

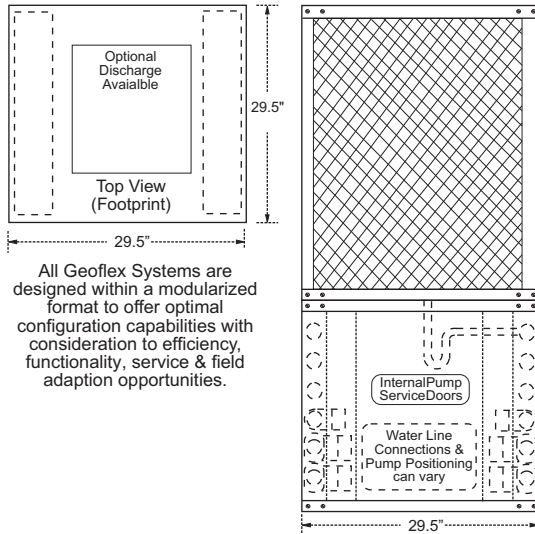
# Technical Specifications

Geoflex Models 022, 030, 036, 042, 048, 060, 070  
Water/Liquid to Air - 410A - Top Discharge

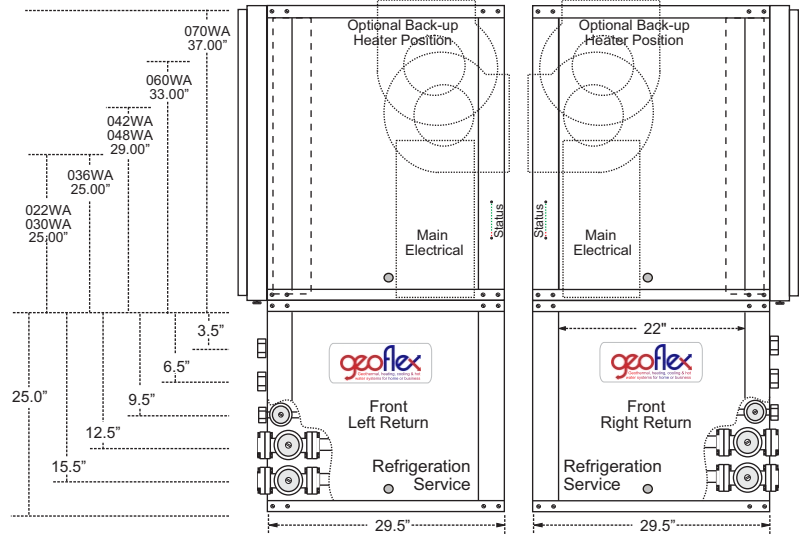
Pipe Connections		
All Two Step Models	Geothermal Loop or Open Well (in. mnpt)	1"
	Internal DHW Pump (in. mnpt)	1"
	Internal DS/PHW Pump (in. mnpt)	3/4"
	Cond. Line Out (in. mnpt)	3/4"
	Optional Manual Passive Cooling (in. mnpt)	3/4"
	Optional Manual Hydronic Back-up (in. mnpt)	3/4"

**Notes:** Specialized pumps can change pipe connection sizing!  
Piping positions can vary, depending on options

Standard Features	Geoflex Systems	Available Options
Low Noise Package	1" acoustical insulation & all internal refrigeration lines are fully insulated to reduce noise potential.	All Pumps can be Built-in, pre-wired, pre-fused & pre-controlled
Electronic Diagnostics	On board fault Diagnostics	Partial Hot Water(s) c/w Internal Pump & High Limit Switch
Service & Maintenance	Service Doors Surround System	Demand Hot Water(s) c/w Internal Pump
Service Switches	Independent, Low & High Pressure & Low Flow c/w HP & LP Memory	10, 15, 20K Electric / Hydronic back-up/emergency available
Freon Service	Bi-flow Filter/Drier & Moisture Indicating Sight Glass	Flexible Orientation, air discharge, water connections
Evaporator Construction	All Evaporator Coils are Insulated to avoid Condensation Rusting	Diagnostic LED Function Light Array
Field Adaption	All Geoflex Systems are designed to offer maximum field adaptability	K-Type ThermoProbes for simpler in field diagnostics
		Automated First Stage or Manual Passive Cooling Built-in
		Cupronickel and Double Wall Vented Coils for specialized apps.



All Geoflex Systems are designed within a modularized format to offer optimal configuration capabilities with consideration to efficiency, functionality, service & field adaption opportunities.



Geoflex Single Step Vertical Physical Data					
Model	Height (inches)	Filter Size (Inches)	Forced Air Only Weight	Forced Air & DHW	Est. Base Shipping Weight
22	50.0"	25"X25"	250	325	370
30	50.0"	25"X25"	270	345	390
36	50.0"	25"X25"	285	360	405
42	54.0"	25"X29"	325	400	445
48	54.0"	25"X29"	345	420	465
60	58.0"	25"X33"	375	450	495
70	62.0"	25"X37"	405	480	525

**Notes:** Optional Filter Rack is designed for a 1" or 2" filter  
A... 2" Pleated Filter is Recommended  
Weights will vary, based on options & shipping method  
Units must be palced on Anti-vibration Pad  
Add 30 to 90 lbs., depending on packing & skidding

Geoflex 410A Single Step Electrical Data												
Model	Fan Motor Type	Compressor			HWG Pump FLA	Ext Loop Pump FLA	Fan Motor FLA	Total Unit FLA	Min Circuit Amps	Max Fuse/HACR	Supply Wire	
		RLA	LRA	MCC							Min AWG	Max Ft (M)
22	PSC	9.0	60	14.1	0.41	1.8	2.3	13.5	15.2	25/30	10	91 (27.8)
	ECM	9.0	60	14.1	0.41	1.8	3.9	15.1	17.0	25/30	10	87 (26.4)
30	PSC	12.9	61	20.1	0.41	1.8	2.5	17.6	20.4	30	10	72 (22.0)
	ECM	12.9	61	20.1	0.41	1.8	3.9	19.0	22.0	30	10	67 (20.5)
36	PSC	14.1	72.5	22.1	0.41	1.8	2.5	18.8	21.9	35/40	10	68 (20.8)
	ECM	14.1	72.5	22.1	0.41	1.8	3.9	20.2	23.5	35/40	10	63 (19.1)
42	PSC	16.7	83	26.1	0.41	1.8	4.0	22.9	26.8	40	10	58 (17.0)
	ECM	16.7	83	26.1	0.41	1.8	3.9	22.8	26.7	40	10	55 (16.7)
48	PSC	19.9	109	31.1	0.41	1.8	4.0	26.1	30.6	50	8	77 (23.4)
	ECM	19.9	109	31.1	0.41	1.8	6.9	29.0	34.0	50	8	69 (21.1)
60	PSC	26.4	145	41.3	0.41	1.8	4.6	33.3	39.1	50	6	95 (29.0)
	ECM	26.4	145	41.3	0.41	1.8	6.9	35.6	41.8	50	6	90 (27.5)
70	PSC	30.2	158	47.2	0.41	1.8	5.3	37.7	44.5	60	6	85 (25.8)
	ECM	30.2	158	47.2	0.41	1.8	6.9	39.3	46.4	60	6	81 (24.6)

**Notes:** Rated Voltage of 208-230/60/1 Min/Max Voltage of 197/254 Wire length based on, 230V & one way 1.5% voltage drop  
HACR circuit breaker in USA only All fuses Class RK-5 Wire size based on 60°C copper conductor & MCA

Geoflex 410A Single Step Performance Data															
Model	Fan Motor	Building Closed Loop				Ground Open Well "Water" Loop				Ground Closed Loop				Flow	
		Cooling 86.0°F		Heating 68.0°F		Cooling 59.0°F		Heating 50.0°F		Cooling 77.0°F		Heating 32.0°F			
		Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	GPM	CFM
22	PSC	20,340	16.7	24,340	5.5	22,940	26.9	19,900	4.7	21,120	19.7	15,100	3.8	8	800
22	ECM	20,350	17.3	24,650	5.8	22,990	28.7	19,940	5.0	21,250	20.5	15,260	3.9	8	800
30	PSC	26,924	16.8	32,283	5.3	29,922	25.0	26,322	4.6	28,022	19.4	20,674	3.8	8	950
30	ECM	27,207	17.4	32,420	5.6	30,350	26.4	26,322	4.8	28,304	20.0	20,820	4.0	8	950
36	PSC	32,915	17.1	38,085	5.6	36,083	25.4	30,967	4.8	33,887	19.4	24,406	4.0	9	1200
36	ECM	33,163	18.6	37,990	6.0	36,533	28.3	30,967	5.2	34,135	21.1	24,454	4.3	9	1200
42	PSC	38,166	16.3	45,978	5.4	43,080	24.4	36,873	4.6	39,836	19.0	29,056	3.8	11	1350
42	ECM	38,609	18.2	45,591	5.8	44,009	28.3	36,486	5.1	40,375	20.7	28,475	4.1	11	1350
48	PSC	47,311	15.4	58,429	5.0	53,429	22.9	47,643	4.4	50,043	17.5	37,614	3.7	12	1500
48	ECM	47,918	16.7	58,279	5.4	53,734	25.4	47,493	4.7	50,349	19.1	37,314	3.9	12	1500
60	PSC	63,110	16.0	70,804	5.1	70,020	23.9	57,487	4.5	65,683	18.4	45,315	3.7	15	1850
60	ECM	63,260	16.8	71,008	5.3	70,272	25.2	57,691	4.7	66,040	19.3	45,417	3.9	15	1850
70	PSC	69,050	14.8	85,050	4.9	77,300	21.6	67,750	4.2	72,000	16.9	53,000	3.5	18	2050
70	ECM	68,800	15.6	84,600	5.1	78,050	23.7	67,550	4.4	71,600	18.0	52,950	3.7	18	2050

**NOTES:** Heating capacities based upon 68°F DB, 59°F WB entering air temperature  
Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature  
Ground Loop Heat Pump ratings based on 15% antifreeze solution  
All ratings based upon operation at lower voltage of dual voltage rated models



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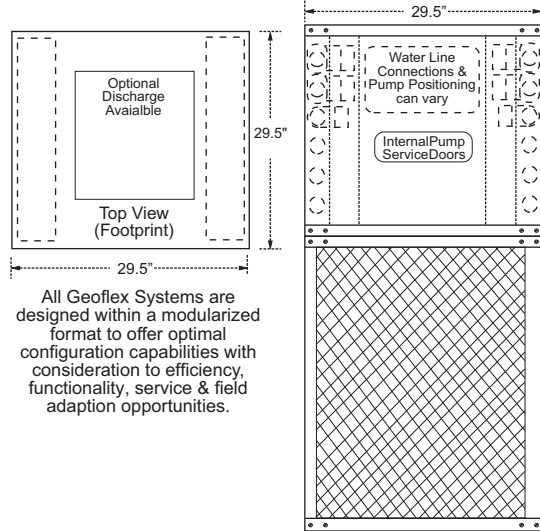
[www.geoflexsystems.com](http://www.geoflexsystems.com)

# Technical Specifications

Geoflex Models 022, 030, 036, 042, 048, 060, 070  
Water/Liquid to Air - 410A - Down Discharge

Pipe Connections		
All Two Step Models	Geothermal Loop or Open Well (in. mnpt)	1"
	Internal DHW Pump (in. mnpt)	1"
	Internal DS/PHW Pump (in. mnpt)	3/4"
	Cond. Line Out (in. mnpt)	3/4"
	Optional Manual Passive Cooling (in. mnpt)	3/4"
	Optional Manual Hydronic Back-up (in. mnpt)	3/4"

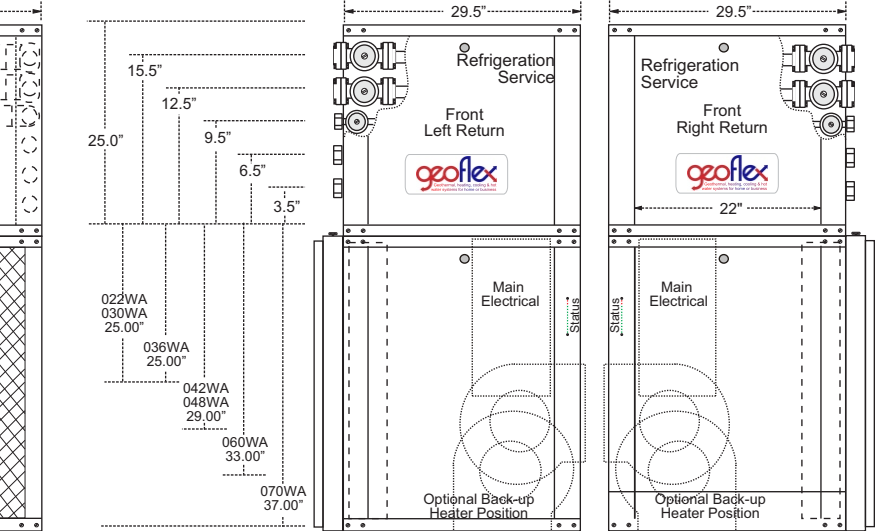
**Notes:** Specialized pumps can change pipe connection sizing!  
Piping positions can vary, depending on options



All Geoflex Systems are designed within a modularized format to offer optimal configuration capabilities with consideration to efficiency, functionality, service & field adaptation opportunities.

Standard Features	Geoflex Systems
Low Noise Package	1" acoustical insulation & all internal refrigeration lines are fully insulated to reduce noise potential.
Electronic Diagnostics	On board fault Diagnostics
Service & Maintenance	Service Doors Surround System
Service Switches	Independent, Low & High Pressure & Low Flow c/w HP & LP Memory
Freon Service	Bi-flow Filter/Drier & Moisture Indicating Sight Glass
Evaporator Construction	All Evaporator Coils are Insulated to avoid Condensation Rusting
Field Adaptation	All Geoflex Systems are designed to offer maximum field adaptability

Available Options	
All Pumps can be Built-in, pre-wired, pre-fused & pre-controlled	
Partial Hot Water(s) c/w Internal Pump & High Limit Switch	
Demand Hot Water(s) c/w Internal Pump	
10, 15, 20K Electric / Hydronic back-up/emergency available	
Flexible Orientation, air discharge, water connections	
Diagnostic LED Function Light Array	
K-Type ThermoProbes for simpler in field diagnostics	
Automated First Stage or Manual Passive Cooling Built-in	
Cupronickel and Double Wall Vented Coils for specialized apps.	



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Model	Height (inches)	Filter Size (Inches)	Forced Air Only Weight	Forced Air & DHW	Est. Base Shipping Weight
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30	50.0"	25"X25"	270	345	390
36	50.0"	25"X25"	285	360	405
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Weights will vary, based on options & shipping method  
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Geoflex 410A Single Step Electrical Data												
Model	Fan Motor Type	Compressor			HWG Pump FLA	Ext Loop Pump FLA	Fan Motor FLA	Total Unit FLA	Min Circuit Amps	Max Fuse/HACR	Supply Wire	
		RLA	LRA	MCC							Min AWG	Max Ft (M)
22	PSC	9.0	60	14.1	0.41	1.8	2.3	13.5	15.2	25/30	10	91 (27.8)
	ECM	9.0	60	14.1	0.41	1.8	3.9	15.1	17.0	25/30	10	87 (26.4)
30	PSC	12.9	61	20.1	0.41	1.8	2.5	17.6	20.4	30	10	72 (22.0)
	ECM	12.9	61	20.1	0.41	1.8	3.9	19.0	22.0	30	10	67 (20.5)
36	PSC	14.1	72.5	22.1	0.41	1.8	2.5	18.8	21.9	35/40	10	68 (20.8)
	ECM	14.1	72.5	22.1	0.41	1.8	3.9	20.2	23.5	35/40	10	63 (19.1)
42	PSC	16.7	83	26.1	0.41	1.8	4.0	22.9	26.8	40	10	56 (17.0)
	ECM	16.7	83	26.1	0.41	1.8	3.9	22.8	26.7	40	10	55 (16.7)
48	PSC	19.9	109	31.1	0.41	1.8	4.0	26.1	30.6	50	8	77 (23.4)
	ECM	19.9	109	31.1	0.41	1.8	6.9	29.0	34.0	50	8	69 (21.1)
60	PSC	26.4	145	41.3	0.41	1.8	4.6	33.3	39.1	50	6	95 (29.0)
	ECM	26.4	145	41.3	0.41	1.8	6.9	35.6	41.8	50	6	90 (27.5)
70	PSC	30.2	158	47.2	0.41	1.8	5.3	37.7	44.5	60	6	85 (25.8)
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**Notes:** Rated Voltage of 208-230/60/1  
HACR circuit breaker in USA only  
Min/Max Voltage of 197/254  
All fuses Class RK-5  
Wire length based on, 230V & one way 1.5% voltage drop  
Wire size based on 60°C copper conductor & MCA

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Model	Fan Motor	Building Closed Loop				Ground Open Well "Water" Loop				Ground Closed Loop				Flow	
		Cooling 86.0°F		Heating 68.0°F		Cooling 59.0°F		Heating 50.0°F		Cooling 77.0°F		Heating 32.0°F			
		Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	GPM	CFM
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**NOTES:** Heating capacities based upon 68°F DB, 59°F WB entering air temperature  
Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature  
Ground Loop Heat Pump ratings based on 15% antifreeze solution  
All ratings based upon operation at lower voltage of dual voltage rated models



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