Geoflex model GFXX-120WW-4 Fluid-to-Fluid Heat Pump & Chiller Specifications

Geoflex, Multi-flex Systems have been designed to allow for the stacking/ganging of 2, 3, 4 or more heat pump / chiller systems, offering the benefits of built-in redundancy, maintenance without complete shut-down, unparalleled operating efficiency and unloading characteristics. The stacking/ganging of systems allows increased capacity without increasing the very small footprint of the equipment. The individual components will go into most elevators fit through most doors, eliminating the need for door widening, taking out walls or cranes in high rise buildings.

The Multi-flex design offers built-in system redundancy for servicing and higher operating efficiency by staging the systems, accordingly to the load. The fluid inlets and outlets are staggered both vertically and horizontally to simplify piping connections to the heat pumps / chiller. Service panels surround the system, however, the Multi-flex systems are designed for complete service access by removing the front panel.

The electrical and performance specifications are provide for a unit with a single compressor. If the units are stacked the performance and electrical specifications must be doubled. Fluid-to-fluid heat pump / chiller systems should be designed to operate at fluid temperatures lower than 120 F (50 C). Specifying operating temperatures higher than this will result in less efficient operation and can shorten the longevity of the compressor. Units must be operating within specified operating ranges.

GF1-120-WW-4 Performance Specifications - R410

Eva	porate	or							Cond	enser								Heating	g & Cool	ing Cap	pacity				
EF	т	LF	т	Flo	ow		PD		EF	т	LF	т	Flo	w		PD		Heating	Capacity	COPh	Chilling	Capacity	COPc	EER	kW
۴F	°C	°F	°C	GPM	L/S	ft/h	kPa	psi	°F	°C	°F	°C	GPM	L/S	ft/h	kPa	psi	MBH	(/kW)		MBH	(/kW)			
53.6	12.0	46.0	7.8	25.3	1.6	14.2	42.7	6.2	77.0	25.0	86.4	30.2	25.3	1.6	12.0	36.0	5.2	115.9	34.0	5.4	94.3	27.6	4.4	14.9	6.3
32.0	0.0	27.3	-2.6	25.3	1.6	16.0	47.9	6.9	104.0	40.0	111.0	43.9	25.3	1.6	10.7	32.0	4.6	86.8	25.4	3.0	57.4	16.8	2.0	6.7	8.6
53.5	11.9	45.3	7.4	25.3	1.6	14.3	42.8	6.2	59.0	15.0	68.6	20.3	25.3	1.6	13.2	39.5	5.7	118.6	34.7	6.8	101.2	29.7	5.8	19.9	5.1
50.0	10.0	43.7	6.5	25.3	1.6	14.5	43.4	6.3	104.0	40.0	112.7	44.8	25.3	1.6	10.6	31.9	4.6	107.3	31.5	3.6	77.5	22.7	2.6	8.9	8.7
53.6	12.0	46.3	7.9	25.3	1.6	14.2	42.7	6.2	86.0	30.0	95.3	35.2	25.3	1.6	11.5	34.5	5.0	114.5	33.6	4.8	90.5	26.5	3.8	12.8	7.0
68.0	20.0	59.8	15.4	25.3	1.6	13.2	39.5	5.7	104.0	40.0	114.7	45.9	25.3	1.6	10.6	31.7	4.6	131.4	38.5	4.3	101.0	29.6	3.3	11.4	8.9
50.0	10.0	43.0	6.1	25.3	1.6	14.5	43.5	6.3	85.0	29.4	93.9	34.4	25.3	1.6	11.6	34.7	5.0	109.8	32.2	4.6	86.2	25.3	3.6	12.4	6.9
68.0	20.0	59.0	15.0	25.3	1.6	13.2	39.6	5.7	86.0	30.0	97.0	36.1	25.3	1.6	11.4	34.3	5.0	135.7	39.8	5.5	111.1	32.6	4.5	15.4	7.2
10.0	-12.2	6.5	-14.2	25.3	1.6	18.1	54.2	7.8	85.0	29.4	90.3	32.4	25.3	1.6	11.7	35.0	5.0	65.2	19.1	2.9	42.9	12.6	1.9	6.5	6.5
15.0	-9.4	11.1	-11.6	25.3	1.6	17.6	52.7	7.6	85.0	29.4	90.7	32.6	25.3	1.6	11.6	34.9	5.0	70.1	20.5	3.1	47.6	13.9	2.1	7.2	6.6
* Outr	Outputs and Efficiency Ratings are based on a 25% methanol and water mixture, which will increase or decrease based on anti-freeze levels																								

ARI/ISO 13256-2 - Ground Loop Heat Pump

ARI/ISO 13256-2 - Ground Water Heat Pump

ARI/ISO 13256-2 - Ground Water Heat Pump

ARI/ISO 13256-2 - Water Loop Heat Pump ARI/ISO 13256-2 - Water Loop Heat Pump ARI 550 - Chiller Rating Points

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ARI 550 - Chiller Rating Points Ice Making Rating Points Ice Making Rating Points

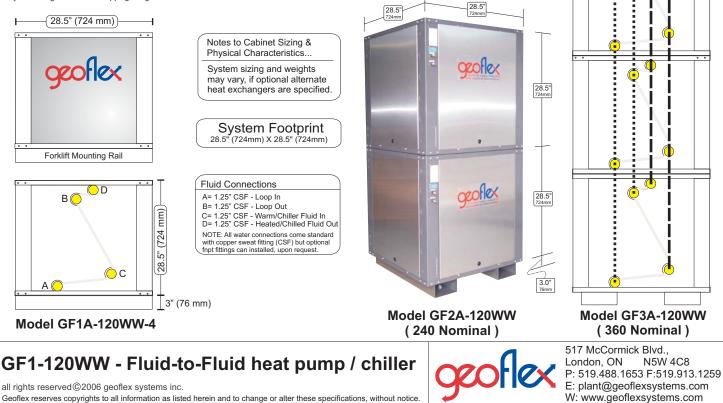
- water: 0.85 - 30% ethanol: 1.17

- 35% propylene glycol: 1.23

GF1-120WW-4 Electrical Specifications - R410A

	Comp	ressor	Min. Circuit	Max. Fuse
Voltage/Phase/Hz	RLA	LRA	Ampacity	Breaker Size
200-230/3/60	33.6	225.0	47.0	50
460/3/60	18.6	114.0	26.0	30
575/3/60	13.6	80.0	19.0	20

Note: Pumps or any other external portions, have not been included in the electrical specifications System Weight 430 Shipping Weight 450



Geoflex model GFXX-140WW-4 Fluid-to-Fluid Heat Pump & Chiller Specifications

Geoflex, Multi-flex Systems have been designed to allow for the stacking/ganging of 2, 3, 4 or more heat pump / chiller systems, offering the benefits of built-in redundancy, maintenance without complete shut-down, unparalleled operating efficiency and unloading characteristics. The stacking/ganging of systems allows increased capacity without increasing the very small footprint of the equipment. The individual components will go into most elevators fit through most doors, eliminating the need for door widening, taking out walls or cranes in high rise buildings.

The Multi-flex design offers built-in system redundancy for servicing and higher operating efficiency by staging the systems, accordingly to the load. The fluid inlets and outlets are staggered both vertically and horizontally to simplify piping connections to the heat pumps / chiller. Service panels surround the system, however, the Multi-flex systems are designed for complete service access by removing the front panel.

The electrical and performance specifications are provide for a unit with a single compressor. If the units are stacked the performance and electrical specifications must be doubled. Fluid-to-fluid heat pump / chiller systems should be designed to operate at fluid temperatures lower than 120 F (50 C). Specifying operating temperatures higher than this will result in less efficient operation and can shorten the longevity of the compressor. Units must be operating within specified operating ranges.

GF1-140-WW-4 Performance Specifications - R410

Eva	porato	or							Cond	enser								Heating	g & Cool	ing Cap	pacity				
EF	т	LF	T	Fl	ow		PD		EF	т	LF	т	Flo	w		PD		Heating	Capacity	COPh	Chilling	Capacity	COPc	EER	kW
°F	°C	°F	°C	GPM	L/S	ft/h	kPa	psi	°F	°C	°F	°C	GPM	L/S	ft/h	kPa	psi	МВН	(/kW)		MBH	(/kW)			
53.6	12.0	45.4	7.4	29.6	1.9	11.8	35.4	5.1	77.0	25.0	86.9	30.5	29.6	1.9	9.9	29.8	4.3	142.9	41.9	5.7	117.8	34.5	4.7	16.0	7.4
32.0	0.0	27.2	-2.7	29.6	1.9	13.2	39.7	5.7	104.0	40.0	111.2	44.0	29.6	1.9	8.8	26.5	3.8	103.4	30.3	3.0	69.4	20.3	2.0	7.0	10.0
53.6	12.0	44.8	7.1	29.6	1.9	11.8	35.5	5.1	59.0	15.0	69.3	20.7	29.6	1.9	10.9	32.7	4.7	148.3	43.5	6.8	126.6	37.1	5.8	19.9	6.4
50.0	10.0	43.4	6.3	29.6	1.9	12.0	36.0	5.2	104.0	40.0	113.0	45.0	29.6	1.9	8.8	26.4	3.8	128.9	37.8	3.8	94.6	27.7	2.8	9.4	10.1
53.6	12.0	45.8	7.7	29.6	1.9	11.8	35.4	5.1	86.0	30.0	95.7	35.4	29.6	1.9	9.5	28.5	4.1	140.1	41.1	5.1	112.4	32.9	4.1	13.9	8.1
68.0	20.0	59.4	15.2	29.6	1.9	10.9	32.8	4.7	104.0	40.0	115.1	46.1	29.6	1.9	8.8	26.3	3.8	159.1	46.6	4.5	124.1	36.4	3.5	12.1	10.3
50.0	10.0	42.5	5.9	29.6	1.9	12.0	36.1	5.2	85.0	29.4	94.3	34.6	29.6	1.9	9.6	28.7	4.1	134.4	39.4	4.9	107.2	31.4	3.9	13.4	8.0
68.0	20.0	58.4	14.7	29.6	1.9	11.0	32.9	4.7	86.0	30.0	97.5	36.4	29.6	1.9	9.5	28.4	4.1	166.0	48.6	5.9	137.6	40.3	4.9	16.6	8.3
10.0	-12.2	6.3	-14.3	29.6	1.9	15.0	45.0	6.5	85.0	29.4	90.5	32.5	29.6	1.9	9.7	29.0	4.2	79.3	23.2	3.1	53.3	15.6	2.1	7.0	7.6
15.0	-9.4	10.9	-11.7	29.6	1.9	14.6	43.7	6.3	85.0	29.4	90.9	32.7	29.6	1.9	9.6	28.9	4.2	84.9	24.9	3.3	58.9	17.3	2.3	7.7	7.6
* Outr	Outputs and Efficiency Ratings are based on a 25% methanol and water mixture, which will increase or decrease based on anti-freeze levels																								

ARI/ISO 13256-2 - Ground Loop Heat Pump

ARI/ISO 13256-2 - Ground Water Heat Pump

ARI/ISO 13256-2 - Ground Water Heat Pump

ARI/ISO 13256-2 - Water Loop Heat Pump ARI/ISO 13256-2 - Water Loop Heat Pump ARI 550 - Chiller Rating Points

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ARI 550 - Chiller Rating Points Ice Making Rating Points Ice Making Rating Points

* Outputs and Efficiency Ratings are based on a 25% methanol and water mixture, which will increase or decrease based on anti-freeze levels ** Pressure doep is shown in feet of head, using 25% methanol & water as the test fluid. Multipliers for other fluids are as follows:

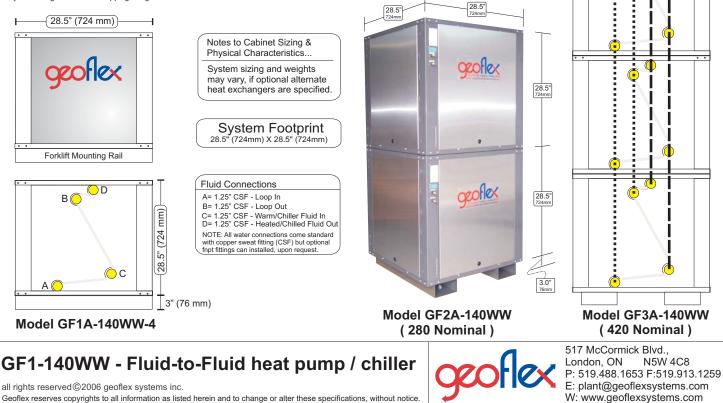
- water: 0.85 - 30% ethanol: 1.17

- 35% propylene glycol: 1.23

GF1-140WW-4 Electrical Specifications - R410A

	Comp	ressor	Min. Circuit	Max. Fuse
Voltage/Phase/Hz	RLA	LRA	Ampacity	Breaker Size
200-230/3/60	37.1	239.0	51.9	60
460/3/60	20.0	125.0	28.0	30
575/3/60	14.3	80.0	20.0	25

Note: Pumps or any other external portions, have not been included in the electrical specifications System Weight 430 Shipping Weight 450



Geoflex model GFXX-180WW-4 Fluid-to-Fluid Heat Pump & Chiller Specifications

Geoflex, Multi-flex Systems have been designed to allow for the stacking/ganging of 2, 3, 4 or more heat pump / chiller systems, offering the benefits of built-in redundancy, maintenance without complete shut-down, unparalleled operating efficiency and unloading characteristics. The stacking/ganging of systems allows increased capacity without increasing the very small footprint of the equipment. The individual components will go into most elevators fit through most doors, eliminating the need for door widening, taking out walls or cranes in high rise buildings.

The Multi-flex design offers built-in system redundancy for servicing and higher operating efficiency by staging the systems, accordingly to the load. The fluid inlets and outlets are staggered both vertically and horizontally to simplify piping connections to the heat pumps / chiller. Service panels surround the system, however, the Multi-flex systems are designed for complete service access by removing the front panel.

The electrical and performance specifications are provide for a unit with a single compressor. If the units are stacked the performance and electrical specifications must be doubled. Fluid-to-fluid heat pump / chiller systems should be designed to operate at fluid temperatures lower than 120 F (50 C). Specifying operating temperatures higher than this will result in less efficient operation and can shorten the longevity of the compressor. Units must be operating within specified operating ranges.

GF1-180-WW-4 Performance Specifications - R410

Eva	porate	or							Cond	enser								Heatin	g & Cool	ing Cap	oacity				
EF	T	LF	т	Fl	ow		PD		EF	т	LF	т	Flo	w		PD		Heating	Capacity	COPh	Chilling	Capacity	COPc	EER	kW
°F	°C	°F	°C	GPM	L/S	ft/h	kPa	psi	°F	°C	°F	°C	GPM	L/S	ft/h	kPa	psi	MBH	(/kW)		MBH	(/kW)			
53.6	12.0	45.7	7.6	38.0	2.4	14.0	42.1	6.1	77.0	25.0	86.7	30.4	38.0	2.4	11.8	35.5	5.1	179.1	52.5	5.5	146.7	43.0	4.5	15.4	9.5
32.0	0.0	27.0	-2.8	38.0	2.4	15.8	47.3	6.8	104.0	40.0	111.2	44.0	38.0	2.4	10.5	31.5	4.5	133.3	39.1	3.2	91.6	26.8	2.2	7.5	12.2
53.6	12.0	45.0	7.2	38.0	2.4	14.1	42.2	6.1	59.0	15.0	69.0	20.6	38.0	2.4	13.0	38.9	5.6	185.1	54.2	6.9	158.1	46.3	5.9	20.0	7.9
50.0	10.0	43.4	6.4	38.0	2.4	14.3	42.8	6.2	104.0	40.0	112.9	44.9	38.0	2.4	10.5	31.4	4.5	164.4	48.2	3.8	121.3	35.5	2.8	9.6	12.6
53.6	12.0	46.0	7.8	38.0	2.4	14.0	42.1	6.1	86.0	30.0	95.6	35.3	38.0	2.4	11.3	34.0	4.9	176.5	51.7	4.9	140.8	41.3	3.9	13.5	10.5
68.0	20.0	59.5	15.3	38.0	2.4	13.0	39.0	5.6	104.0	40.0	114.9	46.0	38.0	2.4	10.4	31.3	4.5	201.0	58.9	4.5	156.4	45.8	3.5	12.0	13.1
50.0	10.0	42.7	6.0	38.0	2.4	14.3	42.9	6.2	85.0	29.4	94.2	34.5	38.0	2.4	11.4	34.2	4.9	169.3	49.6	4.8	134.2	39.3	3.8	13.1	10.3
68.0	20.0	58.7	14.8	38.0	2.4	13.0	39.1	5.6	86.0	30.0	97.3	36.3	38.0	2.4	11.3	33.8	4.9	209.3	61.3	5.7	172.3	50.5	4.7	15.9	10.8
10.0	-12.2	6.2	-14.3	38.0	2.4	17.8	53.5	7.7	85.0	29.4	90.5	32.5	38.0	2.4	11.5	34.5	5.0	101.8	29.8	3.2	69.6	20.4	2.2	7.4	9.4
15.0	-9.4	10.9	-11.7	38.0	2.4	17.3	52.0	7.5	85.0	29.4	90.9	32.7	38.0	2.4	11.5	34.4	5.0	109.0	31.9	3.3	76.4	22.4	2.3	8.0	9.5
* Outr	Outputs and Efficiency Ratings are based on a 25% methanol and water mixture, which will increase or decrease based on anti-freeze levels																								

ARI/ISO 13256-2 - Ground Loop Heat Pump

ARI/ISO 13256-2 - Ground Water Heat Pump

ARI/ISO 13256-2 - Ground Water Heat Pump

ARI/ISO 13256-2 - Water Loop Heat Pump ARI/ISO 13256-2 - Water Loop Heat Pump ARI 550 - Chiller Rating Points

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ARI 550 - Chiller Rating Points Ice Making Rating Points Ice Making Rating Points

Outputs and Efficiency Ratings are based on a 25% methanol and water mixture, which will increase or decrease based on anti-freeze levels ** Pressure drop is shown in feet of head, using 25% methanol & water as the test fluid. Multipliers for other fluids are as follows: - water: 0.85

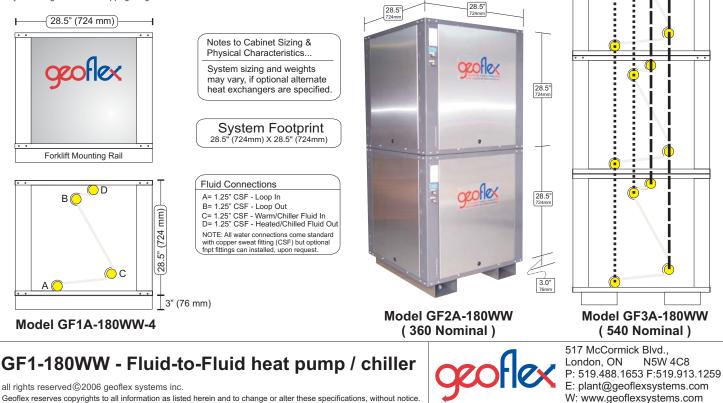
- 30% ethanol: 1.17

- 35% propylene glycol: 1.23

GF1-180WW-4 Electrical Specifications - R410A

	Comp	ressor	Min. Circuit	Max. Fuse
Voltage/Phase/Hz	RLA	LRA	Ampacity	Breaker Size
200-230/3/60	57.1	300.0	79.9	90
460/3/60	25.7	150.0	36.0	40
575/3/60	22.1	109.0	30.9	30

Note: Pumps or any other external portions, have not been included in the electrical specifications System Weight 430 Shipping Weight 450



Geoflex reserves copyrights to all information as listed herein and to change or alter these specifications, without notice.

Geoflex model GFXX-210WW-4 Fluid-to-Fluid Heat Pump & Chiller Specifications

Geoflex, Multi-flex Systems have been designed to allow for the stacking/ganging of 2, 3, 4 or more heat pump / chiller systems, offering the benefits of built-in redundancy, maintenance without complete shut-down, unparalleled operating efficiency and unloading characteristics. The stacking/ganging of systems allows increased capacity without increasing the very small footprint of the equipment. The individual components will go into most elevators fit through most doors, eliminating the need for door widening, taking out walls or cranes in high rise buildings.

The Multi-flex design offers built-in system redundancy for servicing and higher operating efficiency by staging the systems, accordingly to the load. The fluid inlets and outlets are staggered both vertically and horizontally to simplify piping connections to the heat pumps / chiller. Service panels surround the system, however, the Multi-flex systems are designed for complete service access by removing the front panel.

The electrical and performance specifications are provide for a unit with a single compressor. If the units are stacked the performance and electrical specifications must be doubled. Fluid-to-fluid heat pump / chiller systems should be designed to operate at fluid temperatures lower than 120 F (50 C). Specifying operating temperatures higher than this will result in less efficient operation and can shorten the longevity of the compressor. Units must be operating within specified operating ranges.

GF1-210-WW-4 Performance Specifications - R410A

Eva	porate	or							Cond	enser								Heatin	g & Cool	ing Cap	pacity				
EF	т	LF	T	Fle	w		PD		EF	т	LF	Т	Flo	w		PD		Heating	Capacity	COPh	Chilling	Capacity	COPc	EER	kW
°F	°C	°F	°C	GPM	L/S	ft/h	kPa	psi	°F	°C	°F	°C	GPM	L/S	ft/h	kPa	psi	MBH	(/kW)		MBH	(/kW)			
53.6	12.0	45.7	7.6	44.6	2.8	14.5	43.6	6.3	77.0	25.0	86.6	30.3	44.6	2.8	12.2	36.7	5.3	208.6	61.1	5.4	170.1	49.8	4.4	15.1	11.3
32.0	0.0	27.2	-2.7	44.6	2.8	16.3	48.8	7.0	104.0	40.0	111.1	43.9	44.6	2.8	10.9	32.6	4.7	154.0	45.1	3.1	104.8	30.7	2.1	7.3	14.4
53.6	12.0	45.2	7.3	44.6	2.8	14.5	43.6	6.3	59.0	15.0	68.9	20.5	44.6	2.8	13.4	40.3	5.8	214.0	62.7	6.6	181.5	53.2	5.6	19.0	9.5
50.0	10.0	43.6	6.4	44.6	2.8	14.8	44.3	6.4	104.0	40.0	112.8	44.9	44.6	2.8	10.8	32.5	4.7	190.4	55.8	3.8	139.7	40.9	2.8	9.4	14.8
53.6	12.0	46.1	7.8	44.6	2.8	14.5	43.5	6.3	86.0	30.0	95.5	35.3	44.6	2.8	11.7	35.1	5.1	205.4	60.2	4.9	163.3	47.9	3.9	13.2	12.3
68.0	20.0	59.6	15.4	44.6	2.8	13.4	40.3	5.8	104.0	40.0	114.8	46.0	44.6	2.8	10.8	32.4	4.7	233.5	68.4	4.4	181.0	53.0	3.4	11.8	15.4
50.0	10.0	42.8	6.0	44.6	2.8	14.8	44.4	6.4	85.0	29.4	94.1	34.5	44.6	2.8	11.8	35.3	5.1	197.0	57.7	4.8	155.6	45.6	3.8	12.8	12.1
68.0	20.0	58.8	14.9	44.6	2.8	13.5	40.4	5.8	86.0	30.0	97.2	36.2	44.6	2.8	11.7	35.0	5.0	243.3	71.3	5.6	199.7	58.5	4.6	15.6	12.8
10.0	-12.2	6.3	-14.3	44.6	2.8	18.4	55.3	8.0	85.0	29.4	90.4	32.5	44.6	2.8	11.9	35.6	5.1	118.0	34.6	3.1	79.9	23.4	2.1	7.1	11.2
15.0	15.0 -9.4 11.0 -11.7 44.6 2.8 17.9 53.8 7.8 85.0 29.4 90.8 32.7 44.6 2.8 11.9 35.6 5.1 126.2 37.0 3.3 87.6 25.7 2.3 7.7 11.3																								
* Outr	nuts and	d Efficie	Outputs and Efficiency Ratings are based on a 25% methanol and water mixture, which will increase or decrease based on anti-freeze levels																						

ARI/ISO 13256-2 - Ground Loop Heat Pump

ARI/ISO 13256-2 - Ground Water Heat Pump

ARI/ISO 13256-2 - Ground Water Heat Pump

ARI/ISO 13256-2 - Water Loop Heat Pump ARI/ISO 13256-2 - Water Loop Heat Pump ARI 550 - Chiller Rating Points

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ARI 550 - Chiller Rating Points Ice Making Rating Points Ice Making Rating Points

* Outputs and Efficiency Ratings are based on a 25% methanol and water mixture, which will increase or decrease based on anti-freeze levels ** Pressure drop is shown in feet of head, using 25% methanol & water as the test fluid. Multipliers for other fluids are as follows:

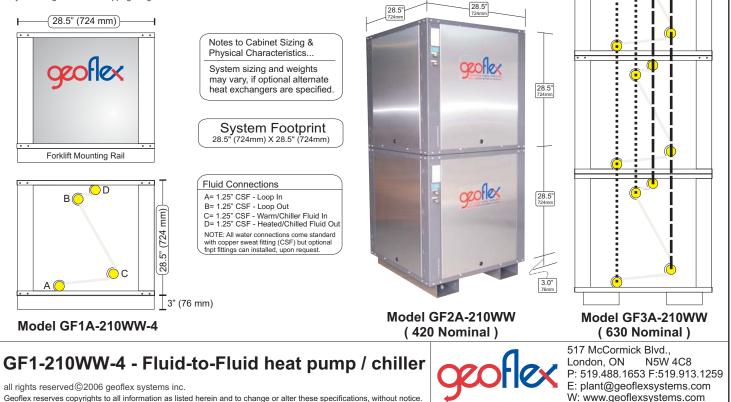
- water: 0.85 - 30% ethanol: 1.17

- 35% propylene glycol: 1.23

GF1-210-WW-4 Electrical Specifications - R410A

	Comp	ressor	Min. Circuit	Max. Fuse
Voltage/Phase/Hz	RLA	LRA	Ampacity	Breaker Size
200-230/3/60	62.1	340.0	87	90
460/3/60	30.0	173.0	42	50
575/3/60	26.4	132.0	37	40

Note: Pumps or any other external portions, have not been included in the electrical specifications System Weight 480 Shipping Weight 500



Geoflex model GFXX-450WW-4 Fluid-to-Fluid Heat Pump & Chiller Specifications

Geoflex, Multi-flex Systems have been designed to allow for the stacking/ganging of 2, 3 heat pump / chiller systems, offering the benefits of built-in redundancy, maintenance without complete shut-down, unparalleled operating efficiency and unloading characteristics. The stacking/ganging of systems allows increased capacity without increasing the very small footprint of the equipment.

The Multi-flex design offers built-in system redundancy for servicing and higher operating efficiency by staging the systems, accordingly to the load. The fluid inlets and outlets are staggered both vertically and horizontally to simplify piping connections to the heat pumps / chiller. Service panels surround the system, however, the Multi-flex systems are designed for complete service access by removing the front panel.

The electrical and performance specifications are provide for a unit with a single compressor. If the units are stacked the performance and electrical specifications must be doubled. Fluid-to-fluid heat pump / chiller systems should be designed to operate at fluid temperatures lower than 120 F (50 C). Specifying operating temperatures higher than this will result in less efficient operation and can shorten the longevity of the compressor. Units must be operating within specified operating ranges.

GF1-450-WW-4 Performance Specifications - R410A

Eva	porato	or							Cond	enser								Heating	g & Cool	ing Cap	pacity				
EF	T	LF	т	Fle	ow		PD		EF	т	LF	т	Fl	w		PD		Heating	Capacity	COPh	Chilling	Capacity	COPc	EER	kW
°F	°C	°F	°C	GPM	L/S	ft/h	kPa	psi	°F	°C	°F	°C	GPM	L/S	ft/h	kPa	psi	MBH	(/kW)		MBH	(/kW)			
53.6	12.0	45.5	7.5	90.0	5.7	18.1	54.2	7.8	77.0	25.0	87.0	30.5	90.0	5.7	15.5	46.6	6.7	442.6	129.7	5.5	361.4	105.9	4.5	15.2	23.8
32.0	0.0	27.0	-2.8	90.0	5.7	20.0	59.9	8.6	104.0	40.0	111.3	44.1	90.0	5.7	14.0	42.1	6.1	326.2	95.6	3.1	222.5	65.2	2.1	7.3	30.4
53.6	12.0	44.9	7.2	90.0	5.7	18.1	54.3	7.8	59.0	15.0	69.3	20.7	90.0	5.7	16.9	50.6	7.3	455.4	133.4	6.7	387.1	113.4	5.7	19.3	20.0
50.0	10.0	43.3	6.3	90.0	5.7	18.3	55.0	7.9	104.0	40.0	113.1	45.1	90.0	5.7	14.0	41.9	6.0	404.7	118.6	3.8	297.6	87.2	2.8	9.5	31.4
53.6	12.0	45.8	7.7	90.0	5.7	18.1	54.2	7.8	86.0	30.0	95.8	35.5	90.0	5.7	15.0	44.9	6.5	435.9	127.7	4.9	346.9	101.6	3.9	13.3	26.1
68.0	20.0	59.3	15.2	90.0	5.7	16.9	50.7	7.3	104.0	40.0	115.2	46.2	90.0	5.7	13.9	41.8	6.0	496.2	145.4	4.5	384.9	112.8	3.5	11.8	32.6
50.0	10.0	42.6	5.9	90.0	5.7	18.4	55.1	8.0	85.0	29.4	94.4	34.7	90.0	5.7	15.0	45.1	6.5	417.9	122.5	4.8	330.5	96.8	3.8	12.9	25.6
68.0	20.0	58.4	14.7	90.0	5.7	16.9	50.8	7.3	86.0	30.0	97.6	36.5	90.0	5.7	14.9	44.7	6.5	516.9	151.4	5.6	424.4	124.4	4.6	15.7	27.1
10.0	-12.2	6.2	-14.3	90.0	5.7	22.3	66.8	9.6	85.0	29.4	90.6	32.6	90.0	5.7	15.2	45.5	6.6	248.9	72.9	3.1	168.4	49.4	2.1	7.1	23.6
15.0	-9.4	10.8	-11.8	90.0	5.7	21.7	65.2	9.4	85.0	29.4	91.0	32.8	90.0	5.7	15.1	45.4	6.6	266.2	78.0	3.3	184.9	54.2	2.3	7.8	23.8
* ~ (e			050/											4: fra	. 1.			13256-2 - 0	Fround I		at Dump

Notes to Cabinet Sizing &

Dutputs and Efficiency Ratings are based on a 25% methanol and water mixture, which will increase or decrease based on anti-freeze levels ** Pressure drop is shown in feet of head, using 25% methanol & water as the test fluid. Multipliers for other fluids are as follows:

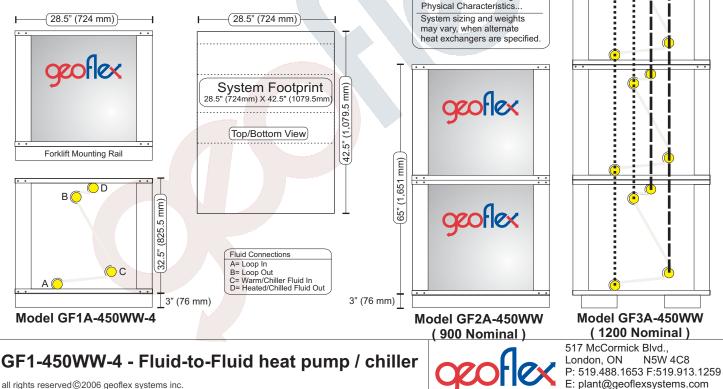
water: 0.85 - 30% ethanol: 1.17

- 35% propylene glycol: 1.23

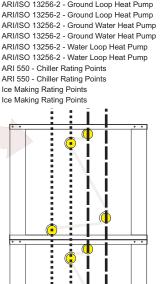
GF1-450WW-4 Electrical Specifications - R410A

	Comp	ressor	Min. Circuit	Max. Fuse
Voltage/Phase/Hz	RLA	LRA	Ampacity	Breaker Size
208-230/3/60	122.1	599.0	171	175
460/3/60	60.7	310.0	85	95
575/3/60	55.0	239.0	77	70

Note: Pumps or any other external portions, have not been included in the electrical specifications System Weight Shipping Weight



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