

Industry leading Features / Benefits



- Up to 18.5 SEER2 / Up to 14 EER2 / Up to 8.5 HSPF2
- Indoor air quality accessories available

- Sound level as low as 67 dBA

- System supports Thermidistat or standard 2-stage thermostat controls

- Non-ozone depleting and low global warming potential Puron Advance™ refrigerant

- Front-seating service valves
- 2-stage scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Loss of charge switch
- Filter drier
- Balanced refrigeration system for maximum reliability

- Protection Package: Solid, durable sheet metal construction
- Pre-painted cabinet finish over galvanized steel

- Long-line - up to 250 feet (76.2 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Long Line Guide for more information.)

- Low ambient cooling (down to 0°F / -17.8°C) with approved low ambient accessory kits.

- 5-year parts limited warranty (including compressor and coil)
- 10-year parts limited warranty (including compressor and coil) with timely registration*.

Equipment must be registered within 90 days of original installation, except in jurisdictions where warranty benefits cannot be conditioned on registration.

- * Applies to original purchaser/homeowner and not available to subsequent owners except in jurisdictions where applicable laws dictate otherwise.

See warranty certificate for complete details and restrictions.



This unit has been designed utilizing Carrier's non-ozone depleting and low global warming potential Puron Advance™ refrigerant. Heat pumps with Puron Advance™ refrigerant provide a collection of features unmatched by any other family of equipment.

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

MODEL NUMBER NOMENCLATURE

1	2	3	4	5	6	7	8, 9	10	11	12
G	H	8	T	A	N	5	24	0	0	A
Brand Type	OD Type	SEER2	OD Design Type	Major Series	Voltage	Refrigerant	Nominal Capacity	Feature	Special Feature	Region
G = Builder	H = HP	8 = 18 SEER2	T = Two-Stage	A = Major Iteration	N = 208-230-1	5 = R-454B	24 = 24,000 BTUH (2 Tons) 36 = 36,000 BTUH (3 Tons) 48 = 48,000 BTUH (4 Tons) 60 = 60,000 BTUH (5 Tons)	0 = Standard	0 = Standard	A = Standard HP

CATALOG ORDERING NUMBERS

Size	Model Ordering Number
24	GH8TAN52400A
36	GH8TAN53600A
48	GH8TAN54800A
60	GH8TAN56000A

STANDARD FEATURES

FEATURES	Unit Size			
	24	36	48	60
Puron Advance™ (R-454B) Refrigerant	X	X	X	X
Maximum SEER2 Rating*	18.5	17	18	17.5
2-Stage Scroll Compressor	X	X	X	X
Low Ambient Cooling Capability with Approved Kits	X	X	X	X
Crankcase Heater w/Temperature Switch	X	X	X	X
Factory Provided, Field Installed Filter Drier	X	X	X	X
Front Seating Service Valves	X	X	X	X
Internal Pressure Relief Valve	X	X	X	X
Internal Thermal Overload	X	X	X	X
Long Line capability	X	X	X	X
Loss of Charge Switch	X	X	X	X

X = Standard

* With approved combinations

PHYSICAL DATA

UNIT SIZE	24	36	48	60
Compressor Type	Scroll			
Refrigerant	Puron Advance™ (R-454B) Refrigerant			
Charge lb (kg)*	10.14 (4.60)	12.70 (5.76)	11.09 (5.03)	11.86 (5.38)
Outdoor Htg Piston #	42	49	61	67
COND Fan	Forward Swept Propeller Type, Direct Drive			
Air Discharge	Vertical			
Air Qty (CFM)	3120	3788	4781	4781
Motor HP	1/3	1/3	1/3	1/3
Motor RPM	615	700	815	815
COND COIL				
Face Area (Sq ft)	22.6	25.1	30.1	30.1
Fins per In.	20	20	20	20
Rows	2	2	2	2
Circuits	9	8	12	12
VALVE CONNECT. (In. ID)				
Vapor	3/4	7/8	7/8	7/8
Liquid	3/8"			
REFRIGERANT TUBES† (In. OD)				
Vapor (0-80 Ft Tube Length)	3/4	7/8	1 1/8	1 1/8
Liquid (0-80 Ft Tube Length)	3/8"			

*.For 15 ft (4.6 m) lineset

†. Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

REFRIGERANT PIPING LENGTH LIMITATIONS

Maximum Line Lengths:

The maximum allowable total equivalent length for heat pumps varies depending on the vertical separation. See the tables below for allowable lengths depending on whether the outdoor unit is on the same level, above or below the indoor unit.

Maximum Line Lengths for Heat Pump Applications

	MAXIMUM ACTUAL LENGTH* ft (m)	MAXIMUM EQUIVALENT LENGTH ft (m)	MAXIMUM VERTICAL SEPARATION ft (m)
Units on equal level	200 (61)	250 (76.2)	N/A
Outdoor unit ABOVE indoor unit	200 (61)	250 (76.2)	200 (61)
Outdoor unit BELOW indoor unit	See Table 'Maximum Total Equivalent Length -Outdoor Unit BELOW Indoor Unit'		

* Maximum actual length not to exceed 200 ft (61 m)

Maximum Total Equivalent Length*- Outdoor Unit BELOW Indoor Unit

Size	Liquid Line Diameter w/ TXV	HP with Puron Advance™ Refrigerant - Maximum Total Equivalent Length Vertical Separation ft (m) Outdoor unit BELOW indoor unit						
		0-20 (0 - 6.1)	21-30 (6.4 - 9.1)	31-40 (9.4 - 12.2)	41-50 (12.5 - 15.2)	51-60 (15.5 - 18.3)	61-70 (18.6 - 21.3)	71-80 (21.6 - 24.4)
24	3/8	250*	250*	250*	250*	250*	250*	250*
36	3/8	250*	250*	250*	250*	250*	250*	250*
48	3/8	250*	250*	250*	250*	230	160	—
60	3/8	250*	225*	190	150	110	—	—

* Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

— = outside acceptable range

LONG LINE APPLICATIONS

An application is considered Long Line, when the refrigerant level in the system requires the use of accessories to maintain acceptable refrigerant management for systems reliability. Defining a system as long line depends on the liquid line diameter, actual length of the tubing, and vertical separation between the indoor and outdoor units.

For heat pump systems, the chart below shows when an application is considered Long Line.

Table 1 – HP with Puron Advance™ Refrigerant Long Line Description ft (m) (Beyond these lengths, long line accessories are required)

Liquid Line Size	Units On Same Level	Outdoor Below Indoor	Outdoor Above Indoor
3/8 + TXV	80 (24.4)	20 (6.1) vertical or 80 (24.4) total	80 (24.4)

NOTE: See Residential Piping and Long Line Guideline for details

VAPOR LINE SIZING AND COOLING CAPACITY LOSS

Acceptable vapor line diameters provide adequate oil return to the compressor while avoiding excessive capacity loss. The suction line diameters shown in the chart below are acceptable for HP systems with Puron Advance™ refrigerant:

Unit Nominal Size	Maximum Liquid Line Diameters (In.) OD	Vapor Line Diameters (In.) OD	Cooling Capacity Loss (%) Total Equivalent Line Length ft. (m)								
			Standard Application		Long Line Application Requires Accessories						
			26-50 (7.9-15.2)	51-80 (15.5-24.4)	81-100 (24.7-30.5)	101-125 (30.8-38.1)	126-150 (38.4-45.7)	151-175 (46.0-50.3)	176-200 (53.6-60.0)	201-225 (61.3-68.6)	226-250 (68.9-76.2)
24	3/8	5/8	0	1	1	2	3	3	4	4	5
		3/4	0	1	1	1	1	1	1	1	1
36	3/8	5/8	1	2	4	5	6	7	9	10	11
		3/4	0	0	1	1	2	2	3	3	4
		7/8	0	0	—	—	—	—	—	—	—
48	3/8	3/4	1	2	2	3	4	5	6	7	7
		7/8	0	1	1	2	2	2	3	3	4
		1-1/8	0	0	—	—	—	—	—	—	—
60	3/8	3/4	1	2	4	5	6	8	9	10	11
		7/8	0	1	2	2	3	4	4	5	5
		1-1/8	0	0	—	—	—	—	—	—	—

Standard Length = 80 ft. (24.4 m) or less total equivalent length

Applications in this area are long line. Accessories are required as shown recommended on Long Line Application Guidelines

Applications in this area may have height restrictions that limit allowable total equivalent length, when outdoor unit is below indoor unit.

— Applications in this area are not recommended due to insufficient oil return.

AHRI RATINGS

For AHRI ratings certificates, please refer to the AHRI directory www.ahridirectory.org

Additional ratings and system combinations can be accessed via the Ratings Database here: [database here www.MyCarrierRatings.com](http://www.MyCarrierRatings.com)

NOTE: Any ratings contained in this document are subject to change at any time.

Electrical Data

UNIT SIZE	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MAX FUSE† or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		
24	208-230/1	253	197	62.0	15.6	2.60	22.1	25
36				90.0	18.5	2.60	25.7	40
48				138.0	23.0	2.60	31.4	50
60				149.0	25.8	2.60	34.9	60

* Permissible limits of the voltage range at which the unit will operate satisfactorily

† Time-Delay fuse.

FLA- Full Load Amps

LRA - Locked Rotor Amps

MCA- Minimum Circuit Amps

RLA- Rated Load Amps

NOTE: Control circuit is 24-V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with 2010 requirements of ASHRAE Standards 90.1

Short Circuit Current Rating (SCCR): 5kA rms

A-Weighted Sound Power (dBA) w/o Accessory Sound Shield)

UNIT SIZE	STANDARD RATING	TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24	71 - High Stage	65	63	63	70	59	54	56
	69 - Low Stage	64	63	63	67	57	53	50
36	71 - High Stage	66	61	62	66	60	53	51
	69 - Low Stage	66	62	62	62	58	53	50
48	72 - High Stage	66	64	66	68	62	60	57
	71 - Low Stage	67	64	66	68	62	60	57
60	73 - High Stage	69	66	67	70	61	61	55
	71 - Low Stage	68	67	68	66	61	59	55

A-Weighted Sound Power (dBA) with Accessory Sound Shield)

UNIT SIZE	STANDARD RATING	TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24	69 - High Stage	66	62	62	68	57	51	51
	67 - Low Stage	66	63	62	65	54	50	44
36	69 - High Stage	67	62	62	64	59	52	50
	67 - Low Stage	66	62	62	61	56	52	47
48	70 - High Stage	67	65	66	66	61	58	54
	69 - Low Stage	67	64	66	66	61	57	53
60	72 - High Stage	68	69	70	67	61	59	58
	70 - Low Stage	69	67	68	65	60	57	53

NOTE: Tested in compliance with AHRI Standard 270 but not listed with AHRI.

Charging Subcooling (TXV-Type Expansion Device)

UNIT SIZE	REQUIRED SUBCOOLING °F (°C)
24	7 (3.9)
36	10 (5.6)
48	10 (5.6)
60	10 (5.6)

Accessories

Kit Number	KIT NAME	24	36	48	60
KSAFT0101AAA	Evaporator Freeze Stat	X	X	X	X
KAATD0101TDR	Time Delay Relay	X	X	X	X
KSALA1001454	Low Ambient	X	X	X	X
KHAIR0301AAA	Isolation Relay	X	X	X	X
KSAHS2501AAA	Hard Start	X	X	X	
KSAHS2301AAA	Hard Start				X
KSAHI0401PUR	High Pressure Switch	X	X	X	X
KSASF0201AAA	Support Feet	X	X	X	X
KHALS0401LLS	Solenoid Valve	X	X	X	X
KSASH2301COP	Sound Blanket	X	X		
KSASH2401COP	Sound Blanket			X	X
KHASS0606MPK	Snow Stand	X	X	X	X

X = Accessory

ACCESSORY USAGE GUIDELINE

Accessory	Required for Low Ambient cooling Applications (Below 55°F / 12.8°C)	Required for Long Line Applications*	Required for Sea Coast Applications (within 2 miles/3.2 km)
Compressor Start Assist	Yes	Yes	No
Crankcase Heater	Standard	Standard	Standard
Evaporator Freeze Thermostat	Yes	No	No
Isolation Relay	Yes	No	No
Hard Shutoff TXV	Yes (Standard with Factory Indoor Coils)	Yes (Standard with Factory Indoor Coils)	Yes (Standard with Factory Indoor Coils)
Liquid Line Solenoid Valve	No	See Residential Piping and Long Line Guideline	No
Low-Ambient Control	Yes	No	No
Support Feet	Recommended	No	Recommended

* For tubing line sets between 80 and 200 ft. (24.38 and 60.96 m) and/or 20 ft. (6 m) vertical differential, refer to Residential Piping and Longline Guideline.

Accessory Description and Usage (Listed Alphabetically)

1. Compressor Start Assist - Capacitor and Relay

Start capacitor and relay gives a "hard" boost to compressor motor at each start up.

Usage Guideline:

Required for single-phase scroll compressors in the following applications:

Long line

Low ambient cooling

Suggested for all compressors in areas with a history of low voltage problems.

2. Evaporator Freeze Thermostat

An SPST temperature-actuated switch that stops unit operation when evaporator reaches freeze-up conditions.

Usage Guideline:

Required when low ambient kit has been added.

3. Liquid-Line Solenoid Valve (LLS)

An electrically operated shutoff valve which stops and starts refrigerant liquid flow in response to compressor operation. It is to be installed at the outdoor unit to control refrigerant off cycle migration in the heating mode.

Usage Guideline:

An LLS is required in all long line heat pump applications to control refrigerant off cycle migration in heating mode. See Long Line Guideline.

Suggested for all commercial applications.

4. Low-Ambient Pressure Switch

A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits. The control will maintain working head pressure at low-ambient temperatures down to 0°F (-17.8°C) when properly installed.

Usage Guideline:

A Low-Ambient Pressure Switch must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

5. Support Feet

Four or five stick-on plastic feet that raise the unit 4 in. (101.6 mm) above the mounting pad. This allows sand, dirt, and other debris to be flushed from the unit base, minimizing corrosion.

Usage Guideline:

Suggested in the following applications:

Coastal installations.

Windy areas or where debris is normally circulating.

Rooftop installations.

For improved sound ratings.

6. Time Delay Relay

An SPST delay relay which briefly continues operation of indoor blower motor to provide additional cooling after the compressor cycles off.

NOTE: Most indoor unit controls include this feature. For those that do not, use the guideline below.

Usage Guideline:

For improved efficiency ratings for certain combinations of indoor and outdoor units. Refer to AHRI Directory of Certified Product Performance (AHRI Directory).

When a Time-Delay Relay (TDR) is called for in the AHRI Directory, use a 30 second TDR for MicroChannel Indoor units and use a 90 second TDR for Round Tube Plate Fin Indoor units.

DIMENSIONS

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

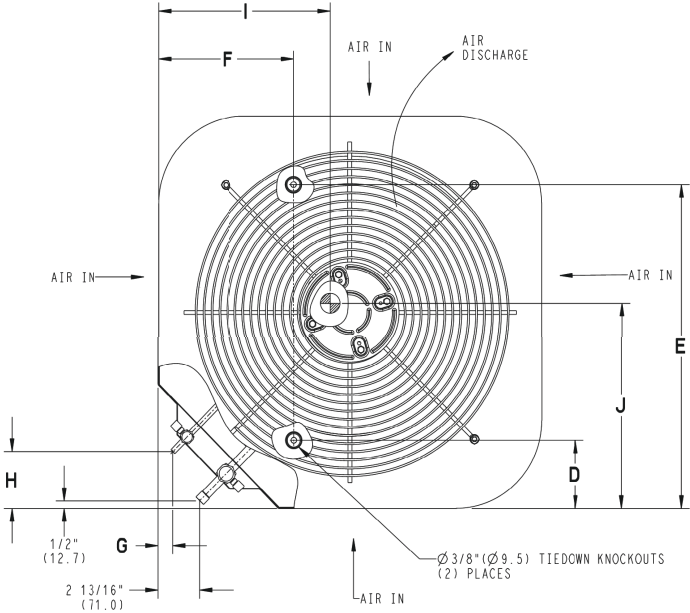
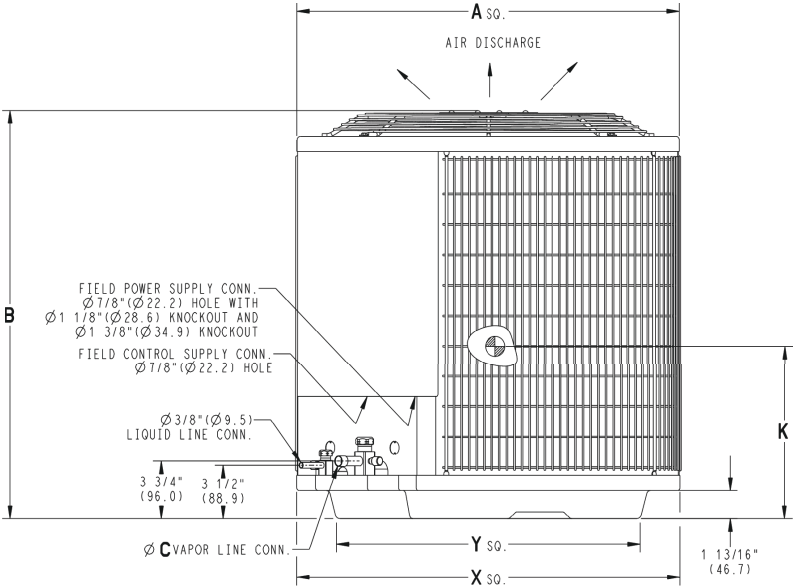
UNIT	SERIES	ELECTRICAL CHARACTERISTICS					A		B		C		D		E		F		G		H		I		J		K		OPERATING WEIGHT		SHIPPING WEIGHT		SHIPPING LENGTH / WIDTH (Sq.)		SHIPPING HEIGHT	
GH8TA*52400A	A	Y	N	N	N		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	Lbs	Kgs	Lbs	Kgs	INCH	MM	INCH	MM
GH8TA*53600A	A	Y	N	N	N		35	899.0	35 1/2	901.4	3/4	19.1	6 9/16	165.1	28 7/16	722.8	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	16 1/4	412.8	17	431.8	16	406.4	218	98.9	242	109.8	36	914.9	37 3/16	944.0
GH8TA*54900A	A	Y	N	N	N		35	899.0	38 7/8	937.8	7/8	22.2	6 9/16	165.1	28 7/16	722.8	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	17 1/2	444.5	17 1/2	444.5	17 1/4	438.2	237	107.5	261	118.4	36	914.9	40 9/16	1030.4
GH8TA*56000A	A	Y	N	N	N		35	899.0	45 11/16	1190.5	7/8	22.2	6 9/16	165.1	28 7/16	722.8	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	17 1/2	444.5	18 3/4	476.3	19	482.8	279	126.6	304	137.9	36	914.9	47 3/8	1203.2

209-230-1-50
209-230-1-50
460-1-50
675-3-50

Y=YES
N=NO

NOTES:

1. CENTER OF GRAVITY 

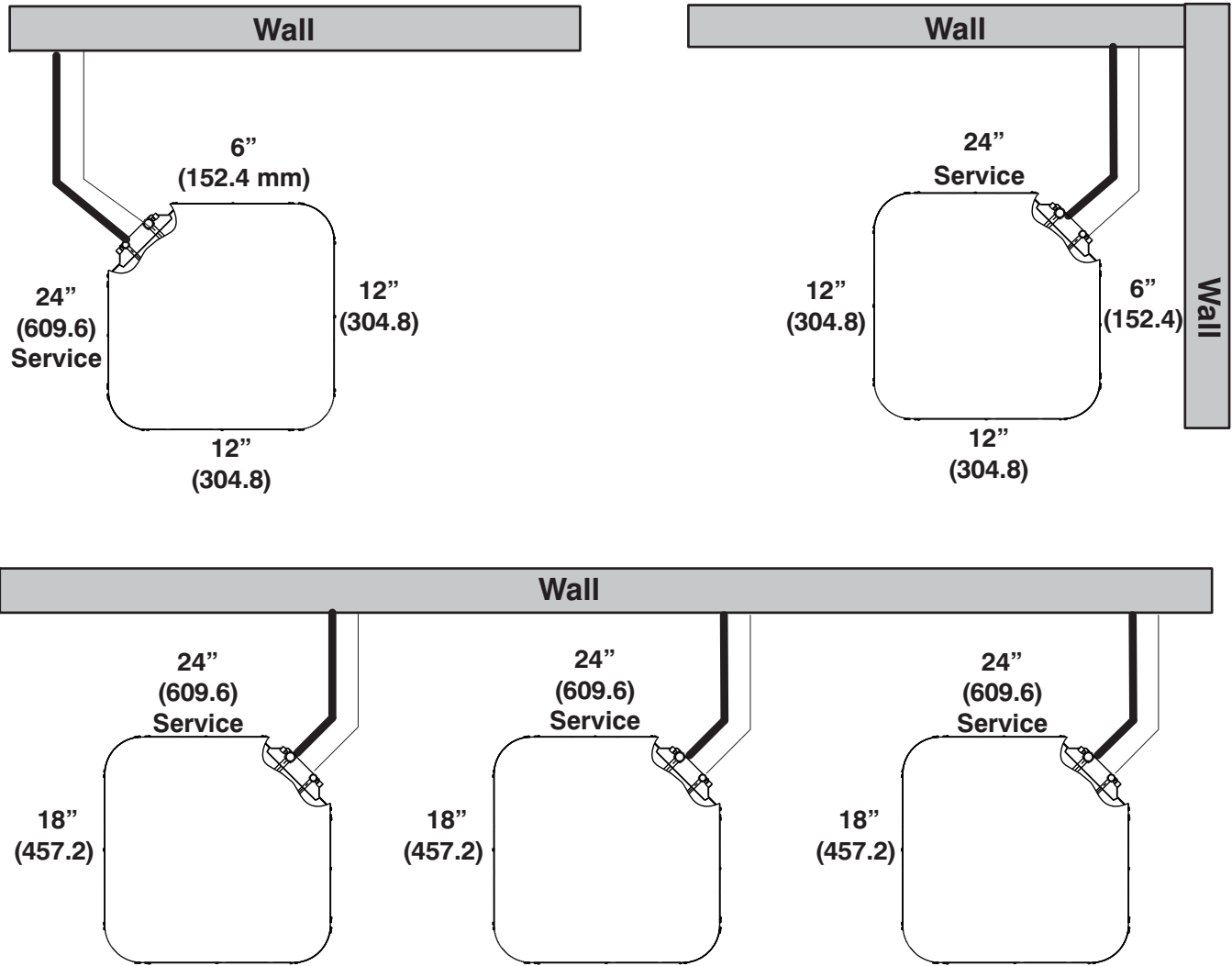


UNIT SIZE	"X"		"Y"	
	MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS		MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS	
-	23 1/8	587.3	17 7/8	454.6
-	25 3/4	654.0	20 7/16	518.5
-	31 3/16	792.5	22 15/16	583.2
24,36,48,60	35	889.0	26 3/4	679.7

NOTE: ALL DIMENSIONS IN INCH (MM) U.S. ECCN: Not Subject to Regulation (N.S.R.)

CLEARANCES

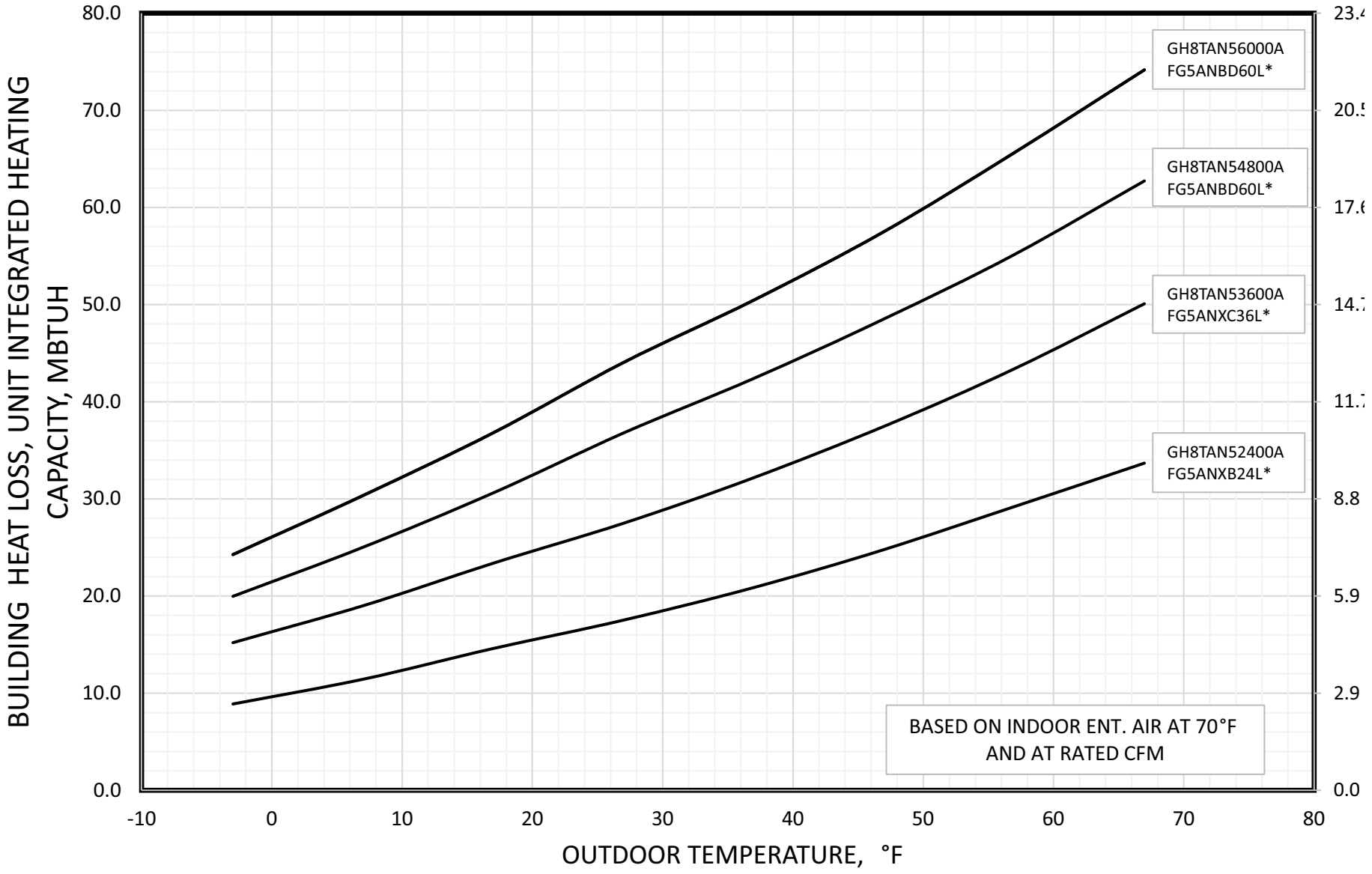
Clearances (various examples)



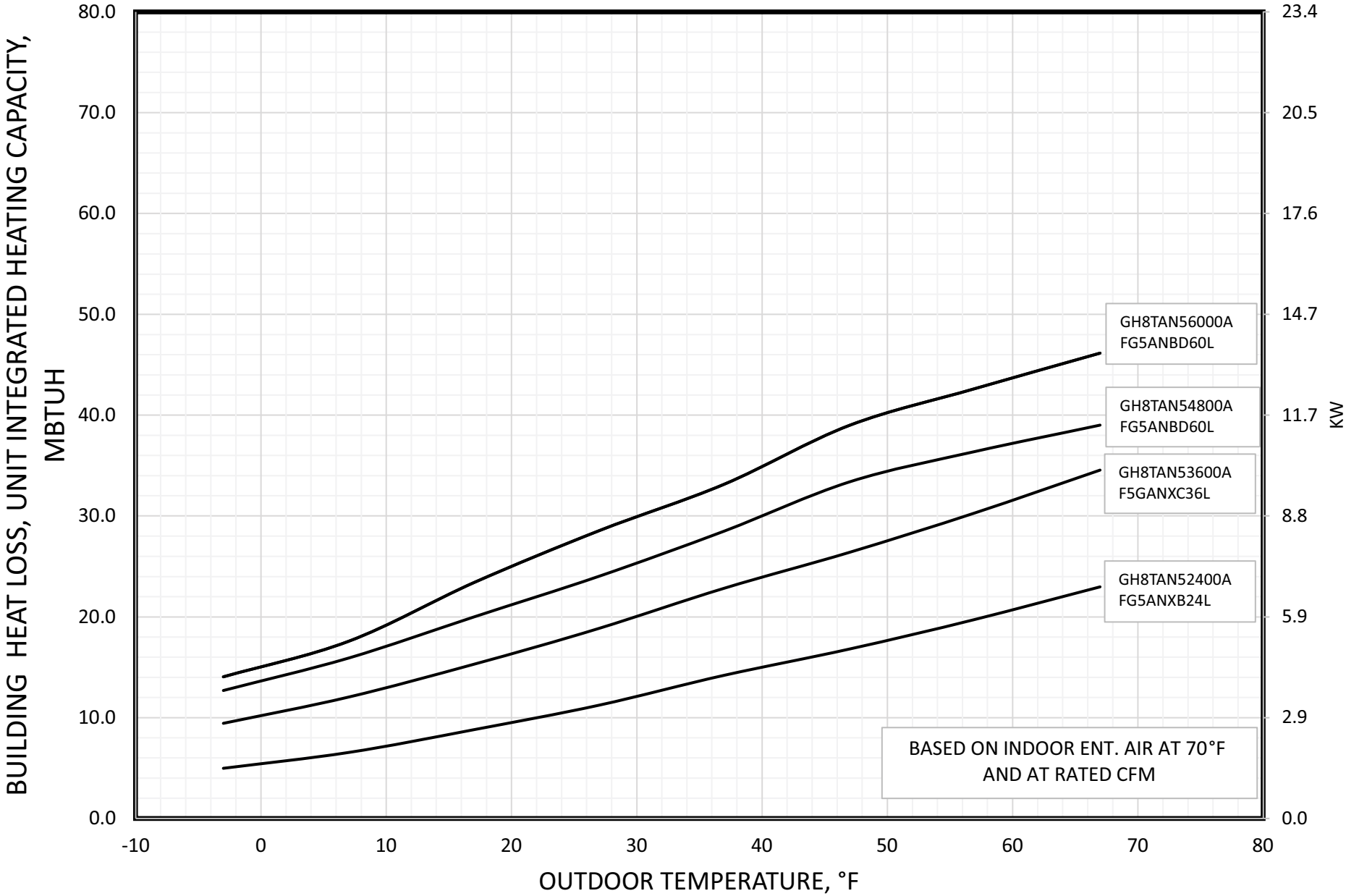
Note: Numbers in () = mm
Allow 48" above unit

IMPORTANT: When installing multiple units in an alcove, roof well, or partially enclosed area, ensure there is adequate ventilation to prevent re-circulation of discharge air.

Balance Point Worksheet - High Stage



Balance Point Worksheet - Low Stage



Detailed Cooling Capacities[#]

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75.0 (23.9)			85.0 (29.4)			95.0 (35.0)			105.0 (40.6)			115.0 (46.1)			125.0 (51.7)		
		Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.
CFM	EWB	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**
GH8TAN52400A Outdoor Section With FG5ANXB24L* Indoor Section - High																			
650	72.0 (22.2)	27.51	14.01	1.36	26.38	13.58	1.55	25.14	13.11	1.75	23.78	12.61	1.97	22.19	12.02	2.22	20.68	11.47	2.50
	67.0 (19.4)	24.86	17.13	1.37	23.84	16.70	1.56	22.71	16.21	1.75	21.47	15.72	1.97	20.14	15.17	2.22	18.69	14.58	2.49
	63.0 (17.2)††	23.00	16.47	1.38	22.03	16.02	1.56	20.97	15.55	1.75	19.83	15.04	1.97	18.59	14.50	2.21	17.27	13.92	2.49
	62.0 (16.7)	22.58	20.20	1.39	21.64	19.75	1.56	20.62	19.27	1.75	19.53	18.74	1.97	18.38	18.11	2.21	17.26	17.26	2.49
700	57.0 (13.9)	21.67	21.67	1.39	20.93	20.93	1.56	20.13	20.13	1.75	19.25	19.25	1.97	18.29	18.29	2.21	17.23	17.23	2.49
	72.0 (22.2)	27.85	14.41	1.37	26.69	13.97	1.56	25.41	13.49	1.76	24.02	12.98	1.99	22.50	12.44	2.24	20.84	11.84	2.52
	67.0 (19.4)	25.18	17.76	1.39	24.11	17.31	1.57	22.97	16.84	1.77	21.70	16.33	1.99	20.34	15.77	2.23	18.86	15.16	2.51
	63.0 (17.2)††	23.29	17.05	1.40	22.30	16.60	1.58	21.21	16.12	1.77	20.05	15.61	1.98	18.78	15.06	2.23	17.29	14.38	2.50
805	62.0 (16.7)	22.91	21.06	1.40	21.95	20.60	1.58	20.91	20.09	1.77	19.83	19.48	1.98	18.74	18.74	2.23	17.64	17.64	2.50
	57.0 (13.9)	22.24	22.24	1.40	21.47	21.47	1.58	20.63	20.63	1.77	19.72	19.72	1.98	18.72	18.72	2.23	17.61	17.61	2.50
	72.0 (22.2)	28.41	15.20	1.40	27.19	14.75	1.59	25.86	14.26	1.80	24.40	13.74	2.02	22.81	13.19	2.27	21.09	12.57	2.55
	67.0 (19.4)	25.71	19.04	1.42	24.60	18.59	1.60	23.40	18.10	1.80	22.08	17.58	2.02	20.65	17.01	2.27	19.13	16.36	2.54
805	63.0 (17.2)††	23.79	18.24	1.43	22.75	17.78	1.61	21.62	17.29	1.80	20.40	16.76	2.02	19.10	16.20	2.26	17.69	15.59	2.54
	62.0 (16.7)	23.53	22.76	1.43	22.57	22.23	1.61	21.77	21.02	1.80	20.59	20.59	2.02	19.51	19.51	2.26	18.32	18.32	2.54
	57.0 (13.9)	23.29	23.29	1.43	22.46	22.46	1.61	21.55	21.55	1.80	20.57	20.57	2.02	19.49	19.49	2.26	18.30	18.30	2.54
GH8TAN52400A Outdoor Section With FG5ANXB24L* Indoor Section - Low																			
480	72.0 (22.2)	20.10	10.36	0.84	19.29	10.08	0.97	18.41	9.77	1.10	17.44	9.43	1.24	16.25	9.02	1.38	15.10	8.65	1.54
	67.0 (19.4)	18.08	12.67	0.87	17.36	12.41	0.99	16.54	12.11	1.12	15.67	11.80	1.26	14.91	11.54	1.43	13.56	11.03	1.57
	63.0 (17.2)††	16.65	12.13	0.89	15.99	11.87	1.01	15.25	11.59	1.14	14.42	11.26	1.28	13.48	10.88	1.43	12.43	10.47	1.59
	62.0 (16.7)	16.32	14.91	0.89	15.69	14.67	1.01	14.98	14.39	1.14	14.21	14.09	1.28	13.46	13.46	1.43	12.64	12.64	1.58
560	57.0 (13.9)	15.75	15.75	0.90	15.28	15.28	1.02	14.75	14.75	1.15	14.14	14.14	1.28	13.43	13.43	1.43	12.62	12.62	1.58
	72.0 (22.2)	20.62	11.03	0.85	19.75	10.73	0.98	18.81	10.42	1.11	17.78	10.08	1.25	16.63	9.70	1.40	15.16	9.20	1.55
	67.0 (19.4)	18.58	13.71	0.88	17.80	13.45	1.00	16.96	13.17	1.13	16.03	12.82	1.27	14.98	12.47	1.42	13.66	12.00	1.57
	63.0 (17.2)††	17.12	13.11	0.90	16.41	12.85	1.02	15.63	12.55	1.15	14.76	12.23	1.29	13.77	11.83	1.44	12.60	11.39	1.59
645	62.0 (16.7)	16.86	16.32	0.90	16.30	15.83	1.02	15.58	15.58	1.15	14.87	14.87	1.28	14.14	14.14	1.43	13.25	13.25	1.59
	57.0 (13.9)	16.65	16.65	0.90	16.14	16.14	1.02	15.55	15.55	1.15	14.88	14.88	1.29	14.12	14.12	1.43	13.24	13.24	1.59
	72.0 (22.2)	21.02	11.72	0.86	20.11	11.42	0.99	19.14	11.04	1.12	18.04	10.74	1.26	16.85	10.36	1.41	15.35	9.87	1.57
	67.0 (19.4)	18.96	14.79	0.89	18.16	14.52	1.01	17.27	14.22	1.14	16.30	13.90	1.28	15.23	13.53	1.43	14.04	13.10	1.59
645	63.0 (17.2)††	17.49	14.11	0.91	16.75	13.84	1.03	15.93	13.54	1.16	15.03	13.22	1.30	13.94	12.79	1.45	12.91	12.37	1.61
	62.0 (16.7)	17.48	17.48	0.91	16.91	16.91	1.03	16.27	16.27	1.16	15.55	15.55	1.29	14.72	14.72	1.44	13.77	13.77	1.59
	57.0 (13.9)	17.45	17.45	0.91	16.89	16.89	1.03	16.25	16.25	1.16	15.52	15.52	1.29	14.70	14.70	1.44	21.14	21.14	1.51

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Detailed Cooling Capacities[#] (Continued)

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75.0 (23.9)			85.0 (29.4)			95.0 (35.0)			105.0 (40.6)			115.0 (46.1)			125.0 (51.7)		
CFM	EWB	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
GH8TAN53600A Outdoor Section With FG5ANXC36L* Indoor Section - High																			
975	72.0 (22.2)	40.51	20.53	2.32	38.91	19.91	2.55	37.22	19.27	2.81	35.37	18.57	3.12	33.42	17.86	3.48	31.26	17.07	3.91
	67.0 (19.4)	36.67	25.10	2.31	35.18	24.47	2.54	33.62	23.82	2.81	31.96	23.13	3.11	30.14	22.41	3.48	28.17	21.60	3.91
	63.0 (17.2)††	33.91	24.13	2.30	32.52	23.49	2.53	31.07	22.84	2.80	29.51	22.15	3.11	27.82	21.40	3.47	25.98	20.60	3.90
	62.0 (16.7)	33.41	29.62	2.30	32.07	28.97	2.53	30.67	28.29	2.80	29.18	27.55	3.11	27.60	26.74	3.47	26.31	24.81	3.88
	57.0 (13.9)	32.11	32.11	2.29	31.04	31.04	2.53	29.92	29.92	2.80	28.70	28.70	3.11	27.37	27.37	3.47	25.90	25.90	3.90
1050	72.0 (22.2)	40.99	21.07	2.35	39.34	20.45	2.58	37.60	19.80	2.84	35.74	19.11	3.15	33.72	18.37	3.51	31.52	17.58	3.94
	67.0 (19.4)	37.10	25.97	2.34	35.60	25.35	2.57	34.00	24.69	2.83	32.29	23.99	3.14	30.44	23.24	3.50	28.43	22.43	3.93
	63.0 (17.2)††	34.32	24.94	2.33	32.90	24.30	2.56	31.41	23.64	2.82	29.81	22.93	3.13	28.08	22.20	3.50	26.22	21.37	3.93
	62.0 (16.7)	33.87	30.80	2.32	32.51	30.13	2.56	31.09	29.42	2.82	29.60	28.64	3.13	27.98	27.98	3.50	26.49	26.49	3.93
	57.0 (13.9)	32.89	32.89	2.32	31.78	31.78	2.56	30.61	30.61	2.82	29.35	29.35	3.13	27.97	27.97	3.50	26.45	26.45	3.93
1205	72.0 (22.2)	41.76	22.13	2.40	40.04	21.50	2.63	38.23	20.84	2.89	36.29	20.14	3.20	34.20	19.39	3.56	31.92	18.59	3.99
	67.0 (19.4)	37.81	27.71	2.39	36.26	27.08	2.62	34.60	26.40	2.88	32.83	25.68	3.19	30.92	24.91	3.55	28.85	24.08	3.98
	63.0 (17.2)††	35.00	26.55	2.38	33.52	25.90	2.61	31.97	25.22	2.88	30.32	24.50	3.19	28.54	23.72	3.55	26.61	22.88	3.98
	62.0 (16.7)	34.73	33.07	2.38	33.35	32.32	2.61	32.30	30.52	2.88	30.54	30.54	3.19	29.07	29.07	3.55	27.44	27.44	3.97
	57.0 (13.9)	34.28	34.28	2.38	33.10	33.10	2.61	31.85	31.85	2.88	30.50	30.50	3.19	29.03	29.03	3.55	27.41	27.41	3.98
GH8TAN53600A Outdoor Section With FG5ANXC36L* Indoor Section - Low																			
720	72.0 (22.2)	30.14	15.19	1.47	28.65	14.64	1.64	27.10	14.07	1.81	25.54	13.49	1.97	23.85	12.86	2.13	22.12	12.27	2.30
	67.0 (19.4)	27.15	18.56	1.50	25.83	17.98	1.66	24.45	17.43	1.83	23.01	16.83	1.99	21.48	16.20	2.16	19.85	15.54	2.33
	63.0 (17.2)††	25.02	17.77	1.53	23.81	17.23	1.69	22.53	16.67	1.84	21.18	16.07	2.01	19.73	15.43	2.17	18.93	15.43	2.33
	62.0 (16.7)	24.61	21.85	1.53	23.45	21.28	1.69	22.24	20.68	1.85	20.96	20.02	2.01	19.67	19.67	2.17	18.43	18.43	2.34
	57.0 (13.9)	23.78	23.78	1.54	22.85	22.85	1.70	21.86	21.86	1.85	20.79	20.79	2.01	19.64	19.64	2.17	18.39	18.39	2.34
840	72.0 (22.2)	30.89	16.13	1.49	29.31	15.55	1.66	27.71	14.97	1.83	26.05	14.40	1.99	24.29	13.72	2.15	22.50	13.13	2.32
	67.0 (19.4)	27.87	20.04	1.52	26.47	19.46	1.68	25.03	18.87	1.84	23.52	18.26	2.01	21.93	17.62	2.17	20.25	16.94	2.34
	63.0 (17.2)††	25.69	19.16	1.54	24.41	18.60	1.70	23.09	18.00	1.86	21.66	17.42	2.02	20.17	16.74	2.19	18.58	16.05	2.36
	62.0 (16.7)	25.44	23.83	1.54	24.24	23.19	1.70	23.08	23.06	1.86	21.89	21.89	2.02	20.66	20.66	2.18	19.33	19.33	2.35
	57.0 (13.9)	25.11	25.11	1.55	24.09	24.09	1.71	23.01	23.01	1.86	21.86	21.86	2.02	20.63	20.63	2.18	19.31	19.31	2.34
965	72.0 (22.2)	31.46	17.05	1.51	29.81	16.46	1.68	28.15	15.86	1.85	26.39	15.23	2.01	24.65	14.64	2.17	22.77	13.99	2.34
	67.0 (19.4)	28.42	21.52	1.54	26.96	20.92	1.70	25.47	20.31	1.86	23.91	19.68	2.03	22.29	19.01	2.19	20.58	18.30	2.36
	63.0 (17.2)††	26.22	20.53	1.56	24.89	19.95	1.72	23.50	19.35	1.88	22.05	18.70	2.04	20.53	18.03	2.21	18.91	17.29	2.38
	62.0 (16.7)	26.47	25.01	1.56	25.16	25.16	1.72	24.00	24.00	1.88	22.77	22.77	2.04	21.46	21.46	2.20	20.06	20.06	2.36
	57.0 (13.9)	26.23	26.23	1.56	25.12	25.12	1.72	23.96	23.96	1.88	22.74	22.74	2.04	21.43	21.43	2.20	20.03	20.02	2.36

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Detailed Cooling Capacities[#] (Continued)

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75.0 (23.9)			85.0 (29.4)			95.0 (35.0)			105.0 (40.6)			115.0 (46.1)			125.0 (51.7)		
		Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.
CFM	EWB	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**
GH8TAN54800A Outdoor Section With FG5ANBD60L* Indoor Section - High																			
1300	72.0 (22.2)	57.73	29.25	2.96	55.53	28.41	3.24	53.12	27.50	3.60	50.51	26.52	4.02	47.69	25.48	4.49	44.64	24.36	5.03
	67.0 (19.4)	52.13	35.59	2.91	50.12	34.74	3.20	47.90	33.80	3.56	45.50	32.80	3.99	42.91	31.75	4.47	40.13	30.62	5.01
	63.0 (17.2)††	48.19	34.21	2.88	46.25	33.33	3.18	44.16	32.39	3.54	41.92	31.39	3.97	39.51	30.33	4.46	36.94	29.21	4.99
	62.0 (16.7)	47.28	41.82	2.88	45.39	40.93	3.17	43.37	39.97	3.54	41.21	38.94	3.97	38.93	37.82	4.45	36.62	36.62	4.99
	57.0 (13.9)	45.18	45.18	2.86	43.72	43.72	3.16	42.13	42.13	3.53	40.42	40.42	3.96	38.56	38.56	4.45	36.56	36.56	4.99
1400	72.0 (22.2)	58.49	30.10	3.00	56.23	29.24	3.28	53.74	28.35	3.63	51.08	27.33	4.04	48.19	26.28	4.52	45.07	25.16	5.06
	67.0 (19.4)	52.84	36.91	2.95	50.75	36.03	3.23	48.50	35.10	3.59	46.04	34.09	4.02	43.39	33.02	4.50	40.55	31.88	5.03
	63.0 (17.2)††	48.85	35.43	2.91	46.87	34.54	3.21	44.73	33.59	3.57	42.43	32.58	4.00	39.96	31.50	4.48	37.33	30.37	5.02
	62.0 (16.7)	48.00	43.61	2.91	46.08	42.70	3.20	44.02	41.71	3.57	41.84	40.62	3.99	39.60	39.60	4.48	37.50	37.50	5.02
	57.0 (13.9)	46.42	46.42	2.90	44.90	44.90	3.20	43.25	43.25	3.56	41.46	41.46	3.99	39.53	39.53	4.48	37.44	37.44	5.02
1600	72.0 (22.2)	59.71	31.70	3.06	57.35	30.83	3.34	54.78	29.89	3.69	51.99	28.88	4.10	48.97	27.83	4.58	45.74	26.66	5.11
	67.0 (19.4)	54.00	39.47	3.01	51.82	38.57	3.29	49.47	37.62	3.65	46.91	36.59	4.07	44.17	35.50	4.55	41.24	34.31	5.09
	63.0 (17.2)††	49.93	37.81	2.97	47.87	36.90	3.26	45.64	35.93	3.63	43.25	34.89	4.05	40.69	33.80	4.53	37.97	32.63	5.07
	62.0 (16.7)	49.28	47.03	2.97	47.33	46.03	3.26	45.58	44.19	3.63	43.36	43.36	4.05	41.28	41.28	4.54	39.04	39.04	5.08
	57.0 (13.9)	48.59	48.59	2.96	46.97	46.97	3.26	45.20	45.20	3.62	43.28	43.28	4.05	41.22	41.22	4.54	38.98	38.98	5.08
GH8TAN54800A Outdoor Section With FG5ANBD60L* Indoor Section - Low																			
960	72.0 (22.2)	41.87	21.35	1.76	39.64	20.49	2.03	37.34	19.63	2.34	34.94	18.76	2.68	32.49	17.83	3.07	30.00	16.92	3.49
	67.0 (19.4)	37.63	25.97	1.80	35.55	25.08	2.07	33.33	24.13	2.37	30.98	23.21	2.72	28.54	22.11	3.10	25.99	21.04	3.54
	63.0 (17.2)††	34.51	24.82	1.83	32.56	23.93	2.10	30.43	22.95	2.40	28.12	21.92	2.74	25.66	20.83	3.13	23.10	19.69	3.56
	62.0 (16.7)	33.78	30.45	1.84	31.90	29.51	2.11	29.83	28.48	2.41	27.65	27.52	2.75	25.68	25.68	3.13	23.72	23.72	3.56
	57.0 (13.9)	32.49	32.49	1.85	31.00	31.00	2.12	29.33	29.33	2.41	27.53	27.53	2.75	25.63	25.62	3.13	23.59	23.58	3.57
1120	72.0 (22.2)	43.00	22.73	1.77	40.67	21.83	2.05	38.28	20.97	2.35	35.83	20.08	2.70	33.31	19.17	3.08	30.70	18.23	3.52
	67.0 (19.4)	38.73	28.15	1.82	36.55	27.22	2.09	34.25	26.25	2.39	31.84	25.24	2.73	29.33	24.19	3.12	26.72	23.11	3.56
	63.0 (17.2)††	35.57	26.87	1.85	33.53	25.93	2.12	31.30	24.94	2.42	28.93	23.87	2.76	26.43	22.76	3.15	23.83	21.60	3.58
	62.0 (16.7)	34.99	33.38	1.85	33.06	32.76	2.12	31.15	31.15	2.42	29.25	29.25	2.76	27.28	27.28	3.14	25.25	25.25	3.57
	57.0 (13.9)	34.50	34.50	1.86	32.87	32.87	2.12	31.09	31.09	2.42	29.20	29.20	2.76	27.24	27.24	3.14	25.13	25.13	3.57
1280	72.0 (22.2)	43.82	24.02	1.79	41.41	23.15	2.06	38.97	22.26	2.37	36.47	21.36	2.72	33.90	20.36	3.10	31.24	19.49	3.54
	67.0 (19.4)	39.56	30.24	1.83	37.30	29.29	2.10	34.95	28.29	2.41	32.50	27.26	2.75	29.96	26.19	3.14	27.36	25.08	3.57
	63.0 (17.2)††	36.37	28.82	1.87	34.25	27.86	2.14	31.97	26.84	2.44	29.56	25.75	2.78	27.03	24.61	3.17	24.43	23.39	3.60
	62.0 (16.7)	36.41	35.31	1.86	34.49	34.49	2.13	32.63	32.63	2.43	30.65	30.65	2.77	28.60	28.60	3.15	26.49	26.49	3.58
	57.0 (13.9)	36.18	36.18	1.87	34.43	34.43	2.13	32.56	32.56	2.43	30.58	30.58	2.77	28.53	28.53	3.15	26.45	26.45	3.58

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Detailed Cooling Capacities[#] (Continued)

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75.0 (23.9)			85.0 (29.4)			95.0 (35.0)			105.0 (40.6)			115.0 (46.1)			125.0 (51.7)		
		Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.	Capacity MBtuh		Total Sys.
CFM	EWB	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**	Total	Sens‡	KW**
GH8TAN56000A Outdoor Section With FG5ANBD60L* Indoor Section - High																			
1625	72.0 (22.2)	68.81	35.58	3.76	65.86	34.44	4.15	62.69	33.23	4.60	59.24	31.93	5.12	55.35	30.45	5.72	51.28	29.00	6.41
	67.0 (19.4)	62.45	43.70	3.72	59.77	42.57	4.11	56.91	41.35	4.56	53.79	40.05	5.07	50.38	38.65	5.67	46.63	37.12	6.35
	63.0 (17.2)††	57.83	42.02	3.69	55.35	40.89	4.08	52.70	39.68	4.53	49.82	38.39	5.04	46.68	37.00	5.63	43.23	35.49	6.31
	62.0 (16.7)	56.86	51.66	3.69	54.47	50.48	4.08	51.91	49.26	4.52	49.17	47.89	5.04	46.70	45.25	5.63	43.36	43.36	6.30
	57.0 (13.9)	54.78	54.78	3.68	52.89	52.89	4.07	50.84	50.84	4.52	48.60	48.60	5.03	46.11	46.11	5.63	43.33	43.33	6.31
1750	72.0 (22.2)	69.58	36.55	3.80	66.55	35.40	4.19	63.29	34.18	4.64	59.77	32.86	5.16	55.89	31.44	5.76	51.64	29.90	6.46
	67.0 (19.4)	63.19	45.28	3.76	60.44	44.13	4.15	57.50	42.90	4.60	54.31	41.59	5.12	50.77	40.21	5.71	46.99	38.61	6.40
	63.0 (17.2)††	58.53	43.49	3.74	55.98	42.35	4.13	53.27	41.12	4.57	50.32	39.81	5.09	47.11	38.41	5.68	43.59	36.87	6.36
	62.0 (16.7)	57.67	53.81	3.73	55.23	52.62	4.12	52.64	51.32	4.57	50.21	49.11	5.09	47.19	47.19	5.68	44.29	44.29	6.37
	57.0 (13.9)	56.18	56.18	3.72	54.21	54.21	4.12	52.07	52.07	4.56	49.72	49.72	5.08	47.13	47.13	5.68	44.22	44.22	6.37
2000	72.0 (22.2)	70.80	38.40	3.89	67.64	37.23	4.28	64.24	35.98	4.73	60.57	34.64	5.25	56.55	33.20	5.85	52.06	31.60	6.54
	67.0 (19.4)	64.37	48.33	3.85	61.50	47.15	4.24	58.44	45.90	4.69	55.12	44.54	5.20	51.49	43.07	5.80	47.56	41.48	6.49
	63.0 (17.2)††	59.65	46.32	3.82	57.01	45.15	4.21	54.18	43.90	4.66	51.12	42.55	5.17	47.80	41.10	5.76	44.17	39.51	6.45
	62.0 (16.7)	59.10	57.82	3.82	56.65	56.65	4.21	54.22	54.22	4.66	51.69	51.69	5.18	48.89	48.89	5.78	45.77	45.77	6.47
	57.0 (13.9)	58.56	58.56	3.82	56.43	56.43	4.21	54.14	54.14	4.66	51.62	51.62	5.18	48.83	48.83	5.77	45.71	45.71	6.47
GH8TAN56000A Outdoor Section With FG5ANBD60L* Indoor Section - Low																			
1200	72.0 (22.2)	50.30	25.87	2.15	48.23	25.17	2.45	45.83	24.62	2.78	43.27	23.43	3.13	40.23	22.39	3.52	36.69	21.20	3.92
	67.0 (19.4)	45.26	31.84	2.19	43.34	31.10	2.49	41.20	30.29	2.82	38.34	29.03	3.16	35.97	28.37	3.55	32.81	27.16	3.96
	63.0 (17.2)††	41.66	30.46	2.23	39.84	29.72	2.53	37.82	28.89	2.85	35.53	27.96	3.20	32.92	26.90	3.58	29.92	25.68	3.99
	62.0 (16.7)	40.93	37.66	2.23	39.18	36.91	2.53	37.29	36.02	2.85	35.36	35.36	3.20	33.31	33.31	3.57	30.95	30.95	3.98
	57.0 (13.9)	39.95	39.95	2.24	38.58	38.58	2.54	37.04	37.04	2.85	35.29	35.28	3.20	33.25	33.25	3.57	30.90	30.90	3.98
1400	72.0 (22.2)	51.49	27.60	2.18	49.33	26.84	2.48	46.89	26.01	2.81	44.16	25.09	3.16	40.95	24.02	3.55	37.35	22.83	3.96
	67.0 (19.4)	46.40	34.51	2.22	44.40	33.78	2.52	42.15	32.95	2.85	39.61	32.02	3.20	36.73	30.94	3.58	33.47	29.72	3.99
	63.0 (17.2)††	42.75	32.95	2.25	40.85	32.19	2.55	38.74	31.35	2.88	36.35	30.40	3.23	33.64	29.32	3.60	30.59	28.06	4.02
	62.0 (16.7)	42.33	42.06	2.26	40.75	40.75	2.55	39.09	39.09	2.87	37.16	37.16	3.22	34.98	34.98	3.59	32.44	32.44	4.00
	57.0 (13.9)	42.16	42.16	2.26	40.68	40.68	2.55	39.03	39.03	2.87	37.13	37.13	3.22	34.93	34.93	3.59	32.39	32.39	4.00
1600	72.0 (22.2)	52.41	29.18	2.21	50.15	28.44	2.52	47.63	27.60	2.84	44.78	26.67	3.20	41.46	25.60	3.58	37.74	24.49	3.99
	67.0 (19.4)	47.28	37.09	2.25	45.20	36.34	2.55	42.90	35.52	2.88	40.22	34.51	3.23	37.33	33.44	3.61	34.02	32.12	4.02
	63.0 (17.2)††	43.58	35.33	2.28	41.62	34.56	2.58	39.45	33.71	2.91	37.00	32.73	3.26	34.24	31.59	3.63	31.14	30.14	4.04
	62.0 (16.7)	44.07	44.07	2.28	42.49	42.49	2.57	40.73	40.73	2.89	38.69	38.69	3.24	36.35	36.35	3.61	33.62	33.62	4.02
	57.0 (13.9)	44.00	44.00	2.28	42.43	42.43	2.57	40.67	40.67	2.89	38.64	38.64	3.24	36.30	36.30	3.61	33.60	33.60	4.02

† Total and sensible capacities are net capacities. Blower motor heat has been subtracted.
‡ Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80°F (27°C), or add 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C).
**System kw is total of indoor and outdoor unit kilowatts.
††At TVA rating indoor condition (75°F edb/63°F ewb). All other indoor air temperatures are at 80°F edb.
Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240-2020. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
EWB — Entering Wet Bulb
NOTE: When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

HEAT PUMP HEATING PERFORMANCE

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																							
		-3.0 (-19.4)			7.0 (-13.9)			17.0 (-8.3)			27.0 (-2.8)			37.0 (2.8)			47.0 (8.3)			57.0 (13.9)			67.0 (19.4)		
EDB	CFM	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†
		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*	
GH8TAN52400A Outdoor Section With FG5ANXB24L* Indoor Section - High																									
65.0 (18.3)	650	8.94	8.22	1.30	11.48	10.55	1.37	14.50	13.22	1.45	17.42	15.47	1.52	20.75	18.88	1.61	24.63	24.63	1.72	29.00	29.00	1.86	33.71	33.71	2.01
	700	9.02	8.30	1.31	11.58	10.65	1.37	14.64	13.35	1.45	17.54	15.58	1.52	20.91	19.03	1.60	24.82	24.82	1.70	29.25	29.25	1.83	33.91	33.91	1.96
	805	9.19	8.46	1.32	11.73	10.78	1.38	14.77	13.47	1.45	17.76	15.77	1.51	21.20	19.29	1.58	25.16	25.16	1.68	29.66	29.66	1.80	34.22	34.22	1.91
70.0 (21.1)	650	8.63	7.94	1.36	11.14	10.24	1.43	14.15	12.90	1.51	17.22	15.30	1.60	20.46	18.62	1.69	24.26	24.26	1.80	28.57	28.57	1.94	33.32	33.32	2.12
	700	8.71	8.02	1.36	11.24	10.33	1.43	14.41	13.14	1.52	17.33	15.39	1.59	20.61	18.76	1.67	24.46	24.46	1.78	28.82	28.82	1.92	33.53	33.53	2.06
	805	8.88	8.17	1.38	11.43	10.50	1.44	14.60	13.31	1.52	17.53	15.57	1.58	20.89	19.01	1.66	24.80	24.80	1.76	29.23	29.23	1.88	33.72	33.72	1.98
75.0 (23.9)	650	8.32	7.65	1.41	10.82	9.94	1.49	13.68	12.47	1.58	16.97	15.07	1.67	20.18	18.36	1.77	23.91	23.91	1.89	28.16	28.16	2.03	32.87	32.87	2.22
	700	8.40	7.73	1.42	10.91	10.03	1.49	13.80	12.58	1.58	17.08	15.17	1.66	20.32	18.49	1.75	24.10	24.10	1.87	28.40	28.40	2.01	33.15	33.15	2.18
	805	8.56	7.87	1.44	11.10	10.20	1.50	14.03	12.79	1.58	17.29	15.35	1.66	20.59	18.74	1.74	24.44	24.44	1.84	28.80	28.80	1.97	33.38	33.38	2.09
GH8TAN52400A Outdoor Section With FG5ANXB24L* Indoor Section - Low																									
65.0 (18.3)	480	5.15	4.73	0.97	6.62	6.08	1.03	8.80	8.03	1.06	11.18	9.93	1.10	14.04	12.77	1.15	16.56	16.56	1.18	19.38	19.38	1.23	22.50	22.50	1.28
	560	5.26	4.83	0.98	6.76	6.21	1.03	8.97	8.18	1.06	11.38	10.11	1.08	14.25	12.97	1.12	16.85	16.85	1.14	19.76	19.76	1.18	22.97	22.97	1.22
	645	5.39	4.95	0.99	6.88	6.32	1.04	9.12	8.31	1.06	11.55	10.26	1.08	14.41	13.11	1.10	17.08	17.08	1.12	20.07	20.07	1.14	23.37	23.37	1.17
70.0 (21.1)	480	4.87	4.48	1.02	6.29	5.78	1.08	8.47	7.73	1.12	10.80	9.59	1.15	13.32	12.12	1.19	16.28	16.28	1.25	19.05	19.05	1.30	22.13	22.13	1.36
	560	4.98	4.58	1.02	6.43	5.91	1.08	8.65	7.89	1.11	11.01	9.78	1.14	13.77	12.53	1.17	16.56	16.56	1.21	19.42	19.42	1.24	22.57	22.57	1.29
	645	5.08	4.68	1.04	6.55	6.02	1.09	8.80	8.02	1.11	11.23	9.98	1.13	14.20	12.92	1.17	16.80	16.80	1.18	19.73	19.73	1.21	22.97	22.97	1.24
75.0 (23.9)	480	4.52	4.17	1.06	5.89	5.42	1.13	8.10	7.39	1.17	10.43	9.27	1.21	12.94	11.77	1.25	16.00	16.00	1.32	18.71	18.71	1.37	21.69	21.69	1.43
	560	4.64	4.26	1.07	6.03	5.54	1.13	8.28	7.55	1.17	10.65	9.46	1.20	13.29	12.09	1.23	16.28	16.28	1.28	19.08	19.08	1.32	22.22	22.22	1.37
	645	4.79	4.40	1.09	6.22	5.71	1.14	8.48	7.73	1.17	10.89	9.67	1.19	13.53	12.31	1.22	16.51	16.51	1.25	19.39	19.39	1.28	22.62	22.62	1.32
GH8TAN53600A Outdoor Section With FG5ANXC36L* Indoor Section - High																									
65.0 (18.3)	975	15.26	14.03	2.08	19.03	17.48	2.21	23.28	21.23	2.35	27.38	24.32	2.49	32.04	29.16	2.65	37.30	37.30	2.85	43.16	43.16	3.08	49.81	49.81	3.40
	1050	15.39	14.16	2.09	19.18	17.63	2.21	23.41	21.34	2.35	27.55	24.47	2.48	32.25	29.35	2.64	37.55	37.55	2.82	43.47	43.47	3.06	50.24	50.24	3.36
	1205	15.65	14.39	2.12	19.50	17.92	2.23	23.68	21.59	2.36	27.86	24.75	2.48	32.63	29.69	2.63	38.00	38.00	2.80	44.01	44.01	3.02	50.91	50.91	3.33
70.0 (21.1)	975	14.82	13.64	2.17	18.58	17.07	2.30	23.01	20.98	2.46	27.05	24.03	2.61	31.64	28.79	2.77	36.81	36.81	2.97	42.57	42.57	3.22	49.03	49.03	3.54
	1050	14.96	13.76	2.18	18.73	17.21	2.31	23.14	21.10	2.46	27.22	24.17	2.60	31.84	28.97	2.76	37.06	37.06	2.95	42.88	42.88	3.19	49.45	49.45	3.50
	1205	15.21	13.99	2.21	19.02	17.48	2.33	23.40	21.34	2.47	27.52	24.44	2.59	32.21	29.31	2.74	37.50	37.50	2.92	43.41	43.41	3.15	50.11	50.11	3.46
75.0 (23.9)	975	14.37	13.22	2.26	18.14	16.67	2.40	22.74	20.73	2.58	26.73	23.74	2.73	31.24	28.43	2.90	36.32	36.32	3.11	41.99	41.99	3.37	48.28	48.28	3.70
	1050	14.51	13.35	2.27	18.29	16.81	2.41	22.88	20.86	2.58	26.89	23.88	2.72	31.43	28.60	2.88	36.57	36.57	3.08	42.29	42.29	3.33	48.91	48.91	3.67
	1205	14.77	13.59	2.30	18.57	17.07	2.42	23.13	21.09	2.58	27.18	24.14	2.71	31.79	28.93	2.87	37.00	37.00	3.05	42.82	42.82	3.29	49.32	49.32	3.61
GH8TAN53600A Outdoor Section With FG5ANXC36L* Indoor Section - Low																									
65.0 (18.3)	720	9.71	8.94	1.63	12.12	11.14	1.74	15.27	13.93	1.81	18.73	16.63	1.87	22.62	20.59	1.96	26.09	26.09	2.02	29.86	29.86	2.11	33.92	33.92	2.23
	840	9.91	9.12	1.64	12.36	11.36	1.74	15.55	14.18	1.80	19.07	16.93	1.85	22.91	20.85	1.91	26.47	26.47	1.95	30.35	30.35	2.03	34.56	34.56	2.13
	965	10.08	9.27	1.65	12.57	11.55	1.74	15.79	14.39	1.79	19.40	17.23	1.84	23.16	21.07	1.88	26.78	26.78	1.91	30.76	30.76	1.97	35.07	35.07	2.06
70.0 (21.1)	720	9.23	8.50	1.71	11.58	10.64	1.82	14.77	13.47	1.90	18.22	16.18	1.97	22.29	20.29	2.07	25.71	25.71	2.14	29.41	29.41	2.23	33.41	33.41	2.36
	840	9.44	8.69	1.71	11.83	10.87	1.82	15.06	13.73	1.89	18.57	16.49	1.94	22.59	20.56	2.02	26.09	26.09	2.07	29.90	29.90	2.14	34.03	34.03	2.25
	965	9.63	8.85	1.73	12.05	11.07	1.83	15.30	13.95	1.88	18.85	16.74	1.93	22.84	20.78	1.99	26.40	26.40	2.03	30.30	30.30	2.09	34.54	34.54	2.18
75.0 (23.9)	720	8.69	7.99	1.79	10.97	10.08	1.91	14.21	12.96	1.99	17.68	15.70	2.07	21.89	19.92	2.19	25.33	25.33	2.26	28.97	28.97	2.35	32.90	32.90	2.48
	840	8.90	8.19	1.79	11.23	10.32	1.91	14.51	13.23	1.98	18.03	16.01	2.04	22.24	20.24	2.14	25.70	25.70	2.19	29.45	29.45	2.26	33.51	33.51	2.37
	965	9.10	8.37	1.82	11.45	10.52	1.92	14.76	13.45	1.98	18.33	16.28	2.03	22.51	20.48	2.10	26.00	26.00	2.14	29.83	29.83	2.21	34.00	34.00	2.30

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

HEAT PUMP HEATING PERFORMANCE (Continued)

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																							
EDB	CFM	-3.0 (-19.4)			7.0 (-13.9)			17.0 (-8.3)			27.0 (-2.8)			37.0 (2.8)			47.0 (8.3)			57.0 (13.9)			67.0 (19.4)		
		Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†	Capacity MBtuh		Total Sys. KW†
		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*	
GH8TAN54800A Outdoor Section With FG5ANBD60L* Indoor Section - High																									
65.0 (18.3)	1300	20.66	19.00	2.63	25.60	23.53	2.77	31.31	28.54	2.93	37.04	32.90	3.08	42.67	38.83	3.25	48.81	48.81	3.45	55.47	55.47	3.69	63.07	63.07	4.02
	1400	20.87	19.20	2.64	25.84	23.74	2.77	32.06	29.23	2.93	37.26	33.10	3.06	42.95	39.09	3.21	49.16	49.16	3.40	55.91	55.91	3.64	63.69	63.69	3.95
	1600	21.25	19.55	2.66	26.26	24.13	2.78	32.44	29.58	2.92	37.67	33.46	3.04	43.47	39.56	3.18	49.75	49.75	3.34	56.66	56.66	3.56	64.63	64.63	3.86
70.0 (21.1)	1300	19.76	18.18	2.75	24.79	22.78	2.90	30.34	27.66	3.06	36.54	32.46	3.25	42.11	38.32	3.41	48.16	48.16	3.62	54.69	54.69	3.87	62.09	62.09	4.20
	1400	19.96	18.37	2.76	25.01	22.99	2.90	30.60	27.90	3.05	36.76	32.65	3.22	42.38	38.57	3.38	48.50	48.50	3.57	55.11	55.11	3.81	62.69	62.69	4.13
	1600	20.33	18.71	2.78	25.43	23.37	2.91	31.09	28.35	3.04	37.16	33.01	3.19	42.85	39.00	3.33	49.08	49.08	3.51	55.86	55.86	3.73	63.64	63.64	4.03
75.0 (23.9)	1300	18.84	17.33	2.88	23.98	22.04	3.04	29.54	26.94	3.21	36.10	32.07	3.42	41.58	37.84	3.59	47.53	47.53	3.80	53.95	53.95	4.06	61.13	61.13	4.40
	1400	19.04	17.52	2.89	24.20	22.24	3.04	29.79	27.16	3.20	36.29	32.23	3.39	41.83	38.06	3.56	47.87	47.87	3.75	54.37	54.37	4.00	61.71	61.71	4.32
	1600	19.41	17.86	2.91	24.59	22.60	3.05	30.25	27.58	3.19	36.66	32.56	3.36	42.28	38.48	3.51	48.42	48.42	3.68	55.07	55.07	3.91	62.64	62.64	4.22
GH8TAN54800A Outdoor Section With FG5ANBD60L* Indoor Section - Low																									
65.0 (18.3)	960	12.24	11.25	2.00	15.17	13.94	2.11	19.96	18.20	2.16	24.30	21.58	2.21	28.79	26.20	2.27	33.44	33.44	2.38	36.35	36.35	2.45	38.87	38.87	2.55
	1120	12.15	11.18	2.01	15.05	13.83	2.11	20.13	18.35	2.15	24.66	21.91	2.18	29.38	26.74	2.23	34.06	34.06	2.30	37.08	37.08	2.35	39.64	39.64	2.41
	1280	12.13	11.16	2.01	15.00	13.78	2.11	20.25	18.46	2.14	24.93	22.14	2.16	29.85	27.17	2.20	34.53	34.53	2.25	37.64	37.64	2.28	40.24	40.24	2.32
70.0 (21.1)	960	12.63	11.62	2.13	15.85	14.57	2.25	19.74	17.99	2.29	23.61	20.97	2.33	27.88	25.37	2.39	32.75	32.75	2.51	35.67	35.67	2.59	38.26	38.26	2.70
	1120	12.70	11.69	2.13	15.92	14.63	2.24	20.00	18.24	2.27	24.04	21.35	2.30	28.52	25.96	2.35	33.40	33.40	2.44	36.40	36.40	2.49	39.02	39.02	2.56
	1280	12.76	11.74	2.14	15.97	14.67	2.25	20.18	18.40	2.27	24.36	21.63	2.28	29.01	26.40	2.32	33.88	33.88	2.38	36.97	36.97	2.41	39.61	39.61	2.47
75.0 (23.9)	960	12.32	11.33	2.25	15.69	14.42	2.38	18.94	17.27	2.41	22.70	20.16	2.45	26.85	24.43	2.51	31.88	31.88	2.65	34.98	34.98	2.74	37.66	37.66	2.85
	1120	12.50	11.50	2.25	15.89	14.60	2.37	19.29	17.59	2.39	23.22	20.62	2.42	27.64	25.15	2.47	32.64	32.64	2.57	35.69	35.69	2.63	38.39	38.39	2.71
	1280	12.66	11.65	2.27	16.05	14.75	2.38	19.58	17.85	2.39	23.61	20.97	2.41	28.17	25.64	2.44	33.17	33.17	2.52	36.27	36.27	2.56	38.98	38.98	2.61
GH8TAN56000A Outdoor Section With FG5ANBD60L* Indoor Section - High																									
65.0 (18.3)	1625	24.87	22.88	3.26	30.86	28.36	3.42	37.35	34.06	3.58	44.27	39.32	3.76	50.75	46.18	3.93	57.85	57.85	4.12	66.07	66.07	4.36	74.79	74.79	4.59
	1750	25.11	23.10	3.27	31.13	28.61	3.43	37.78	34.45	3.59	44.54	39.56	3.75	51.08	46.48	3.91	58.26	58.26	4.09	66.62	66.62	4.32	75.03	75.03	4.52
	2000	25.54	23.50	3.31	31.60	29.04	3.46	38.94	35.51	3.62	45.04	40.00	3.75	51.65	47.00	3.89	58.99	58.99	4.05	67.53	67.53	4.26	75.21	75.21	4.42
70.0 (21.1)	1625	24.03	22.10	3.41	30.07	27.64	3.58	36.50	33.28	3.74	43.75	38.85	3.94	50.13	45.62	4.11	57.27	57.27	4.32	65.09	65.09	4.56	73.84	73.84	4.81
	1750	24.26	22.32	3.43	30.34	27.88	3.59	36.80	33.55	3.74	44.04	39.11	3.93	50.45	45.91	4.09	57.50	57.50	4.28	65.63	65.63	4.51	74.16	74.16	4.72
	2000	24.69	22.72	3.47	30.81	28.31	3.62	37.34	34.04	3.76	44.49	39.51	3.93	51.01	46.42	4.07	58.19	58.19	4.24	66.53	66.53	4.45	74.44	74.44	4.62
75.0 (23.9)	1625	23.16	21.31	3.56	29.27	26.89	3.74	35.67	32.52	3.91	43.27	38.43	4.13	49.53	45.07	4.31	56.35	56.35	4.51	64.11	64.11	4.77	72.85	72.85	5.04
	1750	23.39	21.52	3.58	29.52	27.13	3.75	35.97	32.79	3.91	43.53	38.66	4.12	49.84	45.35	4.28	56.75	56.75	4.48	64.63	64.63	4.72	73.26	73.26	4.95
	2000	23.82	21.91	3.62	29.99	27.56	3.78	36.49	33.27	3.93	43.97	39.05	4.11	50.39	45.86	4.26	57.42	57.42	4.43	65.53	65.53	4.65	73.63	73.63	4.84
GH8TAN56000A Outdoor Section With FG5ANBD60L* Indoor Section - Low																									
65.0 (18.3)	1200	14.77	13.58	2.43	18.33	16.84	2.55	23.97	21.86	2.62	28.99	25.75	2.67	33.42	30.42	2.72	39.06	39.06	2.83	42.60	42.60	2.89	46.09	46.09	2.98
	1400	15.13	13.91	2.44	18.76	17.24	2.56	24.51	22.34	2.61	29.55	26.24	2.65	34.23	31.15	2.68	39.59	39.59	2.75	43.26	43.26	2.78	46.89	46.89	2.84
	1600	15.48	14.25	2.46	19.16	17.61	2.58	24.99	22.78	2.62	30.00	26.65	2.64	34.72	31.60	2.65	40.03	40.03	2.70	43.76	43.76	2.71	47.33	47.33	2.75
70.0 (21.1)	1200	13.68	12.58	2.53	17.12	15.74	2.66	22.88	20.86	2.75	27.95	24.82	2.81	32.55	29.62	2.87	38.39	38.39	3.00	41.98	41.98	3.06	45.33	45.33	3.16
	1400	14.05	12.92	2.56	17.58	16.15	2.68	23.40	21.34	2.74	28.55	25.36	2.79	33.16	30.18	2.82	39.00	39.00	2.92	42.63	42.63	2.95	46.15	46.15	3.02
	1600	14.38	13.23	2.58	17.95	16.49	2.70	23.75	21.66	2.75	29.02	25.77	2.78	33.84	30.80	2.80	39.45	39.45	2.87	43.15	43.15	2.88	46.81	46.81	2.93
75.0 (23.9)	1200	12.44	11.45	2.64	15.73	14.45	2.78	21.67	19.76	2.88	26.90	23.89	2.95	31.67	28.82	3.02	36.55	36.55	3.12	41.34	41.34	3.25	44.62	44.62	3.34
	1400	12.76	11.73	2.67	16.11	14.80	2.80	22.18	20.22	2.88	27.47	24.39	2.93	32.30	29.40	2.98	37.56	37.56	3.05	41.99	41.99	3.13	45.46	45.46	3.20
	1600	13.28	12.21	2.71	16.72	15.36	2.83	22.60	20.61	2.89	27.93	24.81	2.93	32.84	29.88	2.95	38.80	38.80	3.04	42.51	42.51	3.06	46.12	46.12	3.11

* The Btuh heating capacity values shown are net integrated values from which the defrost effect has been subtracted. The Btuh heating from supplement heaters should be added to those values to obtain total system capacity.
† The kW values include the compressor, outdoor fan motor, and indoor blower motor. The kW from supplement heaters should be added to these values to obtain total system kilowatts.

EDB— Entering Dry Bulb

NOTE: When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

Guide Specifications

GENERAL

Air-cooled, split-system heat pump
GH8T

System Description

Outdoor-mounted, air-cooled, split-system heat pump unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, propeller-type condenser fan, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a packaged fan coil or coil unit.

Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 210/240.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ANSI/ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have C-UL approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils will be leak tested and pressure tested.
- Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

- Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

Warranty (for inclusion by specifying engineer)

- U.S. and Canada only.

PRODUCTS

Equipment

- Factory assembled, single piece, air-cooled heat pump unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge Puron Advance™ (R-454B), and special features required prior to field start-up.

Unit Cabinet

- Unit cabinet will be constructed of galvanized steel, bonderized, and coated with pre-paint.

Fans

Condenser fan will be direct-drive propeller type, discharging air upward.

- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated bearings. Shafts will be corrosion resistant.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.

Condenser Coil

- Condenser coil will be air cooled.
- Coil will be constructed of aluminum fins mechanically bonded to copper or aluminum tubes which are then cleaned, dehydrated, and sealed.

Refrigeration Components

- Refrigeration circuit components will include liquid-line shutoff valve with sweat connections, vapor-line shutoff valve with sweat connections, system charge of Puron Advance™ (R-454B) refrigerant, POE compressor oil, accumulator and reversing valve.

Operating Characteristics

- The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F/°C. The power consumption at full load will not exceed _____ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F/°C wet bulb and _____ °F/°C dry bulb, and air entering the unit at _____ °F/°C.
- The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

- Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.

Special Features

- Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.

System Design Summary

1. System must be installed with factory approved R454B Indoor unit only.
2. Factory authorized dissipation control board must be installed with indoor unit.
3. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
4. Minimum outdoor operating air temperature without low-ambient operation accessory is 55°F (12.8°C).
5. The maximum outdoor operating ambient in cooling mode is 125°F (51.67°C) when operating voltage is 230v.
6. Minimum outdoor operating air temperature for heating mode is -8°F (-22.2°C).
7. Maximum outdoor operating air temperature for heating mode is 66°F (18.9°C).
8. For reliable operation, unit must be level in all horizontal planes.
9. For interconnecting refrigerant tube lengths greater than 80 ft (23.4 m) and/or elevation differences between indoor and outdoor units greater than 20 ft (6.1 m), consult Residential Piping and Long Line Guideline and Service Manual available from equipment distributor.
10. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
11. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
12. Do not apply capillary tube indoor coils to these units.
13. Factory-supplied filter drier must be installed.