



Geothermal Split System Air Handler Product Data

- R-410A Refrigerant
- 2 - 5 Ton Capacity
- Up to 6 Ton Splits with Refrigerant / Hydronic Coil Option

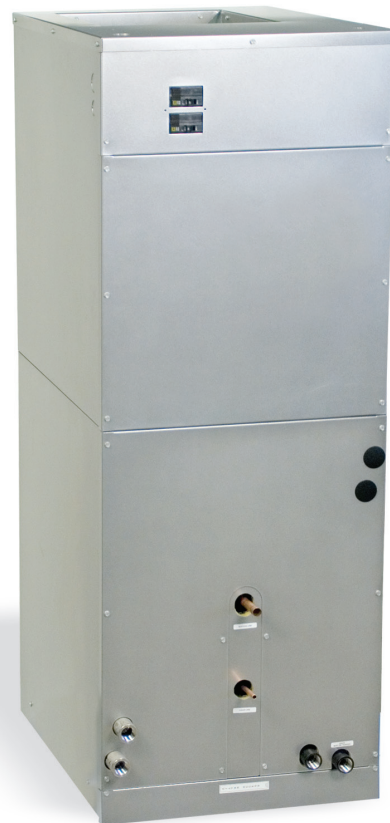


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GA Series Air Handler

General Introduction

The GA Air Handler is a high-efficiency air handler that carries the quality to complement our industry-leading GN and GE Split Series units. The GA Air Handler is available in 2 to 5 ton capacities with a refrigerant/hydronic coil option that allows it to be compatible with the 2 to 6 ton splits. The Air Handler comes standard with a variable speed (ECM) motor for maximum comfort and savings. Optional internal electric heat is also available and can be either factory or field installed.

The GA Series Air Handler air coils in the refrigerant models are designed for ozone-safe R-410A refrigerant. Configured as an 'A' coil, rifflled copper tubes and enhanced corrugated lanced aluminum fins provide high efficiencies at low face velocities. Both the refrigerant and hydronic coils have an exclusive coating for added protection.

The air handler's cabinet is constructed of heavy gauge environmentally-responsible galvanized steel for maximum corrosion resistance. All units are painted with a metallic powder coat finish. All interior surfaces are lined with ½" thick foil lined acoustic fiber insulation applied in a manner that prevents the introduction of glass fibers into the air stream. The narrow cabinets are shipped in one piece but can be separated into two pieces for ease of installation in tight places such as attics, and a field adjustable four position design also allows for horizontal, vertical, and bottom flow right/left configurations.

Other features include a blower assembly that can slide in and out for ease of conversion in the field and an ECM interface board that allows for fan speed selection and thermostat inputs. The GA Air Handler also comes standard with a factory-installed TXV with internal check valve located inside the cabinet, a 1" filter rack, and two corrosion-proof stainless steel drain pans. One for vertical and one for horizontal applications —both have dual drain connections.

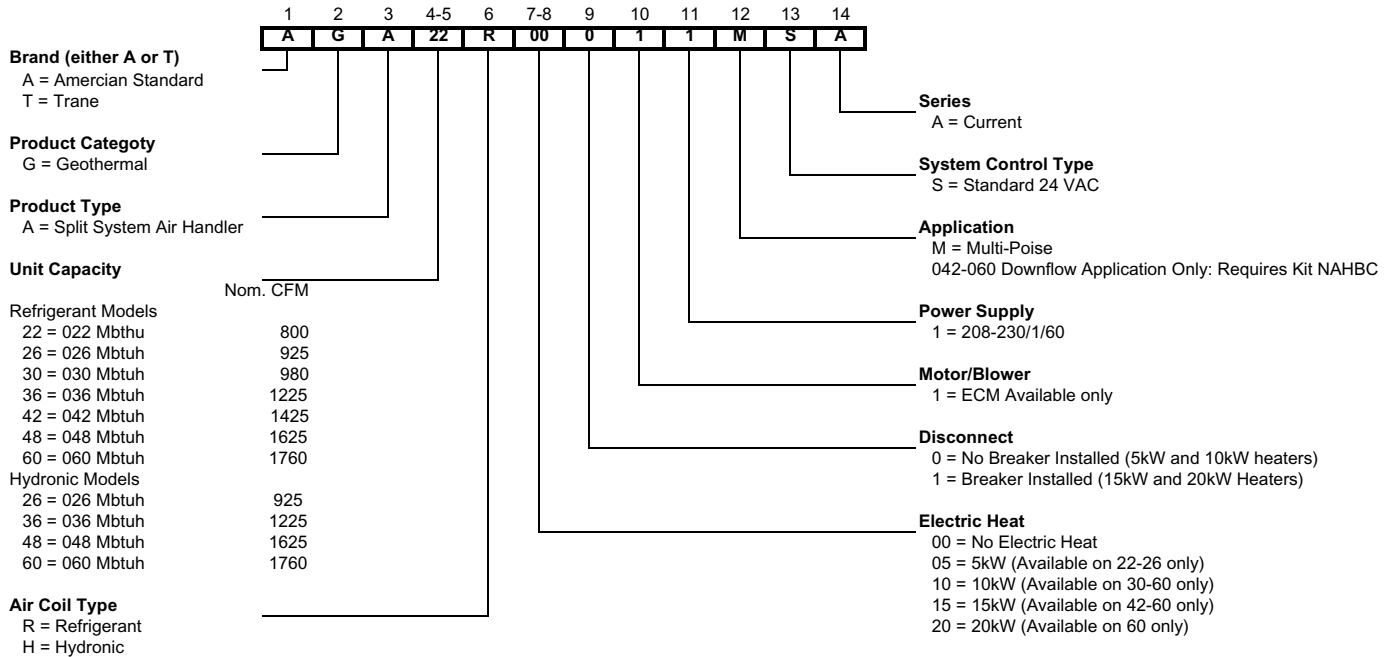
GA Air Handler units are performance-certified to ARI ISO 13256-1 standards, are ETL safety listed, and are ENERGY STAR® qualified.

Because GA Air Handlers are used in conjunction with GN/GE Split Series Heat Pumps, refer to the documents included with those units for further operating and service information.

As a leader in the industry, we are dedicated to innovation, quality and customer satisfaction. In fact, every unit built is exposed to a wide range of quality control procedures throughout the assembly process and is then subjected to a rigorous battery of computerized run tests to certify that it meets or exceeds performance standards for efficiency and safety, and will perform flawlessly at startup. As further affirmation of our quality standards, each unit carries our exclusive Quality Assurance emblem, signed by the final test technician.



Model Nomenclature



Physical Data

Air Handler Model Number (Refrigerant)		GA022	GA026	GA030	GA036	GA042	GA048	GA060
Evaporator Coil	Air Coil Total Face Area, ft2 [m2]	5.83 [0.54]						
	Tube outside diameter - in. [mm]	3/8 [9.52]						
	Number of rows	2				3		
	Fins per inch	12						
	Suction line connection - in. [mm] sweat	5/8 [15.87]				7/8 [22.22]		
	Liquid line connection - in. [mm] sweat	3/8 [9.52]						
Refrigerant		R-410a						
Nominal cooling capacity - tons [kW]		1.8 [6.44]	2.1 [7.59]	2.5 [8.79]	3 [10.55]	3.5 [12.30]	4 [14.06]	5 [17.58]
Condensate drain connection - (FPT) in. [mm]		3/4 [19.05]						
Blower Wheel Size (Dia x W), in. [mm]		11 x 10 [279 x 254]						
Blower motor type/speeds		ECM variable speed						
Blower motor output - hp [W]		1/2 [373]				1 [746]		
Filter Standard - 1" [51mm] MERV3 disposable, in. [mm]		20 x 24 [508 x 635]						
Electrical characteristics (60hz)		208/230 - 1ph						
Shipping weight - lbs. [kg]		215 [97.52]				220 [99.79]		
Operating weight - lbs. [kg]		195 [88.45]				200 [90.71]		

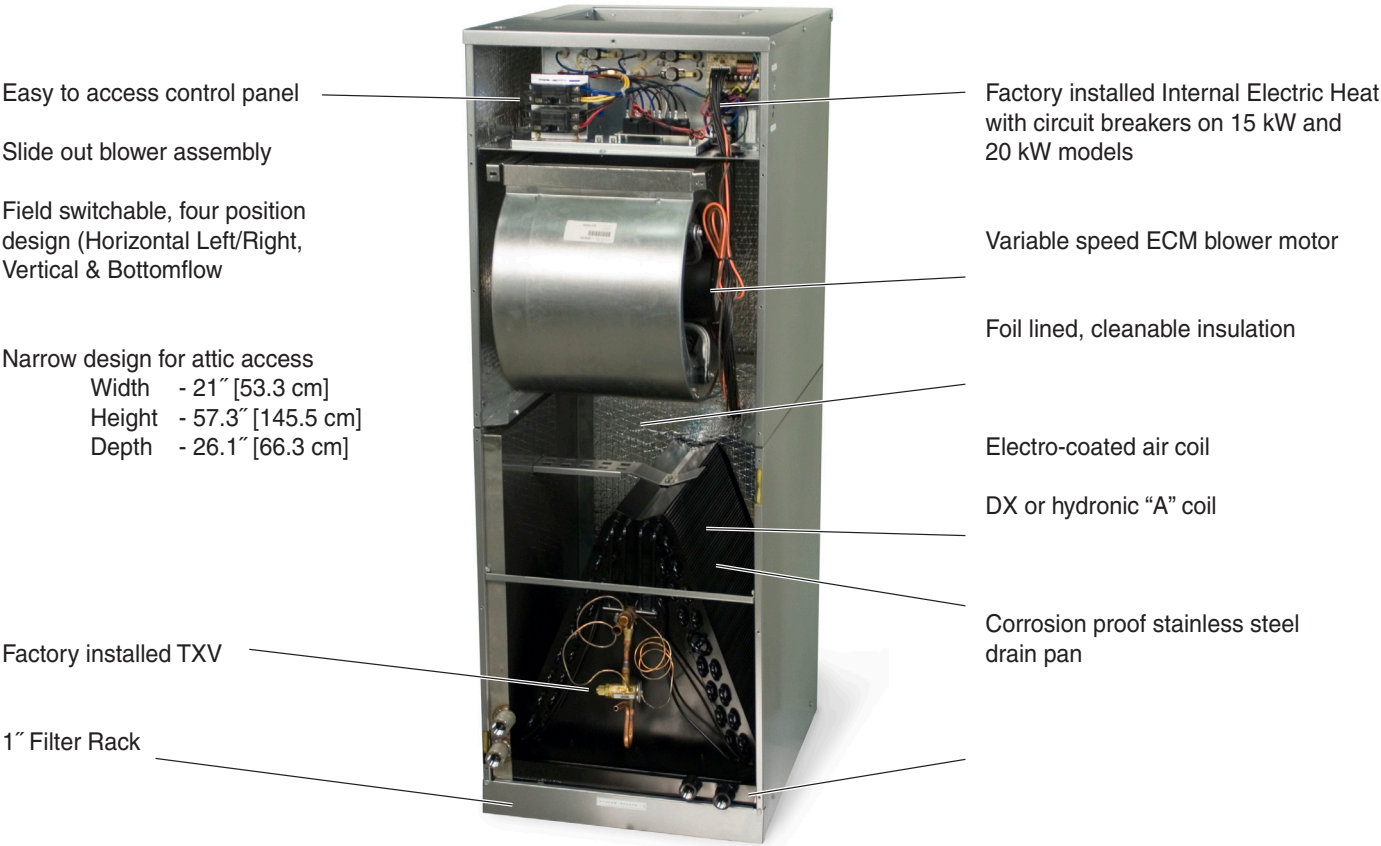
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Air Handler Model Number (Hydronic)		GA022 - GA060			
Hydronic Coil	Air Coil Total Face Area, ft2 [m2]	6.94 [0.64]			
	Tube outside diameter - in. [mm]	3/8 [9.52]			
	Number of rows	3			
	Fins per inch	13			
	Water In connection - in. [mm] sweat	7/8 [22.22]			
	Water Out connection - in. [mm] sweat	7/8 [22.22]			
Nominal cooling capacity - tons [kW]		2.1 [7.59]	3 [10.55]	4 [14.06]	5 [17.58]
Condensate drain connection - (FPT) in. [mm]		3/4 [19.05]			
Blower Wheel Size (Dia x W), in. [mm]		11 x 10 [279 x 254]			
Blower motor type/speeds		ECM variable speed			
Blower motor output - hp [W]		1/2 [373]		1 [746]	
Filter Standard - 1" [51mm] MERV3 disposable, in. [mm]		20 x 24 [508 x 635]			
Electrical characteristics (60hz)		208/230 - 1ph			
Shipping weight - lbs. [kg]		220 [99.79]			
Operating weight - lbs. [kg]		200 [90.71]			

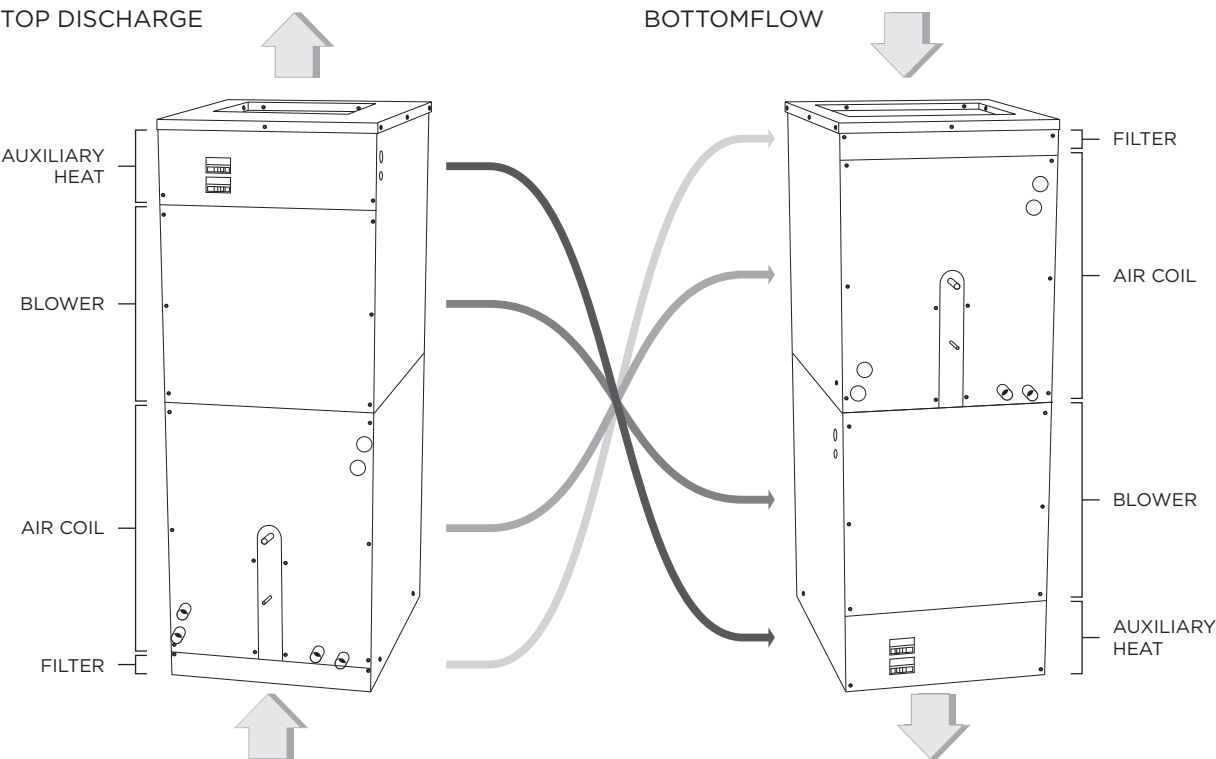
Note: Water connection dimensions are O.D.

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Design Features and Benefits



Ease of Conversion



GA Series Air Handler Features and Benefits

Air Coil

Designed for R-410A refrigerant. Configured as a 'A' coil, rifled copper tubes and enhanced corrugated lanced aluminum fins to provide high efficiencies at low face velocities. Electro-coated for added protection.

Cabinet

Constructed of heavy gauge environmentally-responsible galvanized steel for maximum corrosion resistance. All units are painted with a silver metallic powder coat finish. All interior surfaces are lined with 1/2" thick, foil lined acoustic type fiber insulation, applied in a manner that prevents the introduction of glass fibers into the air stream. Multiple knockouts in various sizes facilitate power and low voltage wiring. Multiple access panels for ease of service.

Controls

ECM interface board allows for blower speed selection and thermostat inputs.

Auxiliary/Emergency Heat

Optional factory installed electric heat.

Installation Ease

Cabinets are shipped in one piece but can be separated into two pieces for ease of installation in tight spaces.

Auxiliary/ Emergency Electric Heat

Electric heat packages can be factory or field installed. For field installed electric heat the Auxiliary Heat Compatibility table below shows the available heater packages for the air handler.

Configurations

Cabinets are factory configured for upflow and horizontal left hand air discharge installation but can be easily configured for horizontal right hand or bottomflow air discharge.

Drain Pans

Two stainless steel drain pans included. One for vertical and one for horizontal applications — both have dual drains.

Electrical Disconnect

Factory installed circuit breaker on 15 kW/20 kW heaters.

Expansion Device

Factory installed TXV with internal check valve inside of cabinet.

Refrigerant Connections

Suction and liquid lines have sweat connections extended outside of cabinet for ease of connection.

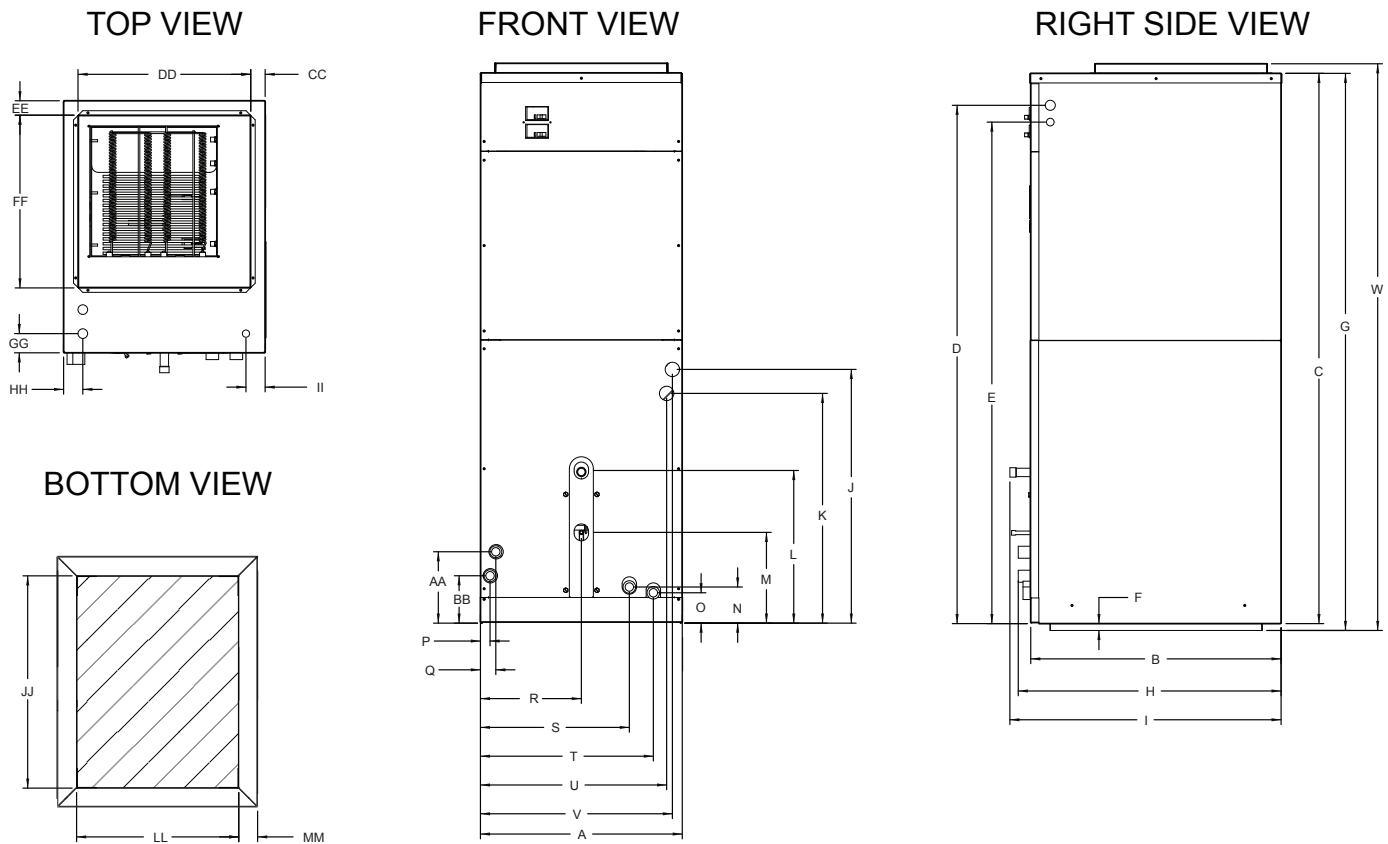
Auxiliary Heat Compatibility

Model	kW	Stages	Min CFM	G Series Air Handler Compatibility			
				022 - 026	030 - 036	042 - 048	060
19P578-01	5	1	740	✓	✓		
19P578-02	10	2	900		✓	✓	✓
19P578-03	15	2	1275			✓	✓
19P578-04	20	2	1700				✓

6/30/2008

Dimensional Data

Top Flow/Horizontal Unit Configuration



Topflow/ Horizontal Configuration		Overall Cabinet											Refrigerant/Water Connections							
					D	E	F													
		A	B	C	3/4" cond Power Supply	1/2" cond Low Voltage	Return Air Duct Flange	G	H	I	J	K	L Suction / Water Out	M Liquid / Water In	N	O	P	Q	R	S
026-060	in.	21.0	26.1	57.3	54.0	52.3	0.7	58.1	27.4	28.3	26.4	23.9	15.9	9.5	3.8	3.2	0.9	1.5	10.5	15.5
	cm.	53.4	66.3	145.6	137.2	132.7	1.8	147.4	69.6	71.8	67.2	60.8	40.4	24.0	9.6	8.1	2.4	3.9	26.7	39.4

														GG	HH	II				
S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	1" cond Power Supply	1/2" cond Low Voltage		JJ	KK	LL	MM
15.5	18.0	19.5	20.1	59.5	15.1	53.1	51.3	7.4	4.9	1.5	18.0	1.5	18.0	2.0	2.0	2.0	22.1	2.0	16.9	1.96
39.4	45.8	49.5	51.0	151.1	38.4	134.9	130.2	18.9	12.5	3.8	45.7	3.8	45.7	5.1	5.1	5.1	56.2	5.0	42.9	5.0

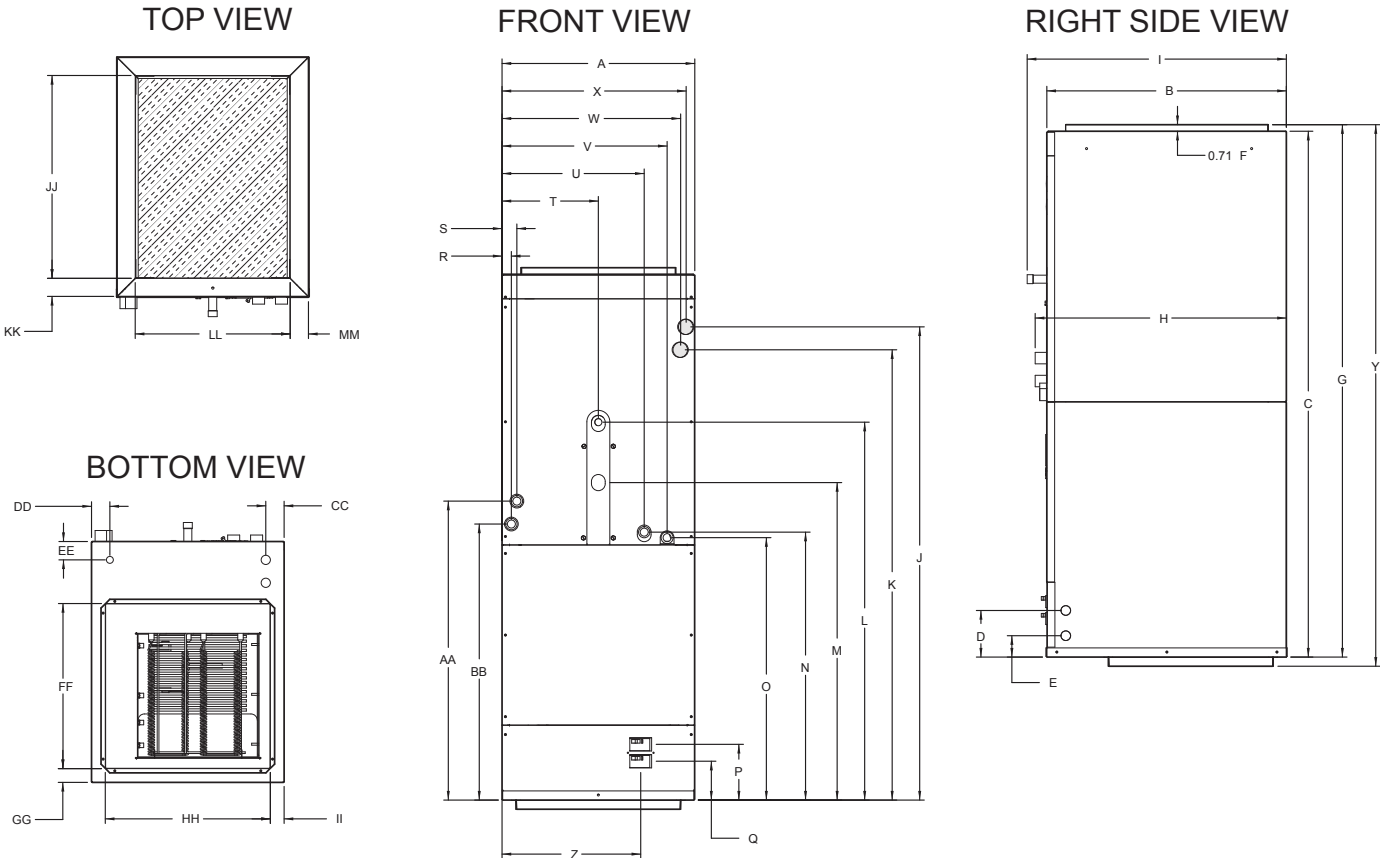
Condensate is stainless steel 3/4" FPT

Discharge flange is field installed and extends 1" (25.4 mm) from cabinet

Rev:A/3/12/08

Dimensional Data cont.

Bottom Flow Unit Configuration



Bottomflow Configuration		Overall Cabinet										Refrigerant/Water Connections							
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Width	Depth	Height	3/4" cond Low Voltage	1" cond Power Supply	Return Air Duct Flange							Suction / Water Out	Liquid / Water In						
026-060	in.	21.0	26.1	57.3	5.1	3.3	0.7	58.1	27.4	28.3	51.6	49.1	41.2	34.6	29.2	28.6	6.1	4.2	0.9
	cm.	53.4	66.3	145.6	12.9	8.5	1.8	147.4	69.6	71.8	131.1	124.7	104.7	87.9	74.2	72.7	15.4	10.8	2.4

										CC	DD	EE										
S	T	U	V	W	X	Y	Z	AA	BB	1" cond Power Supply	1/2" cond Low Voltage		FF	GG	HH	II	JJ	KK	LL	MM		
1.5	10.5	15.5	18.0	19.5	20.1	59.1	15.1	32.6	30.1	2.0	2.0	2.0	18.0	1.5	18.0	1.5	22.1	2.0	16.9	1.96		
3.9	26.7	39.4	45.8	49.5	51.0	150.0	38.4	82.8	76.5	5.1	5.1	5.1	45.7	3.8	45.7	3.8	56.2	5.0	42.9	5.0		

Condensate is stainless steel 3/4" FPT
Discharge flange is field installed and extends 1" (25.4 mm) from cabinet

Rev:A 3/12/08

Electrical Data

Model	Electric Heat Capacity		Supply Circuit	Aux. Heat Minimum CFM	Rated Voltage	Voltage Min/ Max	Blower Motor FLA	Heater Ampacity		Total Unit FLA		Minimum Circuit Ampacity		Maximum Fuse/HACR	
	KW	BTUH						208v	240v	208v	240v	208v	240v	208v	240v
	240v	240v													
GA 022	0	0	-		208-230/60/1	197/253	4.0	-	-	4.0	4.0	5.0	5.0	10	10
	4.8	16,382	single	740			4.0	17.3	20.0	21.3	24.0	26.6	30.0	30	30
GA 026	0	0	-				4.0	-	-	4.0	4.0	5.0	5.0	10	10
	4.8	16,382	single	740			4.0	17.3	20.0	21.3	24.0	26.6	30.0	30	30
GA 030	0	0	-				4.0	-	-	4.0	4.0	5.0	5.0	10	10
	4.8	16,382	single	740			4.0	17.3	20.0	21.3	24.0	26.6	30.0	30	30
	9.6	32,765	single	900			4.0	34.7	40.0	38.7	44.0	48.4	55.0	50	60
GA 036	0	0	-				4.0	-	-	4.0	4.0	5.0	5.0	10	10
	4.8	16,382	single	740			4.0	17.3	20.0	21.3	24.0	26.6	30.0	30	30
	9.6	32,765	single	900			4.0	34.7	40.0	38.7	44.0	48.4	55.0	50	60
GA 042	0	0	-				7.0	-	-	7.0	7.0	8.8	8.8	15	15
	9.6	32,765	single	900			7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60
	14.4	49,147	single	1,275			7.0	52.0	60.0	59.0	67.0	73.8	83.8	80	90
	14.4	49,147	L1/L2 L3/L4				7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60
GA 048	0	0	-				-	17.3	20.0	17.3	20.0	21.6	25.0	25	25
	9.6	32,765	single	900			7.0	-	-	7.0	7.0	8.8	8.8	15	15
	14.4	49,147	single	1,275			7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60
	14.4	49,147	L1/L2 L3/L4				7.0	52.0	60.0	59.0	67.0	73.8	83.8	80	90
	14.4	49,147	L1/L2 L3/L4				7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60
GA 060	0	0	-				-	17.3	20.0	17.3	20.0	21.6	25.0	25	25
	9.6	32,765	single	900			7.0	-	-	7.0	7.0	8.8	8.8	15	15
	14.4	49,147	single	1,275			7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60
	14.4	49,147	L1/L2 L3/L4				7.0	52.0	60.0	59.0	67.0	73.8	83.8	80	90
	14.4	49,147	L1/L2 L3/L4				7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60
	19.2	65,530	single	1,700			-	17.3	20.0	17.3	20.0	21.6	25.0	25	25
	19.2	65,530	L1/L2 L3/L4				7.0	69.3	80.0	76.3	87.0	95.4	108.8	100	110
	19.2	65,530	L1/L2 L3/L4				7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60
							-	34.7	40.0	34.7	40.0	43.4	50.0	50	50

Rated Voltage of 208/230/60/1
HACR circuit breaker in USA only

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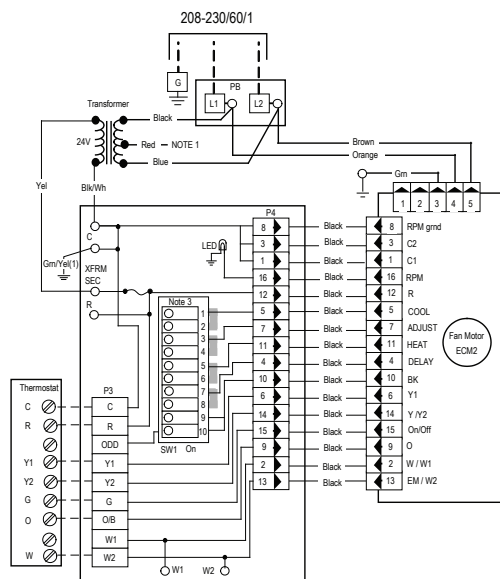
Compatibility

Air Handler Sizing Selection

The G Series Air Handlers are designed for R410A refrigerant and should be matched with GN/GE series compressor section according to the table below.

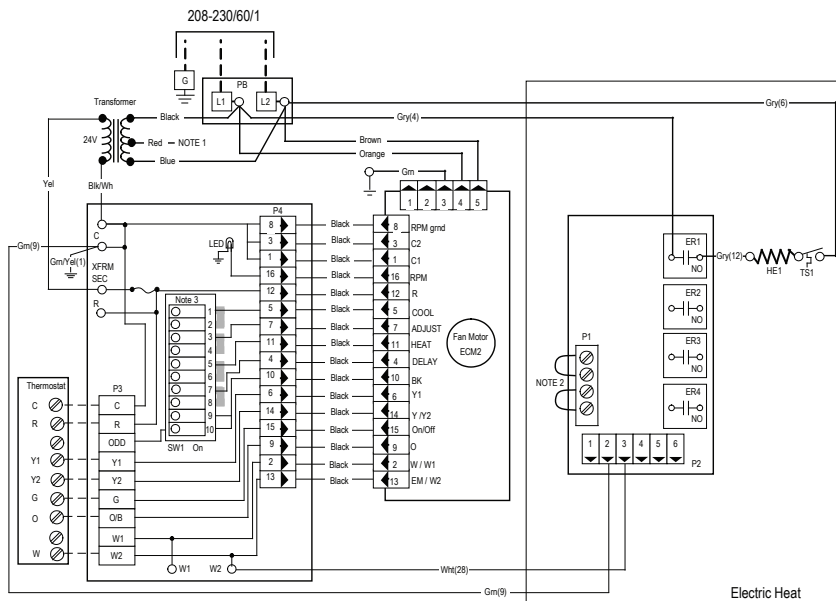
Air Handler	Indoor Split Model (Single)	Indoor Split Model (Dual Capacity)	Outdoor Split Model (Dual Capacity)	Airflow(CFM)	Electric Heat (kW)
GA022	1GN022	-	-	800	5
GA026	-	2GN026	2GE026	925	5
GA030	1GN030	-	-	980	5, 10
GA036	1GN036	-	-	1225	5, 10
GAH36	-	2GN038	2GE038	1225	5, 10
GA042	1GN042	-	-	1425	10, 15
GA048	1GN048	-	-	1625	10, 15
GA048	-	2GN049	2GE049	1625	10, 15
GA060	1GN060	-	-	1760	10, 15, 20
GA060	-	2GN064	2GE064	1760	10, 15, 20
GA060	1GN070	-	-	1760	10, 15, 20
GA060	-	2GN072	2GE072	1760	10, 15, 20

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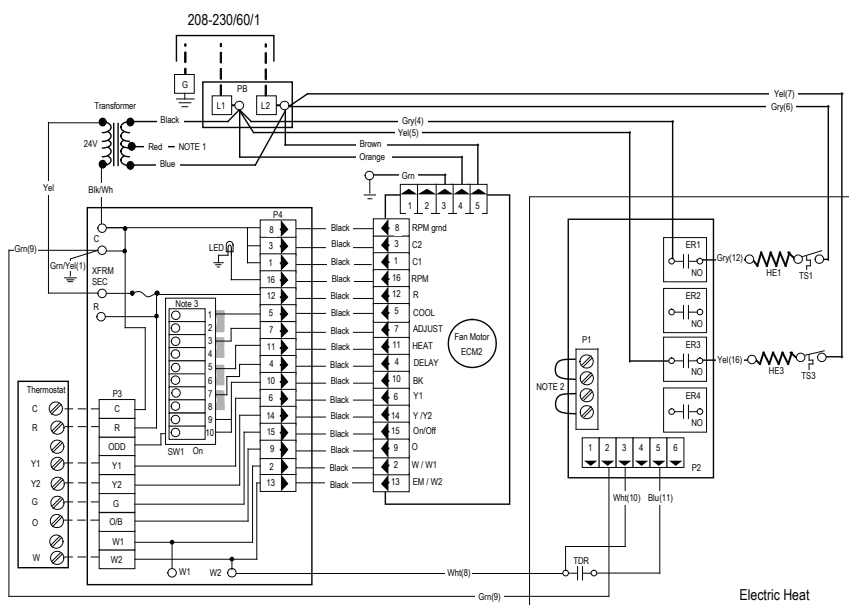


Air Handler No Electric Heat

- Notes:
- 1 – To operate in 208V mode replace the blue transformer wire connected to PB-L2 with red transformer wire.
 - 2 – Jumper wires tie stages (1) with (2) and (3) with (4).
 - 3 – Dip switches are used to select the air flow.

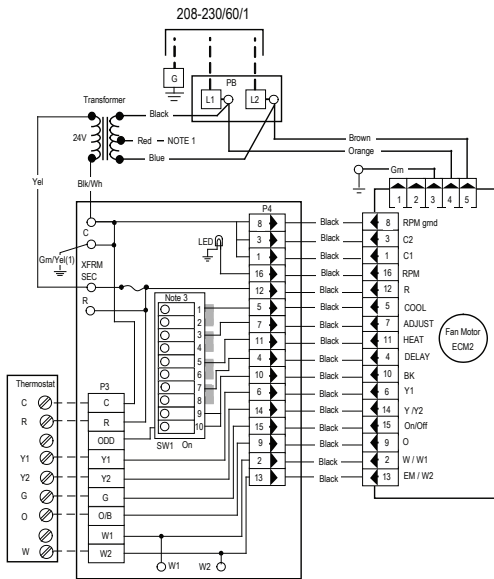
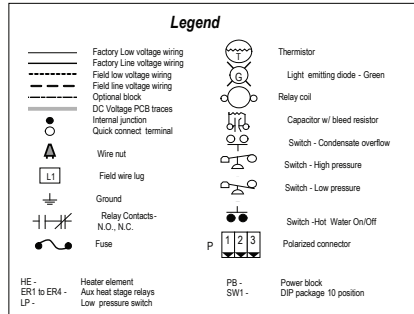


Air Handler w/ 5kW Electric Heat



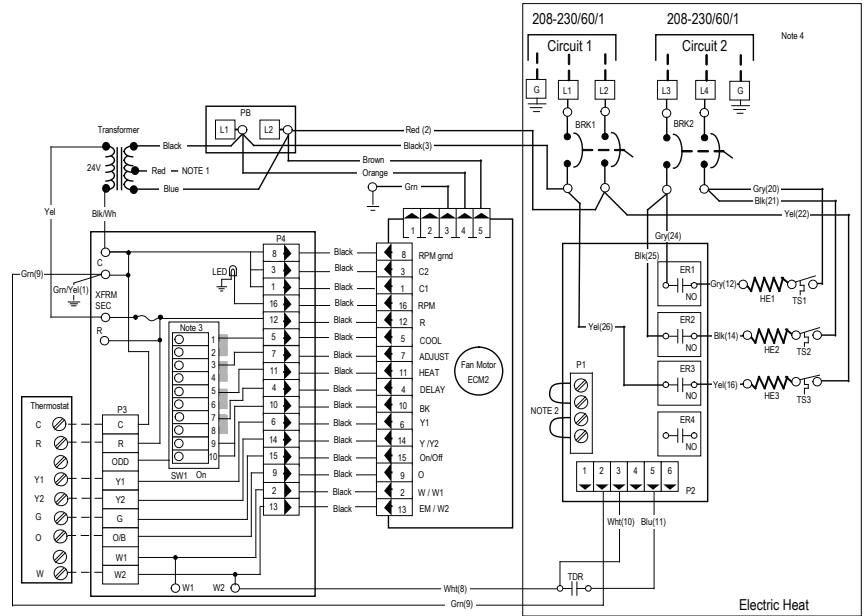
Air Handler w/ 10kW Electric Heat

Wiring Schematics cont.

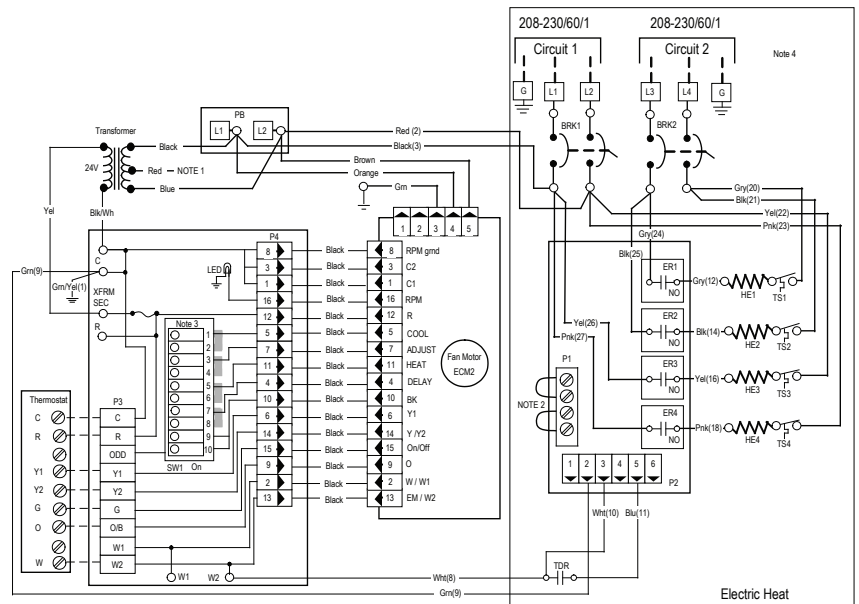


Air Handler No Electric Heat

- Notes:**
- 1 - To operate in 208V mode replace the blue transformer wire connected to PB-L2 with red transformer wire.
 - 2 - Jumper wires tie stages (1) with (2) and (3) with (4).
 - 3 - Dip switches are used to select the air flow.
 - 4 - For single circuit operation field supplied jumper wires should be applied between L1 & L3 and L2 & L4. Jumper wires must be sized to carry the single circuit ampacity of the equipment.



Air Handler w/ 15kW Electric Heat



Air Handler w/ 20kW Electric Heat

Blower Performance

Blower Performance ECM2

Model	Max ESP (wg)	Blower Motor (hp)	HP CFM Setting		Normal Mode Htg & Clg			Dehumidification Mode Clg				Aux CFM Setting		Aux Emerg Mode
			S1	S2	Stg 2	Stg 1	Blower	S9	Stg 2	Stg 1	Blower	S5	S6	
022	0.50	1/2	On	On	900	700	450	Off	775	600	450	On	On	1000
	0.50	1/2	Off	On	800	625	400	Off	680	530	400	Off	On	800
	0.50	1/2	On	Off	700	540	375	Off	600	450	375	On	Off	775
	0.50	1/2	Off	Off	640	480	350					Off	Off	740
026	0.50	1/2	On	On	1050	800	525	Off	850	700	525	On	On	1150
	0.50	1/2	Off	On	925	725	475	Off	760	620	475	Off	On	950
	0.50	1/2	On	Off	800	625	425	Off	670	540	425	On	Off	925
	0.50	1/2	Off	Off	740	575	400					Off	Off	825
030	0.50	1/2	On	On	1150	950	600	Off	975	775	600	On	On	1250
	0.50	1/2	Off	On	980	780	500	Off	825	640	500	Off	On	1000
	0.50	1/2	On	Off	900	700	440	Off	750	580	440	On	Off	975
	0.50	1/2	Off	Off	800	630	425					Off	Off	900
036	0.50	1/2	On	On	1300	1025	760	Off	1105	871	760	On	On	1300
	0.50	1/2	Off	On	1225	950	685	Off	1041	808	685	Off	On	1250
	0.50	1/2	On	Off	1150	850	620	Off	940	690	620	On	Off	1225
	0.50	1/2	Off	Off	1075	800	550					Off	Off	1200
042	0.75	1	On	On	1500	1100	750	Off	1250	900	750	On	On	1550
	0.75	1	Off	On	1425	1010	650	Off	1180	840	650	Off	On	1450
	0.75	1	On	Off	1300	975	635	Off	1080	800	635	On	Off	1400
	0.75	1	Off	Off	1150	850	625					Off	Off	1275
048	0.75	1	On	On	1700	1300	975	Off	1400	1080	975	On	On	1700
	0.75	1	Off	On	1625	1240	875	Off	1350	1025	875	Off	On	1550
	0.75	1	On	Off	1450	1100	750	Off	1200	900	750	On	Off	1525
	0.75	1	Off	Off	1300	1000	675					Off	Off	1400
060	0.75	1	On	On	1850	1750	1175	Off	1540	1450	1175	On	On	1850
	0.75	1	Off	On	1760	1625	1050	Off	1460	1350	1050	Off	On	1760
	0.75	1	On	Off	1720	1575	1015	Off	1425	1300	1015	On	Off	1725
	0.75		Off	Off	1680	1525	975		1428			Off	Off	1700

2/3/10

Factory CFM settings are in boldface

CFM is controlled within 5% up to maximum ESP

Maximum ESP includes allowance for wet coil and standard filter

DIP switch 9 must be 'OFF' to select dehumidification mode

Air Handler DIP Switches	DIPS	Switch Description
	1	Used to set normal CFM
	2	
	3	Not used
	4	
	5	Used to set aux./emergency heat CFM
	6	
	7	Not used
	8	
	9	Used to set dehumidification CFM
	10	Not used

Hydronic Coil Performance

026-036 Heating/Cooling

(Refer to Indoor Split or Outdoor Split Specification Catalogs for refrigerant performance tables)

026 Hydronic Heating Capacity Tables

CFM	Flow gpm	100°F EWT				110°F EWT				120°F EWT				130°F EWT							
		HC kBtu/h	Power kW	LAT	WPD	HC kBtu/h	Power kW	LAT	WPD	HC kBtu/h	Power kW	LAT	WPD	HC kBtu/h	Power kW	LAT	WPD				
575	3.0	155	0.09	95.0	0.4	0.9	20.9	0.09	103.6	0.4	0.9	26.2	0.09	112.2	0.4	0.9	31.4	0.09	120.6	0.4	0.9
	4.5	169	0.09	97.1	0.8	1.8	22.5	0.09	106.2	0.8	1.8	28.1	0.09	115.2	0.8	1.8	33.5	0.09	123.9	0.8	1.8
	6.0	182	0.09	99.3	1.2	2.8	24.1	0.09	108.7	1.2	2.8	29.9	0.09	118.2	1.2	2.8	35.5	0.09	127.2	1.2	2.8
740	3.0	171	0.13	91.3	0.4	0.9	22.9	0.13	98.6	0.4	0.9	28.7	0.13	105.9	0.4	0.9	34.5	0.13	113.1	0.4	0.9
	4.5	187	0.13	93.4	0.8	1.8	24.9	0.13	101.2	0.8	1.8	31.2	0.13	109.0	0.8	1.8	37.2	0.13	116.5	0.8	1.8
	6.0	203	0.13	95.4	1.2	2.8	27.0	0.13	103.8	1.2	2.8	33.7	0.13	112.1	1.2	2.8	39.9	0.13	119.9	1.2	2.8
925	3.0	186	0.15	88.6	0.4	0.9	24.9	0.15	94.9	0.4	0.9	31.2	0.15	101.2	0.4	0.9	37.5	0.15	107.5	0.4	0.9
	4.5	205	0.15	90.5	0.8	1.8	27.4	0.15	97.4	0.8	1.8	34.3	0.15	104.3	0.8	1.8	40.9	0.15	110.9	0.8	1.8
	6.0	224	0.15	92.4	1.2	2.8	29.9	0.15	99.9	1.2	2.8	37.4	0.15	107.4	1.2	2.8	44.3	0.15	114.3	1.2	2.8

026 Hydronic Cooling Capacity Tables

CFM	Flow gpm	40°F EWT				45°F EWT				50°F EWT				55°F EWT				WPD											
		TC kBtu/h	SC kBtu/h	S/T Ratio	Power kW	LAT	PSI	FT	WPD	TC kBtu/h	SC kBtu/h	S/T Ratio	Power kW	LAT	PSI	FT	WPD		TC kBtu/h	SC kBtu/h	S/T Ratio	Power kW	LAT	PSI	FT	WPD			
575	3.0	24.0	16.8	0.70	0.09	52.9	0.5	1.2	20.0	15.2	0.76	0.09	55.5	0.5	1.2	16.0	13.6	0.85	0.09	58.1	0.5	1.2	12.4	11.5	0.93	0.09	61.5	0.5	1.2
	4.5	27.5	18.3	0.66	0.09	50.6	0.9	2.1	22.9	16.5	0.72	0.09	53.5	0.9	2.1	18.3	14.8	0.81	0.09	56.2	0.9	2.1	14.3	12.7	0.88	0.09	59.6	0.9	2.1
	6.0	31.0	19.7	0.64	0.09	48.3	1.4	3.2	25.8	17.7	0.69	0.09	51.4	1.4	3.2	20.6	15.8	0.77	0.09	54.6	1.4	3.2	16.2	13.8	0.85	0.09	57.8	1.4	3.2
740	3.0	25.2	18.4	0.73	0.13	57.0	0.5	1.2	21.3	16.7	0.78	0.13	59.2	0.5	1.2	17.4	14.9	0.86	0.13	61.4	0.5	1.2	13.8	13.0	0.94	0.13	63.7	0.5	1.2
	4.5	29.5	20.1	0.68	0.13	54.8	0.9	2.1	24.7	18.3	0.74	0.13	57.1	0.9	2.1	19.9	16.4	0.82	0.13	59.5	0.9	2.1	15.8	14.3	0.90	0.13	62.1	0.9	2.1
	6.0	33.9	21.9	0.65	0.13	52.7	1.4	3.2	28.2	19.9	0.71	0.13	55.1	1.4	3.2	22.5	17.9	0.80	0.13	57.6	1.4	3.2	17.8	15.6	0.87	0.13	60.5	1.4	3.2
925	3.0	26.4	20.0	0.76	0.15	60.0	0.5	1.2	22.6	18.2	0.81	0.15	61.8	0.5	1.2	18.7	16.3	0.87	0.15	63.7	0.5	1.2	15.2	14.5	0.95	0.15	65.5	0.5	1.2
	4.5	31.6	22.0	0.70	0.15	58.0	0.9	2.1	26.6	20.0	0.75	0.15	60.0	0.9	2.1	21.7	18.0	0.83	0.15	62.0	0.9	2.1	17.3	15.9	0.92	0.15	64.1	0.9	2.1
	6.0	36.7	24.0	0.65	0.15	56.0	1.4	3.2	30.7	21.8	0.71	0.15	58.1	1.4	3.2	24.6	19.7	0.80	0.15	60.3	1.4	3.2	19.4	17.7	0.89	0.15	62.7	1.4	3.2

036 Hydronic Heating Capacity Tables

CFM	Flow gpm	100°F EWT				110°F EWT				120°F EWT				130°F EWT							
		HC kBtu/h	Power kW	LAT	WPD	HC kBtu/h	Power kW	LAT	WPD	HC kBtu/h	Power kW	LAT	WPD	HC kBtu/h	Power kW	LAT	WPD				
800	4.5	19.8	0.13	92.9	0.8	1.8	26.3	0.13	100.4	0.8	1.8	32.8	0.13	108.0	0.8	1.8	39.3	0.13	115.5	0.8	1.8
	7.0	21.2	0.13	94.5	1.6	3.7	27.8	0.13	102.2	1.6	3.7	34.5	0.13	109.9	1.6	3.7	41.4	0.13	117.9	1.6	3.6
	9.0	22.5	0.13	96.0	2.4	5.5	29.3	0.13	104.0	2.4	5.5	36.2	0.13	111.9	2.4	5.5	43.5	0.13	120.3	2.3	5.3
1075	4.5	22.4	0.20	89.3	0.8	1.8	29.7	0.20	95.5	0.8	1.8	36.9	0.20	101.8	0.8	1.8	43.8	0.20	107.7	0.8	1.8
	7.0	24.1	0.20	90.8	1.6	3.7	31.7	0.20	97.3	1.6	3.7	39.2	0.20	103.8	1.6	3.7	46.9	0.20	110.4	1.6	3.6
	9.0	25.8	0.20	92.2	2.4	5.5	33.7	0.20	99.0	2.4	5.5	41.6	0.20	105.8	2.4	5.5	50.0	0.20	113.0	2.3	5.3
1225	4.5	25.0	0.32	88.9	0.8	1.8	33.0	0.32	94.9	0.8	1.8	41.0	0.32	101.0	0.8	1.8	48.3	0.32	106.5	0.8	1.8
	7.0	27.1	0.32	90.4	1.6	3.7	35.5	0.32	96.9	1.6	3.7	44.0	0.32	103.3	1.6	3.7	52.4	0.32	109.6	1.6	3.6
	9.0	29.1	0.32	92.0	2.4	5.5	38.1	0.32	98.8	2.4	5.5	47.0	0.32	105.5	2.4	5.5	56.4	0.32	112.6	2.3	5.3

036 Hydronic Cooling Capacity Tables

CFM	Flow gpm	40°F EWT				45°F EWT				50°F EWT				55°F EWT				WPD							
		TC kBTU/h	SC kBTU/h	S/T Ratio	Power kW	LAT	PSI	FT	WPD	TC kBTU/h	SC kBTU/h	S/T Ratio	Power kW	LAT	PSI	FT	WPD		TC kBTU/h	SC kBTU/h	S/T Ratio	Power kW	LAT	PSI	FT
800	4.5	30.5	21.2	0.70	0.13	55.5	0.9	2.1	25.3	19.3	0.77	0.13	57.6	0.9	2.1	20.0	17.5	0.87	0.13	59.8	0.9	2.1	62.3	0.9	2.1
	7.0	35.9	23.5	0.65	0.13	52.8	1.9	4.3	29.8	21.2	0.71	0.13	55.4	1.9	4.3	23.7	19.7	0.83	0.13	57.2	1.8	4.0	60.9	1.8	4.0
	9.0	41.3	25.8	0.62	0.13	50.1	2.8	6.5	34.4	23.1	0.67	0.13	53.2	2.8	6.5	27.5	20.4	0.74	0.13	56.3	2.6	6.0	59.6	2.6	6.0
1075	4.5	32.4	23.4	0.72	0.20	59.8	0.9	2.1	27.1	21.5	0.79	0.20	61.5	0.9	2.1	21.8	19.6	0.90	0.20	63.1	0.9	2.1	65.5	0.9	2.1
	7.0	39.1	26.0	0.67	0.20	57.6	1.9	4.3	32.5	23.7	0.73	0.20	59.6	1.9	4.3	25.9	21.9	0.84	0.20	61.2	1.8	4.0	64.2	1.8	4.0
	9.0	45.9	28.6	0.62	0.20	55.3	2.8	6.5	38.0	25.9	0.68	0.20	57.7	2.8	6.5	30.0	23.2	0.77	0.20	60.0	2.6	6.0	62.8	2.6	6.0
1225	4.5	34.3	25.7	0.75	0.32	60.6	0.9	2.1	28.8	23.6	0.82	0.32	62.2	0.9	2.1	23.4	21.5	0.92	0.32	63.8	0.9	2.1	66.2	0.9	2.1
	7.0	42.4	28.6	0.67	0.32	58.4	1.9	4.3	35.2	26.0	0.74	0.32	60.3	1.9	4.3	28.1	24.0	0.85	0.32	61.9	1.8	4.0	64.7	1.8	4.0
	9.0	50.5	31.5	0.62	0.32	56.2	2.8	6.5	41.7	28.5	0.68	0.32	58.5	2.8	6.5	32.8	25.5	0.78	0.32	60.7	2.6	6.0	63.2	2.6	6.0

Hydronic Coil Performance cont.
048-060 Heating/Cooling

(Refer to Indoor Split or Outdoor Split Specification Catalogs for refrigerant performance tables)

048 Hydronic Heating Capacity Tables

CFM	Flow gpm	100°F EWT				110°F EWT				120°F EWT				130°F EWT				WPD			
		HC Return	Power kW	LAT	FT	HC Return	Power kW	LAT	FT	HC Return	Power kW	LAT	FT	HC Return	Power kW	LAT	FT				
1000	6.0	24.0	0.20	92.2	1.2	2.8	31.5	0.20	99.2	1.2	2.8	39.0	0.20	106.1	1.2	2.8	46.4	0.20	113.0	1.2	2.8
	9.0	25.1	0.20	93.2	2.6	6.0	33.0	0.20	100.6	2.6	6.0	40.9	0.20	107.9	2.6	6.0	48.7	0.20	115.1	2.6	5.9
	12.0	26.2	0.20	94.3	4.0	9.2	34.6	0.20	102.0	4.0	9.2	42.9	0.20	109.7	4.0	9.2	51.0	0.20	117.2	3.9	9.0
1300	6.0	28.3	0.33	90.1	1.2	2.8	37.2	0.33	96.5	1.2	2.8	46.2	0.33	102.9	1.2	2.8	55.4	0.33	109.4	1.2	2.8
	9.0	30.2	0.33	91.5	2.6	6.0	39.7	0.33	98.2	2.6	6.0	49.1	0.33	105.0	2.6	6.0	58.7	0.33	111.8	2.6	5.9
	12.0	32.1	0.33	92.9	4.0	9.2	42.1	0.33	100.0	4.0	9.2	52.1	0.33	107.1	4.0	9.2	62.0	0.33	114.2	3.9	9.0
1625	6.0	32.5	0.42	88.5	1.2	2.8	43.0	0.42	94.5	1.2	2.8	53.4	0.42	100.4	1.2	2.8	64.3	0.42	106.6	1.2	2.8
	9.0	35.3	0.42	90.1	2.6	6.0	46.3	0.42	96.4	2.6	6.0	57.4	0.42	102.7	2.6	6.0	68.7	0.42	109.1	2.6	5.9
	12.0	38.0	0.42	91.7	4.0	9.2	49.7	0.42	98.3	4.0	9.2	61.3	0.42	104.9	4.0	9.2	73.0	0.42	111.6	3.9	9.0

048 Hydronic Cooling Capacity Tables

CFM	Flow gpm	40°F EWT				45°F EWT				50°F EWT				55°F EWT				WPD					
		TC kBtu/h	SC kBtu/h	S/T Ratio	Power kW	LAT	PSI	FT	TC kBtu/h	SC kBtu/h	S/T Ratio	Power kW	LAT	PSI	FT	TC kBtu/h	SC kBtu/h	S/T Ratio	Power kW	LAT	PSI	FT	WPD
1000	6.0	37.3	25.3	0.68	0.20	56.6	1.4	3.2	31.6	23.1	0.73	0.20	58.6	1.4	3.2	25.9	21.0	0.81	0.20	60.6	1.4	3.2	
	9.0	43.6	28.0	0.64	0.20	54.0	3.0	6.9	36.6	25.5	0.70	0.20	56.4	3.0	6.8	29.4	23.0	0.78	0.20	58.7	2.9	6.6	
	12.0	49.9	30.8	0.62	0.20	51.5	4.6	10.6	41.6	27.9	0.67	0.20	54.2	4.5	10.4	33.3	25.0	0.75	0.20	56.9	4.4	10.2	
1300	6.0	40.5	29.2	0.72	0.33	59.2	1.4	3.2	34.6	26.6	0.77	0.33	61.1	1.4	3.2	28.8	23.9	0.83	0.33	63.0	1.4	3.2	
	9.0	48.4	32.9	0.68	0.33	56.6	3.0	6.9	41.1	29.9	0.73	0.33	58.7	3.0	6.8	33.8	27.0	0.80	0.33	60.8	2.9	6.7	
	12.0	56.4	36.6	0.65	0.33	53.9	4.6	10.6	47.5	33.2	0.70	0.33	56.4	4.5	10.4	38.7	29.8	0.77	0.33	58.8	4.4	10.2	
1625	6.0	43.6	33.1	0.76	0.42	61.1	1.4	3.2	37.3	30.5	0.82	0.42	62.6	1.4	3.2	31.0	27.9	0.90	0.42	64.1	1.4	3.2	
	9.0	53.3	37.8	0.71	0.42	58.5	3.0	6.9	45.0	34.2	0.76	0.42	60.5	3.0	6.8	36.7	30.6	0.84	0.42	62.5	2.9	6.7	
	12.0	63.0	42.4	0.67	0.42	55.9	4.6	10.6	52.6	37.9	0.72	0.42	58.4	4.5	10.4	42.3	33.3	0.79	0.42	61.0	4.4	10.2	

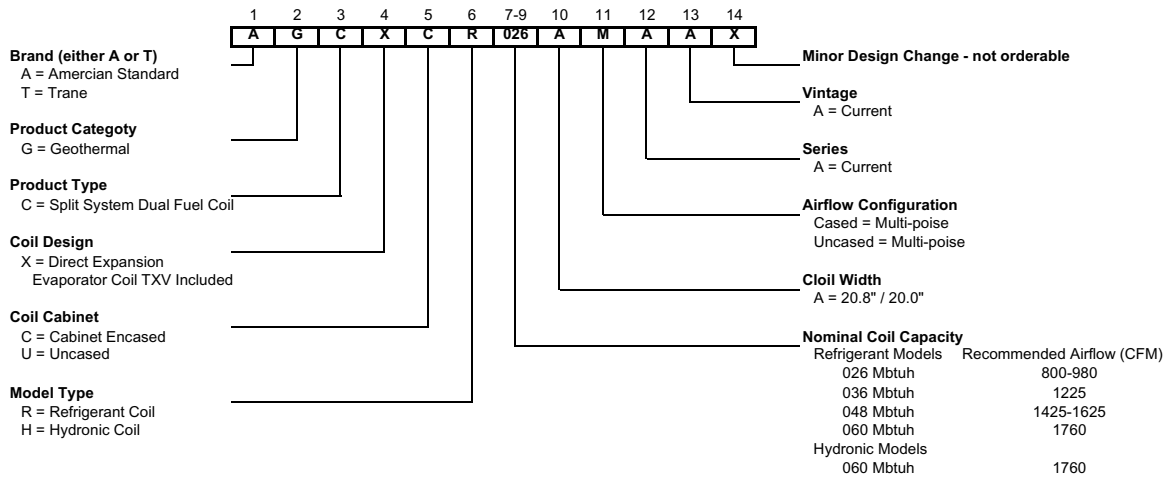
060 Hydronic Heating Capacity Tables

CFM	Flow gpm	100°F EWT				110°F EWT				120°F EWT				130°F EWT				WPD			
		HC Return	Power kW	LAT	FT	HC Return	Power kW	LAT	FT	HC Return	Power kW	LAT	FT	HC Return	Power kW	LAT	FT	PSI	LAT	PSI	FT
1525	7.5	33.1	0.38	90.1	1.7	3.9	43.6	0.38	96.5	1.7	3.9	54.0	0.38	102.8	1.7	3.9	65.2	0.38	109.6	1.6	3.7
	11.0	34.9	0.38	91.2	3.9	8.9	46.0	0.38	97.9	3.9	8.9	57.0	0.38	104.6	3.8	8.8	69.0	0.38	111.9	3.7	8.5
	15.0	36.7	0.38	92.3	6.0	13.9	48.4	0.38	99.4	6.0	13.9	60.0	0.38	106.4	5.9	13.6	72.7	0.38	114.1	5.8	13.4
1680	7.5	35.4	0.48	89.5	1.7	3.9	46.6	0.48	95.7	1.7	3.9	57.7	0.48	101.8	1.7	3.9	69.4	0.48	108.2	1.6	3.7
	11.0	37.8	0.48	90.8	3.9	8.9	49.7	0.48	97.4	3.9	8.9	61.5	0.48	103.9	3.8	8.8	73.9	0.48	110.7	3.7	8.5
	15.0	40.2	0.48	92.2	6.0	13.9	52.8	0.48	99.1	6.0	13.9	65.3	0.48	106.0	5.9	13.6	78.5	0.48	113.3	5.8	13.4
1760	7.5	37.7	0.56	89.8	1.7	3.9	49.6	0.56	96.1	1.7	3.9	61.4	0.56	102.3	1.7	3.9	73.5	0.56	108.7	1.6	3.7
	11.0	40.7	0.56	91.4	3.9	8.9	53.4	0.56	98.1	3.9	8.9	66.0	0.56	104.7	3.8	8.8	78.9	0.56	111.5	3.7	8.5
	15.0	43.7	0.56	93.0	6.0	13.9	57.2	0.56	100.1	6.0	13.9	70.6	0.56	107.1	5.9	13.6	84.3	0.56	114.3	5.8	13.4

060 Hydronic Cooling Capacity Tables

CFM	Flow gpm	40°F EWT				45°F EWT				50°F EWT				55°F EWT				WPD		WPD									
		TC kBtu/h	SC kBtu/h	S/T Ratio	Power kW	LAT	PSI	FT	TC kBtu/h	SC kBtu/h	S/T Ratio	Power kW	LAT	PSI	FT	TC kBtu/h	SC kBtu/h					S/T Ratio	Power kW	LAT	PSI	FT			
1525	7.5	49.2	35.7	0.73	0.38	58.3	2.0	4.7	40.9	31.8	0.78	0.38	60.7	2.0	4.7	32.6	28.0	0.86	0.38	63.0	2.0	4.7	27.2	24.7	0.91	0.38	65.0	1.9	4.4
	11.0	58.2	39.1	0.67	0.38	56.3	4.5	10.4	47.9	34.7	0.72	0.38	58.9	4.5	10.3	33.4	27.0	0.81	0.38	63.6	4.4	10.2	30.3	26.6	0.88	0.38	63.8	4.3	9.9
	15.0	67.3	42.4	0.63	0.38	54.2	7.0	16.1	55.0	37.6	0.68	0.38	57.2	6.9	15.9	42.6	32.8	0.77	0.38	60.1	6.8	15.7	33.3	28.5	0.86	0.38	62.7	6.7	15.5
1680	7.5	50.1	37.3	0.74	0.48	59.4	2.0	4.7	42.0	33.4	0.80	0.48	61.6	2.0	4.7	34.0	29.6	0.87	0.48	63.7	2.0	4.7	28.5	25.9	0.91	0.48	65.7	1.9	4.4
	11.0	59.9	41.3	0.69	0.48	57.2	4.5	10.4	49.5	36.7	0.74	0.48	59.8	4.5	10.3	38.3	31.4	0.82	0.48	62.7	4.4	10.2	31.5	28.2	0.89	0.48	64.5	4.3	9.9
	15.0	69.8	45.4	0.65	0.48	55.0	7.0	16.1	57.0	39.9	0.70	0.48	58.0	6.9	15.9	44.2	34.5	0.78	0.48	61.0	6.8	15.7	34.4	30.4	0.88	0.48	63.2	6.7	15.5
1760	7.5	51.0	38.9	0.76	0.56	59.5	2.0	4.7	43.4	35.2	0.81	0.56	61.5	2.0	4.7	35.8	31.5	0.88	0.56	63.4	2.0	4.7	29.8	27.1	0.91	0.56	65.8	1.9	4.4
	11.0	61.6	43.6	0.71	0.56	57.1	4.5	10.4	51.6	39.0	0.76	0.56	59.5	4.5	10.3	41.6	34.5	0.83	0.56	61.9	4.4	10.2	32.7	29.7	0.91	0.56	64.4	4.3	9.9
	15.0	72.3	48.3	0.67	0.56	54.6	7.0	16.1	59.8	42.8	0.72	0.56	57.5	6.9	15.9	47.4	37.4	0.79	0.56	60.3	6.8	15.7	35.6	32.7	0.91	0.56	63.0	6.7	15.5

GA Series Coil Nomenclature



REFRIGERANT COIL COMPATIBILITY

ENCASED/UNCASED COIL	INDOOR SPLIT MODEL (SINGLE)	INDOOR SPLIT MODEL (DUAL CAPACITY)	OUTDOOR SPLIT MODEL (DUAL CAPACITY)	RECOMMENDED AIRFLOW (CFM)
GCXC026	1GN022	-	-	800
GCXC026	-	2GN026	2GE026	925
GCXC026	1GN030	-	-	980
GCXC036	1GN036	-	-	1225
GCXC036	-	2GN038	2GE038	1225
GCXC048	1GN042	-	-	1425
GCXC048	1GN048	-	-	1625
GCXC048	-	2GN049	2GE049	1625
GCXC060	1GN060	-	-	1760
GCXC060	-	2GN064	2GE064	1760
GCXC060	1GN070	-	-	1760
GCXC060	-	2GN072	2GE072	1760

7/14/08

COIL PHYSICAL DATA

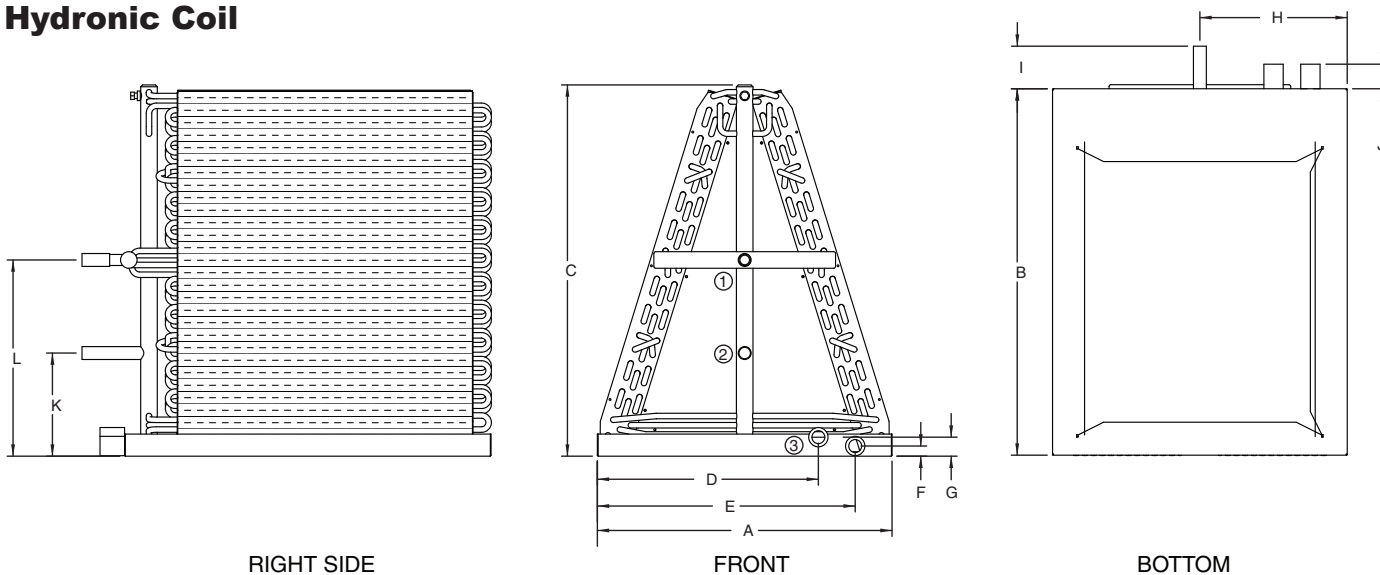
AIR COIL MODEL NUMBER (REFRIGERANT)		GCXC026	GCXC036	GCXC048	GCXC060
EVAPORATOR COIL	AIR COIL TOTAL FACE AREA, FT2 [M2]	5.83 [0.54]			
	TUBE OUTSIDE DIAMETER - IN. [MM]	3/8 [9.52]			
	NUMBER OF ROWS	2		3	
	FINS PER INCH	12			
	SUCTION LINE CONNECTION - IN. [MM] SWEAT	5/8 [15.87]		7/8 [22.22]	
	LIQUID LINE CONNECTION - IN. [MM] SWEAT	3/8 [9.52]			
REFRIGERANT		R-410A			
NOMINAL COOLING CAPACITY - TONS [KW]		2.1 [7.59]	3 [10.55]	4 [14.06]	5 [17.58]
CONDENSATE DRAIN CONNECTION - (FPT) IN. [MM]		3/4 [19.05]			

AIR COIL MODEL NUMBER (HYDRONIC)		GHAC060
HYDRONIC COIL	AIR COIL TOTAL FACE AREA, FT ² [M ²]	6.94 [0.64]
	TUBE OUTSIDE DIAMETER - IN. [MM]	3/8 [9.52]
	NUMBER OF ROWS	3
	FINS PER INCH	13
	WATER IN CONNECTION - IN. [MM] SWEAT	7/8 [22.22]
	WATER OUT CONNECTION - IN. [MM] SWEAT	7/8 [22.22]
NOMINAL COOLING CAPACITY - TONS [KW]		5 [17.58]
CONDENSATE DRAIN CONNECTION - (FPT) IN. [MM]		3/4 [19.05]

NOTE: Water connection dimensions are O.D.

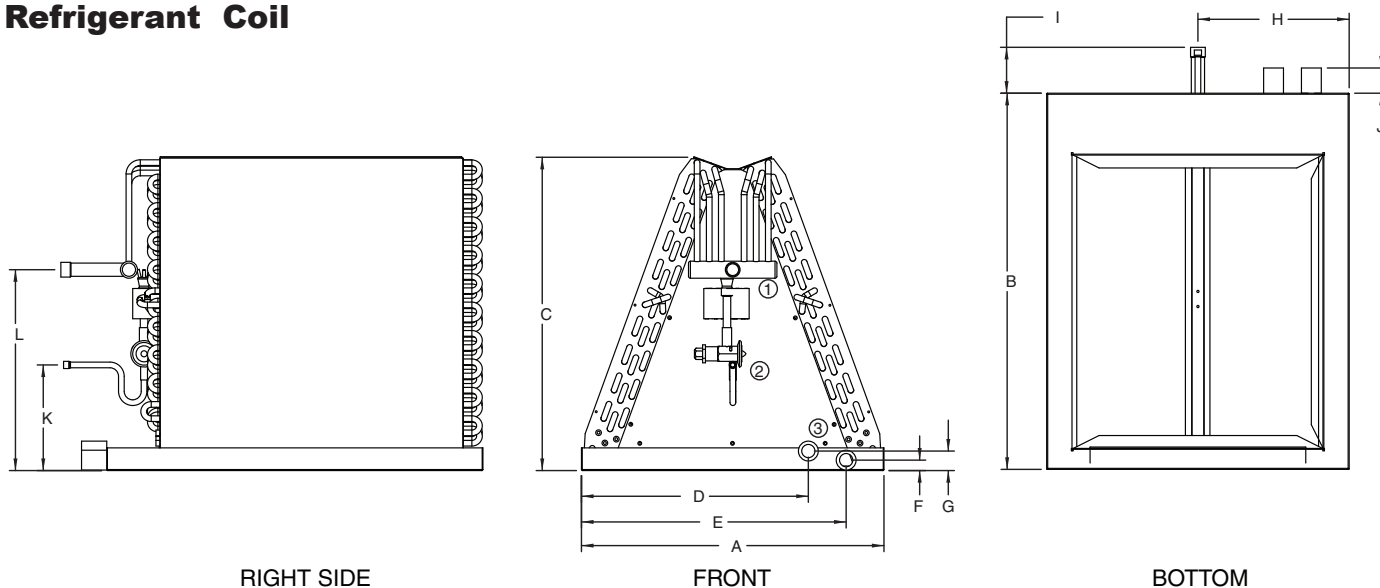
Dimensional Data

Hydronic Coil



Uncased Models		Overall Dimensions			Connections			Condensate Connections					Hydronic Connections			
					1	2	3									
		A	B	C	Water	Water	Condensate									
		Width	Depth	Height	Sweat	Sweat	FPT	D	E	F	G	H	I	J	K	L
GCXUH060U	in.	20.0	24.9	25.2	7/8	7/8	3/4	15.0	17.5	0.7	1.3	10.0	2.9	1.7	7.0	13.3
	cm.	50.8	63.3	63.5	2.2	2.2	1.9	38.1	44.5	1.8	3.3	25.4	7.4	4.3	17.8	33.8

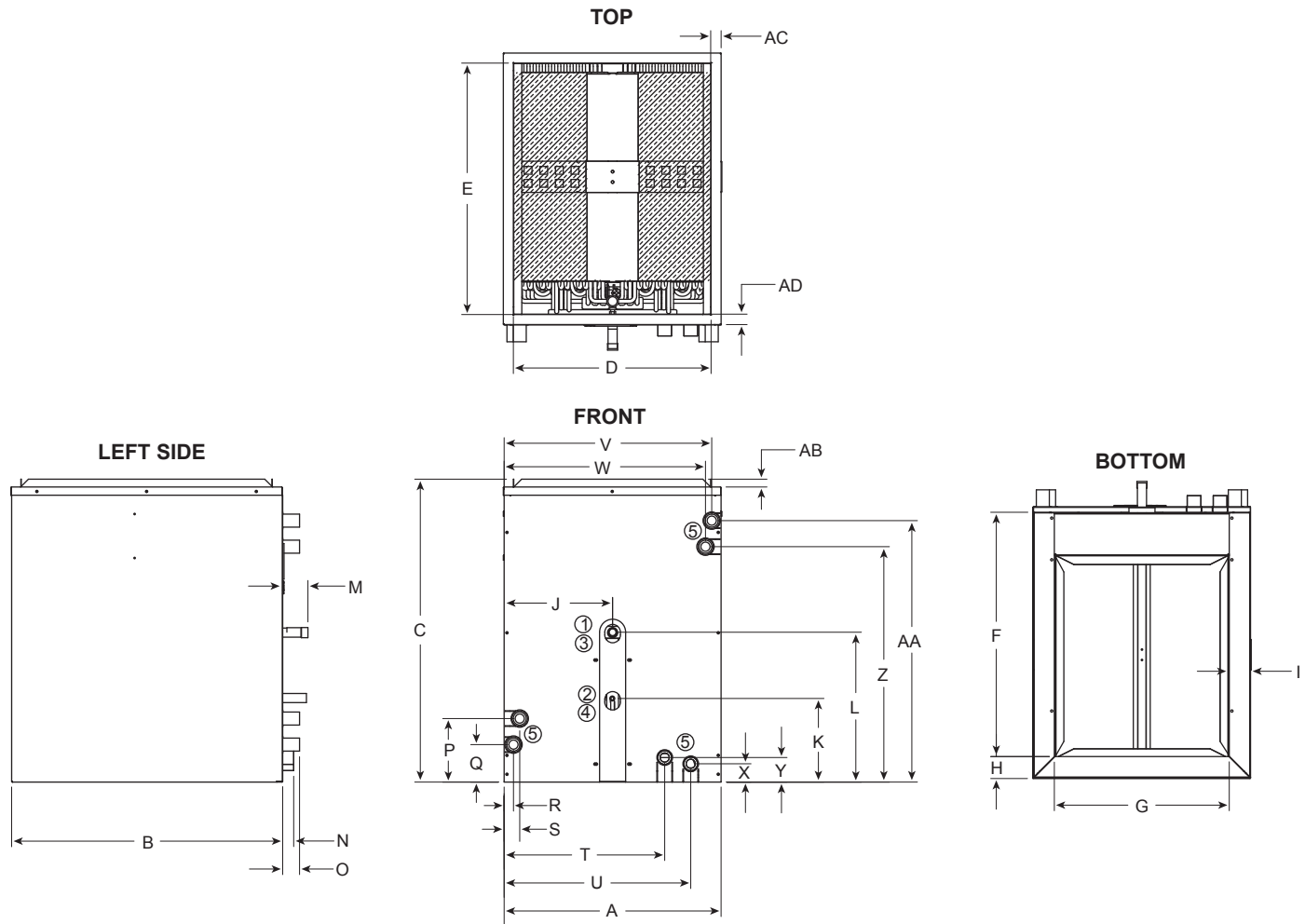
Refrigerant Coil



Uncased Models		Overall Dimensions			Connections			Condensate Connections					Refrigerant Connections			
					1	2	3									
		A	B	C	Suction	Liquid	Condensate									
		Width	Depth	Height	Sweat	Sweat	FPT	D	E	F	G	H	I	J	K	L
GCXUR026-036	in.	20.0	24.9	20.7	5/8	3/8	3/4	15.0	17.5	0.7	1.3	10.0	3.0	1.7	7.0	13.3
	cm.	50.8	63.3	52.6	1.6	1.0	1.9	38.1	44.5	1.8	3.3	25.4	7.6	4.2	17.8	33.8
GCXUR048-060	in.	20.0	24.9	20.7	7/8	3/8	3/4	15.0	17.5	0.7	1.3	10.0	3.0	1.7	7.0	13.3
	cm.	50.8	63.3	52.6	2.2	1.0	1.9	38.1	44.5	1.8	3.3	25.4	7.6	4.2	17.8	33.8
GCXUR026-060	in.	20.0	24.9	20.7	-	-	3/4	15.0	17.5	0.7	1.3	10.0	3.0	1.7	7.0	13.3
	cm.	50.8	63.3	52.6	-	-	1.9	38.1	44.5	1.8	3.3	25.4	7.6	4.2	17.8	33.8

NOTE: All refrigerant coils feature factory installed TXV. Water connection dimensions are O.D.

Dimensional Data cont.



Encased Models		Overall Cabinet			Connections					Supply Connection		Inlet Connection			
		A	B	C	1	2	3	4	5	D	E	F	G	H	I
		Width	Depth	Height*	Suction	Liquid	Water	Water	Condensate						
					Sweat	Sweat	Sweat	Sweat	FPT	Supply Width	Supply Depth				
GCXC026-036	in.	20.8	26.0	29.1	5/8	3/8	-	-	3/4	19.0	24.1	23.4	16.8	2.1	2.0
	cm.	52.8	66.0	73.9	1.6	1.0	-	-	1.9	48.3	61.2	59.4	42.7	5.3	5.1
GCXC048-060	in.	20.8	26.0	29.1	7/8	3/8	-	-	3/4	19.0	24.1	23.4	16.8	2.1	2.0
	cm.	52.8	66.0	73.9	2.2	1.0	-	-	1.9	48.3	61.2	59.4	42.7	5.3	5.1
GCXC026-060	in.	20.8	26.0	29.1	-	-	7/8	7/8	3/4	19.0	24.1	23.4	16.8	2.1	2.0
	cm.	52.8	66.0	73.9	-	-	2.2	2.2	1.9	48.3	61.2	59.4	42.7	5.3	5.1

Encased Models		Refrigerant & Water Connections				Condensate Connections														Miscellaneous			
		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	
GCXC026-036	in.	10.4	8.0	14.4	2.4	1.1	1.6	6.1	3.6	0.9	1.5	15.4	17.9	19.9	19.3	1.8	2.4	22.6	25.1	0.8	1.0	1.0	
	cm.	26.4	20.3	36.6	6.1	2.8	4.1	15.5	9.1	2.3	3.8	39.1	45.5	50.6	49.1	4.5	6.0	57.4	63.7	1.9	2.5	2.5	
GCXC048-060	in.	10.4	8.0	14.4	2.4	1.1	1.6	6.1	3.6	0.9	1.5	15.4	17.9	19.9	19.3	1.8	2.4	22.6	25.1	0.8	1.0	1.0	
	cm.	26.4	20.3	36.6	6.1	2.8	4.1	15.5	9.1	2.3	3.8	39.1	45.5	50.6	49.1	4.5	6.0	57.4	63.7	1.9	2.5	2.5	
GCXC026-060	in.	10.4	8.0	14.4	2.4	1.1	1.6	6.1	3.6	0.9	1.5	15.4	17.9	19.9	19.3	1.8	2.4	22.6	25.1	0.8	1.0	1.0	
	cm.	26.4	20.3	36.6	6.1	2.8	4.1	15.5	9.1	2.3	3.8	39.1	45.5	50.6	49.1	4.5	6.0	57.4	63.7	1.9	2.5	2.5	

NOTE: All refrigerant coils feature factory installed TXV.

9/1/09

Engineering Guide Specifications

General

The air handler shall provide vertical upflow, downflow, or horizontal configurations in one package. Units shall be listed by a nationally recognized safety-testing laboratory or agency, such as Underwriter's Laboratory (UL) or Environmental Testing Laboratories (Intertek-ETL). The air handler units shall be designed and ARI performance listed to operate with the G Series geothermal split condensing units. Each unit shall be pallet mounted and shipped using dense cardboard corners/top and stretch wrap for easy shipping damage inspection.

Casing and Cabinet

The cabinet shall be fabricated from heavy-gauge galvanized steel and polyester powder coat paint to withstand 1000 hours of salt spray testing. The interior shall be insulated with 1/2"-thick, multi-density, cleanable aluminum foil coated glass fiber with edges sealed or tucked under flanges to prevent the introduction of glass fibers into the discharge air. One large blower compartment access panel shall be provided and shall be removable with supply and return ductwork in place. The internal components layout shall provide for major service with the unit in-place for restricted access installations. The blower assembly access shall be slide-out serviceable via a 'works-in-a-drawer' design. The cabinet shall be convertible to horizontal or downflow applications by reconfiguring the cabinet using only a nut driver. The unit shall be 'zero clearance' approved on any of its surfaces. The cabinet shall be divided into two cubes to facilitate easy transport up attic ladders when needed. Standard-size MERV 3 1" filters shall be provided with each unit.

Refrigeration Circuit

All units shall provide a fin tube air-to-refrigerant heat exchanger of the "A" coil design. The finned tube coil shall be sized for low-face velocity and constructed of lanced aluminum fins bonded to rifled copper tubes in a staggered pattern. The coil shall include an integral corrosion resistant stainless steel drain pan.

The thermal expansion valve shall be factory installed and provide proper superheat over the entire liquid temperature range with minimal "hunting." The valve shall operate in the cooling mode through the use of an internal check valve.

Blower Motor and Assembly

The blower shall be an oversized direct drive centrifugal type with a dynamically balanced wheel. The housing and wheel shall be designed for quiet low outlet velocity operation and of galvanized or galvalume steel construction. Tight blower housing geometry shall not be permitted. The blower housing shall be removable from the unit without disconnecting the supply air ductwork for servicing of the blower motor through a 'works-in-a-drawer' design. The high efficiency blower motor shall be a variable speed ECM type. The blower motor shall be isolated from the housing by rubber grommets. The motor shall be permanently lubricated ball bearings and have thermal overload protection.

Electrical

A solid state electronic control module shall be provided for the control of the blower and each stage of electric heat. Single or dual circuit line voltage terminal blocks shall be provided for the air handler power supply. Fuse protection shall be provided for the 75 VA control transformer. Units shall have knockouts for entrance of the low and line voltage wiring. The blower motor shall incorporate a harness plug-connection for easy removal. An integral circuit breaker shall be provided on all units employing 15 or 20 kW electric heat. The control shall maintain the blower operation 30 seconds after the compressor or electric heat have shut off to improve efficiency.

Piping

Refrigerant connections shall be made using sweat copper joints. The condensate connections shall be a 3/4" FPT thread.



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The Manufacturer has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.