

# Technical Specifications

## Geoflex Single Stage Dehumidification System

### Model 070 - 410A - Top Discharge

#### Blower High Speed CFM & SP

ESP	0.3	0.5	.75	1.0
CFM	2,350	2,200	2,135	1,975

#### 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

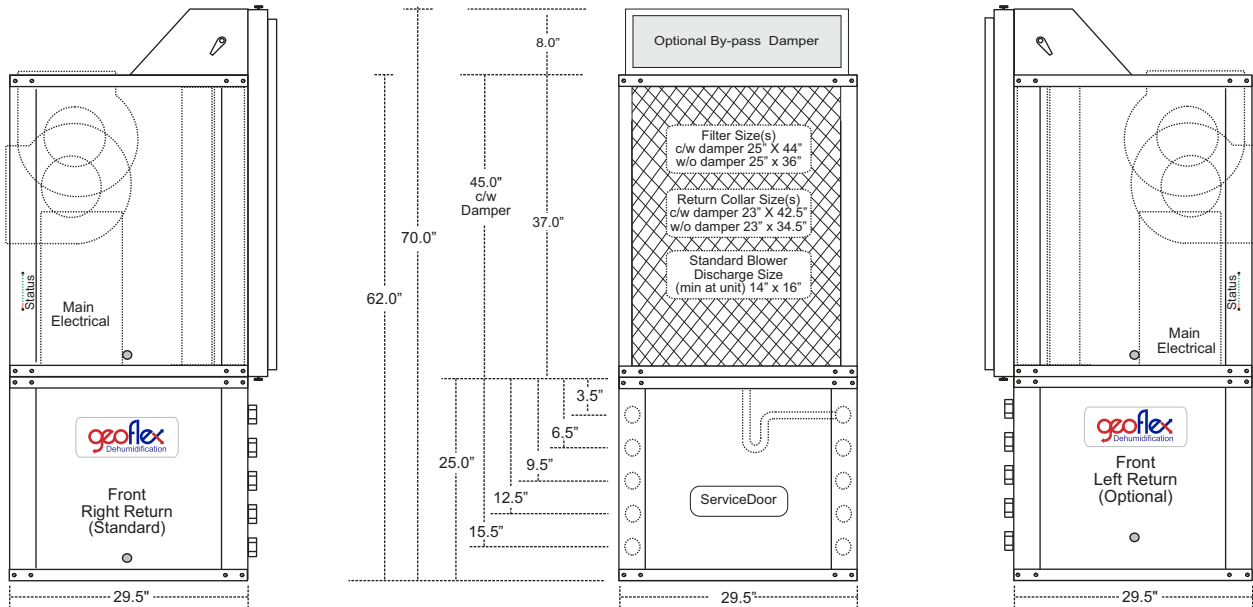
#### Available Cabinet Types

Model	Cabinet Types	Footprint		Height without Damper	Height c/w 8" Damper
		Width	Depth		
070	Standard Vertical	29.5"	29.5"	62.0"	70.0"
070	*Larger Vertical	29.5"	44.25"	62.0"	70.0"
070	Standard Horizontal	29.5"	59.0"	37.0"	45.0"
070	**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 Supersedes)	Min 10 F Superheat
Base Unit	6.7 lbs. (est)
Base Unit c/w Ext. DX Condenser	10.5 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	579 lbs. (est)
Ship Weight	609 lbs. (est)
Crated Weight	639 lbs. (est)

Standard Features	
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 Separator Plate is used between the Air and Refrigeration Section
Service & Maintenance	Service Doors Surround System
Refrigeration Section	An Internal Negative Pressure Port is incorporated to Reduce Heat or Condensation Build-up.
Service Switches	Two Low, One High Pressure switch Safety Controls, with Memory
Freon Service	Bi-flow Filter/Drier & Moisture Indicating Sight Glass
Condensate Sensor	Electronic Condensate Pan Overflow Sensor is included in all Dehumidification 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
Field Adaption	All Systems are designed to offer maximum field adaptability



#### 410A Single Step Dehumidification Performance Data

Model	Fan Motor Type	Spd	Air Temp °F	50% RH				55% RH				60% RH				Indoor Air Flow CFM
				Mositure Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	Mositure Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	Mositure Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	
070	PSC	Full	80	18.6	40,086	59,550	70,951	20.5	38,336	60,346	71,730	24.6	37,763	62,472	73,850	2,200
	PSC	Full	82	19.4	38,914	58,158	69,548	23.3	37,478	59,278	70,654	25.4	36,354	60,633	71,998	
	PSC	Full	84	23.7	37,763	56,792	68,171	28.4	36,493	58,050	69,417	28.4	36,493	58,050	70,547	

#### Single Step, 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	Max Ft (M)
70	A	208-230/60/1	197/254	28.3	178.0	62.5	1	5.3	33.6	40.4	70	4	97 (29.6)
	C	208-230/60/3	197/254	19.2	136.0		1	4.4	23.6	28.4	45	6	123 (37.5)
	D	460/60/3	414/506	8.7	66.1		1	2.0	10.7	12.9	20	12	205 (62.5)
	E	575/60/3	518/633	6.9	55.3		1	1.6	8.5	10.2	20	12	257 (78.4)

**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 & minimum circuit ampacity



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# Technical Specifications

## Geoflex Single Stage Dehumidification System

### Model 070 - 410A - Bottom Discharge

#### Blower High Speed CFM & SP

ESP	0.3	0.5	.75	1.0
CFM	2,350	2,200	2,135	1,975

#### 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

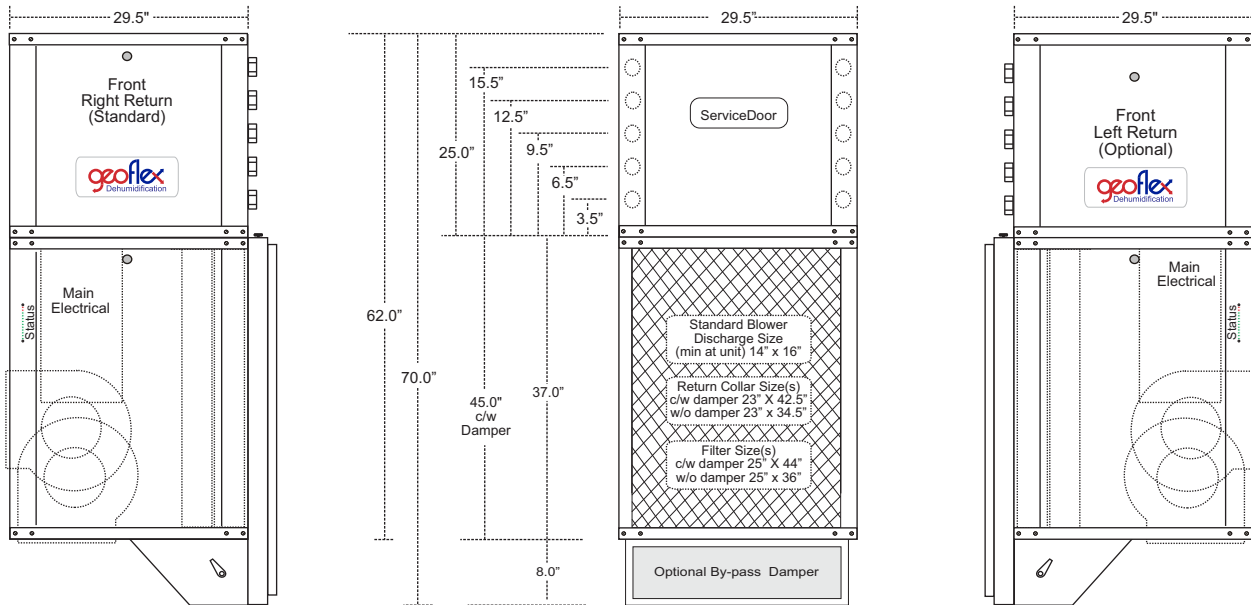
#### Available Cabinet Types

Model	Cabinet Types	Footprint		Height without Damper	Height c/w 8" Damper
		Width	Depth		
070	Standard Vertical	29.5"	29.5"	62.0"	70.0"
070	*Larger Vertical	29.5"	44.25"	62.0"	70.0"
070	Standard Horizontal	29.5"	59.0"	37.0"	45.0"
070	**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	6.7 lbs. (est)
Base Unit c/w Ext. DX Condenser	10.5 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	579 lbs. (est)
Ship Weight	609 lbs. (est)
Crated Weight	639 lbs. (est)

Standard Features	
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 Separator Plate is used between the Air and Refrigeration Section
Service & Maintenance	Service Doors Surround System
Refrigeration Section	An Internal Negative Pressure Port is incorporated to Reduce Heat or Condensation Build-up.
Service Switches	Two Low, One High Pressure switch Safety Controls, with Memory
Freon Service	Bi-flow Filter/Drier & Moisture Indicating Sight Glass
Condensate Sensor	Electronic Condensate Pan Overflow Sensor is included in all Dehumidification 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
Field Adaption	All Systems are designed to offer maximum field adaptability



410A Single Step Dehumidification Performance Data																
Model	Fan Motor Type	Spd	Air Temp °F	50% RH				55% RH				60% RH				Indoor Air Flow CFM
				Mositure Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	Mositure Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	Mositure Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Heat of Rejection Btuh	
070	PSC	Full	80	18.6	40,086	59,550	70,951	20.5	38,336	60,346	71,730	24.6	37,763	62,472	73,850	2,200
	PSC	Full	82	19.4	38,914	58,158	69,548	23.3	37,478	59,278	70,654	25.4	36,354	60,633	71,998	
	PSC	Full	84	23.7	37,763	56,792	68,171	28.4	36,493	58,050	69,417	28.4	36,493	58,050	70,547	

Single Step, 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	Max Ft (M)	
70	A	208-230/60/1	197/254	28.3	178.0	62.5	1	5.3	33.6	40.4	70	4	97 (29.6)	
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	D	460/60/3	414/506	8.7	66.1		1	2.0	10.7	12.9	20	12	205 (62.5)	
	E	575/60/3	518/633	6.9	55.3		1	1.6	8.5	10.2	20	12	257 (78.4)	

**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 & minimum circuit ampacity



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# Technical Specifications

## Geoflex Single Stage Dehumidification System

### Model 070 - 410A - Horizontal

#### Blower High Speed CFM & SP

ESP	0.3	0.5	.75	1.0
CFM	2,350	2,200	2,135	1,975

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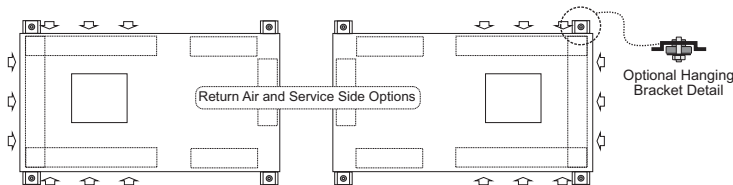
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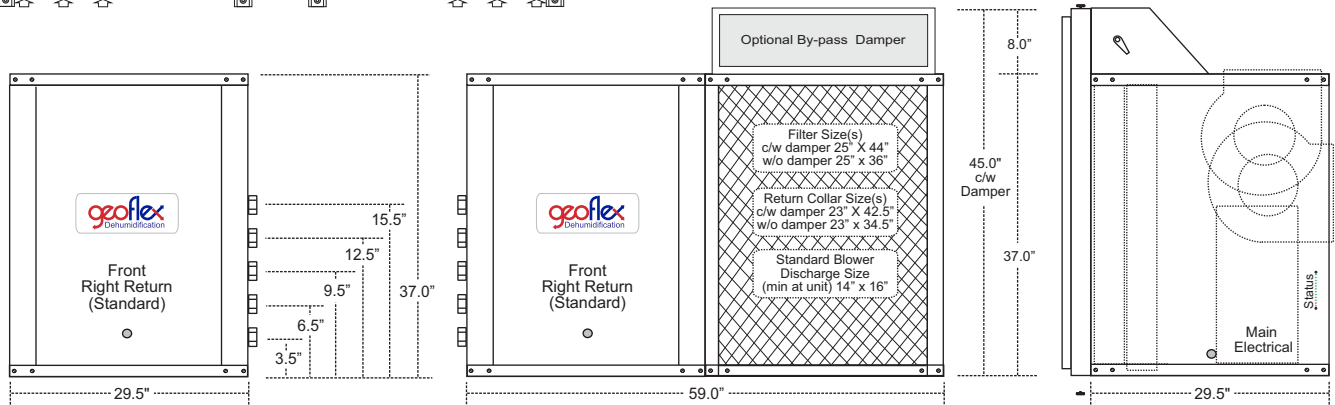
\* Larger cabinets are used to accommodate much higher than standard CFM  
 \*\* Units with some features, eg., the geothermal option, demand a larger footprint  
 NOTE: Weights and measures can vary, depending on selected configuration and options!

Elements	
Description	Type
Refrigerant	R410A
Refrigerant Charge (Superheat Supercooled)	Min 10 F Superheat
Base Unit	6.7 lbs. (est)
Base Unit c/w Ext. DX Condenser	10.5 lbs. (est)
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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.
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Cabinet	A Separator Plate is used between the Air and Refrigeration Section
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Condensate Sensor	Electronic Condensate Pan Overflow Sensor is included in all Dehumidification 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
Field 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.



410A Single Step Dehumidification Performance Data																
Model	Fan Motor Type	Spd	Air Temp °F	50% RH				55% RH				60% RH				Indoor Air Flow CFM
				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	
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