         42.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6         40.6 <th></th> <th><u> </u></th> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td>318</td> <td>332</td> <td>319</td> <td>343</td> <td>362</td> <td>378</td> <td>363</td> <td>391</td> <td>412</td> <td>430</td> <td>408</td> <td>439</td> <td>464</td> <td>484</td> <td></td> <td>485</td> <td>513</td> <td>535</td>		<u> </u>					_			318	332	319	343	362	378	363	391	412	430	408	439	464	484		485	513	535
36.9         39.6         32.3         38.6         38.7         38.8         38.2         38.7         38.8         38.2         38.7         48.6         49.6         49.6         49.6         49.6         49.6 <th< td=""><th></th><th>_ _</th><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td>145</td><td>122</td><td>130</td><td>142</td><td>151</td><td>128</td><td>137</td><td>149</td><td>159</td><td>134</td><td>143</td><td>156</td><td>166</td><td></td><td>148</td><td>162</td><td>172</td></th<>		_ _					_				145	122	130	142	151	128	137	149	159	134	143	156	166		148	162	172
0.58         0.37         0.87         0.78         0.59         0.88         0.61         0.39         0.84         0.84         0.83         0.94         0.84         0.84         0.89         0.84         0.89 <th< td=""><th></th><th>_</th><td>_</td><td></td><td></td><td></td><td>_</td><td></td><td>.1</td><td></td><td>_</td><td></td><td>33.2</td><td>36.0</td><td>38.6</td><td></td><td>32.4</td><td></td><td>37.7</td><td>29.9</td><td>30.8</td><td>33.3</td><td>35.8</td><td></td><td>28.5</td><td>30.9</td><td>33.2</td></th<>		_	_				_		.1		_		33.2	36.0	38.6		32.4		37.7	29.9	30.8	33.3	35.8		28.5	30.9	33.2
16         11         22         20         16         11         21         20         16         11         21         20         16         11         21         20         16         11         21         20         16         11         21         20         16         11         21         20         16         11         21         20         16         11         21         20         16         11         21         20         16         17         323         3.23         3.41         3.52         3.41         3.52         3.41         3.52         3.41         3.52         3.41         3.52         3.41         3.52         3.41         3.52         3.42         3.52         3.42         3.52         3.41         4.42         4.52         4.53         4.53         4.53         4.53         4.53         4.53         4.54         4.51         4.51         4.52         4.52         4.52         4.52         4.53         4.53         4.53         4.53         4.53         4.53         4.53         4.53         4.53         4.53         4.53         4.53         4.53         4.53         4.53         4.53         4.53         4.53		_					_				_		0.78	0.59	0.38	06.0	0.81	0.61	0.39	0.94	0.84	0.63	0.41		).84	0.64	0.41
2.94         3.02         3.02         3.12         3.28         3.23         3.33         3.41         3.52         3.41         3.52         3.34         3.27         3.38         3.21         3.52         3.11         3.12         3.23         3.21         3.52         3.14         14.0         14.0         14.1         14.6         14.2         14.5         14.9         15.4         14.9         15.4         14.9         15.4         14.9         15.4         14.9         15.4         14.9         15.4         14.9         15.4         14.9         15.4         14.9         15.4         14.9         15.4         14.9         15.4         14.9         15.4         15.7         14.9         15.4         15.7         15.7         15.7         14.9         14.9         15.4         15.7         15.2         15.7         15.7         15.2         15.2         15.2         15.7         15.0         15.2         15.2 <th< td=""><th></th><th></th><td>ΔT</td><td></td><td></td><td></td><td></td><td></td><td>20</td><td>16</td><td>11</td><td>22</td><td>20</td><td>16</td><td>11</td><td>22</td><td>20</td><td>16</td><td>11</td><td>21</td><td>20</td><td>16</td><td>11</td><td>20</td><td>18</td><td>15</td><td>10</td></th<>			ΔT						20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10
12.4 12.8 12.7 13.0 13.3 13.8 13.4 13.7 14.1 14.6 14.2 14.5 14.9 15.4 14.9 15.4 15.5 15.7 13.0 13.3 13.8 13.4 13.5 13.4 14.8 14.6 14.2 14.5 14.9 15.4 14.9 15.2 15.7 13.5 13.8 13.8 13.4 13.8 14.8 15.7 13.8 14.2 15.5 16.5 16.5 13.8 14.7 16.0 13.9 13.1 13.1 13.1 13.1 13.1 13.1 13.1		_					—				3.03		3.02	3.12	3.22		3.18		3.38	3.23	3.30	3.41	3.52		3.41	3.52	3.64
315         329         318         339         358         374         359         387         408         426         404         435         459         479         447         481         507           135         144         121         129         140         150         127         148         157         133         142         155         165         165         138         147         160           34.0         36.5         29.8         30.7         33.2         35.6         29.9         32.4         34.8         27.6         28.4         30.8         33.0         25.6         26.3         28.5           0.56         0.36         0.36         0.37         0.37         0.37         0.38         0.39         0.81         0.61         0.39         0.91         0.81         0.61         0.39         0.82         0.82         0.83         0.92         0.83         0.83         0.81         0.62         0.83         0.82         0.83         0.83         0.83         0.83         0.83         0.83         0.83         0.83         0.83         0.83         0.83         0.83         0.83         0.83         0.83         0.83 <t< td=""><th></th><th><u>Ā</u></th><td></td><td></td><td></td><td></td><td>_</td><td></td><td>12.1</td><td></td><td>12.8</td><td>12.7</td><td>13.0</td><td>13.3</td><td>13.8</td><td>13.4</td><td>13.7</td><td>14.1</td><td>14.6</td><td>14.2</td><td>14.5</td><td>14.9</td><td>15.4</td><td>٠.</td><td>15.2</td><td>15.7</td><td>16.2</td></t<>		<u>Ā</u>					_		12.1		12.8	12.7	13.0	13.3	13.8	13.4	13.7	14.1	14.6	14.2	14.5	14.9	15.4	٠.	15.2	15.7	16.2
135         144         121         129         140         150         127         148         157         133         142         155         165         17         17		<u> </u>							<u></u>		329	315	339	358	374	359	387	408	426	404	435	459	479		481	207	529
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 28.5 0.36 0.36 0.36 0.38 0.30 0.31 0.31 0.62 0.32 0.38 0.30 0.31 0.31 0.32 0.32 0.32 0.33 0.34 0.35 0.32 0.34 0.35 0.35 0.34 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35		Ľ	_				_				144	121	129	140	150	127	135	148	157	133	142	155	165		147	160	170
0.56 0.36 0.84 0.75 0.57 0.37 0.87 0.78 0.59 0.38 0.90 0.81 0.61 0.39 0.91 0.80 0.62 0.62 1 1 2 2 2 0 1 1 1 2 2 2 0 1 1 1 2 2 2 0 1 1 1 2 2 2 0 1 1 1 2 2 2 0 1 1 1 2 2 2 0 1 1 1 2 2 2 0 1 1 1 2 2 2 2		_	_				_				_		30.7	33.2	35.6	29.1	29.9		34.8	27.6	28.4		33.0		6.3	28.5	30.6
17         11         22         20         17         12         22         20         17         12         22         20         16         11         20         19         15           2.87         2.96         2.89         2.95         3.04         3.14         3.04         3.10         3.20         3.30         3.36         3.32         3.33         3.49         3.56         3.39         3.41         13.4         13.8         14.2         13.9         14.1         14.6         15.0         14.6         14.9         15.3         3.44           306         319         36         329         348         363         349         375         396         413         392         422         446         465         433         466         492           131         140         117         125         136         143         152         129         137         150         160         134         142         155           131         140         127         136         137         143         150         160         134         142         155    ***  ********  ********  ********  ****							_						0.75	0.57	0.37	0.87	0.78	0.59	0.38	06.0	0.81	0.61	0.39		).81	0.62	0.40
2.87         2.96         2.89         2.95         3.04         3.14         3.04         3.10         3.20         3.30         3.35         3.45         3.26         3.33         3.44           12.1         12.5         12.4         12.7         13.0         13.4         13.4         13.8         14.2         13.9         14.1         14.6         15.0         14.6         14.9         15.3           306         319         306         329         348         363         349         375         396         413         392         422         446         465         433         466         492           131         140         117         125         136         143         131         143         152         129         137         150         160         134         142         155           Shaded area reflects ACCA (TVA) conditions         *** Amos = outdoor unit amos contraction unit amos contraction unit amos contraction unit amos contraction.			ΔT				_	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11
12.1 12.5 12.4 12.7 13.0 13.4 13.1 13.4 13.8 14.2 13.9 14.1 14.6 15.0 14.6 14.9 15.3 306 319 306 329 348 363 349 375 396 413 392 422 446 465 433 466 492 131 140 117 125 136 145 123 131 143 152 129 137 150 160 134 142 155	10				. •	. •	_		62.:		2.96	2.89	2.95	3.04	3.14	3.04	3.10		3.30	3.16	3.22	3.33	3.43		3.33	3.44	3.55
306 319 306 329 348 363 349 375 396 413 392 422 446 465 433 466 492 131 140 117 125 136 145 123 131 143 152 129 137 150 160 134 142 155		<u>Ā</u>			•		_		11.8	12.1	12.5	12.4	12.7	13.0	13.4	13.1	13.4	13.8	14.2	13.9	14.1	14.6	15.0	٠.	14.9	15.3	15.8
131         140         117         125         136         145         123         131         143         152         129         137         150         160         134         142         155           Shaded area reflects ACCA (TVA) conditions    RW = Total system  Amos = outdoor unit amos (command)		<u> </u>	Hi PR				_		290	306	319	306	329	348	363	349	375	396	413	392	422	446	465		466	492	513
Shaded area reflects ACCA (TVA) conditions  Amos = outdoor unit amos (comp		ľ	o PR				_		120		140	117	125	136	145	123	131	143	152	129	137	150	160		142	155	165
	DB: Entering	g Indoor	· Dry Bulk	) Temperat	ture							S	naded a	rea reflec	ts ACCA	(TVA) co	unditions	10						Ϋ́	V = Tota	system	powe
	High and low	v pressu	ires are n	neasured a	it the lian	uid and	suction	service v	alves.														Amps =	outdoor	unit am	moo) sa	p.+fan

# Expanded Cooling Data — GPH1336H41\*\* (cont.)

DB								0	TDOOR	AMBIEN	<b>OUTDOOR AMBIENT TEMPERATURE</b>	RATURE									
AIRFLOW   S9     MBh   35.5     S/T   0.94     AT   23     Amps   11.3     Hi PR   252     Lo PR   112     MBh   34.5     S/T   0.90     AT   24     1200   kW   2.63     Hi PR   250     Hi PR   250     Hi PR   250     Lo PR   11.2     Amps   11.2     Hi PR   250     Lo PR   111     Amps   11.2     Amps   11.2     Hi PR   250     Lo PR   111     Amps   11.2     Amps   11.2     Amps   11.2     Amps   11.2     Amps   11.2     Amps   11.2     Hi PR   250     Lo PR   111     Amps   11.2     Amps   11.3     A	65ºF			7	75ºF			85º F	<u>.</u>			95≗F				105ºF		Н		115ºF	
MBh   35.5     NBh   35.5     S/T   0.94     AT   23     Amps   11.3     Hi PR   252     Lo PR   11.2     MBh   34.5     S/T   0.90     Amps   11.2     Hi PR   2.63     Hi PR   2.60     Hi PR								ENTERIN	G INDO	ENTERING INDOOR WET	<b>BULB TEMPERATURE</b>	MPERA	TURE								
MBh 35.5 S/T 0.94 AT 23 1350 kW 2.65 Amps 11.3 Hi PR 252 Lo PR 112 NBh 34.5 S/T 0.90 AT 24 1200 kW 2.63 Hi PR 2.63 Hi PR 2.63 Hi PR 2.63	63 67	71	29	63	29	71	29	63	29	71	29	63	29	71	29	63	.   29	71   5	9   65	63 67	7   71
8/T     0.94       ΔT     23       1350     kW     2.65       Amps     11.3       Hi PR     252       Lo PR     112       MBh     34.5       s/T     0.90       ΔT     24       1200     kW     2.63       Hi PR     250       Hi PR     250       Lo PR     11.2       Hi PR     250       Lo PR     11.1       Amps     11.2       Hi PR     250       Lo PR     11.1       Amps     2.1       Lo PR     2.1       Amps     2.1			34.7		37.9	40.5	33.8	34.6	37.0	39.5	33.0	33.7	36.1	38.5	31.4 3	32.1	34.2 3	36.6 2	29.1 29	9.7 31	.7 33.9
1350 kW 2.65 Amps 11.3 Hi PR 252 Lo PR 112 MBh 34.5 S/T 0.90 AT 24 1200 kW 2.63 Amps 11.2 Hi PR 250 Lo PR 11.1			1.00		0.75	0.56	1.00	0.94	0.77	0.57	1.00	00.1	0.79	0.59	00	00.	0.82 0	0.61   1.	.00 1.	.00 0.83	3 0.62
1350 kW 2.65 Amps 11.3 Hi PR 252 Lo PR 112 MBh 34.5 S/T 0.90 ΔT 24 1200 kW 2.63 Amps 11.2 Hi PR 250 Lo PR 111			24		19	15	23	22	19	15	22	23	19	16	21	22	19	15	20 2	20 18	3 14
Amps 11.3  Hi PR 252  Lo PR 112  MBh 34.5  S/T 0.90  ΔT 24  1200 kW 2.63  Amps 11.2  Hi PR 250  Lo PR 111			2.84		2.99	3.08	3.01	3.07	3.17	3.27	3.16	3.23	3.33	3.43	3.29	3.36	3.46 3	.57	.40 3.	3.47 3.58	3.70
Hi PR 252 Lo PR 112 MBh 34.5 S/T 0.90 AT 24 1200 kW 2.63 Amps 11.2 Hi PR 250 Lo PR 111			12.0		12.6	13.0	12.9	13.2	13.5	14.0	13.7	14.0	4.4	14.8	14.4	4.7	.5.2 1	1 2.5	5.2 15	5.5 16	.6.0 16.5
120 MBh 34.5 S/T 0.90 AT 24 1200 kW 2.63 Amps 11.2 Hi PR 250 Lo PR 111			283		322	335	322	346	366	381	367	394	417	434	412 4	444	469 4	489 4	456 49	490 518	8 540
MBh 34.5 S/T 0.90 AT 24 1200 kW 2.63 Amps 11.2 Hi PR 250 Lo PR 111			119		138	147	123	131	143	153	130	138	151	160	136	145	158 1	168   1	141 1	149 163	3 174
S/T 0.90 ΔT 24 1200 kW 2.63 Amps 11.2 Hi PR 250 Lo PR 111			33.7		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 3	35.5 2	28.2 28	28.8 30.8	.8 32.9
AT 24  1200 kW 2.63  Amps 11.2  Hi PR 250  Lo PR 111			0.93		0.71	0.53	96.0	0.90	0.73	0.55	0.99	0.93	0.75	0.56	1.00 (	0.96	0.78 0	0.59	1.00 0.	0.97 0.79	9 0.59
1200 kW 2.63 Amps 11.2 Hi PR 250 Lo PR 111			24		20	16	24	23	20	16	24	23	20	16	23	23	20	16	22 2	21 19	9 15
11.2 250 111			2.82		2.96	3.06	2.99	3.05	3.14	3.24	3.13	3.20	3.30	3.41	3.26	3.33	3.44 3	3.55 3	3.37 3.	3.44 3.55	3.67
250			11.9		12.5	12.9	12.8	13.1	13.4	13.9	13.6	13.8	14.2	14.7	14.3	14.6 1	5.0 1	15.5	15.0 15	5.4 15	15.8 16.4
111			280		318	332	319	343	362	378	363	391	412	430	408 4	439 4	464 4	484   4	451 48	485 513	3 535
0,70			118		137	145	122	130	142	151	128	137	149	159	134	143	156 1	166   1	139 1	148 162	2 172
2T.0	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 2	28.7	30.7 3	32.8 2	26.0 26	26.6 28.4	.4 30.4
0.87			0.90		0.69	0.51	0.92	0.87	0.70	0.53	0.95	0.89	0.73	0.54 (	0.99	0.93 (	0.75 0	0.56   1.	1.00 0.	0.94 0.76	6 0.57
24			24		20	16	25	23	20	16	25	24	21	16	24	23	20	16	23 2	22 19	) 15
2.57			2.75		2.89	2.98	2.92	2.98	3.07	3.16	3.06	3.12	3.22	3.32	3.18 3	3.25	3.35 3	3.46	3.29 3.	3.36 3.46	16 3.58
10.9			11.7		12.2	12.6	12.5	12.8	13.1	13.5	13.2	13.5	13.9	14.4	14.0 1	14.3	14.7 1	15.2	14.7 15	15.0 15	5.4 16.0
242			272		309	322	309	333	351	366	352	379	400	417	7 968	426 4	450 4	469   4	438 4	471 497	7 519
108			114		132	141	119	126	138	147	124	132	145	154	130	139	152 1	161   1	135 14	144 157	7 167

2.7         2.8         2.9         3.0 <th></th> <th></th> <th>MBh S/T</th> <th>36.1</th> <th>36.8</th> <th>38.6</th> <th>41.1</th> <th>35.3</th> <th>36.0</th> <th>37.7</th> <th>40.2</th> <th>34.4</th> <th>35.1</th> <th>36.8</th> <th>39.2</th> <th>33.6</th> <th>34.2</th> <th>35.9</th> <th>38.3</th> <th>31.9</th> <th>32.5</th> <th>34.1</th> <th>36.4</th> <th>29.6</th> <th></th> <th>30.1</th> <th></th>			MBh S/T	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	
4350         kW         2.67         2.72         2.80         2.86         2.92         3.01         3.10         3			Σ. Δ ΔΤ	24	24	23	20	24	24	23	20	23	24	23	20	23	23	23	20	22	22	23	20	20		21	21 21
HiPR 555 274 289 302 286 308 325 339 325 350 369 385 370 398 421 445 416 418 453 467 498 473 416 R.		1350	× ×	2.67	2.72	2.80	2.89	2.86	2.92	3.01	3.10	3.03	3.10	3.19	3.29	3.18	3.25	3.35	3.46	3.31	3.38	3.49	3.60	3.42	,	3.50	,
Hipry S55 274 289 302 86 308 325 339 325 350 369 385 370 388 421 439 421 439 416 478 473  LOPR 114 121 132 140 120 128 139 148 125 133 145 154 131 139 152 162 137 146 159  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 31.0 39.1  LOPR 114 121 132 140 120 128 139 148 12.8 14.1 35.7 38.1 32.6 33.3 34.8 37.2 31.0 31.0 39.1  LOPR 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 31.0 39.1  LOPR MBH 35.1 35.7 37.4 39.9 34.3 34.9 36.9 1.0 0.97 0.87 0.71 1.0 0.90 0.97 0.73 1.0 0.90 0.73 1.0 0.94 0.94 0.94 0.94 0.95 0.94 0.88 0.99 0.99 3.08 3.01 3.07 3.1 3.2 3.3 3.4 3.3 3.4 3.2 3.3 3.4 3.3 3.4 3.4 3.4 3.4 3.4 3.4 3.4			Amps	11.4	11.6	11.9	12.3	12.1	12.4	12.7	13.1	13.0	13.3	13.7	14.1	13.8	14.1	14.5	14.9	14.5	14.8	15.3	15.8	15.3	H	9.9	
LOPR         114         121         132         140         120         138         148         125         134         145         154         131         132         140         120         123         146         155         134         145         154         155         146         159         146         159         146         150         140         150 <th></th> <th></th> <td>Hi PR</td> <td>255</td> <td>274</td> <td>289</td> <td>302</td> <td>286</td> <td>308</td> <td>325</td> <td>339</td> <td>325</td> <td>350</td> <td>369</td> <td>385</td> <td>370</td> <td>398</td> <td>421</td> <td>439</td> <td>416</td> <td>448</td> <td>473</td> <td>494</td> <td>460</td> <td>49</td> <td></td> <td></td>			Hi PR	255	274	289	302	286	308	325	339	325	350	369	385	370	398	421	439	416	448	473	494	460	49		
4.84         35.1         35.7         35.7         35.7         38.1         35.7         38.1         35.7         34.8         37.2         34.9         30.9 <th< td=""><th></th><th></th><td>Lo PR</td><td>114</td><td>121</td><td>132</td><td>140</td><td>120</td><td>128</td><td>139</td><td>148</td><td>125</td><td>133</td><td>145</td><td>154</td><td>131</td><td>139</td><td>152</td><td>162</td><td>137</td><td>146</td><td>159</td><td>170</td><td>142</td><td>151</td><td></td><td>165</td></th<>			Lo PR	114	121	132	140	120	128	139	148	125	133	145	154	131	139	152	162	137	146	159	170	142	151		165
4. MBh         2.5         2.4         2.1         2.4         2.4         2.4         2.1         2.4         2.4         2.4         2.4         2.1         2.4         2.4         2.4         2.4         2.1         2.4         2.1         2.4         2.1         2.2         2.4         2.1         2.4         2.1         2.2         2.2         2.1         2.4<			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		9.08
4 Mb         5.5         2.4         2.0         2.5         2.4         2.1         2.5         2.4         2.1         2.5         2.4         2.1         2.5         2.4         2.1         2.5         2.4         2.1         2.5         2.4         2.1         2.5         2.4         2.1         2.5         2.4         2.1         2.5         2.4         2.1         2.5         2.4         2.5         2.4         2.7         3.0 <th></th> <th></th> <td>T/S</td> <td>0.94</td> <td>0.91</td> <td>0.82</td> <td>0.67</td> <td>0.98</td> <td>0.94</td> <td>0.85</td> <td>69.0</td> <td>1.00</td> <td>0.97</td> <td>0.87</td> <td>0.71</td> <td>1.00</td> <td>1.00</td> <td>0.90</td> <td>0.73</td> <td>1.00</td> <td>1.00</td> <td>0.94</td> <td>0.76</td> <td>1.00</td> <td>1.00</td> <td>0</td> <td>94</td>			T/S	0.94	0.91	0.82	0.67	0.98	0.94	0.85	69.0	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
4200         kW         2.65         2.70         2.78         2.84         2.90         3.08         3.01         3.07         3.17         3.27         3.15         3.23         3.33         3.43         3.36         3.36         3.46         3.07         3.17         3.17         3.17         3.17         3.17         3.17         3.17         3.17         3.17         3.17         4.14         4.44         4.14         4.14         4.14         4.14         4.14         4.14         4.14         4.14         4.17         4.14         4.17         4			ΔT	25	25	24	20	56	25	24	21	26	25	24	21	25	25	24	21	24	24	24	21	22	22	22	
Amps         11.3         11.5         11.8         12.2         12.0         12.3         12.6         13.0         12.9         13.5         14.0         14.0         14.4         14.4         14.4         14.7         15.2           Hi PR         252         271         287         289         283         322         335         322         346         366         381         367         394         417         434         469         469           Lo PR         112         120         131         139         119         126         138         143         153         130         138         151         160         136         417         444         469           MBh         32.4         33.6         36.9	82	1200	κ	2.65	2.70	2.78	2.87	2.84	2.90	2.99	3.08	3.01	3.07	3.17	3.27	3.16	3.23	3.33	3.43	3.29	3.36	3.46	3.57	3.40	3.47	3.5	∞
HiPR 552 271 287 289 283 305 322 335 322 346 366 381 367 394 417 434 412 434 412 469 469 10 PR 112 120 131 139 119 126 138 147 123 131 143 153 130 138 151 160 136 136 145 158 158 150 188 13.			Amps	11.3	11.5	11.8	12.2	12.0	12.3	12.6	13.0	12.9	13.2	13.5	14.0	13.7	14.0	14.4	14.8	14.4	14.7	15.2	15.7	15.2	15.5	16.0	0
LO PR         112         120         131         139         149         125         134         143         153         143         143         143         153         136         136         145         158         150         136         145         158         159         150         136         145         158         151         150         136         145         158         158         150<			Hi PR	252	271	287	299	283	305	322	335	322	346	366	381	367	394	417	434	412	444	469	489	456	490	518	
MBh         32.4         33.0         34.6         36.9         31.8         36.0         30.9         31.5         32.9         35.1         30.1         30.7         32.1         34.3         28.6         29.2         30.5           S/T         0.91         0.88         0.79         0.64         0.91         0.82         0.67         0.93         0.84         0.68         1.00         0.96         0.87         0.71         1.00         1.00         0.90         0.87         0.71         1.00         1.00         0.90         0.87         0.71         1.00         1.00         1.00         0.90         0.87         0.71         1.00         1.00         0.90         0.87         0.71         1.00         1.00         0.90         0.80         0.80         0.9			Lo PR	112	120	131	139	119	126	138	147	123	131	143	153	130	138	151	160	136	145	158	168	141	149	163	
δ/T         0.91         0.88         0.79         0.64         0.94         0.91         0.82         0.67         0.93         0.84         0.68         1.00         0.96         0.87         0.71         1.00         1.00         0.90           ΔT         26         25         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         28         28         321         328         333         31         338         338         338         34         44         41         44         44         44         44         44         44         44         44			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	
ΔT         26         25         24         21         26         26         26         26         24         21         26         26         26         24         21         26         26         26         24         21         26         26         24         21         26         26         26         24         21         26         26         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         21         26         24         3.00         3.09         3.19         3.15         3.21         3.22         3.23         3.23         3.28         3.38         3.28         3.38         3.38         3.21         3.28         3.39         3.19         14.4			S/T	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.67	0.97	0.93	0.84	0.68	1.00	96.0	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.9	_
kW         2.59         2.64         2.72         2.80         2.78         2.83         2.92         3.01         3.09         3.09         3.19         3.15         3.25         3.31         3.28         3.38         3.38         3.38         3.31         3.28         3.38         3.38         3.38         3.38         3.21         3.28         3.38         3.38         3.39         3.11         3.11         11.3         11.3         12.7         12.3         12.7         12.9         13.2         13.7         13.3         13.6         14.0         14.5         14.1         14.4         14.8           HIPR         245         263         274         295         312         325         370         356         383         404         421         400         430         455           LO PR         109         116         127         139         148         126         134         146         156         132         140         153			ΔT	56	25	24	21	56	56	24	21	56	26	24	21	56	56	24	21	25	56	24	21	23	24	23	
11.0 11.2 11.5 11.9 11.8 12.0 12.3 12.7 12.6 12.9 13.2 13.7 13.3 13.6 14.0 14.5 14.1 14.4 14.8 14.8 245 263 278 290 274 295 312 325 312 336 355 370 356 383 404 421 400 430 455 109 116 127 135 115 123 134 142 120 127 139 148 126 134 146 156 132 140 153		1050	kW	2.59	2.64	2.72	2.80	2.78	2.83	2.92	3.01	2.94	3.00	3.09	3.19	3.08	3.15	3.25	3.35	3.21	3.28	3.38	3.49	3.31	3.39	3.49	6
245         263         278         290         274         295         312         325         312         336         355         370         356         383         404         421         400         430         455           109         116         127         135         141         142         142         127         139         148         126         134         146         156         132         140         153			Amps	11.0	11.2	11.5	11.9	11.8	12.0	12.3	12.7	12.6	12.9	13.2	13.7	13.3	13.6	14.0	14.5	14.1	14.4	14.8	15.3	14.8	15.1	15.6	
109 116 127 135   115 123 134 142   120 127 139 148   126 134 146 156   132 140 153			Hi PR	245	263	278	290	274	295	312	325	312	336	355	370	326	383	404	421	400	430	455	474	442	476	502	
			Lo PR	109	116	127	135	115	123	134	142	120	127	139	148	126	134	146	156	132	140	153	163	136	145	158	

kW = Total system power Amps = outdoor unit amps (comp.+fan)

Shaded area reflects AHRI conditions

## EXPANDED COOLING DATA — GPH1342H41\*\*

				_	-							ŏ	ITDOOR	AMBIE	OUTDOOR AMBIENT TEMPERATURE	PERATU	RE					-			
65ºF 75ºF					75ºF	75ºF	75ºF	J.				85ºF	占			9,	95ºF			105ºF	P			115ºF	<u>.</u>
										I		ENTERI	NG IND	OOR W	ENTERING INDOOR WET BULB TEMPERATURE	TEMPE	RATURE								
59 63	59 63 67 71 59 63 67	63 67 71 59 63 67	67 71 59 63 67	71 59 63 67	59 63 67	63 67	- 62	$\dashv$	71		59	63	67	71	29	63	67	71	59	63	29	71	29	63	29
39.7 41.1 45.1 - 38.8	39.7 41.1 45.1 - 38.8 40.2	41.1 45.1 - 38.8 40.2	45.1 - 38.8 40.2	- 38.8 40.2	40.2	40.2	•	44.0	,	_	37.8	39.2	43.0	,	36.9	38.3	41.9		35.1	36.4	39.8		32.5	33.7	36.9
0.76 0.63 0.44 - 0.79	0.76 0.63 0.44 - 0.79 0.66	0.63 0.44 - 0.79 0.66	0.44 - 0.79 0.66	99.0 62.0	99.0	99.0	_	0.46 -	,	_	0.81	0.67	0.47	1	0.83	0.70	0.48	,	0.87	0.72	0.50		0.87	0.73	0.50
17 15 11 - 18	17 15 11 - 18 15	15 11 - 18 15	11 - 18 15	- 18 15	15	15		12 -	,		18	15	12		18	15	12		18	15	12	,	16	14	11
2.82 2.88 2.96 - 3.02	2.82 2.88 2.96 - 3.02 3.08	2.88 2.96 - 3.02 3.08	2.96 - 3.02 3.08	- 3.02 3.08	3.08	3.08		3.17 -	1		3.20	3.26	3.36		3.35	3.42	3.52		3.48	3.55	3.66	1	3.59	3.67	3.78
12.4 12.6 13.0 - 13.2	12.4 12.6 13.0 - 13.2 13.5	12.6 13.0 - 13.2 13.5	13.0 - 13.2 13.5	- 13.2 13.5	13.5	13.5		13.8 -	,	_	14.2	14.4	14.8	,	15.0	15.3	15.7		15.8	16.1	16.6	_	16.6	16.9	17.4
235 253 267 - 264	235 253 267 - 264 284	253 267 - 264 284	267 - 264 284	- 264 284	284	284		300 -		_	300	323	341	1	342	368	388		384	414	437	_	425	457	483
113 120 132 - 120	113 120 132 - 120 127	120 132 -   120 127	132 -   120 127	- 120 127	127	127		139 -	1	$\neg$	124	132	144	1	131	139	152	٠	137	146	159	-	142	151	164
MBh 38.5 39.9 43.8 - 37.6 39.0 42.7 -	38.5 39.9 43.8 - 37.6 39.0	39.9 43.8 - 37.6 39.0	43.8 - 37.6 39.0	- 37.6 39.0	39.0	39.0		42.7 -			36.7	38.1	41.7		35.8	37.1	40.7		34.1	35.3	38.7	-	31.5	32.7	35.8
0.72 0.61 0.42 - 0.75	0.72 0.61 0.42 - 0.75 0.63	0.61 0.42 - 0.75 0.63	0.42 - 0.75 0.63	- 0.75 0.63	0.63	0.63		0.43 -	1	_	0.77	0.64	0.45	1	0.79	99.0	0.46		0.83	69.0	0.48	_	0.83	69.0	0.48
18 16 12 - 18 16	18 16 12 - 18 16	16 12 -   18 16	12 - 18 16	- 18 16	16	16		12 -	1	_	18	16	12		19	16	12		18	16	12	_	17	15	11
2.80 2.86 2.94 - 3.00	2.80 2.86 2.94 - 3.00 3.06	2.86 2.94 - 3.00 3.06	2.94 - 3.00 3.06	3.00 3.06	3.06	3.06		3.15 -	,		3.17	3.24	3.33	1	3.32	3.39	3.49	,	3.45	3.52	3.63	-	3.57	3.64	3.75
12.3 12.5 12.9 - 13.1	12.3 12.5 12.9 - 13.1 13.4	12.5 12.9 - 13.1 13.4	12.9 - 13.1 13.4	- 13.1 13.4	13.4	13.4		13.7 -	1		14.0	14.3	14.7		14.9	15.2	15.6		15.7	16.0	16.4	1	16.5	16.8	17.3
233 251 265 - 261	233 251 265 - 261 281	251 265 - 261 281	265 - 261 281	- 261 281	281	281		297 -	1	_	297	320	338	1	338	364	385		381	410	433	_	421	453	478
112 119 130 - 118	112 119 130 - 118 126	119 130 - 118 126	130 - 118 126	- 118 126	126	126		138 -	1	$\neg$	123	131	143		129	138	150		136	144	157	1	140	149	163
35.6 36.9 40.4 - 34.7	35.6 36.9 40.4 - 34.7 36.0	36.9 40.4 - 34.7 36.0	40.4 - 34.7 36.0	- 34.7 36.0	36.0	36.0		39.4 -	1		33.9	35.1	38.5	,	33.1	34.3	37.6	,	31.4	32.6	35.7	,	29.1	30.2	33.1
0.70 0.58 0.40 - 0.72 0.60 0	0.70 0.58 0.40 - 0.72 0.60	0.58 0.40 - 0.72 0.60	0.40 - 0.72 0.60	- 0.72 0.60	09.0	09.0		0.42	1		0.74	0.62	0.43	ı	0.77	0.64	0.44		0.80	99.0	0.46	,	0.80	0.67	0.46
18 16 12 - 19	18 16 12 - 19 16	16 12 - 19 16	12 - 19 16	- 19 16	16	16		12 -	1		19	16	12		19	16	12		19	16	12	,	17	15	11
2.74 2.80 2.88 - 2.93	2.74 2.80 2.88 - 2.93 2.99	2.80 2.88 - 2.93 2.99	2.88 - 2.93 2.99	- 2.93 2.99	2.99	2.99		3.08	1	_	3.10	3.16	3.26	ı	3.25	3.31	3.41		3.37	3.44	3.55	1	3.48	3.55	3.66
12.0 12.3 12.6 - 12.8	12.0 12.3 12.6 - 12.8 13.1	12.3 12.6 - 12.8 13.1	12.6 - 12.8 13.1	- 12.8 13.1	13.1	13.1		13.4 -	1		13.7	14.0	14.4	,	14.5	14.8	15.2	,	15.3	15.6	16.1	,	16.1	16.4	16.9
226 243 257 - 253	226 243 257 - 253 273	243 257 - 253 273	257 - 253 273	- 253 273	273	273		288 -	1		288	310	327	1	328	353	373		369	397	420	,	408	439	464
109 116 126 - 115 122	109 116 126 - 115	116 126 - 115 122	126 - 115 122	- 115 122	122	122		133 -		$\neg$	119	127	139	۱	125	133	146	٠	131	140	153	'	136	145	158

		MBh	40.4	41.6	45.0	48.3	39.4	40.6	43.9	47.2	38.5	39.6	42.9	46.0	37.5	38.7	41.8	44.9	35.7	36.7	39.7 4	42.7	33.0 3	34.0 36	36.8	39.5
		T/S	0.86	0.77	0.58	0.38	06.0	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.98	).88.0	0.67 0	0.43 (	0.99 0	0.89	0 29.0	0.43
		ΔT	20	19	15	11	20	19	15	11	20	19	15	11	21	19	16	11	20	19	15	11	19	18 1	14	10
	1585	kW	2.85	2.90	2.98	3.07	3.04	3.10	3.20	3.29	3.22	3.29	3.38	3.49	3.38	3.44	3.55	3.66	3.51 3	3.58	3.69 3	3.81	3.62	3.70 3.	3.81	3.93
		Amps	12.5	12.7	13.1	13.5	13.3	13.6	13.9	14.4	14.3	14.6	15.0	15.4	15.1	15.4	15.8	16.4	15.9	16.2	16.7 1	17.3	1.21	17.1	17.6	18.2
		Hi PR	238	256	270	282	267	287	303	316	303	326	344	359	345	372	392	409	388	418 ,	441 4	460 /	429 4	462 4	488 5	209
		Lo PR	114	122	133	141	121	129	140	149	126	134	146	155	132	140	153	163	138	147	161 1	171	143 1	152 1	166 1	177
		MBh	39.2	40.3	43.7	46.9	38.3	39.4	42.7	45.8	37.4	38.5	41.6	44.7	36.5	37.5	40.6	43.6	34.6	35.7	38.6 4	41.4	32.1 3	33.0 3	35.7 3	38.4
		S/T	0.82	0.74	0.56	0.36	0.85	92.0	0.58	0.37	0.88	0.78	0.59	0.38	0.90	0.81	0.61	_	_		~	_	0.95 0	0.85 0.	_	.41
		ΔT	21	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	21	20	16	11	20	18 1	15	10
75	1410	Κ	2.82	2.88	2.96	3.05	3.02	3.08	3.17	3.27	3.20	3.26	3.36	3.46	3.35	3.42	3.52	3.63	3.48	3.55	3.66 3	_	3.59 3	3.67 3.	3.78	06:
		Amps	12.4	12.6	13.0	13.4	13.2	13.5	13.8	14.3	14.2	14.4	14.8	15.3	15.0	15.3	15.7	16.2	15.8 1	16.1	16.6 1	17.1	16.6	16.9 17	17.4 18	18.0
		Hi PR	235	253	267	279	264	284	300	313	300	323	341	356	342	368	388	405	385 4	414 ,	437 4	456 '	425 4	457 4	483 5	204
		Lo PR	113	120	132	140	120	127	139	148	124	132	144	154	131	139	152	162	137		159 1	169	142 1	151 1	164 1	175
		MBh	36.2	37.2	40.3	43.3	35.3	36.4	39.4	42.3	34.5	35.5	38.4	41.2	33.6	34.6	37.5	40.2	32.0	32.9	35.6 3	38.2   2	29.6	30.5 33	33.0 3	5.4
		S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.81 (		_	0.91 0	0.82 0.	-	.40
		ΔT	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	20	18 1	15	10
	1236	k	2.76	2.82	2.90	2.98	2.96	3.01	3.10	3.19	3.12	3.19	3.28	3.38	3.27	3.34	3.44	3.55	3.40 3		3.58 3	_	3.51 3	3.58 3.	3.69 3	3.81
		Amps	12.1	12.4	12.7	13.1	12.9	13.2	13.5	13.9	13.8	14.1	14.5	15.0	14.6	14.9	15.3	15.8	15.4	15.7	16.2 1	16.7	16.2	16.5 17	17.0 1	7.6
		Hi PR	228	245	259	270	256	275	291	303	291	313	331	345	332	357	377	393	373 4	401 ,	424 4	442 ,	412 4	444 4	468 4	188
		Lo PR	110	117	128	136	116	123	135	144	121	128	140	149	127	135	147	157	133	141	154 1	164	137 1	146 1	160 1	170
IDB: Ent	ering Ind	IDB: Entering Indoor Dry Bulb Temperature	ulb Temp	erature							0,	shaded a	rea refle	cts ACC/	Shaded area reflects ACCA (TVA) conditions	unditions							kW	kW = Total system power	ystem p	ower
High an	d low pre	High and low pressures are measured at the liquid and suction service valv	e measui	ed at the	liquid ar	nd suctio	n service	valves.													,	Amps = (	Amps = outdoor unit amps (comp.+fan)	init amps	(comp.	.+fan)

# EXPANDED COOLING DATA — GPH1342H41\*\* (CONT.)

B AIRFLOW  NB  S/  S/	-								-			  -	-				-		107		_				
	_		65	65ºF	٦		75	75ºF			85≗F	<u>.</u>			95≗F	ய	$\exists$		105ºF	_	1		115ºF	L	
IDB AIRFL											ENTERIN	JG INDC	OR WE	ENTERING INDOOR WET BULB TEMPERATURE	EMPER,	<b>ATURE</b>									
	LOW	29	63	29	71	29	63	67	71	29	63	29	71	29	63	29	71	29	63	29	71	29	63	29	71
	MBh	41.1	42.0	44.8	47.9	40.1	41.0	43.8	46.8	39.2	40.0	42.8	45.7	38.2	39.0	41.7	44.6	36.3	37.1	39.6	42.4	33.6	34.4	36.7	39.2
	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	23	22	19	15	23	22	19	15	23	22	19	15	22	23	19	15	21	22	19	15	20	20	18	14
1585	Κ	2.87	2.92	3.01	3.09	3.07	3.13	3.22	3.32	3.24	3.31	3.41	3.52	3.40	3.47	3.58	3.69	3.54	3.61	3.72	3.84	3.65	3.73	3.84	3.96
	Amps	12.6	12.8	13.2	13.6	13.4	13.7	14.1	14.5	14.4	14.7	15.1	15.6	15.2	15.5	16.0	16.5	16.0	16.4	16.8	17.4	6.91	17.2	17.7	18.3
	Hi PR	240	258	273	284	569	290	306	319	306	329	348	363	349	375	396	413	392	422	446	465	433	466	493	514
	Lo PR	116	123	134	143	122	130	142	151	127	135	147	157	133	142	155	165	140	149	162	173	144	154	168	179
	MBh	39.9	40.8	43.5	46.5	39.0	39.8	42.5	45.5	38.0	38.9	41.5	44.4	37.1	37.9	40.5	43.3	35.2	36.0	38.5	41.1	32.6	33.4	35.6	38.1
	S/T	06.0	0.85	69.0	0.52	0.94	0.88	0.71	0.53	96.0	0.90	0.73	0.55	0.99	0.93	92.0	0.57	1.00	96.0	0.79	0.59	1.00	0.97	0.79	0.59
	ΔT	23	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	21	21	18	15
80 1410	Κ	2.85	2.90	2.98	3.07	3.04	3.10	3.20	3.29	3.22	3.29	3.38	3.49	3.38	3.45	3.55	3.66	3.51	3.58	3.69	3.81	3.62	3.70	3.81	3.93
	Amps	12.5	12.7	13.1	13.5	13.3	13.6	14.0	14.4	14.3	14.6	15.0	15.4	15.1	15.4	15.8	16.4	15.9	16.2	16.7	17.3	16.7	17.1	17.6	18.2
	Hi PR	238	256	270	282	267	287	303	316	303	326	344	359	345	372	392	409	388	418	441	460	429	462	488	509
	Lo PR	114	122	133	142	121	129	140	150	126	134	146	155	132	140	153	163	138	147	161	171	143	152	166	177
	MBh	36.8	37.6	40.2	43.0	36.0	36.7	39.3	42.0	35.1	35.9	38.3	41.0	34.2	35.0	37.4	40.0	32.5	33.2	35.5	38.0	30.1	30.8	32.9	35.2
	S/T	0.87	0.82	99.0	0.50	06.0	0.85	0.69	0.52	0.93	0.87	0.71	0.53	96.0	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.94	92.0	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
1236	Κ	2.78	2.84	2.92	3.00	2.98	3.04	3.12	3.22	3.15	3.21	3.31	3.41	3.30	3.37	3.47	3.57	3.43	3.50	3.60	3.72	3.54	3.61	3.72	3.84
	Amps	12.2	12.5	12.8	13.2	13.0	13.3	13.6	14.1	13.9	14.2	14.6	15.1	14.7	15.0	15.5	16.0	15.5	15.9	16.3	16.8	16.3	16.7	17.2	17.7
	Hi PR	230	248	262	273	259	278	294	306	294	316	334	349	335	360	381	397	377	405	428	447	416	448	473	493
	Lo PR	111	118	129	137	117	125	136	145	122	130	142	151	128	136	149	158	134	143	156	166	139	148	161	172

1586   KW   289   C-946   C-946   C-946   C-946   C-947   C-949   C-				41.8	42.6	44.6	47.6	40.8	41.6	43.6	46.5	39.9	40.6	42.5	45.4	38.9	39.6	41.5	44.3		37.6	39.4		34.2	34.9	36.5	39.
Mail	-		S/T	0.99	96.0	98.0	0.70	1.00	0.99	06.0	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.98	_	1.00	1.00	0.99	0.8
Half Rolling R			ΔT	24	24	22	19	24	24	23	50	23	24	23	20	23	23	23	70	21	22	23	_	20	20	21	18
HIND RAME 12, 12, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13			ΚW	2.89	2.94	3.03	3.12	3.09	3.15	3.24	3.34	3.27	3.34	3.44	3.54	3.43	3.50	3.61	3.72	3.56	3.64	3.75		3.68	3.76	3.87	4.0
HIPR 242 261 275 287 287 283 309 322 309 333 351 351 367 352 40 40 41 41 41 41 41 41 41 41 41 41 41 41 41		_		12.7	12.9	13.3	13.7	13.5	13.8	14.2	14.6	14.5	14.8	15.2	15.7	15.3	15.6	16.1	16.6	16.2	16.5	17.0		17.0	17.4	17.9	18.
MBH   40.6   41.4   43.3   46.2   39.6   40.4   42.3   45.1   38.7   38.4   41.3   44.1   37.7   38.5   40.3   43.6   43.6   43.6   43.8   40.8   43.8   4		_		242	261	275	287	272	293	309	322	309	333	351	367	352	379	400	417	396	426	450		438	471	497	516
<ul> <li>MBH</li> <li>40.6</li> <li>41.4</li> <li>43.3</li> <li>46.5</li> <li>46.6</li> <li>41.4</li> <li>43.4</li> <li>40.6</li> <li>41.4</li> <li>42.6</li> <li>41.4</li> <li>42.6</li> <li>41.4</li> <li>42.6</li> <li>41.6</li> <li>40.6</li> <li>41.6</li> <li></li></ul>		_		117	124	136	144	123	131	143	153	128	136	149	159	135	143	156	166	141	150	164	_	146	155	169	18(
447         55         55         6.95         0.95			_	40.6	41.4	43.3	46.2	39.6	40.4	42.3	45.1	38.7	39.4	41.3	44.1	37.7	38.5	40.3	43.0	35.9	36.6	38.3	_	33.2	33.9	35.5	37.
<ul> <li>440</li> <li>440</li></ul>				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	_	1.00	1.00	0.95	0.7
440         kW         2.82         3.04         3.05         3.04         3.35         3.24         3.51         3.40         3.47         3.69         3.69         3.59         3.60         3.07         3.12         3.22         3.24         3.51         3.61         3.65         3.69         3.69         3.69         3.69         3.69         3.69         3.69         3.60         3.09         3.00         3.				25	25	23	20	25	25	24	20	25	25	24	20	25	25	24	21	23	24	23		22	22	22	19
Amps         12.6         12.8         13.2         13.6         13.4         13.7         14.1         14.5         14.7         15.1         15.6         15.6         16.0         16.9         16.9         16.9         16.9         16.9         16.9         16.9         17.9         14.7         15.1         15.6         15.6         16.9         16.9         16.9         18.4         14.7         14.7         15.1         15.9         15.9         14.9         16.9         14.9         16.9         18.9         14.9         18.9         14.9         16.9         17.9         14.9         16.9         17.9         16.9         17.9         18.9 <t< td=""><th></th><th></th><td></td><td>2.87</td><td>2.92</td><td>3.01</td><td>3.09</td><td>3.07</td><td>3.13</td><td>3.22</td><td>3.32</td><td>3.24</td><td>3.31</td><td>3.41</td><td>3.52</td><td>3.40</td><td>3.47</td><td>3.58</td><td>3.69</td><td>3.54</td><td>3.61</td><td>3.72</td><td></td><td>3.65</td><td>3.73</td><td>3.84</td><td>3.9</td></t<>				2.87	2.92	3.01	3.09	3.07	3.13	3.22	3.32	3.24	3.31	3.41	3.52	3.40	3.47	3.58	3.69	3.54	3.61	3.72		3.65	3.73	3.84	3.9
HiPR 240 258 273 284 699 306 309 306 319 306 329 348 363 349 345 413 395 413 395 446 465 446 465 449 465 493 466 493 499 493 413 122 130 142 131 124 125 132 132 147 157 135 147 157 135 142 155 159 149 149 149 149 149 149 149 149 149 14		_		12.6	12.8	13.2	13.6	13.4	13.7	14.1	14.5	14.4	14.7	15.1	15.6	15.2	15.5	16.0	16.5	16.0	16.4	16.8	_	16.9	17.2	17.7	18.
MBh         37.5         38.2         4.0         6.5         6.2         1.2         1.3         1.2         1.5<		_		240	258	273	284	269	290	306	319	306	329	348	363	349	375	396	413	392	422	446		433	466	493	517
MBH 37.5 38.2 40.0 42.7 36.6 37.3 39.1 41.7 35.7 36.4 38.1 40.7 36.4 38.1 40.7 34.8 35.5 37.2 39.7 33.7 35.3 37.7 35.3 37.7 36.3 32.7 32.3 37.7 36.5 37.8 32.3 32.7 37.8 37.8 37.8 37.8 37.8 37.8 37.8 37		_		116	123	134	143	122	130	142	151	127	135	147	157	133	142	155	165	140	149	162	—	144	154	168	17
AT C 5.8 C			_	37.5	38.2	40.0	42.7	36.6	37.3	39.1	41.7	35.7	36.4	38.1	40.7	34.8	35.5	37.2	39.7	33.1	33.7	35.3	_	30.7	31.3	32.7	34.
AT 25 25 25 24 20 3.08 3.00 3.06 3.15 3.24 3.1 3.24 3.1 3.23 3.33 3.43 3.35 3.43 3.35 3.49 3.60 3.60 3.85 3.75 3.63 3.75 3.75 3.25 3.63 3.75 3.75 3.25 3.25 3.83 3.84 3.85 3.89 3.49 3.60 3.60 3.85 3.75 3.83 3.75 3.85 3.89 3.89 3.89 3.89 3.89 3.89 3.89 3.89				0.91	0.88	0.80	0.65	0.95	0.91	0.82	0.67	0.97	0.94	0.85	69.0	1.00	0.97	0.87	0.71	1.00	1.00	0.91		1.00	1.00	0.91	0.7
kW2.802.862.943.033.003.063.153.243.173.233.433.433.493.493.693.493.503.653.553.563.643.753.593.493.693.493.603.643.753.633.753.643.753.643.753.643.843.693.493.603.643.814.014.614.704.624.704.624.704.704.624.70				25	25	24	20	56	25	24	21	56	25	24	21	56	56	24	21	25	25	24	_	23	23	22	19
12.3     12.5     12.9     13.3     13.1     13.4     13.7     14.0     14.3     14.7     15.2     14.9     15.2     15.6     16.1     15.7     16.0     16.4     17.0     16.5     16.8     17.3       233     250     264     276     261     281     297     310     297     320     337     352     338     364     384     401     381     410     432     451     470     478       112     119     130     139     118     126     133     131     143     152     129     138     150     169     130     169     140     149     163				2.80	2.86	2.94	3.03	3.00	3.06	3.15	3.24	3.17	3.23	3.33	3.43	3.32	3.39	3.49	3.60	3.45	3.52	3.63		3.56	3.64	3.75	3.8
233         250         264         276         261         281         297         310         297         320         337         352         338         364         384         401         381         410         432         452         478           112         119         130         139         118         126         133         143         151         143         152         129         138         150         160         135         144         157         168         140         149         163		_		12.3	12.5	12.9	13.3	13.1	13.4	13.7	14.2	14.0	14.3	14.7	15.2	14.9	15.2	15.6	16.1	15.7	16.0	16.4	_	16.5	16.8	17.3	17.
112         119         130         139         118         126         133         131         143         152         129         138         150         160         135         144         157         168         140         149         163		_		233	250	264	276	261	281	297	310	297	320	337	352	338	364	384	401	381	410	432	—	420	452	478	498
		_		112	119	130	139	118	126	138	146	123	131	143	152	129	138	150	160	135	144	157	_	140	149	163	173

kW = Total system power Amps = outdoor unit amps (comp.+fan)

Shaded area reflects AHRI conditions

# Expanded Cooling Data — GPH1348H41\*\*

											O	<b>UTD00</b>	R AMB	<b>IENT TE</b>	<b>OUTDOOR AMBIENT TEMPERATURE</b>	URE									
			9	65ºF		Ц		75ºF			∞i	85ºF			J1	95≗F			10	105ºF			115ºF	∃ō!	
											ENTER	ING INE	DOOR V	VET BUL	B TEMP	ENTERING INDOOR WET BULB TEMPERATURE	,,,								
. 11	AIRFLOW	59	63	29	71	29	63	29	71	59	63	67	71	59	63	67	71	59	63	29	71	59	63	67	71
	MBh	45.1	46.7	51.2	٠	44.0		5 50.0		43.0	44.5	48.8	1	41.9	43.5	47.6	1	39.8	41.3	45.2	-	36.9	38.2	41.9	
	S/T	0.78	0.65	0.45	٠	0.8		7 0.47	1	0.83	0.69	0.48	1	0.85	5 0.71	0.49	1	0.89	0.74	0.51	_	0.89	0.75	0.52	٠
	ΔT	18	16	12	•	18		12	1	18	16	12	1	18	16	12	1	18	16	12	,	17	15	11	•
	Ϋ́	3.09	3.15	3.24	1	3.3.		7 3.47	1	3.50	3.57	3.67	1	3.66	3.74	3.85	1	3.81	3.88	4.00	_	3.93	4.01	4.13	•
_	Amps	13.6	13.8	14.2	٠	14.5		7 15.1	1	15.5	15.8	16.2	1	16.4	16.7	17.2	1	17.2	17.6	18.1	'	18.1	18.5	19.0	٠
	Hi PR	228	245	259	•	256		290	1	291	313	330	1	331	356	376	1	372	401	423	'	411	443	468	•
-	Lo PR	109	116	127	٠	116		134	1	120	128	139	1	126	134	146	1	132	141	154	-	137	145	159	٠
_	MBh	43.8	45.4	49.7		42.7	7 44.3	3 48.5		41.7	43.2	47.4		40.7	7 42.2	46.2		38.7	40.1	43.9	-	35.8	37.1	40.7	
_	S/T	0.74	0.62	0.43	•	0.7		1 0.45	1	0.79	99.0	0.46	1	0.81	1 0.68	0.47	1	0.85	0.71	0.49	'	0.85	0.71	0.49	•
_	ΔT	19	16	12	•	19		12	1	19	16	12	1	19	16	13	1	19	16	12	_	18	15	12	•
	Κ	3.07	3.13	3.22	•	3.28			1	3.47	3.54	3.64	1	3.64	1 3.71	3.82	1	3.78	3.85	3.97	,	3.90	3.98	4.10	•
	Amps	13.5	13.7	14.1	•	14.4		5 15.0	1	15.4	15.7	16.1	1	16.2	16.6	17.0	1	17.1	17.5	18.0	,	18.0	18.3	18.9	•
	Hi PR	225	243	256	1	253		287	1	288	310	327	1	328	353	372	1	369	397	419	1	407	438	463	1
-	Lo PR	108	115	126	'	114		133	1	119	126	138	1	125	133	145	1	131	139	152	-	135	144	157	
-	MBh	40.4	41.9	45.9	٠	39.		44.8		38.5	39.9	43.7		37.6	38.9	42.7	٠	35.7	37.0	40.5	-	33.1	34.3	37.5	
	S/T	0.72	09.0	0.41	•	0.7		2 0.43	1	0.76	0.64	0.44	1	0.79	99.0 6	0.45	1	0.82	0.68	0.47	,	0.82	0.69	0.48	•
	ΔT	19	16	12	1	19		13	1	19	17	13	1	19	17	13	1	19	17	13	1	18	15	12	1
	×	3.01	3.06	3.15	1	3.2		7 3.37	ı	3.39	3.46	3.56	1	3.55	3.62	3.73	1	3.69	3.76	3.88	1	3.81	3.89	4.00	1
	Amps	13.2	13.4	13.8	•	14.(		3 14.7	ı	15.0	15.3	15.7	1	15.9	16.2	16.6	1	16.7	17.1	17.5	1	17.5	17.9	18.4	1
_	Hi PR	219	235	249	•	245		279	1	279	300	317	1	318		361	1	358	382	406	,	395	425	449	1
_	Lo PR	105	112	122	1	111		129	1	115	123	134	1	121	129	141	1	127	135	147	-	131	140	153	٠

		MBh	45.8	47.2	51.1	54.8	44.8	46.1	49.9	53.6	43.7	45.0	48.7	52.3	42.6	43.9	47.5	51.0	40.5	41.7	45.1	48.5	37.5	38.6 4	11.8	44.9
		S/T	0.88	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	99.0	0.42	1.00	06.0	0.68	0.44	1.00	0.91	69.0	0.44
		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
	1800	ΚW	3.12	3.18	3.27	3.36	3.33	3.40	3.50	3.60	3.52	3.59	3.70	3.81	3.69	3.77	3.88	4.00	3.84	3.91	4.03	4.16	3.96	4.04	4.17	4.30
		Amps	13.7	13.9	14.3	14.7	14.6	14.9	15.3	15.7	15.6	15.9	16.4	16.9	16.5	16.8	17.3	17.9	17.4	17.7	18.2	18.8	18.3	18.6	19.5	19.8
		Hi PR	230	248	261	273	258	278	293	306	294	316	334	348	334	360	380	396	376	405	427	446	416	447	472	493
		Lo PR	110	118	128	137	117	124	136	144	121	129	141	150	127	136	148	158	134	142	155	165	138	147	091	171
		MBh	44.5	45.8	49.6	53.2	43.5	44.8	48.4	52.0	42.4	43.7	47.3	50.8	41.4	42.6	46.1	49.5	39.3	40.5	43.8	47.0	36.4	37.5 4	40.6	43.6
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	06.0	0.80	0.61	0.39	0.93	0.83	0.63	0.40	96.0	98.0	0.65	0.42	0.97	0.87 (	99.0	0.42
		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
75	1600	ΚW	3.09	3.15	3.24	3.34	3.31	3.37	3.47	3.57	3.50	3.57	3.67	3.78	3.66	3.74	3.85	3.97	3.81	3.88	4.00	4.13	3.93	4.01 4	4.13	4.26
		Amps	13.6	13.8	14.2	14.6	14.5	14.7	15.1	15.6	15.5	15.8	16.2	16.7	16.4	16.7	17.2	17.7	17.2	17.6	18.1	18.7	18.1	18.5	19.0	19.6
		Hi PR	228	245	259	270	256	275	290	303	291	313	330	345	331	356	376	392	372	401	423	441	412	443 ,	468	488
		Lo PR	109	116	127	135	116	123	134	143	120	128	139	149	126	134	147	156	132	141	154	164	137	145	159	169
		MBh	41.1	42.3	45.8	49.1	40.1	41.3	44.7	48.0	39.2	40.3	43.7	46.8	38.2	39.3	42.6	45.7	36.3	37.4	40.5	43.4	33.6	34.6	37.5	40.2
		S/T	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.59	0.38	0.89	0.80	09.0	0.39	0.93	0.83	0.63 (	0.40	0.93	0.84 (	0.63	0.41
		ΔT	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	12	21	19	16	11
	1400	χ	3.03	3.08	3.17	3.26	3.23	3.30	3.39	3.49	3.42	3.49	3.59	3.70	3.58	3.65	3.76	3.88	3.72	3.79	3.91	4.03	3.84	3.92	4.04	4.16
		Amps	13.3	13.5	13.9	14.3	14.1	14.4	14.8	15.3	15.1	15.4	15.9	16.4	16.0	16.3	16.8	17.3	16.8	17.2	17.7	18.2	17.7	18.0	9.81	19.2
		Hi PR	221	238	251	262	248	267	282	294	282	303	320	334	321	346	365	381	361	389	411	428	399	430 '	454	473
		Lo PR	106	113	123	131	112	119	130	139	116	124	135	144	122	130	142	151	128	136	149	159	133	141	154	164
IDB: Ent	ering Ind	IDB: Entering Indoor Dry Bulb Temperature	ulb Temp	erature							5,	shaded a	rea refle	cts ACC	Shaded area reflects ACCA (TVA) conditions	onditions	10						Σ	kW = Total system power	system	power
High and	d low pre	High and low pressures are measured at the liquid and suction service valves.	measur	ed at the	liquid an	nd suction	n service	valves.														Amps =	Amps = outdoor unit amps (comp.+fan)	unit amp	s (comp	o.+fan)

# Expanded Cooling Data — GPH1348H41\*\* (cont.)

												ŏ	TDOOR	AMBIE	OUTDOOR AMBIENT TEMPERATURE	PERATU	#									
				65ºF	占			75	75ºF			85ºF	F.			95ºF	F			105ºF	F.			115ºF	u.	
												ENTERI	NG INDO	OOR WE	ENTERING INDOOR WET BULB TEMPERATURE	TEMPEF	ATURE									
	AIRFLOW	W	29	63	29	71	29	63	67	71	29	63	67	71	29	63	67	71	29	63	29	71	29	63	29	71
	_	MBh	46.7	47.7	50.9	54.4	45.6	46.6	49.7	53.2	44.5	45.5	48.6	51.9	43.4	44.3	47.4	50.6	41.2	42.1	45.0	48.1	38.2	39.0	41.7	44.6
		S/T	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.81	0.61	1.00	1.00	0.84	0.63	1.00	1.00	0.85	0.64
		ΔT	23	22	19	15	23	22	20	16	23	22	20	16	22	23	20	16	21	22	19	15	20	20	18	14
_	1800	k W	3.14	3.20	3.29	3.39	3.36	3.42	3.52	3.63	3.55	3.62	3.73	3.84	3.72	3.80	3.91	4.03	3.86	3.94	4.07	4.19	3.99	4.07	4.20	4.33
	<u></u>	\mps	13.8	14.0	14.4	14.9	14.7	15.0	15.4	15.9	15.7	16.0	16.5	17.0	16.6	17.0	17.4	18.0	17.5	17.9	18.4	19.0	18.4	18.8	19.3	20.0
	_	Hi PR	232	250	264	275	261	281	296	309	297	319	337	351	338	363	384	400	380	409	432	450	420	452	477	498
	_	o PR	112	119	130	138	118	125	137	146	123	130	142	152	129	137	149	159	135	143	157	167	140	148	162	173
	_	MBh	45.3	46.3	49.5	52.9	44.2	45.2	48.3	51.6	43.2	44.1	47.2	50.4	42.1	43.1	46.0	49.2	40.0	40.9	43.7	46.7	37.1	37.9	40.5	43.3
	_	S/T	0.93	0.87	0.71	0.53	96.0	06.0	0.73	0.55	0.98	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	0.99	0.80	09.0	1.00	1.00	0.81	0.61
		ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	24	20	16	23	23	20	16	21	22	19	15
_	1600	××	3.12	3.18	3.27	3.36	3.33	3.40	3.50	3.60	3.52	3.59	3.70	3.81	3.69	3.77	3.88	4.00	3.84	3.91	4.03	4.16	3.96	4.04	4.17	4.30
	_	\mps	13.7	13.9	14.3	14.7	14.6	14.9	15.3	15.7	15.6	15.9	16.4	16.9	16.5	16.8	17.3	17.9	17.4	17.7	18.2	18.8	18.3	18.6	19.2	19.8
		Hi PR	230	248	261	273	258	278	293	306	294	316	334	348	334	360	380	396	376	405	428	446	416	447	472	493
		o PR	110	118	128	137	117	124	136	144	121	129	141	150	127	136	148	158	134	142	155	165	138	147	160	171
	_	MBh	41.8	42.7	45.6	48.8	40.8	41.7	44.6	47.7	39.9	40.7	43.5	46.5	38.9	39.7	42.5	45.4	36.9	37.8	40.3	43.1	34.2	35.0	37.4	39.9
		S/T	0.89	0.84	0.68	0.51	0.92	0.87	0.71	0.53	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.02	0.95	0.78	0.58	1.02	96.0	0.78	0.58
		ΔT	25	23	20	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	16	23	22	19	15
1	1400	κ	3.05	3.11	3.19	3.29	3.26	3.32	3.42	3.52	3.44	3.51	3.62	3.73	3.61	3.68	3.79	3.91	3.75	3.82	3.94	4.06	3.87	3.95	4.07	4.19
	_	\mps	13.4	13.6	14.0	14.4	14.3	14.5	14.9	15.4	15.2	15.6	16.0	16.5	16.1	16.4	16.9	17.4	17.0	17.3	17.8	18.4	17.8	18.2	18.7	19.3
	_	Hi PR	223	240	254	265	250	269	285	297	285	306	324	338	324	349	369	384	365	393	415	433	403	434	458	478
		O PR	107	114	124	133	113	120	132	140	118	125	137	146	124	132	144	153	130	138	150	160	134	143	156	166

483 167 m powe	18.3 16.9 19.3 438 463 483 144 157 167 W = Total system powe	6.5 16.0 16.3 16.9 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19	407	162	16.0 419 152	397	369	388	372	353 133 ons	328 125 I conditi	10.7 10.1 10.0 10.2 11 12.0 12.1 12.0 12.0 1	327 138 rea refle	310 126 shaded a		300 141	287	272	253	267	256	243 115 erature	225 108 ulb Temp	Hi PR Lo PR Dor Dry B	Hi PR 225 243 256 267 253 272 208: Entering Indoor Dry Bulb Temperature
4.23	4.10	3.98	3.90	4.09	3.97	3.85	3.78	3.94	3.82	3.71	3.63	3.75	3.64	3.54	3.47	3.55	3.44	3.35	3.28	3.31	3.22	3.13	3.07	kW	1400
20	23	23	23	21	24	25	25	21	25	56	56	21	25	56	56	21	25	56	56	21	24	56	56	ΔT	
0.76	0.94	1.00	1.00	0.75	0.93	1.00	1.00	0.73	0.89	0.99	1.00	0.70	0.87	96.0	0.99	69.0	0.84	0.94	0.97	99.0	0.81	06.0	0.94	S/T	
39.7	37.2	35.5	34.8	42.8	40.1	38.3	37.6	45.1	42.2	40.3	39.6	46.2	43.3	41.3	40.6	47.3	44.4	42.4	41.5	48.5	45.4	43.4	42.5	MBh	
173	162	148	140	167	157	143	135	159	149	137	129	152	142	130	123	146	137	125	118	138	130	119	112	Lo PR	
498	477	452	420	450	432	409	380	400	384	363	338	351	337	319	297	309	296	281	261	275	264	250	232	Hi PR	
20.0	19.3	18.8	18.4	19.0	18.4	17.9	17.5	18.0	17.4	17.0	16.6	17.0	16.5	16.0	15.7	15.9	15.4	15.0	14.7	14.9	14.4	14.0	13.8	Amps	
4.33	4.20	4.07	3.99	4.19	4.07	3.94	3.86	4.03	3.91	3.80	3.72	3.84	3.73	3.62	3.55	3.63	3.52	3.42	3.36	3.39	3.29	3.20	3.14	kΝ	1600
19	22	22	22	21	24	24	23	21	24	25	25	21	24	56	25	21	24	56	26	21	24	25	26	ΔT	
0.79	0.97	1.00	1.00	0.78	96.0	1.00	1.00	0.75	0.93	1.00	1.00	0.73	0.90	0.99	1.00	0.71	0.88	0.97	1.00	0.69	0.84	0.94	0.97	S/T	
43.0	40.3	38.5	37.7	46.4	43.5	41.5	40.7	48.8	45.8	43.7	42.9	50.1	46.9	44.8	43.9	51.3	48.1	45.9	45.0	52.5	49.2	47.0	46.1	MBh	
174	164	150	141	169	158	145	136	161	151	138	130	153	144	132	124	147	138	127	119	139	131	120	113	Lo PR	
503	482	456	424	455	436	413	384	404	388	367	341	355	340	322	300	312	299	283	263	278	267	253	235	Hi PR	
20.1	19.5	18.9	18.5	19.1	18.5	18.0	17.7	18.1	17.6	17.1	16.7	17.1	16.6	16.2	15.8	16.0	15.5	15.1	14.8	15.0	14.5	14.2	13.9	Amps	
4.37	4.23	4.10	4.02	4.23	4.10	3.98	3.89	4.06	3.94	3.82	3.75	3.87	3.76	3.65	3.58	3.66	3.55	3.45	3.38	3.41	3.31	3.22	3.16	ΚW	1800
19	21	20	20	20	23	22	21	20	23	23	23	20	23	24	23	20	23	24	24	20	23	24	24	ΔT	
0.83	1.00	1.00	1.00	0.82	1.00	1.00	1.00	0.79	0.97	1.00	1.00	0.76	0.94	1.00	1.00	0.74	0.92	1.00	1.00	0.72	0.89	0.98	1.00	S/T	
44.3	41.5	39.6	38.9	47.8	44.8	42.8	42.0	50.3	47.1	45.0	44.2	51.6	48.3	46.1	45.3	52.8	49.5	47.3	46.4	54.1	20.7	48.4	47.5	MBh	

# Expanded Cooling Data — GPH1360H41\*\*

7206			3505	7505	7505		- 1			3 8		AMBIE	OUIDOOR AMBIENI IEMPERALURE	PERAIL	7 E			101	ı			111	
12c0	652F		_		-	154		$\dashv$		452F	ای			2	95ºF			105ºF	-			115ºF	<u>.</u>
			}				-	-	-	ENTERI	NG IND	NOR W	ENTERING INDOOR WET BULB TEMPERATURE	TEMPE	RATURE							Ī	Ī
63 67 71 59	67 71	71	$\dashv$	29		63	29	71	29	63	67	71	29	63	67	71	59	63	29	71	29	63	67
58.4 64.0 - 55.0	64.0 - 55.0	- 55.0			2		62.5	_	53.7	55.7	61.0	,	52.4	54.3	59.5	•	49.8	51.6	56.5	_	46.1	47.8	52.4
0.62 0.43 - 0.77	0.43 - 0.77	- 0.77			0	_	0.45	_	0.79	99.0	0.46	,	0.82	0.68	0.47	•	0.85	0.71	0.49	_	98.0	0.71	0.50
16 12 - 19	12 - 19	- 19			Т	9	12	,	19	16	12	,	19	16	12		19	16	12	,	17	15	11
3.93 4.06 - 4.15	4.06 - 4.15	- 4.15			4.2	•	4.37	_	4.41	4.50	4.65		4.64	4.74	4.89		4.83	4.94	5.10		5.00	5.11	5.28
16.5 17.0 - 17.4	17.0 - 17.4	- 17.4			17.7		18.3	,	18.7	19.1	19.7	,	19.9	20.3	20.9	•	21.0	21.5	22.2	_	22.2	22.7	23.4
250 264 - 261	264 - 261	- 261			281		296	_	297	319	337	,	338	364	384		380	409	432	,	420	452	477
114 124 - 113	124 - 113	- 113			120		131	-	118	125	137	,	124	131	144	,	130	138	150	-	134	143	156
54.7 56.7 62.1 - 53.4 55.4	62.1 - 53.4	- 53.4			55.4		2.09		52.2	54.1	59.2		50.9	52.7	57.8		48.3	50.1	54.9	,	44.8	46.4	50.9
0.59 0.41 - 0.74	0.41 - 0.74	- 0.74			0.62		0.43	_	92.0	0.63	0.44		0.78	0.65	0.45		0.81	0.68	0.47	,	0.82	0.68	0.47
17 13 - 20	13 - 20	- 20			17		13	_	20	17	13		20	17	13		19	17	13		18	16	12
3.90 4.03 - 4.11	4.03 - 4.11	- 4.11			4.20	4	4.34	,	4.37	4.47	4.61	,	4.60	4.70	4.85	1	4.79	4.90	90.5	1	4.96	2.07	5.23
16.4 16.9 -   17.2	16.9 - 17.2	- 17.2			17.6		18.1	_	18.5	19.0	19.5		19.7	20.1	20.7	1	20.8	21.3	22.0	,	22.0	22.5	23.2
248 262 - 258	262 - 258	- 258			278	-	294		294	316	334	·	335	360	380	•	376	405	428	,	416	448	473
113 123 - 112	123 - 112	- 112	- 1	- 1	119		130		116	124	135		122	130	142		128	136	149	1	133	141	154
52.3 57.3 -	57.3 - 49.3	- 49.3			51.1	-,	56.0	_	48.1	49.9	54.7	,	47.0	48.7	53.3	,	44.6	46.2	50.7	,	41.3	42.8	46.9
0.57 0.40 - 0.71	0.40 - 0.71	- 0.71			0.59		0.41	,	0.73	0.61	0.42	,	0.75	0.63	0.44	1	0.78	0.65	0.45	,	0.79	99.0	0.46
17 13 - 20	13 - 20	- 20			17		13	,	20	17	13		20	17	13	1	20	17	13	,	18	16	12
3.81 3.93 - 4.02	3.93 - 4.02	- 4.02			4.10	•	4.23	_	4.27	4.36	4.50		4.48	4.58	4.73	1	4.67	4.77	4.93	1	4.83	4.94	5.10
16.0 16.5 -   16.8	16.5 - 16.8	- 16.8			17.2		17.7	,	18.1	18.5	19.0	,	19.2	19.6	20.2	1	20.3	20.8	21.4	,	21.4	21.9	22.6
240 254 - 251	254 - 251	- 251			270		285	,	285	307	324		325	349	369	1	365	393	415	,	403	434	458
109 120 -   109	001	100			116		126		,	,	,,,		,	,,,,	000		,	,	,,,,		000	1,0	0,7

		MBh	57.3	59.0	63.9	68.5	56.0	57.6	62.4	6.99	54.6	56.3	6.09	65.3	53.3	54.9	59.4	63.8	50.6	52.1	56.4	9.09	7 6.9	48.3 5	52.3	56.1
		S/T	0.85	92.0	0.57	0.37	0.88	0.79	0.59	0.38	06.0	0.81	0.61	0.39	0.93	0.83	0.63	0.40	0.97	98.0	0.65 (	0.42	0.97	0.87	99.0	0.42
		ΔT	21	20	16	11	22	20	16	11	22	20	16	11	22	20	17	11	22	20	16	11	20	19	15	11
	2079	ΚW	3.89	3.97	4.09	4.22	4.18	4.27	4.41	4.55	4.44	4.54	4.69	4.84	4.67	4.78	4.93	5.10	4.87	4.98	5.14	5.32	5.04	5.15 5	5.32	5.50
		Amps	16.3	16.7	17.2	17.7	17.5	17.9	18.4	19.0	18.9	19.3	19.9	20.5	20.0	20.5	21.1	21.8	21.2	21.7	22.3	23.1	22.4	22.9 2	3.6	24.4
		Hi PR	235	253	267	278	264	284	300	312	300	323	341	355	341	367	388	405	384	413	436 4	455	424 ,	457 4	482	203
		Lo PR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167
		MBh	55.6	57.3	62.0	66.5	54.3	55.9	9.09	65.0	53.0	54.6	59.1	63.4	51.8	53.3	57.7	61.9	49.2	50.6	54.8	28.8	45.5 4	46.9	50.8	54.5
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	98.0	0.77	0.58	0.37	0.89	0.79	09.0	_	0.92 (	0.82	0.62 (	0.40	0.93 (	0.83	0.63 (	0.40
		ΔT	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	22	21	17	12	21	19	16	11
75	1850	κW	3.85	3.94	4.06	4.19	4.15	4.24	4.37	4.51	4.41	4.50	4.65	4.80	4.64	4.74	4.89	2.06	4.83 4	4.94	5.10	5.27	5.00	5.11 5	5.28	5.46
		Amps	16.2	16.5	17.0	17.6	17.4	17.7	18.3	18.9	18.7	19.1	19.7	20.4	19.9	20.3	20.9	21.6	21.0	21.5	22.2	22.9	22.2	22.7 2	23.4	24.2
		Hi PR	233	250	264	276	261	281	297	309	297	319	337	352	338	364	384	401	380	409	432 ,	451	420 ,	452 4	477	498
		Lo PR	107	114	124	133	113	120	131	140	118	125	137	146	124	131	144	153	130	138	150	160	134	143	156	166
		MBh	51.3	52.9	57.2	61.4	50.2	51.6	55.9	0.09	49.0	50.4	54.6	58.6	47.8	49.2	53.2	57.1	45.4	46.7	50.6	54.3	42.0 4	43.3 4	46.8	50.3
		S/T	0.78	0.70	0.53	0.34	0.81	0.72	0.55	0.35	0.83	0.74	0.56	0.36	98.0	92.0	0.58	0.37	0.89	0.79 (	0.60	0.39	0.89	0.80	0.61 (	0.39
		ΔT	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	20	16	11
	1621	κW	3.76	3.84	3.96	4.09	4.05	4.13	4.27	4.40	4.30	4.39	4.53	4.68	4.52	4.62	4.77	4.93	4.71 4	4.81	4.97	5.14	4.87	4.98	5.15	5.32
		Amps	15.8	16.1	16.6	17.2	16.9	17.3	17.8	18.4	18.2	18.6	19.2	19.8	19.4	19.8	20.4	21.1	20.5	20.9	21.6	22.3	21.6	22.1 2	22.8	23.6
		Hi PR	226	243	256	267	253	272	288	300	288	310	327	341	328	353	373	389	369	397	419 ,	437	408 ,	439 4	463	483
		Lo PR	104	111	121	129	110	117	128	136	114	121	133	141	120	128	139	148	126	134	146	155	130	138	151	161
IDB: Ent	ering Indo	IDB: Entering Indoor Dry Bulb Temperature	dmaT dlu	erature							,,	Shaded a	ırea refle	cts ACC	Shaded area reflects ACCA (TVA) conditions	nditions							k	kW = Total system power	system <sub>I</sub>	power
High and	a low pre	High and low pressures are measured at the liquid and suction service valv	measur	ed at the	liquid ar	nd suction	n service	valves.														Amps =	Amps = outdoor unit amps (comp.+fan)	unit amp	s (comp	.+fan)

# EXPANDED COOLING DATA — GPH1360H41\*\* (CONT.)

			1									<u>ا</u> برا	-							ا	_				
			50	65ºF			75	75ºF			85º F	<u>.</u>			95ºF	L			105ºF	اب	-		115ºF		
IDB AIRI											ENTERIN	IG INDC	OR WE	ENTERING INDOOR WET BULB TEMPERATURE	EMPER4	TURE									
	AIRFLOW	59	63	67	71	29	63	67	71	29	63	29	71	29	63	29	71	29	63	29	71	26   (	9   69	29	71
	MBh	58.3	59.6	63.7	68.1	57.0	58.2	62.2	66.5	55.6	56.8	60.7	64.9	54.3	55.4	59.2	63.3	51.5	52.7	56.3	60.1 4	47.7 4	48.8 5.	52.1 5	55.7
	T/S	0.93	0.87	0.71	0.53	96.0	06.0	0.74	0.55	1.00	0.93	0.75	0.56	1.00	96.0	0.78	0.58	1.00	1.00	0.81	0.60	.00 1.	.00 00.	0.81 0	0.61
	_ ∆T	24	23	20	16	24	23	20	16	25	23	20	16	24	23	20	16	23	23	20	16	21 2	22 1	19	15
2079	κ	3.92	4.00	4.12	4.26	4.22	4.31	4.44	4.59	4.48	4.58	4.73	4.88	4.71	4.82	4.98	5.14	4.91	5.02	5.19	5.36 5	5.08 5.	.20 5.	5.37 5	5.55
	Amps	16.5	16.8	17.3	17.9	17.6	18.0	18.6	19.2	19.0	19.4	20.0	20.7	20.2	50.6	21.3	22.0	21.4	21.9	22.5 2	23.3 2	22.5 2.	23.1 23	23.8 2	24.6
	Hi PR	237	255	270	281	566	286	303	316	303	326	344	359	345	371	392	409	388	417	441 4	460 4	429 4	461 4	487 5	208
	Lo PR	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163   1	137 1	145 1	159 1	169
	MBh	9.95	57.9	61.8	66.1	55.3	56.5	60.4	64.5	54.0	55.2	58.9	63.0	52.7	53.8	57.5	61.5	50.0	51.1	54.6	58.4   4	46.3 4	47.4 50	50.6 5	54.1
	T/S	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.95	0.77 (	0.58   1	0 00.1	0.95 0.	0.78 0	0.58
	ΔT	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22 2	20	16
80 1850	××	3.89	3.97	4.09	4.22	4.18	4.27	4.41	4.55	4.44	4.54	4.69	4.84	4.68	4.78	4.93	5.10	4.87	4.98	5.14	5.32 5	5.04 5	5.15 5.	5.32 5	5.50
	Amps	16.3	16.7	17.2	17.7	17.5	17.9	18.4	19.0	18.9	19.3	19.9	20.5	20.0	20.5	21.1	21.8	21.2	21.7		23.1   2	22.4 2.	22.9 23	23.6 2	24.4
	Hi PR	235	253	267	278	264	284	300	312	300	323	341	355	341	367	388	405	384	413	437 4	455   4	424 4	457 4	482 5	503
	Lo PR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162   1	135 1	144 1	157 1	167
	MBh	52.3	53.4	57.1	61.0	51.0	52.2	55.7	9.69	49.8	50.9	54.4	58.2	48.6	49.7	53.1	29.2	46.2	47.2	50.4	53.9 4	42.8 4	43.7 40	46.7 4	49.9
	T/S	0.85	0.80	0.65	0.49	0.89	0.83	0.68	0.51	0.91	0.85	69.0	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74 (	0.56   0	0.98	0.92 0.	0.75 0	0.56
	T∆	25	24	21	17	56	25	21	17	56	25	21	17	56	25	22	17	25	24	21	17	24 2	23 2	20	16
1621	ΚW	3.79	3.87	3.99	4.12	4.08	4.17	4.30	4.44	4.34	4.43	4.57	4.72	4.56	4.66	4.81	4.97	4.75	4.85	5.01	5.18 4	4.91 5	5.02 5.	5.19 5	5.36
	Amps	15.9	16.3	16.8	17.3	17.1	17.4	18.0	18.6	18.4	18.8	19.4	20.0	19.5	20.0	20.6	21.3	20.7		21.8 2	22.5   2	21.8 2.	22.3 23	23.0 2	23.8
	Hi PR	228	245	259	270	256	275	291	303	291	313	330	345	331	326	376	393	373	401	423 4	442   4	412 4	443 4	468 4	488
	Lo PR	105	112	122	130	111	118	129	137	115	123	134	143	121	129	141	150	127	135	147	157   1	131 1	140 1	152 1	162

m pow	vW = Total system power vrinit amos (comp. +fan)	kW = To	kW = Total system power	Amp						ions	रा condit	ects AH	Shaded area reflects AHRI conditions	Shaded			.6	ge valve	ion servi	and suct	e liauid	perature red at th	Bulb Terr	IDB: Entering Indoor Dry Bulb Temperature High and low pressures are measured at the liquid and suction service valves.	tering Inc	: Ent
164	154	141	133	159	149	136	128	151	142	130	122	144	135	124	116	139	130	119	112	131	123	113	106	Lo PR		П
493	472	447	416	446	428	405	376	396	380	360	335	348	334	316	294	306	293	278	258	273	262	248	230	Hi PR		
24.0	23.2	22.5	22.0	22.7	22.0	21.3	20.8	21.5	20.7	20.1	19.7	20.2	19.5	19.0	18.5	18.7	18.1	17.6	17.2	17.4	16.9	16.4	16.1	Amps		
5.41	5.23	5.07	4.96	5.23	5.06	4.90	4.79	5.01	4.85	4.70	4.60	4.76	4.61	4.47	4.37	4.48	4.34	4.20	4.11	4.15	4.02	3.90	3.82	Ϋ́	1621	
20	24	25	25	22	25	27	27	22	26	27	28	22	25	27	27	22	25	27	27	22	25	27	27	ΔT		
0.7	0.90	0.99	1.00	0.72	0.89	0.98	1.00	0.69	0.86	0.95	0.98	0.67	0.83	0.92	0.95	0.66	0.81	0.90	0.93	0.63	0.78	0.86	0.90	S/T		
49.6	46.5	44.4	43.5	53.5	50.2	47.9	47.0	56.3	52.8	50.4	49.5	57.7	54.1	51.7	50.7	59.2	55.4	52.9	51.9		56.8		53.2	MBh		
169	159	145	137	163	153	141	132	156	146	134	126	148	139	128	120	143	134	123	116	135	127	116	109	Lo PR		_
208	487	461	429	460	441	417	388	409	392	371	345	359	344	326	303	316	303	286	266	281	270	255	237	Hi PR		
24.(	23.8	23.1	22.5	23.3	22.5	21.9	21.4	22.0	21.3	20.6	20.2	20.7	20.0	19.4	19.0	19.2	18.6	18.0	17.6	17.9	17.3	16.8	16.5	Amps		
5.5	5.37	5.20	5.08	5.36	5.19	5.02	4.91	5.14	4.98	4.82	4.71	4.88	4.73	4.58	4.48	4.59	4.44	4.31	4.22	4.26	4.12	4.00	3.92	××	1850	85
20	23	24	23	22	25	26	25	22	25	27	27	22	25	27	27	22	25	26	27	21	25	26	27	ΔT		
0.75	0.93	1.00	1.00	0.75	0.92	1.00	1.00	0.72	0.89	0.98	1.00	0.70	0.86	0.95	0.99	0.68	0.84	0.93	0.96	99.0	0.81	0.90	0.93	S/T		
53.	50.3	48.1	47.2	58.0	54.4	51.9	50.9	61.0	57.2	54.6	53.6	62.6	58.6	26.0	54.9	64.1	60.1	57.4	56.3	65.6	61.5	58.7	57.6	MBh		
171	160	147	138	165	155	142	133	158	148	135	127	150	141	129	121	144	135	124	117	137	128	117	110	Lo PR		
513	492	466	433	464	445	422	392	413	396	375	348	362	348	329	306	319	306	289	269	284	272	258	240	Hi PR		
24.8	24.0	23.3	22.7	23.5	22.7	22.0	21.6	22.2	21.5	20.8	20.4	20.9	20.2	19.6	19.2	19.3	18.7	18.2	17.8	18.0	17.4	16.9	16.6	Amps		
5.6	5.45	5.24	5.13	5.41	5.23	5.06	4.95	5.18	5.02	4.86	4.75	4.92	4.77	4.62	4.52	4.63	4.48	4.34	4.25	4.29	4.16	4.03	3.95	Α×	2079	
19	22	22	21	21	24	24	23	21	24	25	24	21	24	25	25	21	24	25	56	21	24	25	26	ΔT		
0.79	0.97	1.00	1.00	0.78	0.97	1.00	1.00	0.76	0.93	1.00	1.00	0.73	0.90	1.00	1.00	0.71	0.88	0.97	1.00	0.69	0.85	0.94	0.97	S/T		
55.3	51.9	49.5	48.6	59.7	56.0	53.5	52.4	62.9	58.9	56.3	55.2	64.4	60.4	57.7	9.99	0.99	61.9	59.1	58.0	9.79	63.3	60.5	59.3	MBh		

## AIRFLOW DATA

	_						E.S.P (In	. of H <sub>2</sub> O)			
MODEL	SPEED	'	VOLTS	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
			CFM	680	640	590	555	505	440	340	-
	Low	230	Watts	155	150	145	140	130	120	110	-
GPH13			CFM	895	855	815	755	700	630	545	390
24H41**	Med	230	Watts	230	220	215	205	195	180	170	145
		200	CFM	1,185	1,130	1,070	1,010	930	850	760	650
	High	230	Watts	350	340	325	310	295	280	265	245
		200	CFM	1,150	1,080	1,025	975	925	845	-	-
	Low	230	Watts	340	330	315	305	295	280	-	-
GPH13		200	CFM	1,335	1,275	1,205	1,135	1,075	985	910	845
30H41**	Med	230	Watts	425	415	400	385	370	350	330	310
		200	CFM	1,435	1,355	1,290	1,210	1,130	1,040	960	885
	High	230	Watts	485	465	455	435	415	400	385	370
		200	CFM	1,180	1,125	1,075	1,020	955	875	655	-
	Low	230	Watts	335	325	315	305	295	275	240	-
GPH13		200	CFM	1,350	1,280	1,205	1,130	1,050	985	910	845
36H41**	Med	230	Watts	435	420	405	385	375	350	330	310
	112.1	220	CFM	1,450	1,370	1,290	1,205	1,130	1,040	960	885
	High	230	Watts	495	480	465	440	425	400	385	370
		220	CFM	1,425	1,410	1,355	1,310	1,245	1,170	1,080	-
	Low	230	Watts	450	445	430	420	405	390	370	-
GPH13	N 4 = =	220	CFM	1,620	1,595	1,545	1,485	1,425	1,345	1,250	1,160
42H41**	Med	230	Watts	550	540	525	510	495	475	450	425
	High	220	CFM	1,945	1,935	1,875	1,800	1,730	1,635	1,535	1,440
	High	230	Watts	765	755	735	715	695	670	640	615
	Low	220	CFM	1,425	1,410	1,355	1,310	1,245	1,170	1,080	-
	Low	230	Watts	450	445	430	420	405	390	370	-
GPH13	Mod	230	CFM	1,720	1,660	1,585	1,520	1,460	1,365	1,270	-
48H41**	Med	230	Watts	560	555	540	530	520	490	470	-
	High	230	CFM	2,110	2,060	1,980	1,895	1,795	1,705	1,590	1,500
	riigii	230	Watts	785	780	765	745	720	705	665	625
	Low	230	CFM	1,775	1,635	1,645	1,515	1,510	1,450	1,430	1,400
	Low	230	Watts	395	420	435	445	455	465	470	475
GPH13	Med	230	CFM	1,845	1,790	1,715	1,685	1,590	1,580	1,530	1,500
60H41B*	ivieu	230	Watts	490	505	520	535	550	560	570	575
	⊔iah	230	CFM	2,025	1,900	1,840	1,780	1,725	1,650	1,620	1,580
	High	230	Watts	575	595	620	630	645	655	660	670
	Low	230	CFM	1,750	1,702	1,654	1,606	1,557	1,509	1,461	1,413
	LUW	230	Watts	334	342	349	357	365	373	381	388
GPH13	Med	230	CFM	1,967	1,919	1,871	1,823	1,774	1,726	1,678	1,630
60H41D*	ivieu	230	Watts	482	490	498	506	513	521	529	537
	High	230	CFM	2,106	2,058	2,009	1,961	1,913	1,865	1,817	1,768
	High	230	Watts	577	585	592	600	608	616	624	631

### Notes

- Data shown is dry coil. Wet coil pressure drop is approximately 0.1" H2O, for two-row indoor coil; 0.2" H2O, for three-row indoor coil; and 0.3" H2O, for four-row indoor coil.
- Data shown does not include filter pressure drop, approx. 0.08" H2O.
- ALL MODELS SHOULD RUN NO LESS THAN 350 CFM/TON. USE HIGHER SPEED TAP OR NEXT SIZE LARGER BLOWER ASM. See Repair Parts list.
- Reduce airflow by 2% for 208-volt operation.

## EXPANDED HEATING DATA

### GPH1324H41\*\*

							(	DUTDOO	R AMBIE	NT TEM	PERATUR	E						
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	27.7	26.2	24.6	23.0	22.0	21.3	19.8	18.3	17.4	16.1	14.8	14.0	13.5	12.1	10.7	9.4	8.0	6.5
T/R	29.3	27.7	26.1	24.4	23.3	22.6	21.0	19.3	18.5	17.0	15.7	14.8	14.3	12.8	11.3	9.9	8.4	6.9
kW	2.01	1.97	1.94	1.90	1.88	1.86	1.82	1.78	1.82	1.78	1.74	1.72	1.70	1.66	1.62	1.58	1.54	1.50
Amps	9.6	9.0	8.5	8.1	7.8	7.7	7.3	7.0	6.7	6.5	6.2	6.1	6.0	5.8	5.5	5.2	4.9	4.5
COP	4.02	3.88	3.73	3.55	3.43	3.36	3.18	3.00	2.81	2.65	2.50	2.39	2.32	2.13	1.94	1.73	1.52	1.28
EER	13.7	13.3	12.7	12.1	11.7	11.5	10.9	10.2	9.6	9.1	8.5	8.2	7.9	7.3	6.6	5.9	5.2	4.4
Hi PR	366	351	337	323	315	309	297	285	273	261	251	245	240	231	222	213	205	198
Lo PR	132	122	114	105	99	95	88	78	70	63	55	51	50	42	36	31	27	21

### GPH1330H41\*\*

								DUTDOO	к Амвіє	NT TEMF	PERATUR	E						
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	33.9	32.1	30.2	28.3	27.0	26.2	24.3	22.4	19.8	18.2	16.8	15.9	15.3	13.7	12.1	10.6	9.0	7.4
T/R	29.9	28.3	26.7	24.9	23.8	23.1	21.4	19.8	17.4	16.1	14.8	14.0	13.5	12.1	10.7	9.3	8.0	6.5
kW	2.43	2.39	2.34	2.29	2.27	2.25	2.20	2.16	2.50	2.44	2.38	2.35	2.33	2.27	2.21	2.16	2.10	2.04
Amps	12.1	11.3	10.7	10.1	9.8	9.6	9.2	8.8	8.5	8.1	7.8	7.7	7.6	7.2	6.9	6.5	6.1	5.7
COP	4.08	3.94	3.78	3.61	3.49	3.41	3.23	3.04	2.32	2.19	2.06	1.98	1.92	1.77	1.61	1.44	1.26	1.06
EER	14.0	13.5	12.9	12.3	11.9	11.6	11.0	10.4	7.9	7.5	7.0	6.7	6.6	6.0	5.5	4.9	4.3	3.6
Hi PR	384	368	354	338	331	324	312	299	287	274	263	256	252	242	233	223	215	208
Lo PR	132	122	115	105	99	96	88	78	71	63	55	52	50	42	36	31	27	21

### GPH1336H41\*\*

							(	Оодти	к Амвіє	<b>NT ТЕМ</b> І	PERATUR	E						
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	42.2	40.0	37.6	35.2	33.6	32.6	30.2	27.9	22.4	20.7	19.1	18.0	17.3	15.6	13.8	12.0	10.3	8.4
T/R	32.6	30.9	29.0	27.1	25.9	25.1	23.3	21.5	17.3	16.0	14.7	13.9	13.4	12.0	10.6	9.3	7.9	6.5
kW	2.99	2.94	2.88	2.82	2.79	2.77	2.72	2.66	2.76	2.70	2.64	2.61	2.58	2.52	2.47	2.41	2.35	2.29
Amps	14.8	13.9	13.1	12.5	12.1	11.9	11.3	10.8	10.5	10.1	9.7	9.5	9.4	9.0	8.6	8.2	7.7	7.1
COP	4.13	3.99	3.82	3.64	3.52	3.44	3.26	3.07	2.38	2.24	2.11	2.02	1.96	1.80	1.64	1.46	1.28	1.07
EER	14.1	13.6	13.1	12.5	12.0	11.8	11.1	10.5	8.1	7.7	7.2	6.9	6.7	6.2	5.6	5.0	4.4	3.7
Hi PR	368	353	339	324	317	311	299	287	274	262	252	246	241	232	223	214	206	199
Lo PR	134	125	117	107	101	97	90	80	72	64	57	53	51	43	37	31	27	21

Above information is for nominal CFM and 70 $^{\rm o}$  indoor dry bulb. Instantaneous capacity listed. High pressure is measured at the liquid line access fitting. kW = Total system power

Amps = Unit amps (comp.+ evaporator motor + condenser fan motor)

Low pressure is measured at the compressor suction access fitting.

# Expanded Heating Data (cont.)

### GPH1342H41\*\*

							-	OUTDOO	R AMBIE	NT TEM	PERATUR	E						
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	47.8	45.2	42.6	39.8	38.0	36.8	34.2	31.5	27.4	25.3	23.3	22.0	21.2	19.0	16.9	14.7	12.5	10.3
T/R	31.4	29.7	27.9	26.1	25.0	24.2	22.5	20.7	18.0	16.6	15.3	14.4	13.9	12.5	11.1	9.7	8.2	6.7
kW	3.27	3.21	3.15	3.09	3.06	3.04	2.98	2.92	3.03	2.97	2.90	2.87	2.84	2.78	2.71	2.65	2.59	2.53
Amps	11.9	11.2	10.7	10.2	9.9	9.8	9.4	9.0	8.8	8.5	8.2	8.1	8.0	7.8	7.4	7.1	6.8	6.4
COP	4.27	4.12	3.95	3.76	3.63	3.55	3.36	3.16	2.65	2.50	2.35	2.25	2.18	2.00	1.82	1.62	1.42	1.19
EER	14.6	14.1	13.5	12.9	12.4	12.1	11.5	10.8	9.0	8.5	8.0	7.7	7.5	6.8	6.2	5.5	4.8	4.1
Hi PR	355	341	327	313	306	300	288	277	265	253	243	237	233	224	216	207	199	192
Lo PR	130	121	113	104	98	94	87	77	70	62	55	51	49	41	36	30	26	21

### GPH1348H41\*\*

								DUTDOO	R AMBIE	NT TEME	PERATUR	E						
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	55.9	53.0	49.8	46.6	44.5	43.1	40.1	36.9	32.4	29.9	27.5	26.0	25.0	22.5	19.9	17.4	14.8	12.1
T/R	32.4	30.6	28.8	27.0	25.8	25.0	23.2	21.4	18.7	17.3	15.9	15.0	14.5	13.0	11.5	10.1	8.6	7.0
kW	3.72	3.65	3.58	3.52	3.48	3.45	3.38	3.32	3.40	3.33	3.26	3.22	3.19	3.12	3.05	2.98	2.90	2.83
Amps	19.1	17.9	16.9	16.1	15.6	15.4	14.6	14.0	13.5	13.1	12.6	12.3	12.2	11.7	11.1	10.6	10.0	9.3
COP	4.40	4.24	4.07	3.88	3.74	3.66	3.46	3.26	2.79	2.63	2.47	2.37	2.30	2.11	1.91	1.71	1.49	1.25
EER	15.0	14.5	13.9	13.2	12.8	12.5	11.8	11.1	9.5	9.0	8.4	8.1	7.9	7.2	6.5	5.8	5.1	4.3
Hi PR	366	351	337	323	315	309	297	285	273	261	250	244	240	231	222	213	205	198
Lo PR	130	121	113	104	98	94	87	77	70	62	55	51	49	41	36	30	26	21

### GPH1360H41\*\*

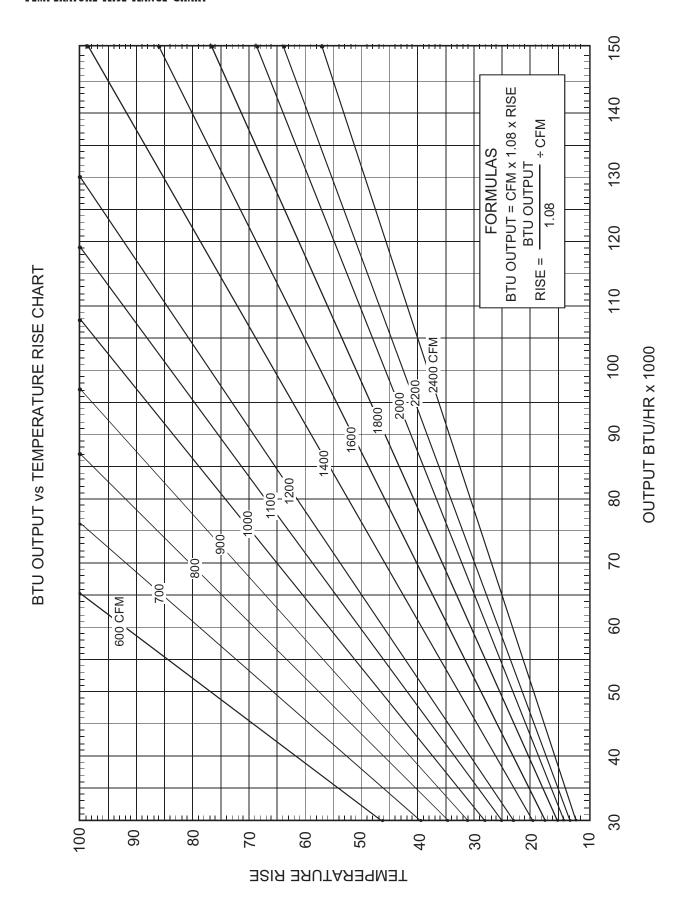
							(	ООТТОО	к Амвів	NT ТЕМІ	PERATUR	E						
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	68.5	64.9	61.0	57.1	54.5	52.8	49.1	45.2	39.9	36.8	33.9	32.0	30.8	27.6	24.5	21.4	18.2	14.9
T/R	34.3	32.5	30.6	28.6	27.3	26.4	24.5	22.6	20.0	18.4	17.0	16.0	15.4	13.8	12.3	10.7	9.1	7.5
kW	5.30	5.19	5.09	4.98	4.92	4.87	4.77	4.67	41.89	40.71	39.57	38.88	38.42	37.24	36.10	34.96	33.78	32.64
Amps	22.8	21.3	20.1	19.0	18.4	18.0	17.1	16.3	15.7	15.1	14.5	14.2	14.0	13.4	12.6	12.0	11.2	10.3
COP	3.78	3.65	3.51	3.35	3.24	3.17	3.01	2.84	0.28	0.26	0.25	0.24	0.23	0.22	0.20	0.18	0.16	0.13
EER	12.9	12.5	12.0	11.5	11.1	10.8	10.3	9.7	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.5
Hi PR	370	354	341	326	318	312	300	288	276	263	253	247	242	233	224	215	207	200
Lo PR	125	116	108	99	94	90	83	74	67	60	52	49	47	40	34	29	25	20

Above information is for nominal CFM and  $70^{\rm o}$  indoor dry bulb. Instantaneous capacity listed. High pressure is measured at the liquid line access fitting. kW = Total system power

Amps = Unit amps (comp.+ evaporator motor + condenser fan motor)

Low pressure is measured at the compressor suction access fitting.

## TEMPERATURE RISE RANGE CHART



# HEAT KIT ELECTRICAL DATA (BLOWER ONLY, HEAT MODE)

MODEL AND	Circu	JIT #1	Circu	JIT #2	SINGLE-F	POINT KIT	ACTUAL KW /
HEAT KIT USAGE	MCA <sup>1</sup>	MOP <sup>2</sup>	MCA <sup>1</sup>	MOP <sup>2</sup>	MCA <sup>1</sup>	MOP <sup>2</sup>	BTU@ 240V
GPH1324H41**	1.9						
HKR-05*, HKR-05C*	21 / 25	25 / 25			43	50	4.75 / 16,200
HKR-08*, HKR-08C*	32 / 36	35 / 40			55	60	7 / 23,800
HKR-10*, HKR-10C*	43 / 49	45 / 50			68	70	9.5 / 32,400
GPH1330H41**	2.3						
HKR-05*, HKR-05C*	21 / 25	25 / 25			45	50	4.75 / 16,200
HKR-08*, HKR-08C*	32 / 36	35 / 40			57	60	7 / 23,800
HKR-10*, HKR-10C*	43 / 49	45 / 50			70	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	95	100	14.25 / 48,600
GPH1336H41**	2.3						
HKR-05*, HKR-05C*	21 / 25	25 / 25			49	60	4.75 / 16,200
HKR-08*, HKR-08C*	32 / 36	35 / 40			61	70	7 / 23,800
HKR-10*, HKR-10C*	43 / 49	45 / 50			74	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	98	100	14.25 / 48,600
GPH1342H41**	3.6						
HKR-05*, HKR-05C*	21 / 25	25 / 25			51	60	4.75 / 16,200
HKR-08*, HKR-08C*	32 / 36	35 / 40			63	70	7 / 23,800
HKR-10*, HKR-10C*	43 / 49	45 / 50			76	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	101	110	14.25 / 48,600
HKP-20C*	43 / 49	45 / 50	43 / 49	45 / 50	128	150	19.0 / 64,800
GPH1348H41**	3.6						
HKR-05*, HKR-05C*	21 / 25	25 / 25			54	60	4.75 / 16,200
HKR-08*, HKR-08C*	32 / 36	35 / 40			66	70	7 / 23,800
HKR-10*, HKR-10C*	43 / 49	45 / 50			79	80	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	103	110	14.25 / 48,600
HKP-20C*	43 / 49	45 / 50	43 / 49	45 / 50	131	150	19.0 / 64,800
GPH1360H41**	7.5						
HKR-05*, HKR-05C*	21 / 25	25 / 25			65	80	4.75 / 16,200
HKR-08*, HKR-08C*	32 / 36	35 / 40			77	90	7 / 23,800
HKR-10*, HKR-10C*	43 / 49	45 / 50			90	100	9.5 / 32,400
HKP-15C*	43 / 49	45 / 50	21 / 25	25 / 25	114	125	14.25 / 48,600
HKP-20C*	43 / 49	45 / 50	43 / 49	45 / 50	142	150	19.0 / 64,800

 $<sup>^{\</sup>rm 1}$  Minimum Circuit Ampacity @ 208 / 240 V

**NOTE:** HKP-15C\* and HKP-20C\* replace HKR-15C and HKR-20C respectively to meet new UL1995 requirements.

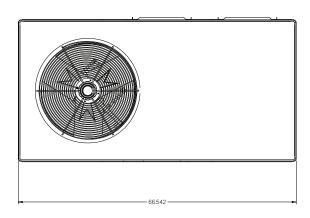
<sup>&</sup>lt;sup>2</sup> Maximum Overcurrent Protection Device @ 208 / 240 V

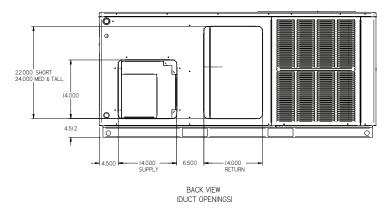
<sup>\*</sup> Revision level that may or may not be designated

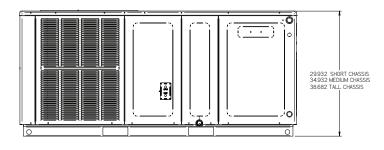
C Circuit breaker option

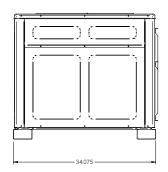
<sup>^</sup> Heat Kit requires three-phase power supply

## **D**IMENSIONS



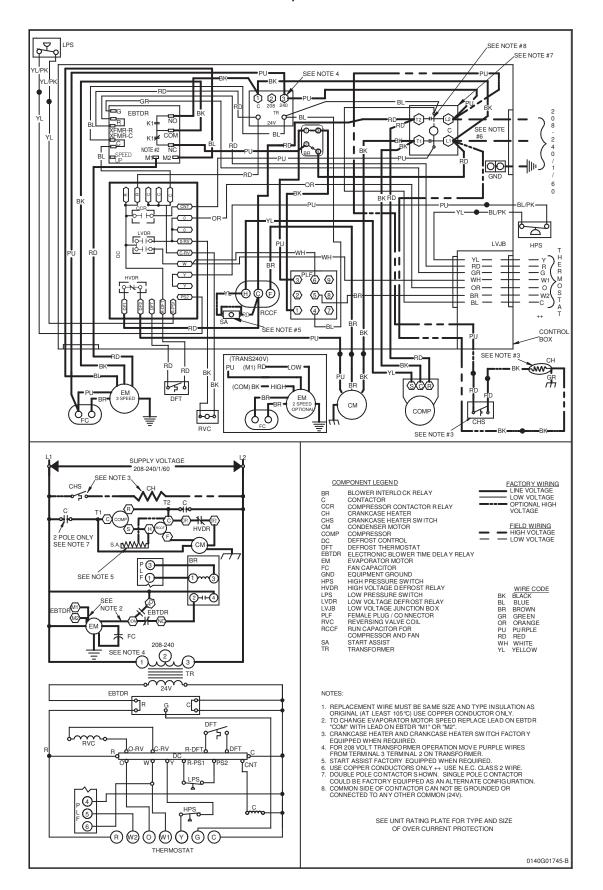






Monsi	ı	DIMENSION	S	(	CHASSIS SIZ	E
MODEL	W"	D"	Н"	SMALL	MED.	LARGE
GPH1324H41**	66½	34	30	Х		
GPH1330H41**	66½	34	30	Х		
GPH1336H41**	66½	34	35		Х	
GPH1342H41**	66½	34	35		Х	
GPH1348H41**	66½	34	38¾			Х
GPH1360H41**	66½	34	38¾			Х

## Wiring Diagram — GPH1324-42H41C\* / GPH1348HA1D\*

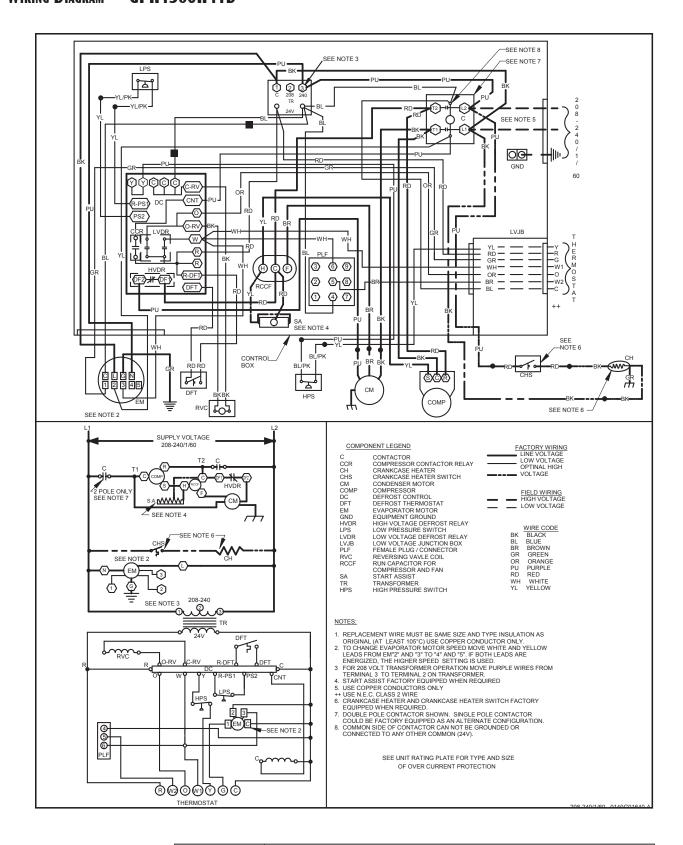


power death. Multiple injury, or o personal unit. this do so may cause property damage, installing or servicing before power all power Failure to d Disconnect a be present. F High Voltage: D Voltage:



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

## Wiring Diagram — GPH1360H41D\*



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



**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.



## Accessories

ACCESSORY	ITEM N	UMBER
DESCRIPTION	SMALL CHASSIS	MEDIUM/LARGE CHASSIS
Downflow Economizer	PCE101-103	PCE101-103
Downflow Plenum Kit	PCP101-103	PCP101-103
Downflow Plenum Kit (R-8)	PCP101-103 R8	PCP101-103 R8
Elbow Flashing w/ R-8 Liner	PCEF101-103	PCEF101-103
Emergency Heat Relay	OT/EHR18-60	OT/EHR18-60
External Horizontal Filter Rack	GPGHFR101-103	GPGHFR101-103
Horizontal Economizer	PEHH101-103	PEHH101-103
Manual Damper	PCMD101-103	PCMD101-103
Manual Damper- Horizontal Application	PCMDH101-103	PCMDH101-103
Motorized Damper	PCMDM101-103	PCMDM101-103
Outdoor Thermostat w/ Lockout Stat	OT18-60A	OT18-60A
Roof Curb	PCCP101-103	PCCP101-103
Square to Round	SQRPC101	SQRPC102/103
Square to Round for Horizontal Application	SQRPCH101	SQRPCH102/103

## Single-Point Kit Accessory Kits

Select the single-point kit accessory based on the unit model.

MODEL	SINGLE-POINT KIT
GPH1324H41**	SPK-30
GPH1330H41**	SPK-35
GPH1336H41**	SPK-40
GPH1342H41**	SPK-40
GPH1348H41**	SPK-50
GPH1360H41**	SPK-60