

# Technical Specifications

Geoflex Dehumidification System  
Model 030 - 410A - Horizontal

## Blower High Speed CFM & SP

ESP	0.3	0.5	.75	1.0
CFM	1,080	1,000	951	917

## 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

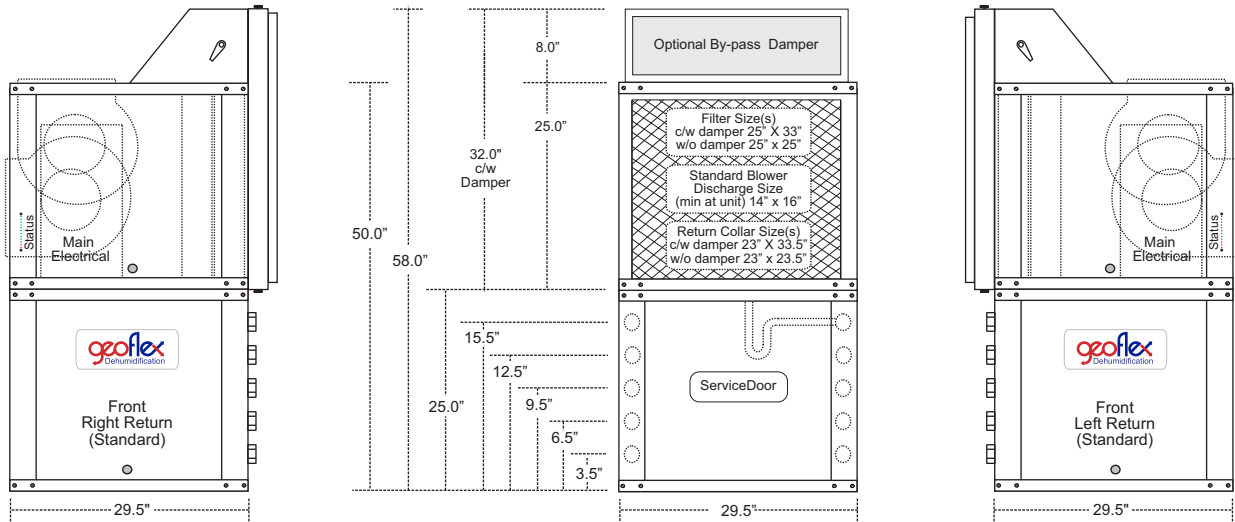
Model	Cabinet Types	Footprint		Height without Damper	Height c/w 8" Damper
		Width	Depth		
030	Standard Vertical	29.5"	29.5"	50.0"	58.0"
030	*Larger Vertical	29.5"	44.25"	50.0"	58.0"
030	Standard Horizontal	29.5"	59.0"	25.0"	33.0"
030	**Compact Horizontal	29.5"	44.25"	25.0"	33.0"

\* 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 Supercooled)	Min 10 F Superheat
Base Unit	2.9 lbs. (est)
Base Unit c/w Ext. DX Condenser	4.5 lbs. (est)
Internal 100% Air Reheat Condenser	DX (Direct Expansion)
Compressor	Scroll
Standard Blower	Direct Drive (PSC or ECM)
Air Coil Coating	Baked Acrylic 3 Stage Process
Condensate Pan	SuperGard Coated
Optional Pool Reheat Condenser	Co-axial (DWV, C/N)
Optional Water Condenser	Co-axial or Brazed Plate
Base Weight	395 lbs. (est)
Ship Weight	425 lbs. (est)
Crated Weight	485 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	RH 50%			RH 55%			RH 60%			Flow Indoor Air CFM
				Mositure Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Mositure Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Mositure Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	
030	PSC	Full	80	8.2	17,730	26,254	9.0	16,953	26,602	10.8	16,698	27,538	1,000
	PSC	Full	82	8.5	17,210	25,639	10.3	16,572	26,129	11.2	16,071	26,721	
	PSC	Full	84	10.4	16,698	25,035	12.5	16,133	25,584	13.7	15,579	26,080	

Single Step, 410A Electrical Data														
Model	Voltage Code	Voltage	Min/Max Voltage	Compressor			HWG Pump FLA	Ext/Int Loop Pump(s) FLA	Ext/Int Product Pump FLA	Total Unit FLA	Min Circuit Amps	Max Fuse/HACR	Supply Wire	
				RLA	LRA	LRA*							Min AWG	Max Ft (M)
30	A	208-230/60/1	197/254	12.8	64.0	22.5	0.41	0.9	0.9	15.0	18.0	30	12	88 (26.8)
	C	208-230/60/3	197/254	8.3	58.0					8.3	10.0	15	14	119 (36.3)
	D	460/60/3	414/506	5.1	28.0					5.1	6.2	10	14	238 (72.6)
	E	575/60/3	518/633	3.3	23.7					3.3	4.0	10	14	295 (90.0)

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 & minimum circuit ampacity



Geoflex Systems are CSA approved

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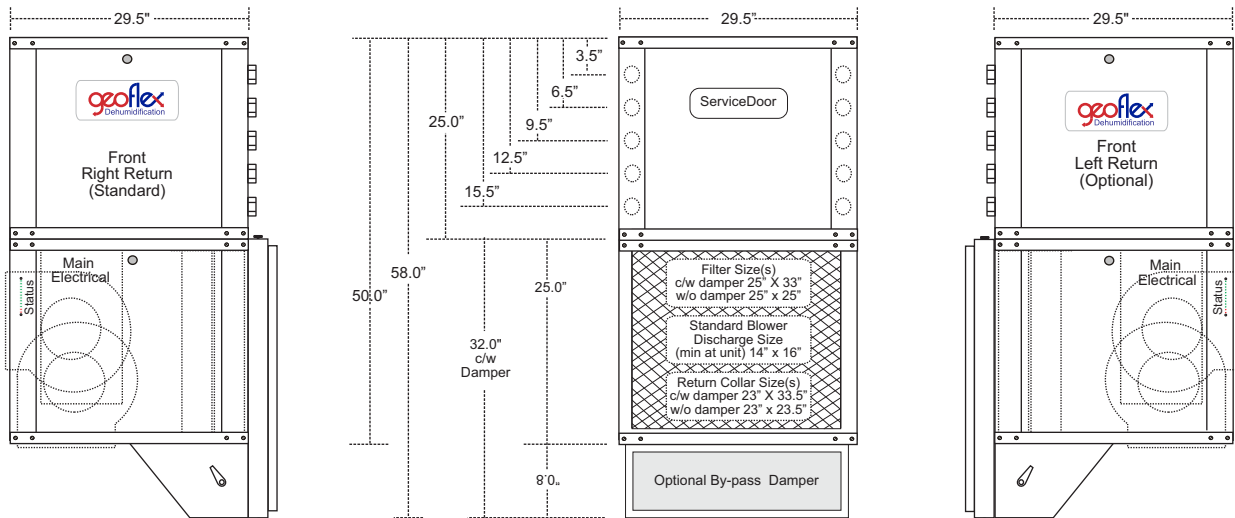
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Base Unit c/w Ext. DX Condenser	4.5 lbs. (est)
Internal 100% Air Reheat Condenser	DX (Direct Expansion)
Compressor	Scroll
Standard Blower	Direct Drive (PSC or ECM)
Air Coil Coating	Baked Acrylic 3 Stage Process
Condensate Pan	SuperGard Coated
Optional Pool Reheat Condenser	Co-axial (DWV, C/N)
Optional Water Condenser	Co-axial or Brazed Plate
Base Weight	395 lbs. (est)
Ship Weight	425 lbs. (est)
Crated Weight	485 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
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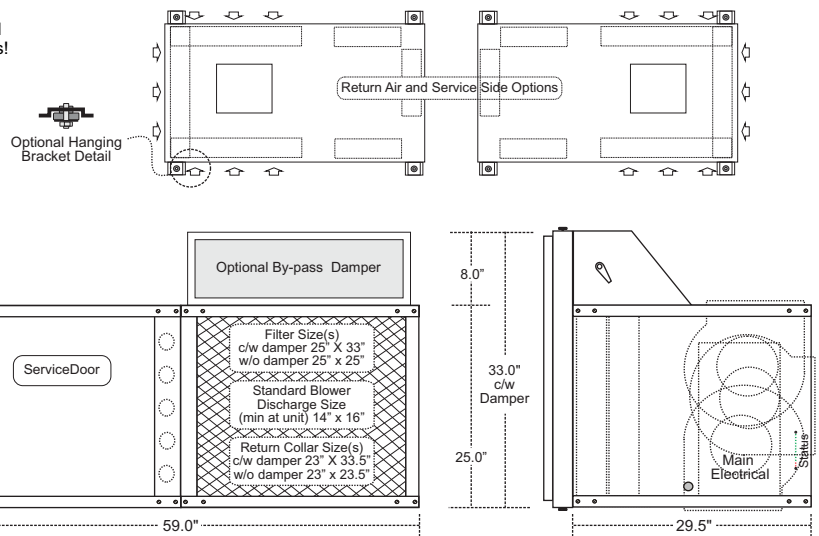
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NOTE: Weights and measures can vary, depending on selected configuration and options!

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.

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Base Unit	2.9 lbs. (est)
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