

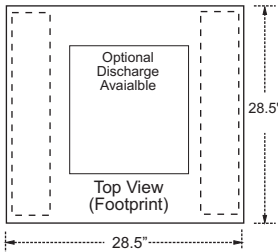
Technical Specifications

Geoflex Dehumidification System
Model 048 - 410A - Top Discharge

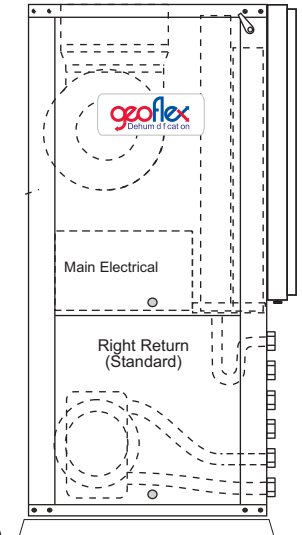
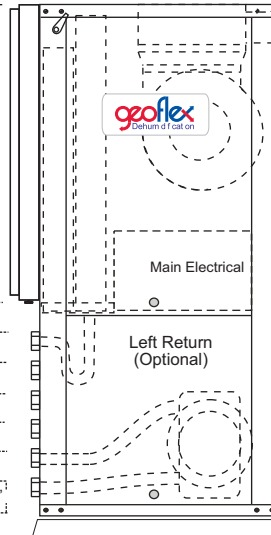
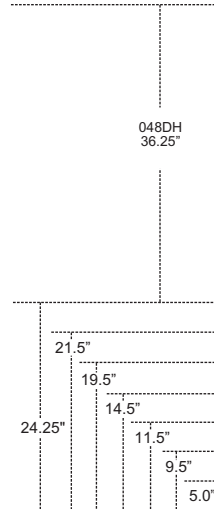
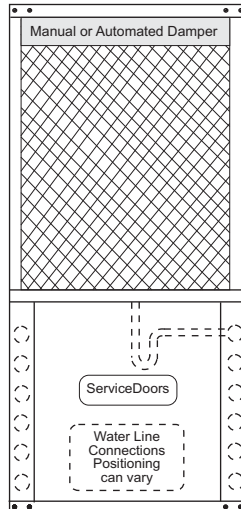
Available Options
Straight Thru, Top or Bottom Air Discharge
Pumps can be Built-in, pre-wired, pre-fused & pre-controlled
Partial Hot Water(s) c/w Internal Pump & High Limit Switch
Demand Hot Water(s) c/w Internal Pump, if required
10, 15, 20K Back-up/emergency heater available
Web Based Monitoring System
Flexible Orientation, air discharge, water connections
Diagnostic LED Function Light Array
K-Type ThermoProbes for simpler in field diagnostics
External DX Condensor
100% Internal Water Condensor
Proportional or 100% Water Reheat Systems
Cupronickel and Double Wall Vented Coils for specialized apps.

Elements	
Description	Type
Refrigerant	R410A
Base Unit Refrigerant Charge	10° F Superheat on Base Unit
Compressor	Scroll
Blower	Direct Drive
Air Coil Coating	Baked Acrylic Process
Condensate Pan	Anti-Corrosion Coated
Internal Air Reheat Condensor	DX
Optional Pool Reheat Condensor	Co-axial
Optional Water Condensor	Co-Axial
Base Unit Weight	
Base Unit Shipping Weight	

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	Independant, Low & High Pressure & Low Flow c/w HP & LP Memory
Freon Service	Bi-flow Filter/Drier & Moisture Indicating Sight Glass
Evaporator Construction	All Evaporator Coils are Insulated to avoid Condensation Rusting
Field Adaption	Designed to maximize field adaptability Field Positionable Condensate Line



- Geoflex Advanced Dehumidification Systems
- Are designed within a modularized format to offer optimal configuration capabilities with consideration to efficiency, functionality, service & field adaption opportunities.
 - Can be ordered in virtually any configuration, vertical, horizontal, top, bottom or straight thru discharge, etc.
 - Can be ordered/ designed to exact project retrofit or new design match with a myriad of options.



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	
048	PSC	Full	80	13.1	28,308	41,979	14.4	27,123	42,601	17.3	26,735	44,123	1,600
	PSC	Full	82	13.7	27,515	41,037	16.4	26,542	41,877	17.9	25,779	42,874	
	PSC	Full	84	16.7	26,735	40,112	20.1	25,874	41,044	21.9	25,029	41,894	

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)		
48	A	208-230/60/1	197/254	19.9	109.0	38.2	.75	4.6	25.2	30.3	40	10	95	(29.0)	
	C	208-230/60/3	197/254	13.1	83.1		.75	3.0	16.9	20.3	25	14	75	(22.9)	
	D	460/60/3	414/506	6.1	41.0		.75	1.5	8.3	10.0	15	14	324	(98.8)	
	E	575/60/3	518/633	4.4	33.0		.75	1.3	6.4	7.6	10	14	560	(170.8)	

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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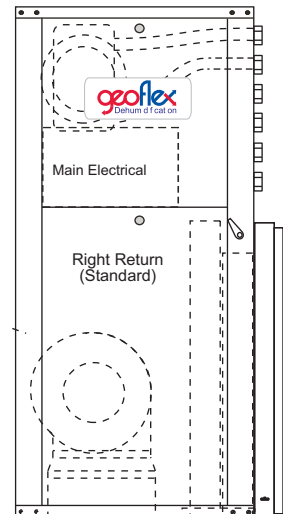
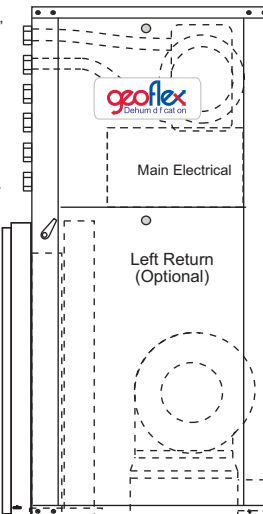
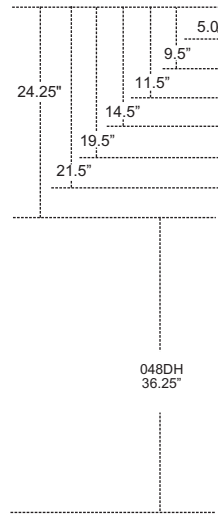
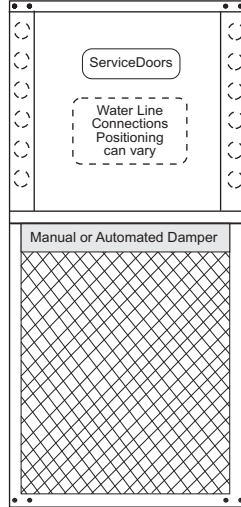
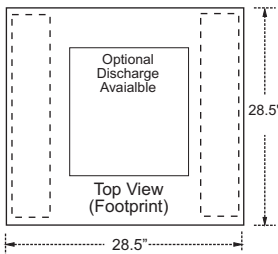
Technical Specifications

Geoflex Dehumidification System
Model 048 - 410A - Bottom Discharge

Available Options
Straight Thru, Top or Bottom Air Discharge
Pumps can be Built-in, pre-wired, pre-fused & pre-controlled
Partial Hot Water(s) c/w Internal Pump & High Limit Switch
Demand Hot Water(s) c/w Internal Pump, if required
10, 15, 20K Back-up/emergency heater available
Web Based Monitoring System
Flexible Orientation, air discharge, water connections
Diagnostic LED Function Light Array
K-Type ThermoProbes for simpler in field diagnostics
External DX Condensor
100% Internal Water Condensor
Proportional or 100% Water Reheat Systems
Cupronickel and Double Wall Vented Coils for specialized apps.

Elements	
Description	Type
Refrigerant	R410A
Base Unit Refrigerant Charge	10° F Superheat on Base Unit
Compressor	Scroll
Blower	Direct Drive
Air Coil Coating	Baked Acrylic Process
Condensate Pan	Anti-Corrosion Coated
Internal Air Reheat Condensor	DX
Optional Pool Reheat Condensor	Co-axial
Optional Water Condensor	Co-Axial
Base Unit Weight	
Base Unit Shipping Weight	

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	Independant, Low & High Pressure & Low Flow c/w HP & LP Memory
Freon Service	Bi-flow Filter/Drier & Moisture Indicating Sight Glass
Evaporator Construction	All Evaporator Coils are Insulated to avoid Condensation Rusting
Field Adaption	Designed to maximize field adaptability Field Positionable Condensate Line



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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	
048	PSC	Full	80	13.1	28,308	41,979	14.4	27,123	42,601	17.3	26,735	44,123	1,600
	PSC	Full	82	13.7	27,515	41,037	16.4	26,542	41,877	17.9	25,779	42,874	
	PSC	Full	84	16.7	26,735	40,112	20.1	25,874	41,044	21.9	25,029	41,894	

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)	
48	A	208-230/60/1	197/254	19.9	109.0	38.2	.75	4.6	25.2	30.3	40	10	95	(29.0)
	C	208-230/60/3	197/254	13.1	83.1		.75	3.0	16.9	20.3	25	14	75	(22.9)
	D	460/60/3	414/506	6.1	41.0		.75	1.5	8.3	10.0	15	14	324	(98.8)
	E	575/60/3	518/633	4.4	33.0		.75	1.3	6.4	7.6	10	14	560	(170.8)

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 048 - 410A - Horizontal

Available Options
Straight Thru, Top or Bottom Air Discharge
Pumps can be Built-in, pre-wired, pre-fused & pre-controlled
Partial Hot Water(s) c/w Internal Pump & High Limit Switch
Demand Hot Water(s) c/w Internal Pump, if required
10, 15, 20K Back-up/emergency heater available
Web Based Monitoring System
Flexible Orientation, air discharge, water connections
Diagnostic LED Function Light Array
K-Type ThermoProbes for simpler in field diagnostics
External DX Condensor
100% Internal Water Condensor
Proportional or 100% Water Reheat Systems
Cupronickel and Double Wall Vented Coils for specialized apps.

Elements	
Description	Type
Refrigerant	R410A
Base Unit Refrigerant Charge	10° F Superheat on Base Unit
Compressor	Scroll
Blower	Direct Drive
Air Coil Coating	Baked Acrylic Process
Condensate Pan	Anti-Corrosion Coated
Internal Air Reheat Condensor	DX
Optional Pool Reheat Condensor	Co-axial
Optional Water Condensor	Co-Axial
Base Unit Weight	
Base Unit Shipping Weight	

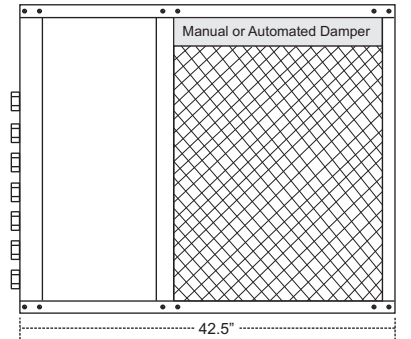
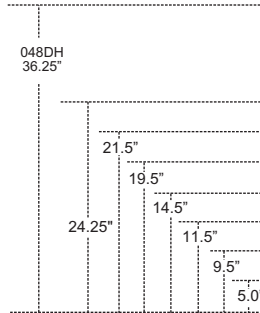
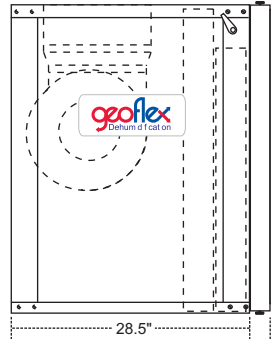
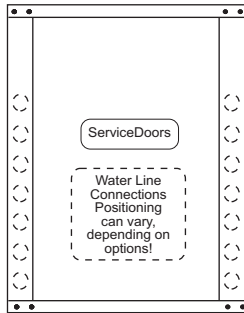
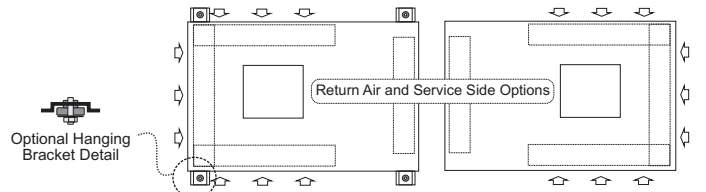
Standard Features	
Internal Piping	All Internal Refrigeration Piping is Insulated to Reduce Noise and Potential Pipe Degradation
Air Coils	Air Coils and internal components are coated and baked with an Acrylic Coating
Low Noise Package	1" acoustical insulation & all internal refrigeration lines are fully 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	Independant, Low & High Pressure & Low Flow c/w HP & LP Memory
Freon Service	Bi-flow Filter/Drier & Moisture Indicating Sight Glass
Evaporator Construction	All Evaporator Coils are Insulated to avoid Condensation Rusting
Field Adaption	Designed to maximize field adaptability Field Positionable Condensate Line

Geoflex Advanced Dehumidification Systems

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Notes:

- A 6" Space must be left under the system to allow for a condensate drain trap.
- Much consideration must be given to noise, as horizontal units are commonly hung above drop ceilings in office spaces
- Back-up/Emergency Plenum Heaters can be built in with top and bottom discharge, all other discharge options would be built on.



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	
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Single Step, 410A Electrical Data														
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HACR circuit breaker in USA only All fuses Class RK-5

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Wire size based on 60°C copper conductor & minimum circuit ampacity



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