Technical Specifications Geoflex Two Stage Dehumidification System Model 064 - 410A - Top Discharge

Blower High Speed CFM & SP

ESP	0.3	0.5	.75	1.0
CFM	2,160	2,000	1,903	1,835

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

Main Electrical

geoflex

Front Right Return (Standard)

0 29.5"

		Foot	print	Height	Height
Model	Cabinet Types	Width	Depth	without Damper	c/w 8" Damper
064	Standard Vertical	29.5"	29.5"	58.0"	66.0"
064	*Larger Vertical	29.5"	44.25"	58.0"	66.0"
064	Standard Horizontal	29.5"	59.0"	33.0"	41.0"
064	**Compact Horizontal	29.5"	44.25"	33.0"	41.0"

64 **Compact Horizontal	29.5"	44.25"	33.0"	41.0"			
reger cabinets are used to accommodate much higher than standard CFM							

þ

þ

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

Ø

Elements				
Description	Туре			
Refrigerant	R410A			
Refrigerant Charge (Superheat Supercedes)	Min 10 F Superheat			
Base Unit	6.1 lbs. (est)			
Base Unit c/w Ext. DX Condenser	9.6 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	494 lbs. (est)			
Ship Weight	524 lbs. (est)			
Crated Weight	584 lbs. (est)			

	Standard Two Stage Features
Highest Efficiency	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
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
Condensate 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 Condensation Rusting
Feild Adaption	All Systems are designed to offer maximum field adaptability

Optional By-pass Damper 8.0' Filter Size(s) c/w damper 25" X 40" w/o damper 25" x 32" XXXXXXXXX 33.0" Return Collar Size(s) w damper 23" X 38.5" v/o damper 23" x 30.5" Standard Blower Discharge Size (min at unit) 14" x 16" 3.5" 6.5" 9.5" ServiceDoor 29.5"

41.0" c/w Damper

25.0"

12.5"

15.5"

66.0"

58.0"



Two Step Dehumidification Performance Data																						
	Бал		۸:			50%	6 RH					55%	RH					60	% R⊦	ł		Flow
Madal	Fan	Con	AIr	Mosit	ure Se	ensible	Total	Heat	of Mo	siture	Sen	sible	Total	H	leat of	Mos	iture	Sensible	T	otal	Heat of	Indoor
wouer	Tune	Cap	remp	Remo	val C	Cooling	Capacity	Rejecti	on Rei	noval	Coc	oling	Capacity	Re	ejection	Rem	ioval	Cooling	Ca	pacity	Rejection	Air
	Type		Г	lbs/	hr	Btuh	Btuh	Btuh	lb	s/hr	Bt	tuh	Btuh		Btuh	lbs	/hr	Btuh	E	Btuh	Btuh	CFM
	PSC	Full	80	15	.5 3	33,045	49,708	60,54	2	17.1	32	2,562	51,588		62,412	2	0.5	32,084	5	53,415	64,231	2,000
	PSC	Part	80	12	.2 2	26,156	39,020	47,27	'0	13.4	25	5,722	40,453		48,720	1	6.1	25,292	4	1,841	50,126	1,700
064	PSC	Full	82	16	.6 3	32,785	49,668	60,76	67 ⁻	19.9	31	,596	50,658		61,734	2	1.7	30,667	5	51,847	62,905	2,000
004	PSC	Part	82	13	.0 2	25,900	38,963	47,45	57 ·	15.6	24	,828	39,631		48,167	1	7.0	23,988	4	0,467	49,036	1,700
	PSC	Full	84	20	.2 3	31,576	48,498	59,85	51 2	24.2	30	,535	49,615		60,947	2	6.5	29,518	5	50,639	61,950	2,000
	PSC	Part	84	15	.8 2	24,781	37,930	46,70	. 8	19.0	23	3,837	38,699		47,514	2	0.7	22,913	3	39,385	48,235	1,700
								Two	Stad	e. 4	10A	Ele	ctrical	Da	ta							ò
		1													T						Supply	Wire
Madal	Voltag	Je .			Min/	/Max	Co	mpres	sor	Blo	owe	Blov	ver		Tot	al	Min		lax	Mii	n	
Model	Code	•	voita	ge	Volt	tage	PI A			. ⊦	łр	FL	А				Amn		ISE/	AW	G Ma	xFt(M)
								LINA									Amp	3 11/	(CIX	60°	С	
	A	20	8-23	0/60	/1197/	/254	28.8	152.9	53.6	5	1	5.	3		34	.1	41.0	7	0	4	125	(38.1)
064	С	20	8-23	0/60	/3197/	/254	16.2	110.0	-		1	4.	4		20	.6	24.7	· 4	0	8	155	(47.3)
004	D	4	460/6	60/3	414/	/506	7.6	52.0	-		1	2.2	2		9.8	8	11.8	2	20	12	260	(79.3)
	E	Ę	575/6	60/3	518/	/633	7.6	52.0	-		1	1.	6	_	9.2	2	11.1	2	0	12	344	(104.9

Notes: LRA* estimated with optional "Secure Start" installed (208-230/60/1) All fuses Class RK-5 HACR circuit breaker in USA only

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

www.geoflexsystems.com

In some caeses local & national electrical codes will superceed fuse & wire size information as supplied herein, which must take precedent.



GF-DH-TS-TD-064-R410A-10-23-17-24-CUD	Plant Office:
all rights reserved ©2006 geoflex systems inc.	3 - 10 Tecumseh Ave., West, London, Ont. N6J 1K6
Due to ongoing research and development Geoflex reserves the right	Phone: 519.488.1653 Fax: 519.913.1259
to change or alter specifications and configurations without notice!	Email: plant@geoflexsystems.com

Technical Specifications Geoflex Two Stage Dehumidification System Model 064 - 410A - Bottom Discharge

Blower High Speed CFM & SP

ESP	0.3	0.5	.75	1.0
CFM	2,160	2,000	1,903	1,835

Standard Pool Heat Recovery Option								
Model	GPM	FOH	PSIG	MBH	EWT			
DWV-1.0	2	2.1	0.9	12	80			
DW/V_15	3	53	23	18	80			

Available Cabinet Types

		Foot	print	Height	Height
Model	Cabinet Types	Width	Depth	without Damper	c/w 8" Damper
064	Standard Vertical	29.5"	29.5"	58.0"	66.0"
064	*Larger Vertical	29.5"	44.25"	58.0"	66.0"
064	Standard Horizontal	29.5"	59.0"	33.0"	41.0"
064	**Compact Horizontal	29.5"	44.25"	33.0"	41.0"

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

Elements Description Туре Refrigerant R410A Refrigerant Charge Min 10 F Superheat Base Unit 6.1 lbs. (est) Base Unit c/w 9.6 lbs. (est) Internal 100% DX (Direct Air Reheat Expansion) Condensor Compressor Scroll Direct Drive (PSC or ECM) Standard Blower Baked Acrylic 3 Stage Process Air Coil Coatin SuperGaurd Condensate Pan Coated Optional Pool Co-axial Reheat (DWV, C/N) Condensor Optional Water Condensor Co-axial or Brazed Plate Base Weight 494 lbs. (est) Ship Weight 524 lbs. (est) Crated Weight 584 lbs. (est)

Standard Two Stage Features						
Highest Efficiency	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					
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					
Condensate 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 Condensation Rusting					
Feild Adaption	All Systems are designed to offer maximum field adaptability					

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



Two Step Dehumidification Performance Data																			
	Fan		٨٠٠		50	% RH				55%	6 RH				60%	6 RH			Flow
Madal	Fan Motor	Con	All	Mosit	ure Sensible	Total	Heato	of Mos	iture	Sensible	Tota	I He	eat of	Mositure	Sensible	Tota	I F	leat of	Indoor
INDUEI	Tuno	Cap	remp	Remo	oval Cooling	Capacity	Rejecti	on Rem	oval	Cooling	Capac	ity Re	jection	Removal	Cooling	Capaci	ity Re	jection	Air
	туре		Г	lbs/	hr Btuh	Btuh	Btuh	lbs	/hr	Btuh	Btuh	1 I	Btuh	lbs/hr	Btuh	Btuh		Btuh	CFM
	PSC	Full	80	15	.5 33,045	49,708	60,54	2 1	7.1	32,562	51,5	88 6	62,412	20.5	32,084	53,4	15	64,231	2,000
	PSC	Part	80	12	.2 26,156	39,020	47,27	0 1	3.4	25,722	40,4	53 4	48,720	16.1	25,292	41,84	41	50,126	1,700
064	PSC	Full	82	16	.6 32,785	49,668	60,76	57 1	9.9	31,596	50,6	58 6	61,734	21.7	30,667	51,84	47	62,905	2,000
004	PSC	Part	82	13	.0 25,900	38,963	47,45	57 1	5.6	24,828	39,6	31 4	48,167	17.0	23,988	40,46	67	49,036	1,700
	PSC	Full	84	20	.2 31,576	48,498	59,85	i1 2	4.2	30,535	49,6	15 6	60,947	26.5	29,518	50,63	39	61,950	2,000
	PSC	Part	84	15	.8 24,781	37,930	46,70	18	9.0	23,837	38,6	99 4	47,514	20.7	22,913	39,38	85	48,235	1,700
		-				<u> </u>	Two	Stan	e 41		ectrica	al Dat	ta						
		1						olag	1				1				<u> </u>	upply	Wire
	Voltag				Min/Max	Co	ompres	sor	Blo	we Blo	wer		Tot	al M	in M	ax —	Min		viie
Model	Code		Volta	ge	Voltage				Hp	p FI	_A		Uni	it Ciro	cuit Fu	se/ A	WG	Max	× Ft (M)
					0	RLA	LRA	LRA*					FL/	A Am	ps HA	CR 6	0°C		, , ,
	А	20	8-23	0/60	1197/254	28.8	152.9	53.6	1	5	.3		34.	1 41	.0 7	0	4	125	(38.1)
	С	20	8-23	0/60	3197/254	16.2	110.0	-	1	4	.4		20.	6 24	.7 4	0	8	155	(47.3)

1

1

Notes: LRA* estimated with optional "Secure Start" installed (208-230/60/1)

414/506

518/633

7.6

7.6

All fuses Class RK-5

52.0

52.0

460/60/3

575/60/3

HACR circuit breaker in USA only

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

20

20

12

12

260 (79.3)

344 (104.9

www.geoflexsystems.com

11.8

11.1

In some caeses local & national electrical codes will superceed fuse & wire size information as supplied herein, which must take precedent.

_



D

Е

064

C	GF-DH-TS-BD-064-R410A-10-23-17-24-CUD	Plant Office:
ems	all rights reserved@2006 geoflex systems inc. Due to orgoing research and development Geoflex reserves the right to change or alter specifications and configurations without notice!	Phone: 519.488.1653 Fax: 519.913.1259 Email: plant@geoflexsystems.com

2.2

1.6

9.8

9.2

Technical Specifications Geoflex Two Stage Dehumidification System Model 064 - 410A - Horizontal

Blower High Speed CFM & SP

ESP	0.3	0.5	.75	1.0		
CFM	2,160	2,000	1,903	1,835		

Standard Pool Heat Recovery Option										
Model	GPM	FOH	PSIG	MBH	EWT					
DWV-1.0	2	2.1	0.9	12	80					
DWV-15	3	53	23	18	80					

Available Cabinet Types

0

¢

¢ ¢

		Foot	print	Height	Height			
Model	Cabinet Types	Width	Depth	without Damper	c/w 8" Damper			
064	Standard Vertical	29.5"	29.5"	58.0"	66.0"			
064	*Larger Vertical	29.5"	44.25"	58.0"	66.0"			
064	Standard Horizontal	29.5"	59.0"	33.0"	41.0"			
064 **Compact Horizontal 29.5" 44.25" 33.0" 41.0								
* Larger cabinets are used to accommodate much higher than standard CFM ** Units with some features, eq., the geothermal option, demand a larger footprint								

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

Return Air and Service Side Options)

0

0

Description	Туре	
Refrigerant	R410A	
Refrigerant Charge (Superheat Supercedes)	Min 10 F Superheat	
Base Unit	6.1 lbs. (est)	
Base Unit c/w Ext. DX Condenser	9.6 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	494 lbs. (est)	ŀ
Ship Weight	524 lbs. (est)	
Crated Weight	584 lbs. (est)	

-

Optional Hanging Bracket Detail

þ

¢

þ **☆**

Elements

Γ

	Standard Two Stage Features						
Highest Efficiency	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						
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						
Condensate 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 Condensation Rusting						
Feild 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.



-0-Ý.

0

 $\overline{\mathbf{O}}$ \triangle



Two Step Dehumidification Performance Data																
	Fan		Air		50%	6 RH			55% RH				60% RH			
Model	Motor	Can	Tomn	Mositure	Sensible	Total	Heat of	Mositure	Sensible	Total	Heat of	Mositure	Sensible	Total	Heat of	Indoor
WOUCI	Type	Cap	°E	Removal	Cooling	Capacity	Rejection	Removal	Cooling	Capacity	Rejection	Removal	Cooling	Capacity	Rejection	Air
	Type			lbs/hr	Btuh	Btuh	Btuh	lbs/hr	Btuh	Btuh	Btuh	lbs/hr	Btuh	Btuh	Btuh	CFM
	PSC	Full	80	15.5	33,045	49,708	60,542	17.1	32,562	51,588	62,412	20.5	32,084	53,415	64,231	2,000
	PSC	Part	80	12.2	26,156	39,020	47,270	13.4	25,722	40,453	48,720	16.1	25,292	41,841	50,126	1,700
064	PSC	Full	82	16.6	32,785	49,668	60,767	19.9	31,596	50,658	61,734	21.7	30,667	51,847	62,905	2,000
004	PSC	Part	82	13.0	25,900	38,963	47,457	15.6	24,828	39,631	48,167	17.0	23,988	40,467	49,036	1,700
	PSC	Full	84	20.2	31,576	48,498	59,851	24.2	30,535	49,615	60,947	26.5	29,518	50,639	61,950	2,000
	PSC	Part	84	15.8	24,781	37,930	46,708	19.0	23,837	38,699	47,514	20.7	22,913	39,385	48,235	1,700
	Two Stage, 410A Electrical Data															
		1													Supply	Wire

				C	omores	sor				Total	Min	Max	Supply Wire		
Model	Voltage	Voltage	Min/Max	0	ompres	301	Blowe * Hp	Blower FLA		Unit	Circuit	Fuse/	Min		
wouch	Code	Vollage	Voltage	PI A	RLA LRA LRA					FLA	Amns		AW G	Max	×Ft(M)
				INLA						1 64	Amps	HACK	60°C		
	А	208-230/60	1197/254	28.8	152.9	53.6	1	5.3		34.1	41.0	70	4	125	(38.1)
064	С	208-230/60	/3197/254	16.2	110.0	-	1	4.4		20.6	24.7	40	8	155	(47.3)
004	D	460/60/3	414/506	7.6	52.0	-	1	2.2		9.8	11.8	20	12	260	(79.3)
	Е	575/60/3	518/633	7.6	52.0	-	1	1.6		9.2	11.1	20	12	344	(104.9)

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

www.geoflexsystems.com

In some caeses local & national electrical codes will superceed fuse & wire size information as supplied herein, which must take precedent.



GF-DH-TS-HZ-064-R410A-10-23-17-24-CUD	Plant Office:
all rights reserved ©2006 geoflex systems inc.	3 - 10 Tecumseh Ave., West, London, Ont. N6J 1K6
Due to ongoing research and development Geoflex reserves the right	Phone: 619.488.1653 Fax: 519.913.1259
to change or alter specifications and configurations without notice!	Email: plant@geoflexsystems.com