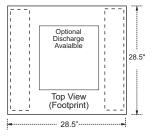
Technical Specifications
Geoflex Two Stage Dehumidification System
Model 049 - 410A - Top Discharge

Available Options								
Straight Thru Air Discharge, Bottom 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.								

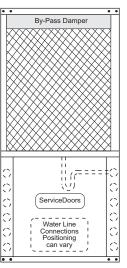
Eleme	ents
Description	Туре
Refrigerant	R410A
Base Unit Refrigreant Charge	10° F Superheat on Base Unit
Compressor	Scroll
Blower	Direct Drive
Air Coil Coating	Baked Acrylic Process
Condensate Pan	SuperGaurd Coated
Internal Air Reheat Condensor	DX
Optional Pool Reheat Condensor	Co-axial
Optional Water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

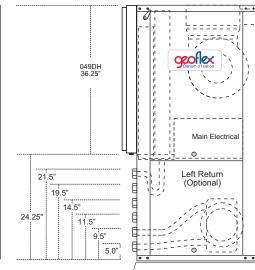
	Standard Two Stage Features							
Highest Two Stage systems automatically adjust capacity b on occupied and unoccupied loads, offerring highes operating efficie ncy								
Internal Piping All Internal Refrigeration Piping is Insulated to Reduce								
Air Coils	Air Coils and internal components are 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							
R efrigeration 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							
C ondensate Sensor	Electronic Condensate Pan Overflow Sensor is included in all Dehumification Systems.							
Condensate Line Position Systems come with a condensation line that can 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 fie adapta bility								

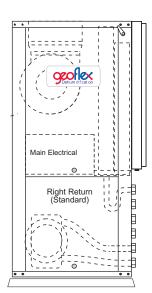


Geoflex Advanced, Two Step Dehumidification Systems

- 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.







	Two Step Dehumidification Performance Data													
	F.o.n		Air		50% RH			55% RH			60% RH	Flow		
Model	Fan Motor Type	Spd	Temp °F	Mositure Removal Ibs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Mositure Removal Ibs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Mositure Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Indoor Air CFM	Damper * Added CFM
	PSC	Full	80	13.3	28,309	42,517	14.6	27,079	44,634	17.5	26,676	44,634		
	PSC	Part	80	9.5	20,285	30,335	10.4	19,293	30,674	12.5	18,968	31,731		
049	PSC	Full	82	13.8	27,485	41,538	16.6	26,476	42,356	18.1	25,685	43,338	1.470	2,058
049	PSC	Part	82	9.9	19,620	29,584	11.8	18,807	30,097	12.9	18,170	30,738	1,470	2,000
	PSC	Full	84	16.9	26,676	40,577	20.3	25,783	41,491	22.1	24,907	42,321		
	PSC	Part	84	12.0	18.968	28.847	14.4	18.249	29.435	15.7	17.546	29.960		

l		Single Step, 410A Electrical Data													
ſ					C	Compressor					Total	Min	Max	Supply Wire	
ı	Model	Voltage Code	Voltage	Min/Max Voltage					Blower Blower Hp FLA		Unit	Circuit	Fuse/ HACR	Min AWG	Max Ft (M)
l					RLA	LRA	LRA*				FLA	Amps		60°C	
		А	208-230/60/1	197/254	21.2	104.0	36.5	0.75	4.6		25.8	30.9	50	8	106 (32.3)
ı	049	С	208-230/60/3	197/254	14.0	83.1	-	0.75	3.0		17.0	20.4	35	8	187 (57.0)
ı	049	D	460/60/3	414/506	6.4	41.0	-	0.75	1.5		7.9	9.5	15	14	208 (63.4)
		Е	575/60/3	518/633	6.4	41.0	-	0.75	1.3		7.7	9.2	15	14	268 (81.7)

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.



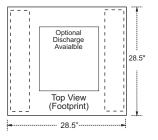
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## Technical Specifications Geoflex Two Stage Dehumidification System Model 049 - 410A - Bottom Discharge

Available Options								
Straight Thru Air Discharge, Bottom 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.								

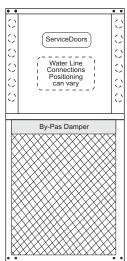
Eleme	ents
Description	Туре
Refrigerant	R410A
Base Unit Refrigreant Charge	10° F Superheat on Base Unit
Compressor	Scroll
Blower	Direct Drive
Air Coil Coating	Baked Acrylic Process
Condensate Pan	SuperGaurd Coated
Internal Air Reheat Condensor	DX
Optional Pool Reheat Condensor	Co-axial
Optional Water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

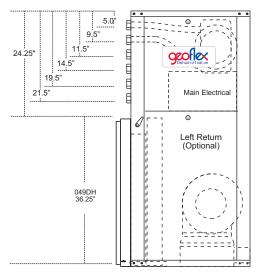
Standard Two Stage Features								
H igh est E fficie ncy	Two Stage systems automatically adjust capacity based on occupied and unoccupied loads, offerring highest operating efficiency							
Internal Piping All Internal Refrigeration Piping is Insulated to Reduction Noise and Potential Pipe Degradation								
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							
C on densate Sensor	Electronic Condensate Pan Overflow Sensor is included in all Dehum ification Systems.							
C on densate 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							

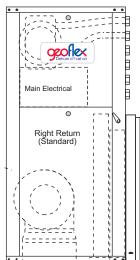


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- Can be ordered/designed to exact project retrofit or new design match with a myriad of options.







	Two Step Dehumidification Performance Data													
	F.o.n		Air		50% RH			55% RH			60% RH	Flow		
Model	Fan Motor Type	Spd	Temp °F	Mositure Removal Ibs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Mositure Removal Ibs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Mositure Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Indoor Air CFM	Damper * Added CFM
	PSC	Full	80	13.3	28,309	42,517	14.6	27,079	44,634	17.5	26,676	44,634		ľ
	PSC	Part	80	9.5	20,285	30,335	10.4	19,293	30,674	12.5	18,968	31,731		
049	PSC	Full	82	13.8	27,485	41,538	16.6	26,476	42,356	18.1	25,685	43,338	1.470	2,058
049	PSC	Part	82	9.9	19,620	29,584	11.8	18,807	30,097	12.9	18,170	30,738	1,470	2,056
	PSC	Full	84	16.9	26,676	40,577	20.3	25,783	41,491	22.1	24,907	42,321		
	PSC	Part	84	12.0	18,968	28,847	14.4	18,249	29,435	15.7	17,546	29,960		

l		Single Step, 410A Electrical Data													
ſ					C	Compressor					Total	Min	Max	Supply Wire	
ı	Model	Voltage Code	Voltage	Min/Max Voltage					Blower Blower Hp FLA		Unit	Circuit	Fuse/ HACR	Min AWG	Max Ft (M)
l					RLA	LRA	LRA*				FLA	Amps		60°C	
		А	208-230/60/1	197/254	21.2	104.0	36.5	0.75	4.6		25.8	30.9	50	8	106 (32.3)
ı	049	С	208-230/60/3	197/254	14.0	83.1	-	0.75	3.0		17.0	20.4	35	8	187 (57.0)
ı	049	D	460/60/3	414/506	6.4	41.0	-	0.75	1.5		7.9	9.5	15	14	208 (63.4)
		Е	575/60/3	518/633	6.4	41.0	-	0.75	1.3		7.7	9.2	15	14	268 (81.7)

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.



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Technical Specifications
Geoflex Two Stage Dehumidification System
Model 049 - 410A - Horizontal

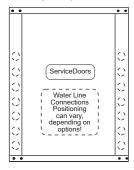
Available Options
Straight Thru Air Discharge, Bottom Discharge
Pumps can be Built-in, pre-wired, pre-fused & pre-controlled
Partial Hot Water(s) c/w Internal Pump & High Limit Switch
Demand Hot Water(s) c/w Internal Pump, if required
10, 15, 20K Back-up/emergency heater available
Web Based Monitoring 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.

Eleme	ents
Description	Туре
Refrigerant	R410A
Base Unit Refrigreant Charge	10° F Superheat on Base Unit
Compressor	Scroll
Blower	Direct Drive
Air Coil Coating	Baked Acrylic Process
Condensate Pan	SuperGaurd 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 Two Stage Features								
H igh est E fficie ncy	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							
R efrigeration 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							
C ondensate 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							
Feild Adaption	All Systems are designed to offer maximum field adaptability							

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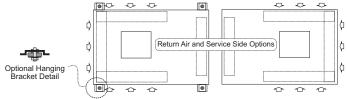
## Notes

- Notes:

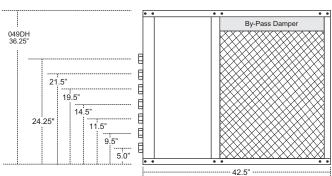
   A 6" Space must be left under the system to allow for a condensate drain trap.

   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.







	Two Step Dehumidification Performance Data													
Model	Fan Motor Type	Spd	Air Temp °F	50% RH			55% RH			60% RH			Flow	
				Mositure Removal Ibs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Mositure Removal Ibs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Mositure Removal lbs/hr	Sensible Cooling Btuh	Total Capacity Btuh	Indoor Air CFM	Damper * Added CFM
	PSC	Full	80	13.3	28,309	42,517	14.6	27,079	44,634	17.5	26,676	44,634	1,470	
	PSC	Part	80	9.5	20,285	30,335	10.4	19,293	30,674	12.5	18,968	31,731		
049	PSC	Full	82	13.8	27,485	41,538	16.6	26,476	42,356	18.1	25,685	43,338		2,058
049	PSC	Part	82	9.9	19,620	29,584	11.8	18,807	30,097	12.9	18,170	30,738		2,050
	PSC	Full	84	16.9	26,676	40,577	20.3	25,783	41,491	22.1	24,907	42,321		
	PSC	Part	84	12.0	18,968	28,847	14.4	18,249	29,435	15.7	17,546	29,960		

	Single Step, 410A Electrical Data														
M			' Voltage I	Min/Max Voltage	Compressor						T otal	Min	Max	Supply Wire	
	Model	Voltage Code					Blower				Unit	Circuit	Fuse/	Min AWG	Max Ft (M)
					RLA	LRA	LRA*	,			FLA	Amps	HACR	60°C	(,
		А	208-230/60/1	197/254	21.2	104.0	36.5	0.75	4.6		25.8	30.9	50	8	106 (32.3)
(	049	С	208-230/60/3	197/254	14.0	83.1	•	0.75	3.0		17.0	20.4	35	8	187 (57.0)
	049	D	460/60/3	414/506	6.4	41.0	-	0.75	1.5		7.9	9.5	15	14	208 (63.4)
		Е	575/60/3	518/633	6.4	41.0	-	0.75	1.3		7.7	9.2	15	14	268 (81.7)

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.



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