

# Technical Specifications

Geoflex Dehumidification System  
Model 036 - 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	EWI
DWV-1.0	2	2.1	0.9	12	80
DWV-1.5	3	5.3	2.3	18	80

## Available Cabinet Types

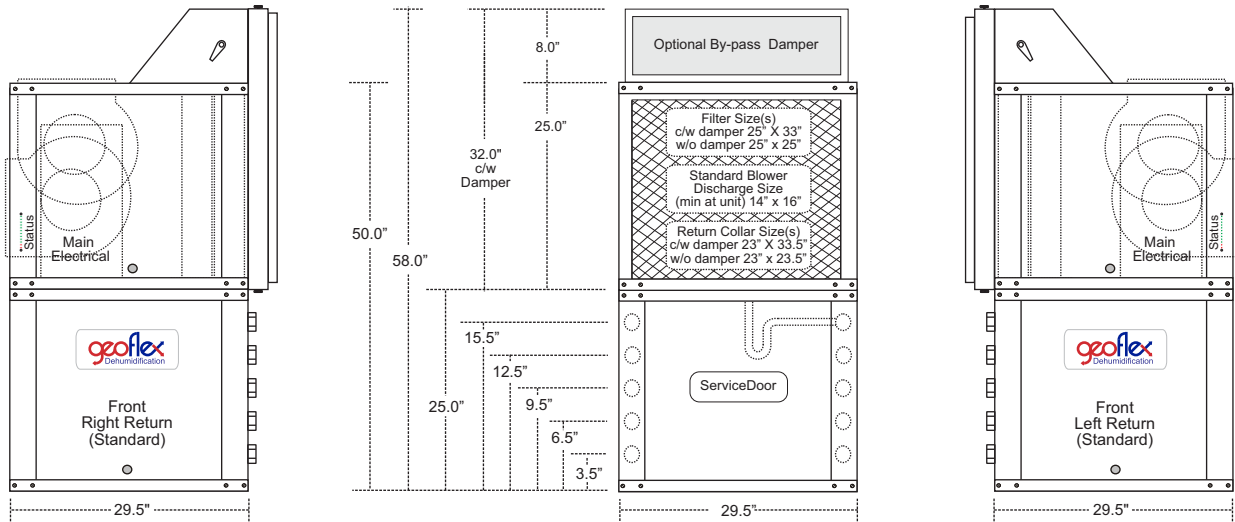
Model	Cabinet Types	Footprint		Height without Damper	Height c/w 8" Damper
		Width	Depth		
036	Standard Vertical	29.5"	29.5"	50.0"	58.0"
036	*Larger Vertical	29.5"	44.25"	50.0"	58.0"
036	Standard Horizontal	29.5"	59.0"	25.0"	33.0"
036	**Compact Horizontal	29.5"	44.25"	25.0"	33.0"

\* 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	3.5 lbs. (est)
Base Unit c/w Ext. DX Condenser	5.4 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	413 lbs. (est)
Ship Weight	443 lbs. (est)
Crated Weight	503 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	
036	PSC	Full	80	8.6	18,585	27,450	9.4	17,771	27,822	11.3	17,505	28,804	1,200
	PSC	Full	82	8.9	18,040	26,812	10.7	17,373	27,332	11.7	16,850	27,960	
	PSC	Full	84	10.9	17,505	26,185	13.1	16,915	26,769	14.3	16,336	27,299	

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)		
36	A	208-230/60/1	197/254	14.1	73.0	25.6	.5	3.8	18.4	22.1	30	12	77	(23.5)	
	C	208-230/60/3	197/254	8.9	58.0		.5	2.8	12.2	14.7	20	14	70	(21.4)	
	D	460/60/3	414/506	4.2	28.0		.5	1.3	6.0	7.2	10	14	469	(143.0)	
	E	575/60/3	518/633	3.5	24.0		.5	1.0	5.0	6.0	10	14	700	(213.5)	

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 Dehumidification System  
Model 036 - 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

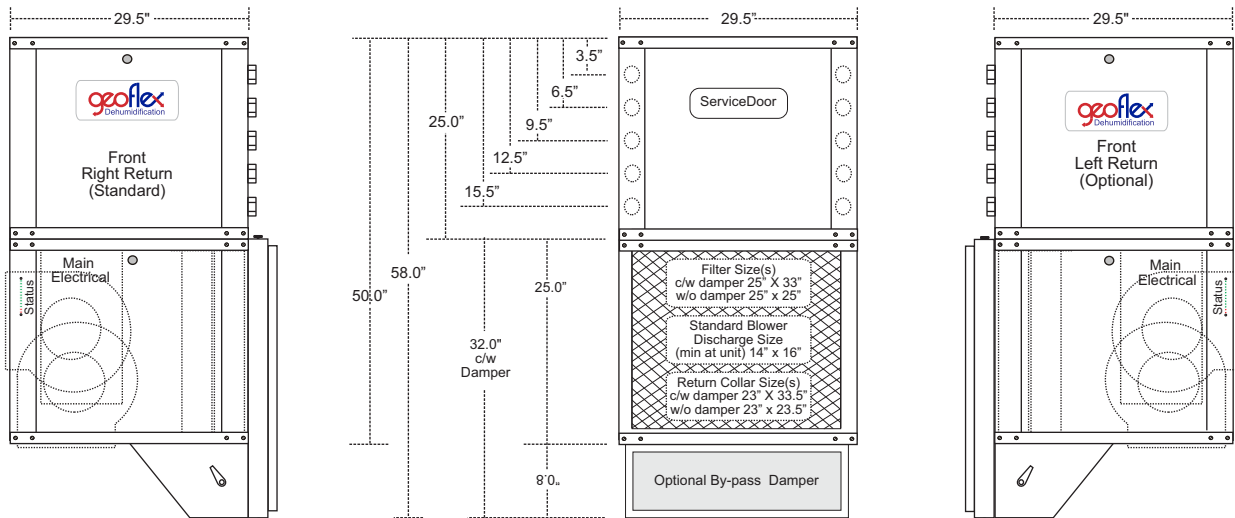
Model	Cabinet Types	Footprint		Height without Damper	Height c/w 8" Damper
		Width	Depth		
036	Standard Vertical	29.5"	29.5"	50.0"	58.0"
036	*Larger Vertical	29.5"	44.25"	50.0"	58.0"
036	Standard Horizontal	29.5"	59.0"	25.0"	33.0"
036	**Compact Horizontal	29.5"	44.25"	25.0"	33.0"

\* 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	3.5 lbs. (est)
Base Unit c/w Ext. DX Condenser	5.4 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	413 lbs. (est)
Ship Weight	443 lbs. (est)
Crated Weight	503 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 Rem oval lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Mositure Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	
036	PSC	Full	80	8.6	18,585	27,450	9.4	17,771	27,822	11.3	17,505	28,804	1,200
	PSC	Full	82	8.9	18,040	26,812	10.7	17,373	27,332	11.7	16,850	27,960	
	PSC	Full	84	10.9	17,505	26,185	13.1	16,915	26,769	14.3	16,336	27,299	

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)	
36	A	208-230/60/1	197/254	14.1	73.0	25.6	.5	3.8	18.4	22.1	30	12	77	(23.5)
	C	208-230/60/3	197/254	8.9	58.0		.5	2.8	12.2	14.7	20	14	70	(21.4)
	D	460/60/3	414/506	4.2	28.0		.5	1.3	6.0	7.2	10	14	469	(143.0)
	E	575/60/3	518/633	3.5	24.0		.5	1.0	5.0	6.0	10	14	700	(213.5)

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 Dehumidification System  
Model 036 - 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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## Available Cabinet Types

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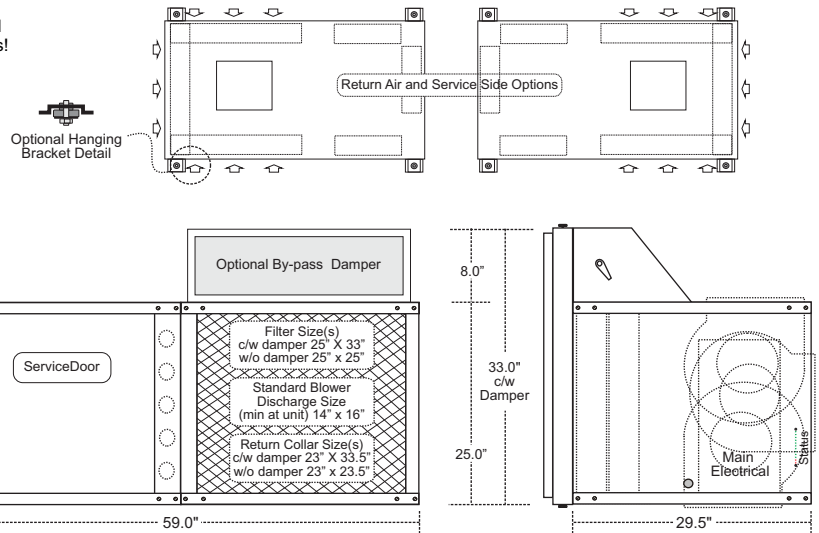
\* Larger cabinets are used to accommodate much higher than standard CFM  
\*\* Units with some features, eg., the geothermal option, demand a larger footprint

NOTE: Weights and measures can vary, depending on selected configuration and options!

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.

Elements	
Description	Type
Refrigerant	R410A
Refrigerant Charge (Superheat Supercooled)	Min 10 F Superheat
Base Unit	3.5 lbs. (est)
Base Unit c/w Ext. DX Condenser	5.4 lbs. (est)
Internal 100% Air Reheat Condenser	DX (Direct Expansion)
Compressor	Scroll
Standard Blower	Direct Drive (PSC or ECM)
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Optional Pool Reheat Condenser	Co-axial (DWV, C/N)
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Base Weight	413 lbs. (est)
Ship Weight	443 lbs. (est)
Crated Weight	503 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
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