Quick Reference Guide

Water Source Heat Pump Axiom™ Vertical — Standard Efficiency 0.5 to 5 Tons GEVG

October 2021

WSHP-PRC029B-EN

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Table 1. List of options

Factory Installed Options	Field Installed Options
1-inch or 2-inch Ducted Filter Rack	2-inch or 4-inch Ducted Filter Rack
Air-Fi® Wireless Communications	Ducted Panel
Deluxe 24V, UC400B or ZN524 Controls	Hose Kits (or ship separate hoses and valves)
Factory-mounted Isolation Valve	Pump Module
Hot Gas Reheat	Pump Module Hose Kit
Low, Medium and High Electric Heat	Thermostats or Zone Sensors
Matte or Foil Face Insulation	Waterside Economizer
MERV 8 or 13 Filters	
Polymer or Stainless Steel IAQ Drain Pan	
Recessed Unit Mounted Disconnect Switch	
Standard or Deluxe Sound Package	

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Table 2. General data - models GEVG006-024

Model GEVG	006	009	012	015	018	024
Unit Size width x depth x height (in.)	19 x 19 x 30	19 x 19 x 30	19 x 19 x 30	21.5 x 21.5 x 34	21.5 x 21.5 x 34	21.5 x 23 x 36
Compressor type	Rotary	Rotary	Rotary	Rotary	Rotary	Scroll
Net weight (lbs.)	149	149	149	155	157	210
Ship weight (lbs.)	201	201	201	210	212	268
Filter size nominal (in.)	14 x 16	14 x 16	14 x 16	16 x 19	16 x 19	16 x 19
Water in/out size (FPT)	0.5	0.5	0.5	0.5	0.5	0.75
Condensate size (NPTI)	0.75	0.75	0.75	0.75	0.75	0.75
Blower wheel Size (in.)	9 x 6	9 x 6	9 x 6	9 x 8	9 x 8	10 x 8

Table 3. General data - models GEVG030-060

Model GEVG	030	036	042	048	060
Unit Size width x depth x height (in.)	21.5 x 23 x 36	21.5 x 26 x 38	21.5 x 26 x 38	24 x 32.5 x 42	24 x 32.5 x 42
Compressor type	Scroll	Scroll	Scroll	Scroll	Scroll
Net weight (lbs.)	214	220	252	280	285
Ship weight (lbs.)	272	280	312	343	348
Filter size nominal (in.)	16 x 19	18 x 23	18 x 23	20 x 30	20 x 30
Water in/out size (FPT)	0.75	0.75	0.75	1.00	1.00
Condensate size (NPTI)	0.75	0.75	0.75	0.75	0.75
Blower wheel Size (in.)	10 x 8	10 x 9	10 x 9	11 x 11	11 x 11

Table 4. ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance - 0.5 to 5 Tons

Model	Rated GPM	Rated CFM	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
			Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Full Cool 77°F		Full Heat 32°F	
			Capacity Btuh	EER	Capacity Btuh	COP	Capacity Btuh	EER	Capacity Btuh	COP	Capacity Btuh	EER	Capacity Btuh	COP
GEVG006	1.50	190	7000	13.7	9300	4.70	8100	21.30	7500	4.10	7400	16.00	5600	3.30
GEVG009	2.25	285	8700	15.5	11200	5.50	9600	23.80	9100	4.70	8900	17.80	6700	3.70
GEVG012	3.00	380	11400	14.9	15300	5.30	13300	24.20	12400	4.60	12100	17.60	9400	3.70
GEVG015	3.75	475	15400	15.4	19300	5.20	17300	23.60	15700	4.40	16100	17.90	12400	3.70
GEVG018	4.50	570	18000	15.7	22800	5.10	20100	24.20	18700	4.50	18800	18.20	14400	3.70
GEVG024	6.00	760	23900	16.1	31100	5.30	26600	24.40	25300	4.60	24800	18.50	19600	3.80
GEVG030	7.50	950	29000	15.4	37900	5.10	32300	23.00	30800	4.50	30200	17.70	23300	3.70
GEVG036	9.00	1140	36000	15.4	45100	5.00	39900	22.60	36900	4.40	37300	17.60	28700	3.60
GEVG042	10.50	1330	40900	14.9	55600	4.70	45500	22.00	45600	4.20	42600	17.10	35300	3.50
GEVG048	12.00	1520	49500	15.1	62600	4.90	55700	22.80	50000	4.20	51800	17.40	37600	3.30
GEVG060	15.00	1900	55200	14.5	75400	4.60	61700	21.30	61200	4.10	57300	16.50	47000	3.50

Notes:

1. Rated in accordance with ANSI/AHRI/ASHRAE/ISO13256-1. Certified conditions are 80.6°F DB/66.2°F WB EAT in cooling and 68F DB/59°F WB EAT in heating.

2. Models with capacities greater than 135,000 Btuh are not included in the ANSI/AHRI/ASHRAE/ISO13256-1 water-to-air and brine-to-air heat pump certification program.

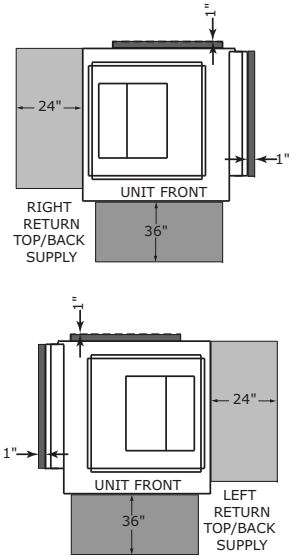
Table 5. Electrical data - ECM motors - 0.5 to 5 tons GEVG

Model No.	Unit Volts	Blower Motor HP	Minimum Circuit Ampacity	Maximum Overcurrent Protective Device
GEVG006	208-230/60/1	1/3	5/5	15/15
GEVG006	265/60/1	1/3	5	15
GEVG009	208-230/60/1	1/3	6/6	15/15
GEVG009	265/60/1	1/3	5	15
GEVG012	208-230/60/1	1/3	9/9	15/15
GEVG012	265/60/1	1/3	7	15
GEVG015	208-230/60/1	1/3	10/10	15/15
GEVG015	265/60/1	1/3	7	15
GEVG018	208-230/60/1	1/3	12/12	20/20
GEVG018	265/60/1	1/3	10	15
GEVG024	208-230/60/1	1/2	19/19	30/30
GEVG024	265/60/1	1/2	13	20
GEVG024	208-230/60/3	1/2	11/11	15/15
GEVG024	460/60/3	1/2	6	15
GEVG030	208-230/60/1	3/4	20/20	30/30
GEVG030	208-230/60/3	3/4	13/13	20/20
GEVG030	265/60/1	3/4	16	25

Table 5. Electrical data - ECM motors - 0.5 to 5 tons GEVG (continued)

Model No.	Unit Volts	Blower Motor HP	Minimum Circuit Ampacity	Maximum Overcurrent Protective Device
GEVG030	460/60/3	3/4	7	15
GEVG036	208-230/60/1	3/4	24/24	40/40
GEVG036	265/60/1	3/4	20	30
GEVG036	208-230/60/3	3/4	16/16	25/25
GEVG036	460/60/3	3/4	9	15
GEVG042	208-230/60/1	3/4	26/26	40/40
GEVG042	208-230/60/3	3/4	21/21	30/30
GEVG042	460/60/3	1	10	15
GEVG048	208-230/60/1	1	31/31	50/50
GEVG048	208-230/60/3	1	23/23	35/35
GEVG048	460/60/3	1	10	15
GEVG060	208-230/60/1	1	38/38	60/60
GEVG060	208-230/60/3	1	25/25	40/40
GEVG060	460/60/3	1	13	20

Figure 1. Clearance - GEVG 0.5 to 5 Tons



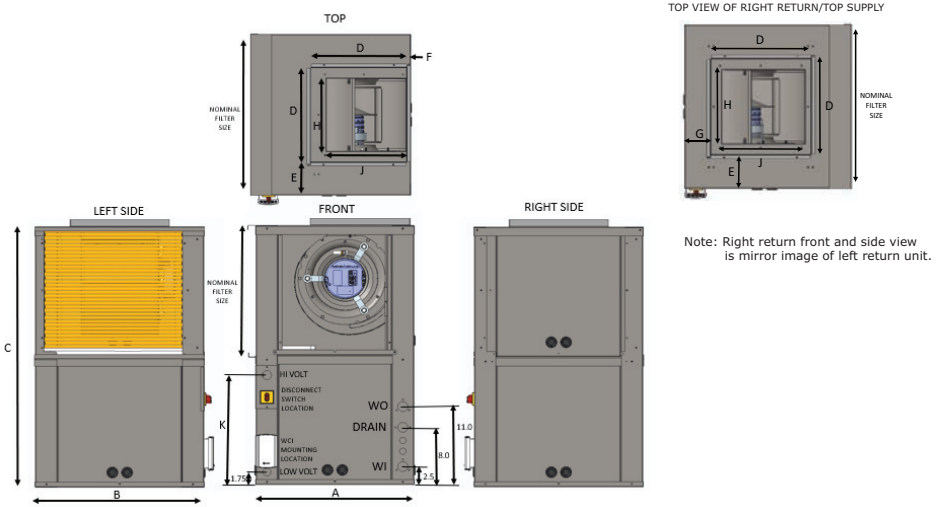
A 24-inch clearance from other mechanical and electrical equipment (where shown) is recommended for most unit configurations. This will enable panel removal from the unit for service/maintenance.

The 24-inch side clearance on GEVG 0.5-5T models is for optimal access only. Side clearance is not a requirement as most components can be accessed from the front of the unit.

A 1-inch minimum clearance between the filter rack and any obstacle is required for units in a free return application to provide proper air flow to the air-to-refrigerant coil. A 12-inch minimum clearance between the filter rack and any obstacle should be provided to properly attached ductwork.

The 1-inch dimension shown in the back of the unit represents the supply duct collar for the back supply option. This clearance is needed to clear these flanges.

Figure 2. Left return and right return/top supply (GEVG)



Note: Right return front and side view is mirror image of left return unit.

Table 6. Dimensional data left return and right return/top supply (GEVG)

Unit	Cabinet			Duct Collar	Duct Collar Location			Blower Opening		Hi Volt	Nominal Filter Size	W.I. NPTI	W.O. NPTI	Drain NPTI
	Width	Depth	Height											
	A	B	C	D	E	F	G	H	J	K				
006-012	19.0	19.0	30.00	11.38	3.70	1.40	3.50	8.00	7.70	12.25	14 x 16	1/2	1/2	3/4
015-018	21.5	21.5	34.00	13.25	4.00	1.00	3.50	10.50	9.60	14.25	16 x 19	1/2	1/2	3/4
024-030	21.5	23.0	36.00	13.25	4.75	0.63	3.50	10.50	11.30	15.25	17 x 20	3/4	3/4	3/4
036-042	21.5	26.0	38.00	13.25	6.25	0.63	3.50	11.80	11.30	16.25	18 x 23	3/4	3/4	3/4
048-060	24.0	32.5	42.00	17.75	7.25	0.75	3.50	13.70	13.50	18.25	20 x 30	1	1	3/4

Note: Units in a free return application will require more than 1-inch clearance to provide proper air flow to the unit's air-to-refrigerant coil.

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