Technical Specifications

Geoflex Two Stage Dehumidification System
Model 072 - 410A - Top Discharge

Blower High Speed CFM & SP

ESP	0.3	0.5	.75	1.0
CFM	2,375	2,200	2,093	2,018

Standard Pool Heat Recovery Option

Model	GPM	FOH	PSIG	MBH	EWT
DWV-1.0	2	2.1	0.9	12	80
DWV-1.5	3	5.3	2.3	18	80

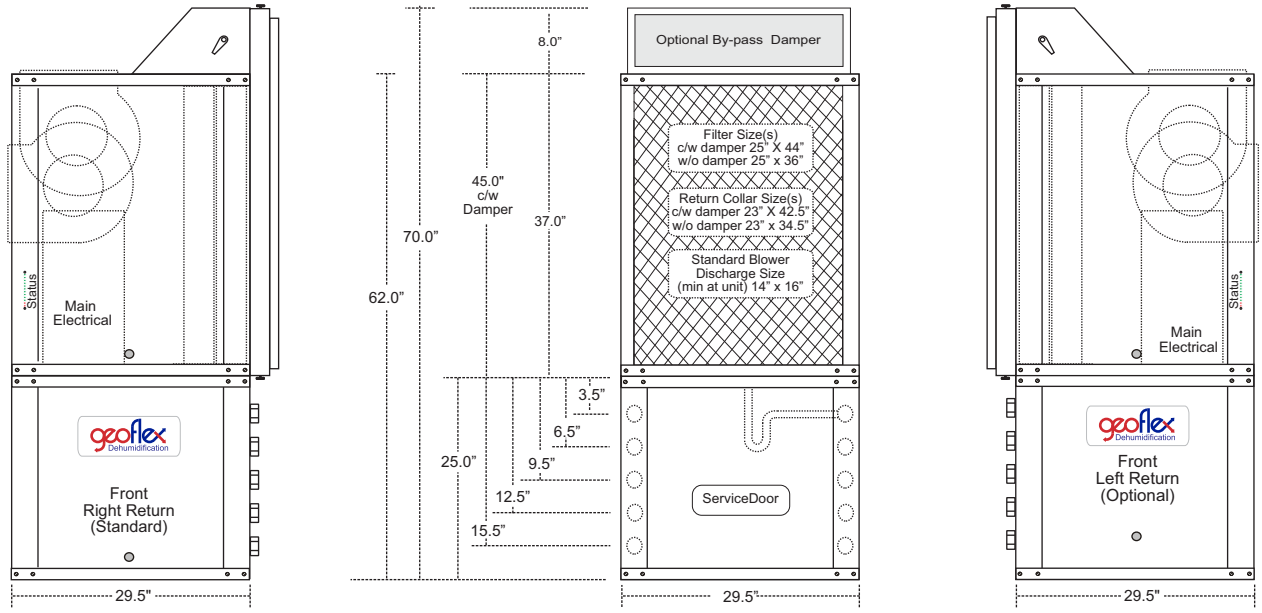
Available Cabinet Types

Model	Cabinet Types	Footprint		Height without Damper	Height c/w 8" Damper
		Width	Depth		
072	Standard Vertical	29.5"	29.5"	62.0"	70.0"
072	*Larger Vertical	29.5"	44.25"	62.0"	70.0"
072	Standard Horizontal	29.5"	59.0"	37.0"	45.0"
072	**Compact Horizontal	29.5"	44.25"	37.0"	45.0"

* Larger cabinets are used to accommodate much higher than standard CFM
** Units with some features, eg., the geothermal option, demand a larger footprint
NOTE: Weights and measures can vary, depending on selected configuration and options!

Elements	
Description	Type
Refrigerant	R410A
Refrigerant Charge (Superheat Supercedes)	Min 10 F Superheat
Base Unit	6.9 lbs. (est)
Base Unit c/w Ext. DX Condenser	10.8 lbs. (est)
Internal 100% Air Reheat Condensor	DX (Direct Expansion)
Compressor	Scroll
Standard Blower	Direct Drive (PSC or ECM)
Air Coil Coating	Baked Acrylic 3 Stage Process
Condensate Pan	SuperGaurd Coated
Optional Pool Reheat Condensor	Co-axial (DWV, C/N)
Optional Water Condensor	Co-axial or Brazed Plate
Base Weight	568 lbs. (est)
Ship Weight	597 lbs. (est)
Crated Weight	658 lbs. (est)

Standard Two Stage Features	
Highest Efficiency	Two Stage systems automatically adjust capacity based on occupied and unoccupied loads, offerring highest operating efficiency
Internal Piping	All Internal Refrigeration Piping is Insulated to Reduce Noise and Potential Pipe Degradation
Air Coils	Air Coils and internal components are coated and baked with an Acrylic Coating
Low Noise Package	1" acoustical insulation & all internal refrigeration lines are fully insulated to reduce noise potential.
Electronic Diagnostics	On board fault Diagnostics
Cabinet	A Seperator Plate is used between the Air and Refrigeration Section
Service & Maintenance	Service Doors Surround System
Refrigeration Section	An Internal Negative Pressure Port is incoprorated to Reduce Heat or Condensation Build-up.
Service Switches	Independant, Low & High Pressure & Low Flow c/w HP & LP Memory
Freon Service	Bi-flow Filter/Drier & Moisture Indicating Sight Glass
Condensate Sensor	Electronic Condensate Pan Overflow Sensor is included in all Dehumification Systems.
Condensate Line Position	Systems come with a condensation line that can be adapted to any corner of the system, in the field!
Evaporator Construction	All Evaporator Coils are Insulated to avoid Condensation Rusting
Feild Adaption	All Systems are designed to offer maximum field adaptability



Two Step Dehumidification Performance Data

Model	Fan Motor Type	Cap	Air Temp °F	50% RH				55% RH				60% RH				Flow
				Moisture Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	Moisture Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	Moisture Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	Indoor Air CFM
072	PSC	Full	80	19.1	40,230	61,218	75,110	21.0	39,647	63,549	77,431	25.3	39,070	65,817	79,690	2,200
	PSC	Part	80	14.2	30,048	45,431	55,513	15.6	29,535	47,092	57,197	18.7	29,027	48,701	58,828	1,900
	PSC	Full	82	20.4	39,908	61,181	75,414	24.5	38,474	62,441	76,649	26.7	37,353	63,942	78,129	2,200
	PSC	Part	82	15.1	29,725	45,319	55,671	18.1	28,458	46,078	56,485	19.8	27,464	47,033	57,482	1,900
	PSC	Full	84	24.9	38,441	59,784	74,347	29.9	37,186	61,198	75,737	32.6	35,960	62,501	77,017	2,200
	PSC	Part	84	18.4	28,381	44,059	54,730	22.0	27,264	44,933	55,653	24.0	26,168	45,706	56,474	1,900

Two Stage, 410A Electrical Data

Model	Voltage Code	Voltage	Min/Max Voltage	Compressor			Blower Hp	Blower FLA		Total Unit FLA	Min Circuit Amps	Max Fuse/ HACR	Supply Wire	
				RLA	LRA	LRA*							Min AWG 60°C	Max Ft (M)
072	A	208-230/60/	1197/254	29.7	179.2	62.9	1	5.3		35.0	42.0	70	4	123 (37.5)
	C	208-230/60/	3197/254	19.7	136.0	-	1	4.4		24.1	28.9	50	6	132 (40.3)
	D	460/60/3	414/506	8.5	66.1	-	1	2.2		10.7	12.8	20	12	240 (73.2)
	E	575/60/3	518/633	8.5	66.1	-	1	1.6		10.1	12.1	20	12	315 (96.1)

Notes: LRA* estimated with optional "Secure Start" installed (208-230/60/1)
HACR circuit breaker in USA only
All fuses Class RK-5
Wire length based on higher if 2 voltages, one way 2.0% voltage drop
Wire size based on 60°C copper conductor & minumum circuit ampacity
In some caeses local & national electrical codes will superceed fuse & wire size information as supplied herein, which must take precedent.

www.geoflexsystems.com

Energy Transfer Systems
Residential, Commercial, Industrial

GF-DH-TS-TD-064-R410A-10-23-17-24-CUD

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Phone: 519.488.1653 Fax: 519.913.1259
Email: plant@geoflexsystems.com

Technical Specifications

Geoflex Two Stage Dehumidification System
Model 072 - 410A - Bottom Discharge

Blower High Speed CFM & SP

ESP	0.3	0.5	.75	1.0
CFM	2,375	2,200	2,093	2,018

Standard Pool Heat Recovery Option

Model	GPM	FOH	PSIG	MBH	EWT
DWV-1.0	2	2.1	0.9	12	80
DWV-1.5	3	5.3	2.3	18	80

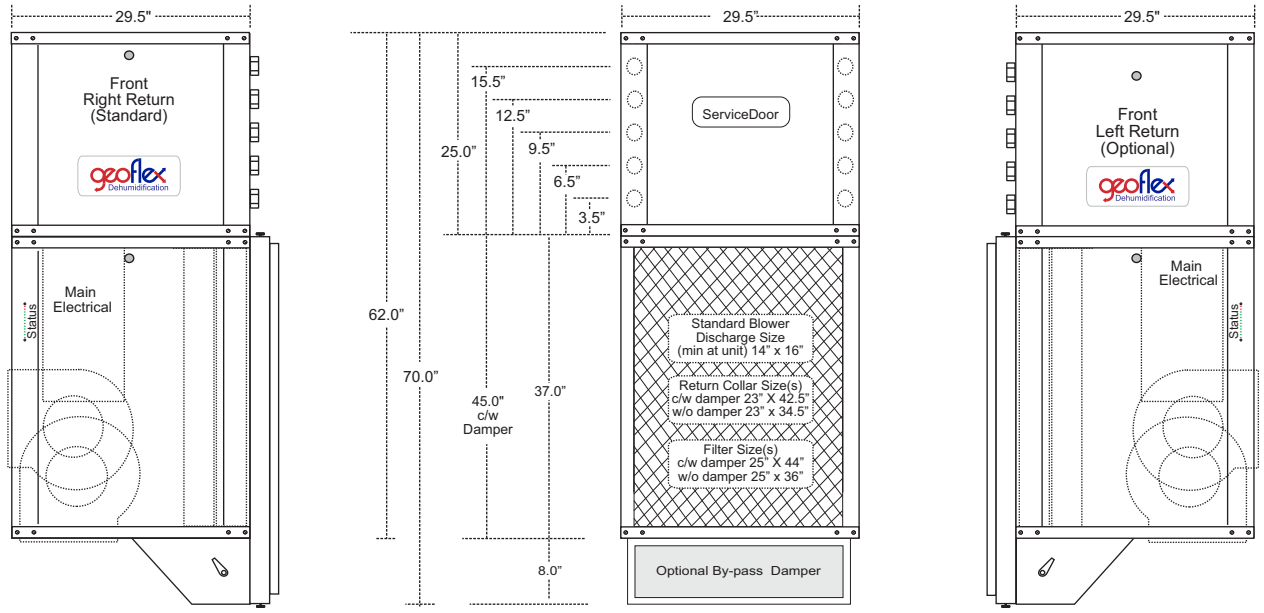
Available Cabinet Types

Model	Cabinet Types	Footprint		Height without Damper	Height c/w 8" Damper
		Width	Depth		
072	Standard Vertical	29.5"	29.5"	62.0"	70.0"
072	*Larger Vertical	29.5"	44.25"	62.0"	70.0"
072	Standard Horizontal	29.5"	59.0"	37.0"	45.0"
072	**Compact Horizontal	29.5"	44.25"	37.0"	45.0"

* Larger cabinets are used to accommodate much higher than standard CFM
** Units with some features, eg., the geothermal option, demand a larger footprint
NOTE: Weights and measures can vary, depending on selected configuration and options!

Elements	
Description	Type
Refrigerant	R410A
Refrigerant Charge (Superheat Supercedes)	Min 10 F Superheat
Base Unit	6.9 lbs. (est)
Base Unit c/w Ext. DX Condenser	10.8 lbs. (est)
Internal 100% Air Reheat Condensor	DX (Direct Expansion)
Compressor	Scroll
Standard Blower	Direct Drive (PSC or ECM)
Air Coil Coating	Baked Acrylic 3 Stage Process
Condensate Pan	SuperGaurd Coated
Optional Pool Reheat Condensor	Co-axial (DWV, C/N)
Optional Water Condensor	Co-axial or Brazed Plate
Base Weight	568 lbs. (est)
Ship Weight	597 lbs. (est)
Crated Weight	658 lbs. (est)

Standard Two Stage Features	
Highest Efficiency	Two Stage systems automatically adjust capacity based on occupied and unoccupied loads, offerring highest operating efficiency
Internal Piping	All Internal Refrigeration Piping is Insulated to Reduce Noise and Potential Pipe Degradation
Air Coils	Air Coils and internal components are coated and baked with an Acrylic Coating
Low Noise Package	1" acoustical insulation & all internal refrigeration lines are fully insulated to reduce noise potential.
Electronic Diagnostics	On board fault Diagnostics
Cabinet	A Seperator Plate is used between the Air and Refrigeration Section
Service & Maintenance	Service Doors Surround System
Refrigeration Section	An Internal Negative Pressure Port is incoprorated to Reduce Heat or Condensation Build-up.
Service Switches	Independant, Low & High Pressure & Low Flow c/w HP & LP Memory
Freon Service	Bi-flow Filter/Drier & Moisture Indicating Sight Glass
Condensate Sensor	Electronic Condensate Pan Overflow Sensor is included in all Dehumification Systems.
Condensate Line Position	Systems come with a condensation line that can be adapted to any corner of the system, in the field!
Evaporator Construction	All Evaporator Coils are Insulated to avoid Condensation Rusting
Feild Adaption	All Systems are designed to offer maximum field adaptability



Two Step Dehumidification Performance Data																
Model	Fan Motor Type	Cap	Air Temp °F	50% RH				55% RH				60% RH				Flow
				Moisture Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	Moisture Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	Moisture Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	Indoor Air CFM
072	PSC	Full	80	19.1	40,230	61,218	75,110	21.0	39,647	63,549	77,431	25.3	39,070	65,817	79,690	2,200
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Two Stage, 410A Electrical Data														
Model	Voltage Code	Voltage	Min/Max Voltage	Compressor			Blower Hp	Blower FLA		Total Unit FLA	Min Circuit Amps	Max Fuse/ HACR	Supply Wire	
				RLA	LRA	LRA*							Min AWG 60°C	Max Ft (M)
072	A	208-230/60/3	197/254	29.7	179.2	62.9	1	5.3		35.0	42.0	70	4	123 (37.5)
	C	208-230/60/3	197/254	19.7	136.0	-	1	4.4		24.1	28.9	50	6	132 (40.3)
	D	460/60/3	414/506	8.5	66.1	-	1	2.2		10.7	12.8	20	12	240 (73.2)
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Notes: LRA* estimated with optional "Secure Start" installed (208-230/60/1)
HACR circuit breaker in USA only
All fuses Class RK-5
Wire length based on higher if 2 voltages, one way 2.0% voltage drop
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geoflex Energy Transfer Systems
Residential, Commercial, Industrial

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Technical Specifications

Geoflex Two Stage Dehumidification System
Model 072 - 410A - Horizontal

Blower High Speed CFM & SP

ESP	0.3	0.5	.75	1.0
CFM	2,375	2,200	2,093	2,018

Standard Pool Heat Recovery Option

Model	GPM	FOH	PSIG	MBH	EWT
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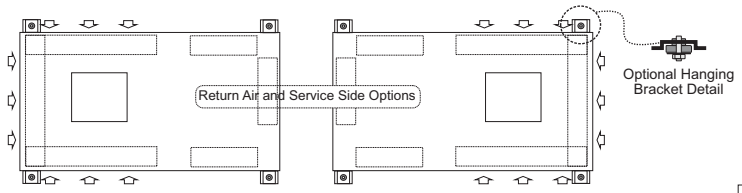
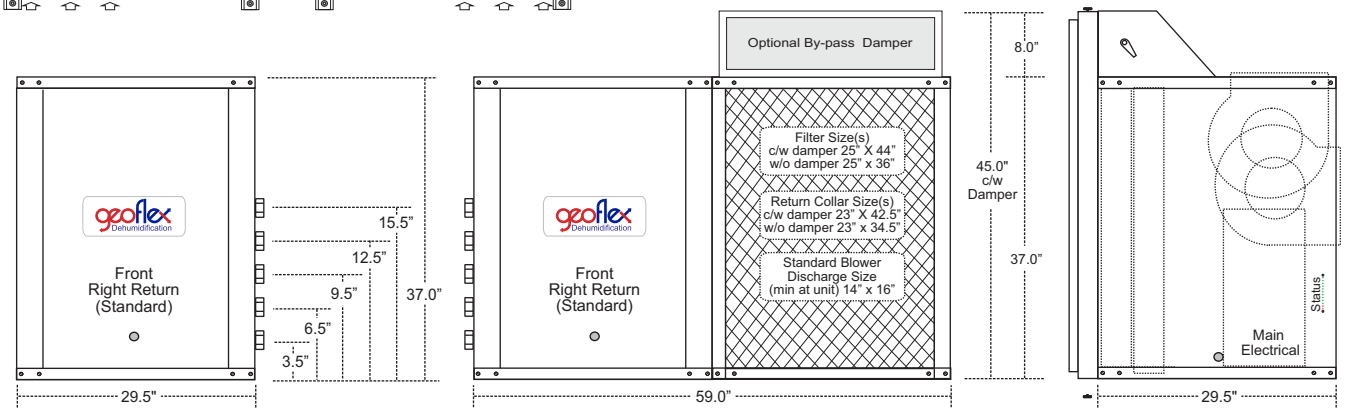


Notes: As Geoflex offers a wide variety of features, configurations and options, weights and measures can vary, depending on options!

The main electrical box positioning can vary, depending on features, options and field requirements.



Two Step Dehumidification Performance Data

Model	Fan Motor Type	Cap	Air Temp °F	50% RH				55% RH				60% RH				Flow
				Moisture Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	Moisture Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	Moisture Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	Indoor Air CFM
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Two Stage, 410A Electrical Data

Model	Voltage Code	Voltage	Min/Max Voltage	Compressor			Blower Hp	Blower FLA		Total Unit FLA	Min Circuit Amps	Max Fuse/ HACR	Supply Wire	
				RLA	LRA	LRA*							Min AWG 60°C	Max Ft (M)
072	A	208-230/60/	1197/254	29.7	179.2	62.9	1	5.3		35.0	42.0	70	4	123 (37.5)
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