Technical Specifications

Geoflex Two Stage Dehumidification System
Model 038 - 410A - Top Discharge

Blower High Speed CFM & SP

ESP	0.3	0.5	.75	1.0
CFM	1,296	1,200	1,142	1,101

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

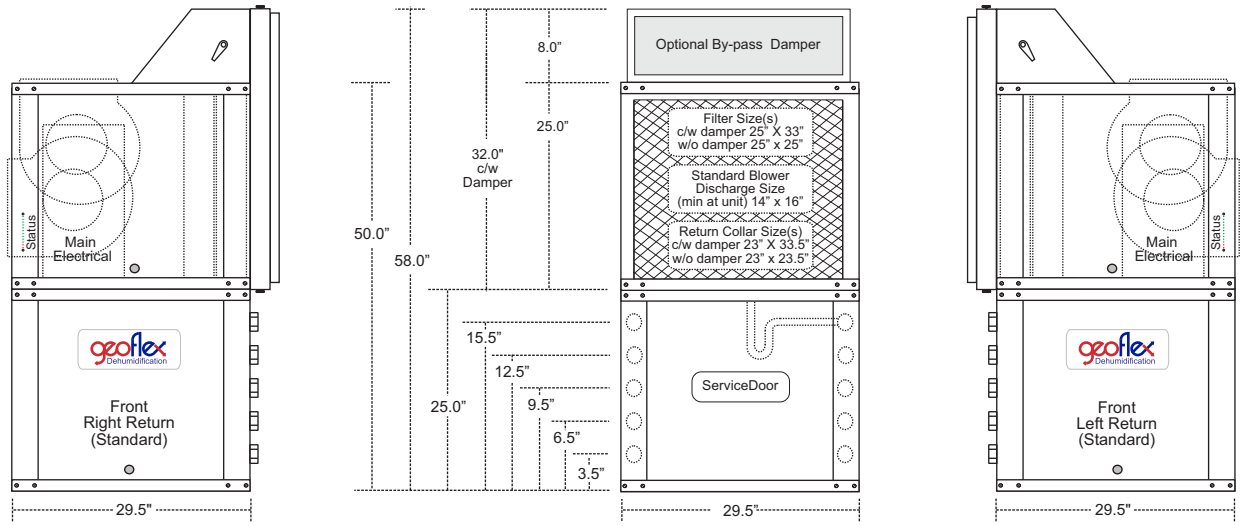
Model	Cabinet Types	Footprint		Height without Damper	Height c/w 8" Opening Damper
		Width	Depth		
038	Standard Vertical	29.5"	29.5"	46.5"	55.5"
038	* Larger Vertical	29.5"	44.3"	46.5"	55.5"
038	Standard Horizontal	29.5"	59.0"	26.5"	35.5"
038	** CompactHorizontal	29.5"	44.3"	26.5"	35.5"

* Larger cabinets are used to accommodate 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	3.6 lbs. (est)
Base Unit c/w Ext. DX Condenser	5.7 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	429 lbs. (est)
Ship Weight	459 lbs. (est)
Crated Weight	519 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
038	PSC	Full	80	9.7	20,542	31,050	37,935	10.7	20,236	32,221	39,103	12.8	19,933	33,360	40,239	1,200
	PSC	Part	80	6.8	14,481	21,847	26,658	7.5	14,244	22,657	27,478	9.0	14,009	23,443	28,274	1,000
	PSC	Full	82	10.3	20,367	31,022	38,085	12.4	19,613	31,634	38,688	13.5	19,024	32,370	39,417	1,200
	PSC	Part	82	7.3	14,333	21,815	26,769	8.7	13,747	22,208	27,187	9.5	13,287	22,692	27,691	1,000
	PSC	Full	84	12.6	19,588	30,281	37,520	15.1	18,926	30,971	38,202	16.5	18,280	31,601	38,824	1,200
	PSC	Part	84	8.9	13,712	21,251	26,372	10.6	13,196	21,699	26,842	11.6	12,690	22,101	27,265	1,000

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)
038	A	208-230/60/1	197/254	15.3	83.0	29.1	0.5	3.8		19.1	22.9	35	8	145 (44.2)
	C	208-230/60/3	197/254	11.6	73.0	-	0.5	2.8		14.4	17.3	30	10	145 (44.2)
	D	460/60/3	414/506	5.7	38.0	-	0.5	1.3		7.0	8.4	15	14	235 (71.7)
	E	575/60/3	518/633	5.7	38.0	-	0.5	1.0		6.7	8.0	15	14	305 (93.0)

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.

Geoflex Systems are QPS approved

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GF-DH-TS-TD-038-R410A-11-07-11

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Email: plant@geoflexsystems.com

Technical Specifications

Geoflex Two Stage Dehumidification System
Model 038 - 410A - Bottom Discharge

Blower High Speed CFM & SP

ESP	0.3	0.5	.75	1.0
CFM	1,296	1,200	1,142	1,101

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

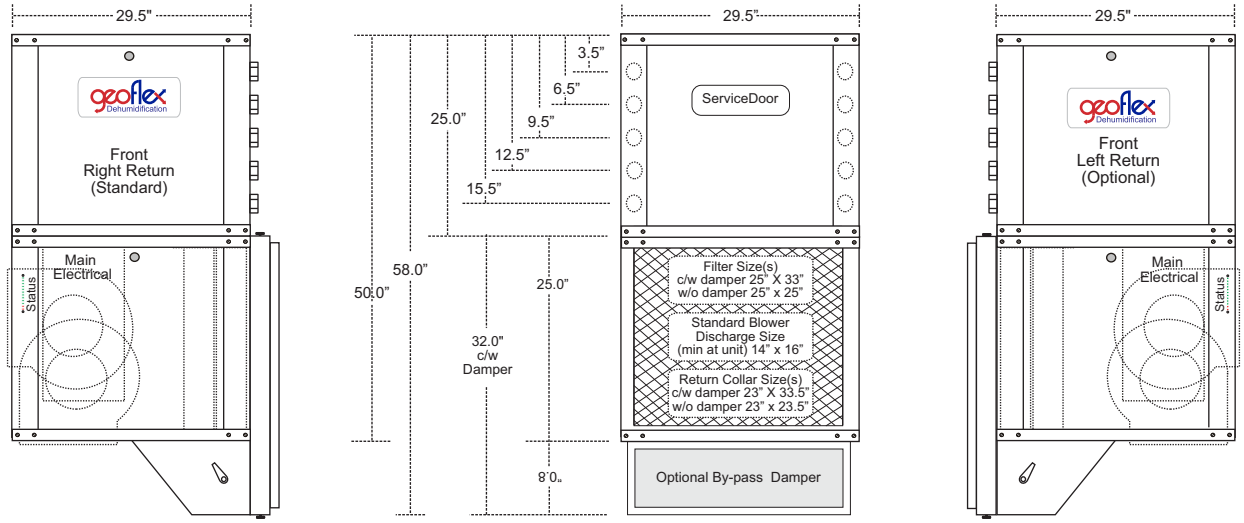
Model	Cabinet Types	Footprint		Height without Damper	Height c/w 8" Opening Damper
		Width	Depth		
038	Standard Vertical	29.5"	29.5"	46.5"	55.5"
038	* Larger Vertical	29.5"	44.3"	46.5"	55.5"
038	Standard Horizontal	29.5"	59.0"	26.5"	35.5"
038	** CompactHorizontal	29.5"	44.3"	26.5"	35.5"

* Larger cabinets are used to accommodate 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	3.6 lbs. (est)
Base Unit c/w Ext. DX Condenser	5.7 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	429 lbs. (est)
Ship Weight	459 lbs. (est)
Crated Weight	519 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
038	PSC	Full	80	9.7	20,542	31,050	37,935	10.7	20,236	32,221	39,103	12.8	19,933	33,360	40,239	1,200
	PSC	Part	80	6.8	14,481	21,847	26,658	7.5	14,244	22,657	27,478	9.0	14,009	23,443	28,274	1,000
	PSC	Full	82	10.3	20,367	31,022	38,085	12.4	19,613	31,634	38,688	13.5	19,024	32,370	39,417	1,200
	PSC	Part	82	7.3	14,333	21,815	26,769	8.7	13,747	22,208	27,187	9.5	13,287	22,692	27,691	1,000
	PSC	Full	84	12.6	19,588	30,281	37,520	15.1	18,926	30,971	38,202	16.5	18,280	31,601	38,824	1,200
	PSC	Part	84	8.9	13,712	21,251	26,372	10.6	13,196	21,699	26,842	11.6	12,690	22,101	27,265	1,000

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)
038	A	208-230/60/1	197/254	15.3	83.0	29.1	0.5	3.8		19.1	22.9	35	8	145 (44.2)
	C	208-230/60/3	197/254	11.6	73.0	-	0.5	2.8		14.4	17.3	30	10	145 (44.2)
	D	460/60/3	414/506	5.7	38.0	-	0.5	1.3		7.0	8.4	15	14	235 (71.7)
	E	575/60/3	518/633	5.7	38.0	-	0.5	1.0		6.7	8.0	15	14	305 (93.0)

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
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Technical Specifications

Geoflex Two Stage Dehumidification System
Model 038 - 410A - Horizontal

Blower High Speed CFM & SP

ESP	0.3	0.5	.75	1.0
CFM	1,296	1,200	1,142	1,101

Standard Pool Heat Recovery Option

Model	GPM	FOH	PSIG	MBH	EWT
DWV-1.0	2	2.1	0.9	12	80
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Description	Type
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Compressor	Scroll
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Base Weight	429 lbs. (est)
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Cabinet	A Seperator Plate is used between the Air and Refrigeration Section
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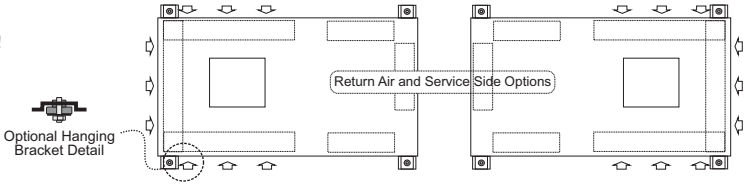
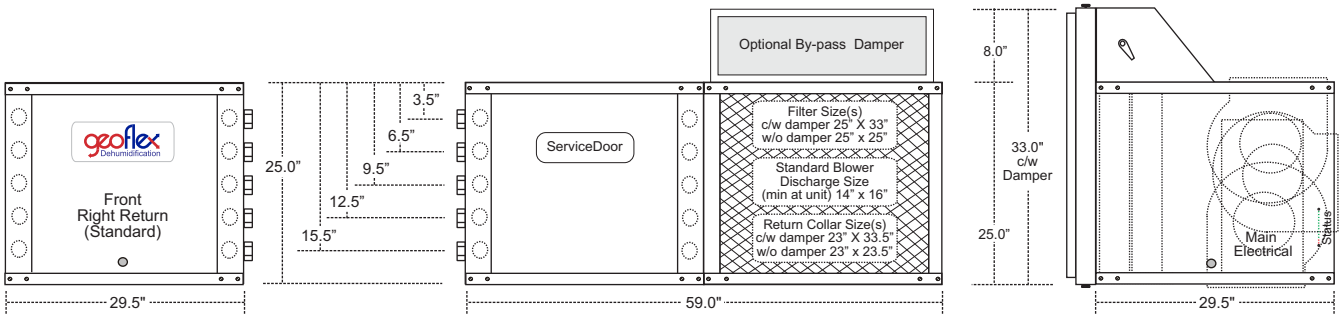
Condensate Sensor	Electronic Condensate Pan Overflow Sensor is included in all Dehumification Systems.
Condensate Line Position	Systems come with a condensation line that can be adapted to any corner of the system, in the field!
Evaporator Construction	All Evaporator Coils are Insulated to avoid Condensation Rusting
Feild Adaption	All Systems are designed to offer maximum field adaptability

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																
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				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														
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				RLA	LRA	LRA*							Min AWG 60°C	Max Ft (M)
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