

# Geoflex model GFXX-330WW-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.

## GF1-330-WW-4 Performance Specifications - R410A

Evaporator									Condenser									Heating & Cooling Capacity							
EFT		LFT		Flow		PD			EFT		LFT		Flow		PD			Heating Capacity		COP <sub>h</sub>	Chilling Capacity		COP <sub>c</sub>	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	46.9	8.3	80.6	5.1	8.2	24.7	3.6	77.0	25.0	85.2	29.5	80.6	5.1	7.0	20.9	3.0	320.6	93.9	5.6	263.5	77.2	4.6	15.7	16.7
32.0	0.0	27.8	-2.3	80.6	5.1	9.2	27.7	4.0	104.0	40.0	110.1	43.4	80.6	5.1	6.2	18.6	2.7	237.9	69.7	3.2	164.7	48.2	2.2	7.7	21.5
53.6	12.0	46.4	8.0	80.6	5.1	8.2	24.7	3.6	59.0	15.0	67.4	19.7	80.6	5.1	7.7	23.0	3.3	330.4	96.8	6.9	282.3	82.7	5.9	20.1	14.1
50.0	10.0	44.4	6.9	80.6	5.1	8.4	25.1	3.6	104.0	40.0	111.5	44.2	80.6	5.1	6.2	18.5	2.7	294.2	86.2	3.9	218.6	64.1	2.9	9.9	22.1
53.6	12.0	47.1	8.4	80.6	5.1	8.2	24.7	3.6	86.0	30.0	94.1	34.5	80.6	5.1	6.7	20.0	2.9	315.9	92.6	5.0	253.2	74.2	4.0	13.8	18.4
68.0	20.0	60.8	16.0	80.6	5.1	7.6	22.8	3.3	104.0	40.0	113.2	45.1	80.6	5.1	6.2	18.5	2.7	361.4	105.9	4.6	283.2	83.0	3.6	12.4	22.9
50.0	10.0	43.8	6.6	80.6	5.1	8.4	25.2	3.6	85.0	29.4	92.7	33.7	80.6	5.1	6.7	20.2	2.9	302.9	88.8	4.9	241.4	70.7	3.9	13.4	18.0
68.0	20.0	60.1	15.6	80.6	5.1	7.6	22.9	3.3	86.0	30.0	95.6	35.3	80.6	5.1	6.7	20.0	2.9	375.1	109.9	5.8	310.2	90.9	4.8	16.3	19.0
10.0	-12.2	6.8	-14.0	80.6	5.1	10.5	31.4	4.5	85.0	29.4	89.6	32.0	80.6	5.1	6.8	20.3	2.9	180.8	53.0	3.2	123.7	36.3	2.2	7.4	16.7
15.0	-9.4	11.5	-11.4	80.6	5.1	10.2	30.5	4.4	85.0	29.4	89.9	32.2	80.6	5.1	6.8	20.3	2.9	193.8	56.8	3.4	136.3	39.9	2.4	8.1	16.9

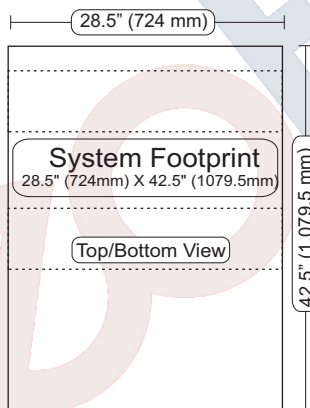
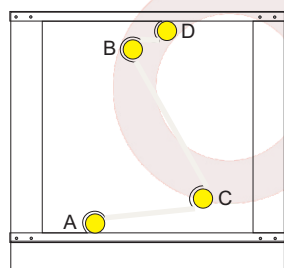
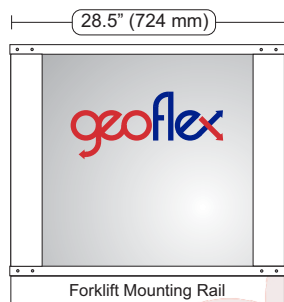
\* Outputs and Efficiency Ratings are based on a 25% methanol and water mixture, which will increase or decrease based on anti-freeze levels  
 \*\* Pressure drop is shown in feet of head, using 25% methanol & water as the test fluid. Multipliers for other fluids are as follows:  
 - water: 0.85  
 - 30% ethanol: 1.17  
 - 35% propylene glycol: 1.23

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

## GF1-330WW-4 Electrical Specifications - R410A

Voltage/Phase/Hz	Compressor		Min. Circuit Ampacity	Max. Fuse Breaker Size
	RLA	LRA		
208-230/3/60	99.3	500	139	160
460/3/60	47.9	250	67	80
575/3/60	35.7	198	50	60

Note: Pumps or any other external portions, have not been included in the electrical specifications  
 System Weight 656 Shipping Weight 716, weights will vary depending on options



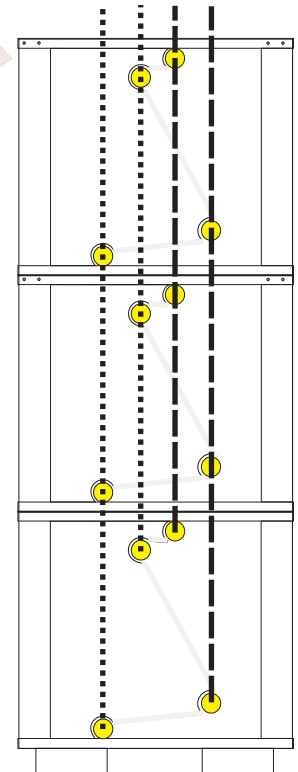
- Fluid Connections
- A= Loop In
  - B= Loop Out
  - C= Warm/Chiller Fluid In
  - D= Heated/Chilled Fluid Out

Model GF1A-330WW-4



Not to Scale Illustration Only

Model GF2A-330WW (660 Nominal)



Model GF3A-450WW (990 Nominal)

## GF1-330WW-E4 - Fluid-to-Fluid heat pump / chiller

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