



FHP Manufacturing
Florida Heat Pump Environmental Equipment

GUIDE SPECIFICATIONS

GO Series 2-6 Tons

GENERAL

Units shall be A.R.I. Standard 325 (ground water source heat pump) and A.R.I. Standard 330/C.S.A. C-446 (closed-loop ground-source heat pump) performance certified and Underwriter Laboratories (UL) listed for safety on all models. Each unit shall be run tested at the factory. Each unit shall be pallet mounted and stretch wrapped.

The units shall be warranted by the manufacturer against defects in materials and workmanship for a period of one year on all parts, and 5 years on the compressor.

The units shall be designed to operate with entering fluid temperatures between 20°F and 110°F as manufactured by FHP Manufacturing in Fort Lauderdale, Florida.

CASING & CABINET

The cabinet shall be fabricated from heavy-gauge galvanized steel. The interior shall be insulated with ½" thick, multi density, coated, glass fiber. All units shall allow sufficient service access to replace the compressor without unit removal. One blower and two compressor compartment access panels shall be removable with supply and return ductwork in place. A duct collar shall be provided on the supply air opening. A 2" enclosed filter rack with hinged access door, return air duct collar and using 1" thick filters shall be provided with each vertical or counterflow unit. Horizontal units shall be provided with a 2" filter rack with duct collar using 1" thick filters. The units shall have an insulated divider panel between the air handling section and the compressor section to minimize the transmission of compressor noise, and to permit operational service testing without air bypass.

REFRIGERATION CIRCUITS

All units shall contain a sealed refrigerant circuit including a hermetic compressor (or tandem compressors for 4 ton and larger units), bidirectional thermal expansion valve metering device, finned tube air-to-refrigerant heat exchanger, refrigerant reversing valve and service ports. Compressor shall be high efficiency, designed for heat pump duty, internally spring isolated (if reciprocating type) for maximum sound attenuation and mounted on rubber vibration isolators. Compressor motors shall be equipped with overload protection. Refrigerant reversing valves shall be pilot operated sliding piston type with replaceable encapsulated magnetic coils energized only during the cooling cycle. The finned tube coil shall be constructed of lanced aluminum fins not exceeding fourteen fins per inch bonded to rifled copper tubes in a staggered pattern not less than three rows deep and have a 450 PSIG working pressure. The coaxial water-to-refrigerant heat exchanger shall be constructed of a convoluted copper (optional cupronickel) inner tube and steel outer tube with a designed refrigerant working pressure of 450 PSIG. The water-to-refrigerant heat exchanger shall be insulated to prevent condensation at low fluid temperatures.

FAN MOTOR & ASSEMBLY

The fan shall be direct drive centrifugal forward curved type with a dynamically balanced wheel. The housing and wheel shall be designed for quiet low velocity operation. The fan housing shall be removable from the unit without disconnecting the supply air ductwork for servicing of the fan motor. The fan motor shall be an ICM-2

microprocessor controlled DC type motor with internal programming factory set for the specific unit and featuring soft start/stop and a delay off feature for maximum efficiency and quiet operation. There will further be provisions for adjusting the air delivery of the motor and blower by +/- 15% from rated air flow. The motor and blower combination shall be adequately designed to provide rated air flow at up to 1.2 inches of water column external static pressure

ELECTRICAL

Controls and safety devices will be factory wired and mounted within the unit. Controls shall include a solid state ICM motor interface board, compressor contactor, 24V transformer, reversing valve coil and a lock-out control circuit that includes a low pressure bypass timer.

The ICM motor interface board shall provide a screw type terminal block for thermostat connection, LED's to indicate thermostat status and air delivery. It shall also provide a means of changing the motor program to any of up to four pre-programmed options. Direct wiring of the motor control harness to the thermostat is not acceptable.

4 ton and larger units shall provide multiple stages of compressor operation with corresponding rates of air delivery for maximum comfort and efficiency. The electrical circuits in these units shall be field convertible to allow the installer to switch the lead and lag compressors, delay restart of the lead compressor in second stage operation or wire the unit for true 3 stage operation.

Safety devices include a low pressure cutout set a 20 PSIG for loss of charge protection (freezestat and/or high discharge gas temperature sensor is not acceptable), a high pressure cutout control set at 380 PSIG and a condensate overflow switch to stop compressor operation if drain pan overflow is eminent.

An optional energy management relay to allow unit control by an external source shall be factory installed.

PIPING

Supply, return water and condensate drain connections shall be brass female pipe thread fittings and mounted flush to cabinet exterior with optional stainless steel, Braided hose kit with swivel connectors.

AUXILIARY HEAT

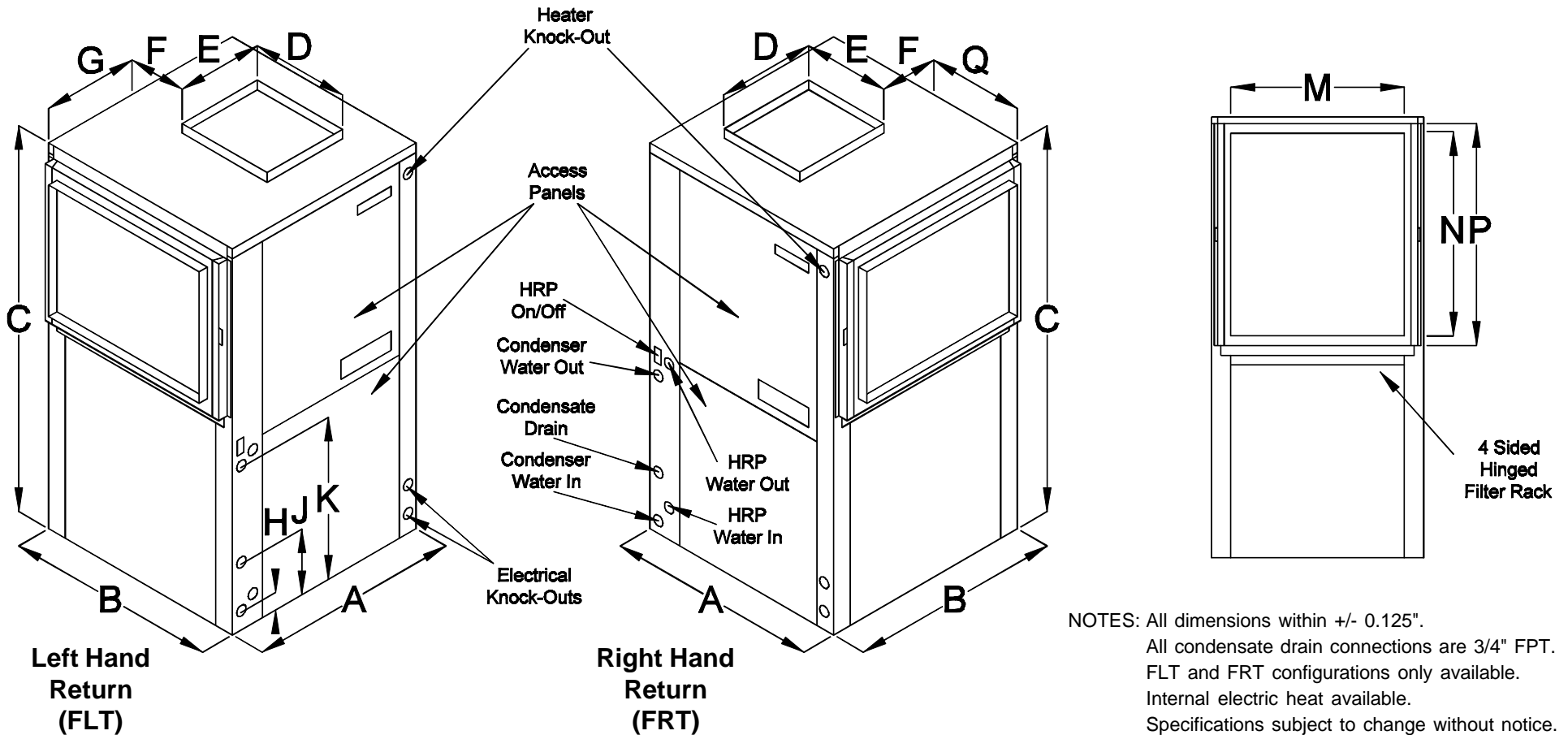
Units shall be equipped with optional factory installed internal electric resistance heat for auxiliary and emergency heat. Electric heater must be Underwriter's Laboratories (UL) approved for safety when installed in the unit. External heater packages or heater packages not specifically listed for use with the unit are unacceptable. Electric heater packages shall include a heater collar mounted to the blower outlet, individual thermal overload protected heater elements no greater than 5kW each and magnetic contactors. Heater packages shall have a separate power supply connection from the compressor and this power supply shall also power the unit blower motor and control transformer for safe operation.



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"GO" Series Vertical Dimensions

MODEL	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	Condenser Water Connections	Recommended Replacement Nominal Filter Size
	Width	Depth	Height								R/A Duct Flg Width	R/A Duct Flg Height	Filter Rack Height			
GO024	26.00	26.00	43.25	13.75	13.75	6.50	8.00	2.50	7.50	12.50	22.00	22.00	24.00	4.00	3/4" F.P.T.	24 X 24 X 1
GO030	26.00	26.00	43.25	13.75	13.75	6.50	8.00	2.50	9.75	13.75	22.00	22.00	24.00	4.00	3/4" F.P.T.	24 X 24 X 1
GO036	26.00	33.00	48.25	13.75	13.75	9.50	8.00	2.50	8.00	14.75	28.50	22.50	24.50	5.50	3/4" F.P.T.	24 X 30 X 1
GO042	26.00	33.00	53.25	16.75	16.75	8.00	7.75	2.50	8.00	14.75	28.50	26.00	28.00	1.50	1" F.P.T.	14 X 30 X 1 (2)
GO048	26.00	33.00	53.25	16.75	16.75	8.00	7.75	2.50	8.00	14.75	28.50	26.00	28.00	1.50	1" F.P.T.	14 X 30 X 1 (2)
GO060	26.00	33.00	58.25	16.75	16.75	8.00	7.75	3.00	8.00	15.00	28.50	29.50	31.25	1.50	1" F.P.T.	15 X 30 X 1 (2)
GO072	26.00	33.00	63.25	16.75	16.75	8.00	7.75	3.00	8.00	17.00	28.50	38.00	40.00	1.50	1" F.P.T.	20 X 30 X 1 (2)



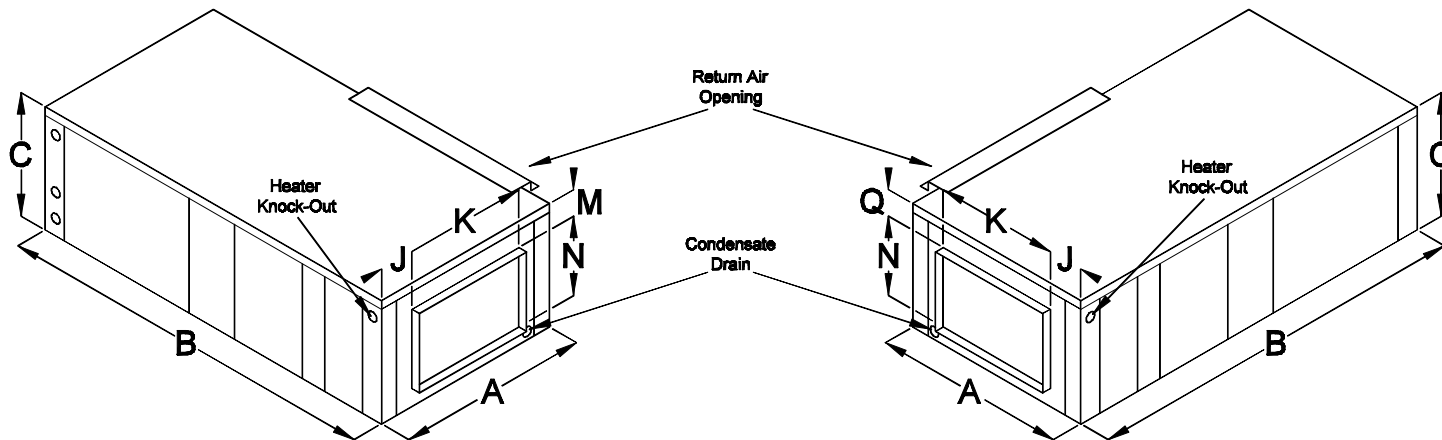
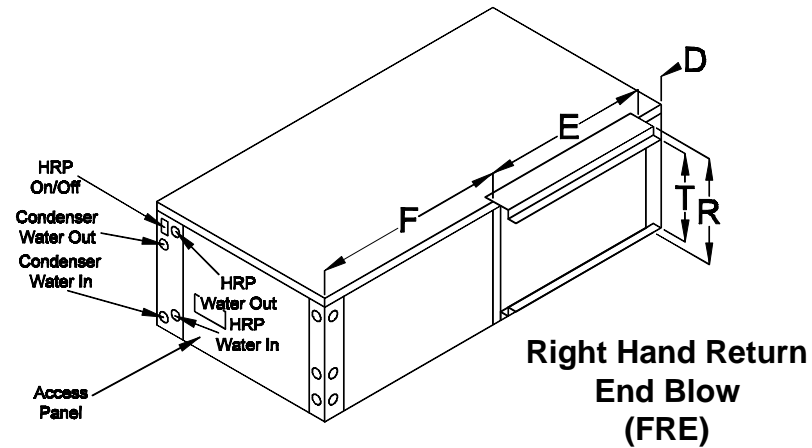
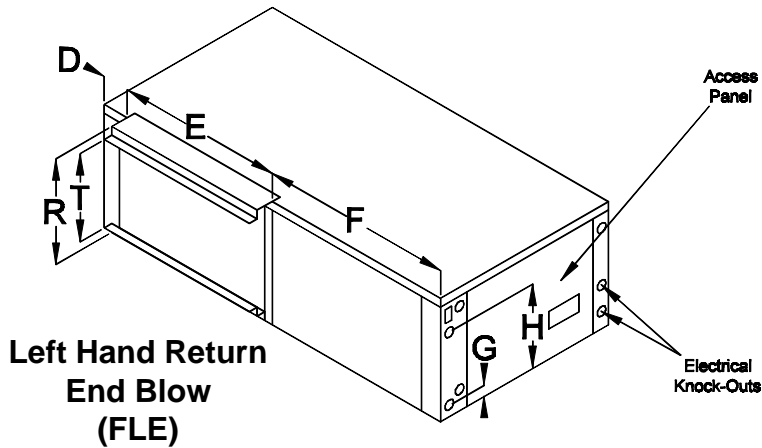
NOTES: All dimensions within +/- 0.125".
 All condensate drain connections are 3/4" FPT.
 FLT and FRT configurations only available.
 Internal electric heat available.
 Specifications subject to change without notice.



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"GO" Series Horizontal Dimensions

MODEL	A	B	C	D	E	F	G	H	J	K	M	N	Q	R	T	Condenser Water Connections	Recommended Replacement Nom. Filter Size
	Width	Depth	Height		R/A Duct Flg Width									Filter Rack Height	R/A Duct Flg Height		
GT010	26.00	56.00	19.00	2.00	30.00	24.00	2.50	12.75	6.00	13.75	3.25	13.75	1.75	18.00	16.00	3/4" F.P.T.	18 X 30 X 1
GT018	26.00	56.00	19.00	2.00	30.00	24.00	2.50	13.75	6.00	13.75	3.25	13.75	1.75	18.00	16.00	3/4" F.P.T.	18 X 30 X 1
GT022, 026	26.00	68.00	22.00	2.50	33.50	32.00	3.00	15.25	6.00	13.75	5.25	13.75	1.75	20.25	18.25	3/4" F.P.T.	18 X 20 X 1 (2)
GT030, 036	26.00	73.00	22.00	2.50	38.50	32.00	3.00	14.50	3.50	16.75	3.75	16.75	1.00	20.25	18.25	1" F.P.T.	20 X 20 X 1 (2)
GT042	26.00	73.00	22.00	2.50	38.50	32.00	3.00	14.50	3.50	16.75	3.75	16.75	1.00	20.25	18.25	1" F.P.T.	20 X 20 X 1 (2)
GT048	26.00	78.00	22.00	2.50	44.25	31.25	3.00	14.50	3.50	16.75	3.75	16.75	1.00	20.25	18.25	1" F.P.T.	20 X 24 X 1 (2)
GT054	26.00	89.00	22.00	2.50	55.25	31.25	3.50	17.50	3.50	16.75	3.75	16.75	1.00	20.25	18.25	1" F.P.T.	20 X 30 X 1 (2)



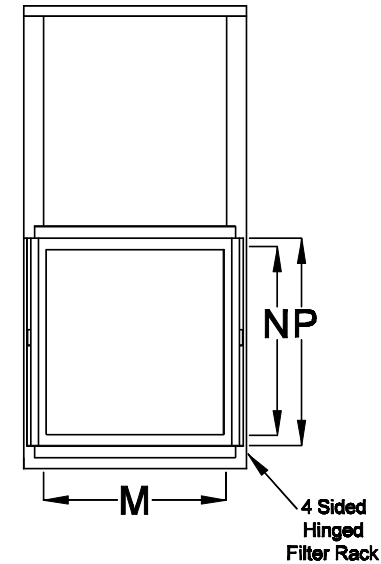
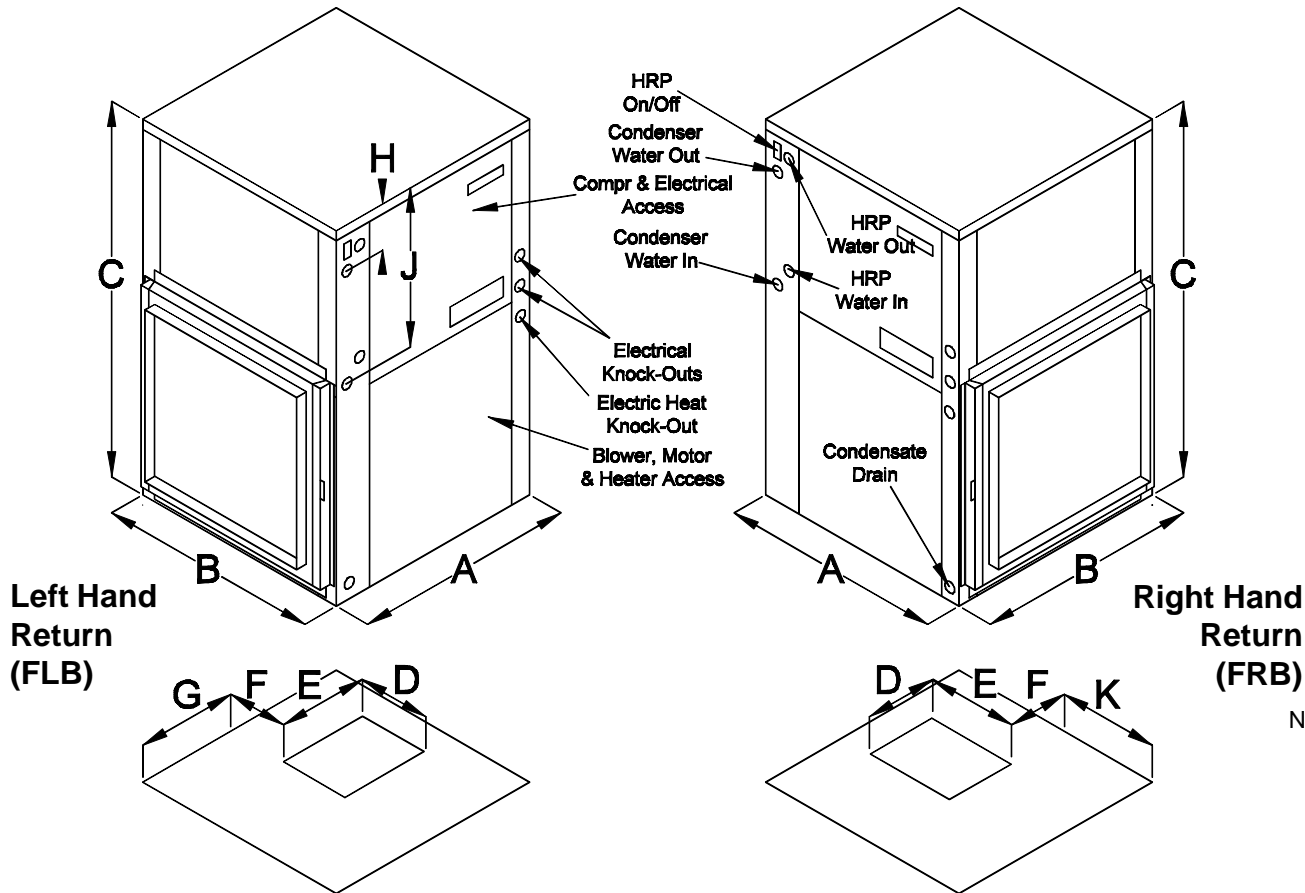
NOTES:
 All dimensions within +/- 0.125".
 All condensate drain connections are 3/4" FPT.
 FLE and FRE configurations only available.
 Internal electric heat available.
 Specifications subject to change without notice.



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"GO" Series Counterflow Dimensions

MODEL	A	B	C	D	E	F	G	H	J	K	M	N	P	Condenser Water Connections	Recommended Replacement Nominal Filter Size
	Width	Depth	Height	Blower Opening	Blower Opening						R/A Duct Flg Width	R/A Duct Flg Height	Filter Rack Height		
GO024	26.00	26.00	43.25	9.00	10.00	8.50	6.00	5.25	15.00	10.00	22.00	22.00	24.00	3/4" F.P.T.	24 X 24 X 1
GO030	26.00	26.00	43.25	9.00	10.00	8.50	6.00	3.75	15.00	10.00	22.00	22.00	24.00	3/4" F.P.T.	24 X 24 X 1
GO036	26.00	33.00	48.25	10.50	11.50	11.25	7.00	6.75	19.25	10.50	28.50	22.50	24.50	3/4" F.P.T.	24 X 30 X 1
GO042	26.00	33.00	53.25	12.75	13.50	9.75	4.50	8.75	20.25	11.00	28.50	26.00	28.00	1" F.P.T.	14 X 30 X 1 (2)
GO048	26.00	33.00	53.25	12.75	13.50	9.75	4.50	8.75	20.25	11.00	28.50	26.00	28.00	1" F.P.T.	14 X 30 X 1 (2)
GO060	26.00	33.00	58.25	12.75	13.50	9.75	4.50	10.00	21.50	11.00	28.50	29.50	31.25	1" F.P.T.	15 X 30 X 1 (2)



NOTES: All dimensions within +/- 0.125".
 All condensate drain connections are 3/4" FPT.
 FLB and FRB configurations only available.
 Internal electric heat available.
 GO072 not available in counterflow configuration.
 Specifications subject to change without notice.



GO-SERIES, 2 - 4 TONS

LOW TEMP HEATING PERFORMANCE

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS, GEO-THERMAL LINE

Model Number	Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
GO024 6.0 GPM 800 CFM	25°	60°	14948	10802	1215	3.6
		70°	14178	9954	1238	3.4
		80°	13273	8961	1264	3.1
	30°	60°	16315	12045	1251	3.8
		70°	15475	11125	1275	3.6
		80°	14488	10046	1302	3.3
	40°	60°	19071	14567	1320	4.2
		70°	18089	13500	1345	3.9
		80°	16935	12250	1373	3.6
GO030 7.0 GPM 1000 CFM	25°	60°	20114	14923	1521	3.9
		70°	19078	13789	1550	3.6
		80°	17861	12462	1582	3.3
	30°	60°	21674	16376	1553	4.1
		70°	20558	15160	1582	3.8
		80°	19246	13736	1615	3.5
	40°	60°	25075	19546	1620	4.5
		70°	23784	18151	1651	4.2
		80°	22266	16516	1685	3.9
GO036 9.0 GPM 1200 CFM	25°	60°	24384	17952	1885	3.8
		70°	23129	16575	1921	3.5
		80°	21653	14962	1961	3.2
	30°	60°	26212	19605	1936	4.0
		70°	24862	18130	1973	3.7
		80°	23276	16403	2014	3.4
	40°	60°	30105	23140	2041	4.3
		70°	28555	21458	2080	4.0
		80°	26733	19488	2123	3.7
GO042 10.0 GPM 1400 CFM	25°	60°	28273	20407	2305	3.6
		70°	26817	18802	2349	3.3
		80°	25106	16924	2398	3.1
	30°	60°	30653	22620	2355	3.8
		70°	29075	20890	2399	3.6
		80°	27220	18864	2449	3.3
	40°	60°	35480	27105	2455	4.2
		70°	33653	25120	2501	3.9
		80°	31506	22794	2553	3.6

Model Number	Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
GO048 High 12.0 GPM 1600 CFM	25°	60°	32132	23499	2530	3.7
		70°	30478	21682	2578	3.5
		80°	28533	19554	2632	3.2
	30°	60°	34726	25879	2593	3.9
		70°	32938	23923	2642	3.7
		80°	30836	21634	2697	3.4
	40°	60°	40065	30785	2720	4.3
		70°	38002	28547	2771	4.0
		80°	35577	25925	2829	3.7
GO048 Medium High 12.0 GPM 1600 CFM	25°	60°	22060	17020	1477	4.4
		70°	20924	15789	1505	4.1
		80°	19589	14347	1536	3.7
	30°	60°	23301	18137	1513	4.5
		70°	22101	16840	1542	4.2
		80°	20691	15320	1574	3.9
	40°	60°	26883	21465	1588	5.0
		70°	25499	19978	1618	4.6
		80°	23872	18236	1652	4.2
GO048 Medium Low 6.0 GPM 1100 CFM	25°	60°	17832	12702	1504	3.5
		70°	16914	11687	1532	3.2
		80°	15835	10498	1564	3.0
	30°	60°	19540	14356	1519	3.8
		70°	18534	13252	1548	3.5
		80°	17351	11959	1580	3.2
	40°	60°	22954	17673	1548	4.3
		70°	21772	16391	1577	4.0
		80°	20383	14890	1610	3.7
GO048 Low 6.0 GPM 1100 CFM	25°	60°	13717	9973	1097	3.7
		70°	13011	9196	1118	3.4
		80°	12181	8287	1141	3.1
	30°	60°	15031	11247	1109	4.0
		70°	14257	10401	1130	3.7
		80°	13347	9411	1154	3.4
	40°	60°	17656	13802	1130	4.6
		70°	16747	12820	1151	4.3
		80°	15678	11669	1175	3.9

Minimum entering fluid temperature with fresh water is 45°F (7.2°C). The above ratings are based on the use of a solution of 15% methanol and 85% water by weight. FHP recommends antifreeze protection to at least 20°F below the lowest entering fluid temperature. Coefficients of Performance do not include a pumping power penalty.

Note: Published fluid side pressure drop tables are based on 70° fresh water. When designing the system, pressure drop should be modified for antifreeze content and fluid temperature. FHP recommends adding 0.2% to the system pressure drop for every 1°F below 70°F in addition to any antifreeze correction factors.



GO-SERIES, 5 & 6 TONS

LOW TEMP HEATING PERFORMANCE

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS, GEO-THERMAL LINE

Model Number	Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
GO060 High 14.0 GPM 2000 CFM	25°	60°	37905	26020	3483	3.2
		70°	35953	23844	3549	3.0
		80°	33659	21297	3623	2.7
	30°	60°	40939	28877	3535	3.4
		70°	38831	26541	3602	3.2
		80°	36353	23807	3677	2.9
	40°	60°	47082	34688	3632	3.8
		70°	44658	32030	3701	3.5
		80°	41809	28917	3778	3.2
GO060 Medium High 14.0 GPM 2000 CFM	25°	60°	27366	20260	2083	3.9
		70°	25957	18717	2122	3.6
		80°	24301	16909	2166	3.3
	30°	60°	29557	22344	2114	4.1
		70°	28035	20686	2154	3.8
		80°	26246	18743	2199	3.5
	40°	60°	33992	26581	2172	4.6
		70°	32242	24691	2213	4.3
		80°	30185	22476	2259	3.9
GO060 Medium Low 8.0 GPM 1400 CFM	25°	60°	21873	14680	2108	3.0
		70°	20747	13418	2148	2.8
		80°	19423	11941	2193	2.6
	30°	60°	23954	16714	2122	3.3
		70°	22721	15344	2162	3.1
		80°	21271	13740	2207	2.8
	40°	60°	28121	20790	2148	3.8
		70°	26673	19204	2189	3.6
		80°	24971	17346	2235	3.3
GO060 Low 8.0 GPM 1400 CFM	25°	60°	15196	10612	1344	3.3
		70°	14414	9743	1369	3.1
		80°	13494	8726	1398	2.8
	30°	60°	16642	12027	1352	3.6
		70°	15785	11083	1378	3.4
		80°	14778	9978	1407	3.1
	40°	60°	19536	14864	1369	4.2
		70°	18530	13770	1395	3.9
		80°	17348	12489	1424	3.6

Model Number	Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
GO072 High 16.0 GPM 2200 CFM	25°	60°	44658	29214	4526	2.9
		70°	42359	26623	4612	2.7
		80°	39656	23592	4708	2.5
	30°	60°	48581	32759	4637	3.1
		70°	46080	29958	4725	2.9
		80°	43140	26681	4824	2.6
	40°	60°	56716	40100	4870	3.4
		70°	53796	36866	4962	3.2
		80°	50364	33080	5066	2.9
GO072 Medium High 16.0 GPM 2200 CFM	25°	60°	28570	19381	2693	3.1
		70°	27099	17736	2744	2.9
		80°	25370	15812	2801	2.7
	30°	60°	31080	21667	2759	3.3
		70°	29480	19889	2811	3.1
		80°	27599	17808	2870	2.8
	40°	60°	36285	26396	2898	3.7
		70°	34417	24341	2953	3.4
		80°	32221	21935	3015	3.1
GO072 Medium Low 10.0 GPM 1600 CFM	25°	60°	20523	11762	2567	2.3
		70°	19466	10540	2616	2.2
		80°	18224	9112	2671	2.0
	30°	60°	23150	14329	2585	2.6
		70°	21958	12971	2634	2.4
		80°	20557	11382	2689	2.2
	40°	60°	28221	19267	2624	3.2
		70°	26768	17644	2674	2.9
		80°	25060	15746	2730	2.7
GO072 Low 10.0 GPM 1600 CFM	25°	60°	19246	12378	2013	2.8
		70°	18255	11257	2051	2.6
		80°	17090	9946	2094	2.4
	30°	60°	21710	14795	2027	3.1
		70°	20592	13546	2065	2.9
		80°	19278	12085	2108	2.7
	40°	60°	26466	19447	2057	3.8
		70°	25103	17951	2096	3.5
		80°	23501	16200	2140	3.2

Minimum entering fluid temperature with fresh water is 45°F (7.2°C). The above ratings are based on the use of a solution of 15% methanol and 85% water by weight. FHP recommends antifreeze protection to at least 20°F below the lowest entering fluid temperature. Coefficients of Performance do not include a pumping power penalty.

Note: Published fluid side pressure drop tables are based on 70° fresh water. When designing the system, pressure drop should be modified for antifreeze content and fluid temperature. FHP recommends adding 0.2% to the system pressure drop for every 1°F below 70°F in addition to any antifreeze correction factors.



PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO024

GEO-MISER

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP		
208/230-1-60	-1	8.4	48.0	4.3	0.5	14.8	20

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
3.5	3	3/8	14
Blower Size	Weight		
	Net	Ship	
9x7	240	260	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					920						→
Norm	←					800						→
- Adjust	←					680						→

CONDENSER WATER FLOW

Water Flow (GPM)	Press. Drop (FOH)
3.0	2.9
4.0	5.1
5.0	8.0
6.0	11.5
7.0	15.7
8.0	20.4

ARI/CSA PERFORMANCE DATA

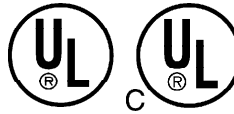
ARI 330/CSA-446 Certified					ARI 325 Certified								
Cooling		Heating		GPM	Hi-Temp Clg		Low-Temp Clg		High-Temp Htg		Low-Temp Htg		GPM
Capacity	EER	Capacity	COP		Capacity	EER	Capacity	EER	Capacity	COP	Capacity	COP	
26200	16.6	16000	3.3	6.0	26200	15.5	29200	20.3	26000	4.4	20200	3.7	3.0

CAPACITY DATA

All performance at 800 CFM and 6.0 GPM (ARI Rated)

COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	29707	1114	33510	22607	27123	29707	26.7
	64°	31148	1139	35034	21149	26849	29777	27.3
	67°	32612	1164	36584	19469	25437	29351	28.0
	70°	34101	1189	38158	16232	22438	29190	28.7
	73°	35614	1214	39757	-	19125	26212	29.3
60°	61°	28152	1222	32321	21424	25703	28152	23.0
	64°	29517	1249	33778	20042	25444	28218	23.6
	67°	30905	1276	35259	18450	24106	27815	24.2
	70°	32316	1303	36763	15382	21264	27662	24.8
	73°	33750	1331	38291	-	18124	24840	25.4
70°	61°	26254	1323	30769	19979	23970	26254	19.8
	64°	27527	1352	32141	18691	23728	26316	20.4
	67°	28821	1382	33536	17206	22480	25939	20.9
	70°	30137	1412	34953	14345	19830	25797	21.3
	73°	31474	1442	36393	-	16901	23165	21.8
85°	61°	22986	1475	28019	17492	20986	22986	15.6
	64°	24100	1508	29245	16364	20774	23039	16.0
	67°	25233	1541	30491	15064	19682	22710	16.4
	70°	26385	1574	31756	12559	17361	22585	16.8
	73°	27555	1608	33040	-	14797	20281	17.1
100°	61°	19840	1627	25390	15098	18114	19840	12.2
	64°	20802	1663	26475	14125	17931	19887	12.5
	67°	21780	1699	27577	13003	16988	19602	12.8
	70°	22774	1736	28696	10841	14985	19495	13.1
	73°	23785	1772	29832	-	12772	17506	13.4



HEATING EFT Range 25°F to 80°F

Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	22633	17875	1395	4.8
	70°	21468	16620	1421	4.4
	80°	20098	15149	1451	4.1
60°	60°	25847	20834	1469	5.2
	80°	22952	17737	1528	4.4
70°	60°	29131	23867	1543	5.5
	80°	27631	22267	1572	5.2
80°	60°	25868	20392	1605	4.7
	70°	32421	26903	1617	5.9
	80°	30752	25129	1648	5.5
		28790	23049	1682	5.0

Units are complete packages containing refrigeration compressor, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

FHP MANUFACTURING

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO030

GEO-MISER

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP		
208/230-1-60	-1	10.9	59.0	4.3	0.5	17.9	25
208/230-3-60	-3	8.7	58.0	4.3	0.5	15.2	20

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
3.5	3	3/8	14
Blower Size	Weight		
	Net	Ship	
9x7	250	270	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					1150						→
Norm	←					1000						→
- Adjust	←					850						→

CONDENSER WATER FLOW

Water Flow (GPM)	Press. Drop (FOH)
3.0	1.1
4.0	2.0
5.0	3.2
7.0	6.2
8.0	8.1
10.0	12.7

ARI/CSA PERFORMANCE DATA

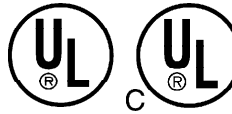
ARI 330/CSA-446 Certified					ARI 325 Certified								
Cooling		Heating		GPM	Hi-Temp Clg		Low-Temp Clg		High-Temp Htg		Low-Temp Htg		GPM
Capacity	EER	Capacity	COP		Capacity	EER	Capacity	EER	Capacity	COP	Capacity	COP	
31200	16.0	21200	3.5	7.0	31400	14.8	34800	19.2	34000	4.4	26400	3.8	4.0

CAPACITY DATA

All performance at 1000 CFM and 7.0 GPM (ARI Rated)

COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	34593	1360	39231	26325	31583	34593	25.4
	64°	36270	1390	41011	24627	31264	34674	26.1
	67°	37975	1420	42820	22671	29621	34178	26.7
	70°	39709	1451	44658	18901	26128	33990	27.4
	73°	41470	1481	46524	-	22270	30522	28.0
60°	61°	32903	1479	37950	25039	30040	32903	22.2
	64°	34498	1512	39657	23424	29737	32980	22.8
	67°	36120	1545	41392	21564	28174	32508	23.4
	70°	37769	1578	43154	17978	24852	32330	23.9
	73°	39445	1612	44944	-	21182	29031	24.5
70°	61°	31086	1625	36629	23656	28381	31086	19.1
	64°	32593	1661	38259	22130	28095	31159	19.6
	67°	34125	1697	39915	20373	26618	30713	20.1
	70°	35683	1734	41597	16985	23479	30544	20.6
	73°	37266	1770	43306	-	20012	27428	21.1
85°	61°	27950	1890	34400	21270	25518	27950	14.8
	64°	29305	1932	35898	19898	25261	28015	15.2
	67°	30683	1975	37419	18317	23932	27614	15.5
	70°	32083	2017	38965	15272	21111	27463	15.9
	73°	33507	2060	40534	-	17993	24661	16.3
100°	61°	25233	2103	32410	19202	23038	25233	12.0
	64°	26456	2150	33792	17964	22805	25292	12.3
	67°	27700	2197	35196	16537	21606	24930	12.6
	70°	28964	2244	36622	13787	19059	24794	12.9
	73°	30250	2292	38069	-	16244	22264	13.2



HEATING EFT Range 25°F to 80°F

Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	29237	23360	1722	5.0
	70°	27732	21744	1755	4.6
	80°	25963	19849	1792	4.2
60°	60°	33386	27151	1827	5.4
	80°	29647	23161	1901	4.6
70°	60°	37638	30967	1955	5.6
	80°	33422	26484	2034	4.8
80°	60°	41843	34871	2043	6.0
	70°	39689	32585	2082	5.6
	80°	37157	29905	2125	5.1

Units are complete packages containing refrigeration compressor, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO036

GEO-MISER

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP		
208/230-1-60	-1	14.8	69.0	4.3	0.5	22.8	35
208/230-3-60	-3	9.3	68.0	4.3	0.5	15.9	25

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
4.5	3	3/8	14
Blower Size	Weight		
	Net	Ship	
10x8	350	375	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					1380						→
Norm	←					1200						→
- Adjust	←					1020						→

CONDENSER WATER FLOW

Water Flow (GPM)	Press. Drop (FOH)
4.0	2.3
5.0	3.6
6.0	5.2
8.0	9.2
9.0	11.7
12.0	20.8

ARI/CSA PERFORMANCE DATA

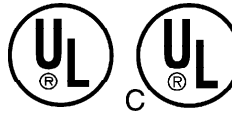
ARI 330/CSA-446 Certified					ARI 325 Certified								
Cooling		Heating		GPM	Hi-Temp Clg		Low-Temp Clg		High-Temp Htg		Low-Temp Htg		GPM
Capacity	EER	Capacity	COP		Capacity	EER	Capacity	EER	Capacity	COP	Capacity	COP	
39000	15.4	25600	3.4	9.0	38000	14.4	42500	19.2	41000	4.4	31600	3.7	5.0

CAPACITY DATA

All performance at 1200 CFM and 9.0 GPM (ARI Rated)

COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	42445	1670	48142	32301	38752	42445	25.4
	64°	44503	1707	50326	30217	38361	42544	26.1
	67°	46595	1744	52546	27817	36344	41936	26.7
	70°	48722	1782	54801	23192	32059	41706	27.3
	73°	50884	1819	57091	-	27325	37450	28.0
60°	61°	40196	1874	46589	30589	36699	40196	21.5
	64°	42144	1915	48679	28616	36329	40290	22.0
	67°	44126	1957	50803	26343	34418	39713	22.5
	70°	46140	1999	52961	21963	30360	39496	23.1
	73°	48187	2041	55153	-	25877	35466	23.6
70°	61°	37944	2078	45033	28875	34643	37944	18.3
	64°	39783	2124	47029	27013	34293	38033	18.7
	67°	41654	2170	49058	24867	32490	37489	19.2
	70°	43555	2217	51119	20732	28659	37283	19.6
	73°	45488	2264	53212	-	24427	33479	20.1
85°	61°	34297	2392	42457	26100	31313	34297	14.3
	64°	35959	2445	44300	24416	30997	34377	14.7
	67°	37650	2498	46173	22477	29367	33885	15.1
	70°	39369	2552	48075	18739	25905	33700	15.4
	73°	41115	2606	50006	-	22079	30261	15.8
100°	61°	30555	2703	39777	23253	27897	30555	11.3
	64°	32037	2763	41463	21753	27616	30627	11.6
	67°	33543	2823	43175	20025	26164	30189	11.9
	70°	35074	2884	44913	16695	23079	30024	12.2
	73°	36630	2945	46678	-	19671	26960	12.4



HEATING EFT Range 25°F to 80°F



Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	35118	27771	2153	4.8
	70°	33310	25824	2194	4.4
	80°	31185	23542	2240	4.1
60°	60°	40328	32589	2268	5.2
	80°	35811	27762	2359	4.4
70°	60°	45567	37440	2382	5.6
	70°	43221	34940	2427	5.2
80°	60°	40463	32009	2478	4.8
	80°	50869	42347	2498	6.0
80°	70°	48250	39566	2545	5.6
	80°	45171	36307	2598	5.1

Units are complete packages containing refrigeration compressor, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO042

GEO-MISER

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor		Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP		
208/230-1-60	-1	18.0	87.0	7.0	1.0	29.4	45
208/230-3-60	-3	14.1	110.0	7.0	1.0	24.6	35

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
5.25	3	3/8	14
Blower Size	Weight		
	Net	Ship	
12x9	390	415	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					1610						→
Norm	←					1400						→
- Adjust	←					1190						→

CONDENSER WATER FLOW

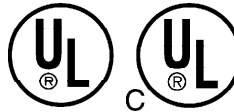
Water Flow (GPM)	Press. Drop (FOH)
5.0	1.8
6.0	2.6
7.0	3.5
10.0	7.1
12.0	10.2
14.0	14.0

ARI/CSA PERFORMANCE DATA

ARI 330/CSA-446 Certified					ARI 325 Certified								
Cooling		Heating		GPM	Hi-Temp Clg		Low-Temp Clg		High-Temp Htg		Low-Temp Htg		GPM
Capacity	EER	Capacity	COP		Capacity	EER	Capacity	EER	Capacity	COP	Capacity	COP	
45000	15.7	30000	3.4	10.0	45000	14.4	50000	19.3	47000	4.5	37000	3.7	5.0

CAPACITY DATA

All performance at 1400 CFM and 10.0 GPM (ARI Rated)



COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.	75°	80°	
50°	61°	50749	2022	57648	38620	46334	50749	25.1
	64°	53209	2067	60261	36129	45866	50868	25.7
	67°	55711	2112	62917	33259	43455	50140	26.4
	70°	58254	2157	65615	27729	38331	49866	27.0
	73°	60839	2203	68356	-	32670	44777	27.6
60°	61°	47847	2235	55471	36411	43684	47847	21.4
	64°	50166	2284	57960	34063	43243	47959	22.0
	67°	52525	2334	60489	31357	40970	47273	22.5
	70°	54923	2384	63058	26143	36139	47014	23.0
	73°	57360	2435	65667	-	30802	42217	23.6
70°	61°	44755	2446	53101	34059	40861	44755	18.3
	64°	46925	2500	55456	31862	40449	44860	18.8
	67°	49131	2555	57849	29331	38322	44218	19.2
	70°	51374	2610	60279	24454	33804	43976	19.7
	73°	53653	2665	62747	-	28812	39489	20.1
85°	61°	39857	2768	49301	30331	36389	39857	14.4
	64°	41789	2829	51443	28375	36022	39950	14.8
	67°	43754	2891	53618	26121	34128	39379	15.1
	70°	45751	2953	55828	21778	30104	39163	15.5
	73°	47781	3016	58071	-	25659	35167	15.8
100°	61°	35273	3089	45811	26843	32204	35273	11.4
	64°	36983	3157	47755	25112	31879	35356	11.7
	67°	38722	3226	49729	23117	30203	34850	12.0
	70°	40490	3295	51733	19273	26642	34659	12.3
	73°	42286	3365	53768	-	22708	31123	12.6

HEATING EFT Range 25°F to 80°F



Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	41352	32615	2561	4.7
	70°	39223	30321	2609	4.4
	80°	36720	27633	2663	4.0
60°	60°	46886	37824	2656	5.2
	80°	41635	32209	2763	4.4
70°	60°	52557	43187	2746	5.6
	80°	46670	36924	2856	4.8
80°	60°	58097	48433	2832	6.0
	70°	55106	45259	2886	5.6
	80°	51590	41537	2946	5.1

Units are complete packages containing refrigeration compressor, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO048

GEO-MISER, MULTI-STEP

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor			Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP			
		40%	7.1	48.0	7.0	1.0		
208/230-1-60	-1	60%	10.9	60.0			27.7	35

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
5.25	3	3/8	14
Blower Size	Weight		
	Net	Ship	
12x9	423	448	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					1840	→					
Norm	←					1600	→					
- Adjust	←					1360	→					

CONDENSER WATER FLOW

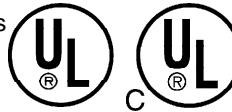
Water Flow (GPM)	Press. Drop (FOH)
6.0	2.6
8.0	4.6
10.0	7.1
12.0	10.2
14.0	14.0
16.0	18.3

ARI/CSA PERFORMANCE DATA

Load	ARI 330/CSA-446 Certified					ARI 325 Certified								
	Cooling		Heating		GPM	Hi-Temp Clg		Low-Temp Clg		High-Temp Htg		Low-Temp Htg		GPM
	Capacity	EER	Capacity	COP		Capacity	EER	Capacity	EER	Capacity	COP	Capacity	COP	
Full(100%)	49000	15.2	34000	3.4	12.0	49000	13.8	54000	18.2	52000	4.3	41500	3.7	6.0
Part(40%)	25800	22.2	17000	4.0	6.0	25000	18.0	27500	24.2	23500	5.0	18500	4.0	3.0

CAPACITY DATA, HIGH Both Compressors

All performance at 1600 CFM and 12.0 GPM (ARI Rated)



COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	54822	2289	62632	41719	50052	54822	23.9
	64°	57479	2340	65463	39029	49547	54950	24.6
	67°	60182	2391	68340	35929	46942	54164	25.2
	70°	62929	2442	71263	29954	41407	53867	25.8
	73°	65721	2494	74231	-	35292	48371	26.3
60°	61°	51856	2520	60454	39462	47344	51856	20.6
	64°	54370	2576	63158	36917	46867	51977	21.1
	67°	56926	2632	65906	33985	44402	51233	21.6
	70°	59525	2689	68698	28334	39167	50953	22.1
	73°	62166	2746	71534	-	33383	45754	22.6
70°	61°	48822	2749	58201	37154	44575	48822	17.8
	64°	51189	2810	60776	34757	44125	48937	18.2
	67°	53596	2871	63392	31997	41805	48236	18.7
	70°	56043	2933	66049	26676	36876	47972	19.1
	73°	58529	2995	68748	-	31430	43077	19.5
85°	61°	43728	3101	54308	33277	39924	43728	14.1
	64°	45848	3169	56662	31131	39521	43831	14.5
	67°	48004	3239	59054	28658	37443	43204	14.8
	70°	50195	3308	61483	23893	33029	42967	15.2
	73°	52422	3378	63949	-	28151	38583	15.5
100°	61°	39417	3525	51445	29996	35988	39417	11.2
	64°	41328	3603	53622	28062	35625	39509	11.5
	67°	43271	3682	55834	25833	33751	38944	11.8
	70°	45246	3761	58079	21537	29772	38731	12.0
	73°	47254	3841	60359	-	25375	34779	12.3

HEATING EFT Range 25°F to 80°F



Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	46554	36843	2846	4.8
	70°	44157	34262	2900	4.5
	80°	41340	31238	2961	4.1
60°	60°	52384	42237	2974	5.2
	80°	49687	39349	3030	4.8
70°	60°	58267	47688	3100	5.5
	80°	55267	44488	3159	5.1
80°	60°	51741	40737	3225	4.7
	70°	63784	52767	3229	5.8
	80°	60500	49275	3290	5.4
		56640	45180	3359	4.9

Units are complete packages containing refrigeration compressors, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO048

GEO-MISER, MULTI-STEP

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor			Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP			
		40%	7.1	48.0	7.0	1.0		
208/230-1-60	-1	60%	10.9	60.0			27.7	35

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
5.25	3	3/8	14
Blower Size	Weight		
	Net	Ship	
12x9	423	448	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					1840	→					
Norm	←					1600	→					
- Adjust	←					1360	→					

CONDENSER WATER FLOW

Water Flow (GPM)	Press. Drop (FOH)
6.0	2.6
8.0	4.6
10.0	7.1
12.0	10.2
14.0	14.0
16.0	18.3

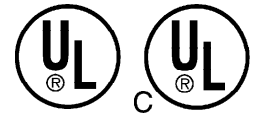
CAPACITY DATA, MEDIUM HIGH 60% Compressor, Full Speed Air

All performance at 1600 CFM and 12.0 GPM

COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	37881	1259	42177	31047	37249	37881	30.1
	64°	39718	1287	44108	29045	36873	39718	30.9
	67°	41585	1315	46072	26738	34934	40308	31.6
	70°	43483	1343	48067	22292	30815	40088	32.4
	73°	45413	1372	50093	-	26264	35997	33.1
60°	61°	35832	1385	40559	29368	35234	35832	25.9
	64°	37570	1416	42401	27474	34879	37570	26.5
	67°	39336	1447	44273	25292	33045	38128	27.2
	70°	41132	1478	46175	21086	29149	37920	27.8
	73°	42957	1509	48107	-	24844	34050	28.5
70°	61°	33736	1512	38894	27650	33173	33736	22.3
	64°	35372	1545	40644	25867	32838	35372	22.9
	67°	37035	1579	42423	23812	31112	35898	23.5
	70°	38726	1613	44229	19853	27444	35702	24.0
	73°	40444	1647	46064	-	23391	32059	24.6
85°	61°	30216	1705	36032	24765	29711	30216	17.7
	64°	31681	1742	37626	23168	29412	31681	18.2
	67°	33171	1781	39246	21328	27865	32152	18.6
	70°	34685	1819	40890	17781	24580	31976	19.1
	73°	36224	1857	42561	-	20950	28713	19.5
100°	61°	27237	1939	33852	22323	26782	27237	14.0
	64°	28557	1982	35319	20883	26512	28557	14.4
	67°	29900	2025	36809	19225	25118	28982	14.8
	70°	31265	2069	38323	16028	22156	28823	15.1
	73°	32652	2112	39860	-	18884	25882	15.5

HEATING EFT Range 25°F to 80°F



Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	31238	25569	1662	5.5
	70°	29630	23853	1693	5.1
	80°	27739	21842	1728	4.7
60°	60°	35150	29226	1736	5.9
	80°	31213	25051	1806	5.1
70°	60°	39097	32919	1811	6.3
	70°	37084	30789	1845	5.9
80°	80°	34718	28291	1884	5.4
	60°	42800	36367	1885	6.7
	70°	40596	34042	1921	6.2
	80°	38006	31314	1961	5.7

Units are complete packages containing refrigeration compressors, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO048

GEO-MISER, MULTI-STEP

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor			Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP			
208/230-1-60	-1	40%	7.1	48.0	7.0	1.0	27.7	35
		60%	10.9	60.0				

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
5.25	3	3/8	14
Blower Size	Weight		
	Net	Ship	
12x9	423	448	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					1265	→					
Norm	←					1100	→					
- Adjust	←					935	→					

CONDENSER WATER FLOW

Water Flow (GPM)	Press. Drop (FOH)
3.0	0.6
4.0	1.1
6.0	2.6
8.0	4.6
10.0	7.1
12.0	10.2

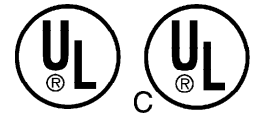
CAPACITY DATA, MEDIUM LOW 60% Compressor, Low Speed Air

All performance at 1100 CFM and 6.0 GPM

COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					75°	80°	85°	
50°	61°	34622	1170	38614	25662	30788	34622	29.6
	64°	36300	1196	40381	24007	30477	33801	30.4
	67°	38007	1222	42176	22100	28875	33317	31.1
	70°	39742	1248	44001	18425	25470	33135	31.8
	73°	41505	1275	45855	-	21709	29754	32.6
60°	61°	32568	1313	37046	24140	28961	32568	24.8
	64°	34147	1342	38724	22583	28669	31795	25.5
	67°	35752	1371	40430	20789	27162	31340	26.1
	70°	37384	1400	42163	17332	23959	31169	26.7
	73°	39043	1430	43922	-	20421	27988	27.3
70°	61°	30512	1454	35474	22616	27133	30512	21.0
	64°	31991	1487	37063	21157	26859	29788	21.5
	67°	33495	1519	38678	19477	25447	29362	22.1
	70°	35024	1552	40318	16238	22447	29201	22.6
	73°	36578	1585	41984	-	19132	26221	23.1
85°	61°	27418	1667	33105	20322	24382	27418	16.4
	64°	28747	1704	34560	19012	24136	26768	16.9
	67°	30099	1741	36039	17502	22866	26384	17.3
	70°	31472	1778	37541	14591	20170	26240	17.7
	73°	32869	1816	39066	-	17192	23562	18.1
100°	61°	24323	1886	30758	18028	21629	24323	12.9
	64°	25502	1928	32080	16866	21411	23746	13.2
	67°	26701	1970	33423	15526	20285	23406	13.6
	70°	27920	2012	34786	12944	17894	23278	13.9
	73°	29159	2055	36170	-	15251	20903	14.2

HEATING EFT Range 25°F to 80°F



Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	26948	21564	1578	5.0
	70°	25561	20075	1608	4.7
	80°	23930	18329	1642	4.3
60°	60°	30592	25110	1607	5.6
	80°	27166	21463	1671	4.8
70°	60°	34231	28673	1629	6.2
	80°	30397	24615	1695	5.3
80°	60°	37906	32253	1657	6.7
	70°	35954	30195	1688	6.2
	80°	33660	27780	1723	5.7

Units are complete packages containing refrigeration compressors, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO048

GEO-MISER, MULTI-STEP

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor			Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP			
		40%	7.1	48.0	7.0	1.0		
208/230-1-60	-1	60%	10.9	60.0			27.7	35

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
5.25	3	3/8	14
Blower Size	Weight		
	Net	Ship	
12x9	423	448	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					1265	→					
Norm	←					1100	→					
- Adjust	←					935	→					

CONDENSER WATER FLOW

Water Flow (GPM)	Press. Drop (FOH)
3.0	0.6
4.0	1.1
6.0	2.6
8.0	4.6
10.0	7.1
12.0	10.2

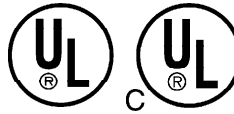
ARI/CSA PERFORMANCE DATA

Load	ARI 330/CSA-446 Certified					ARI 325 Certified								
	Cooling		Heating		GPM	Hi-Temp Clg		Low-Temp Clg		High-Temp Htg		Low-Temp Htg		GPM
	Capacity	EER	Capacity	COP		Capacity	EER	Capacity	EER	Capacity	COP	Capacity	COP	
Full(100%)	49000	15.2	34000	3.4	12.0	49000	13.8	54000	18.2	52000	4.3	41500	3.7	6.0
Part(40%)	25800	22.2	17000	4.0	6.0	25000	18.0	27500	24.2	23500	5.0	18500	4.0	3.0

CAPACITY DATA, LOW 40% Compressor

All performance at 1100 CFM and 6.0 GPM (ARI Rated)

COOLING EFT Range 45°F to 110°F



Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	27921	836	30773	22332	26792	27921	33.4
	64°	29275	854	32190	20891	26522	29275	34.3
	67°	30651	873	33630	19232	25127	28993	35.1
	70°	32050	892	35093	16034	22165	28834	35.9
	73°	33472	911	36579	-	18891	25892	36.8
60°	61°	26264	937	29462	21006	25202	26264	28.0
	64°	27537	958	30806	19651	24948	27537	28.7
	67°	28832	979	32172	18091	23636	27272	29.5
	70°	30148	1000	33560	15082	20849	27123	30.1
	73°	31486	1021	34970	-	17770	24355	30.8
70°	61°	24606	1039	28150	19680	23611	24606	23.7
	64°	25799	1062	29422	18411	23373	25799	24.3
	67°	27012	1085	30714	16949	22144	25551	24.9
	70°	28245	1108	32027	14130	19533	25411	25.5
	73°	29498	1132	33360	-	16648	22818	26.1
85°	61°	22111	1191	26175	17685	21217	22111	18.6
	64°	23183	1217	27337	16544	21003	23183	19.0
	67°	24273	1244	28518	15230	19899	22960	19.5
	70°	25381	1271	29717	12698	17552	22834	20.0
	73°	26507	1298	30935	-	14960	20504	20.4
100°	61°	19615	1347	24211	15688	18822	19615	14.6
	64°	20566	1377	25264	14677	18632	20566	14.9
	67°	21533	1407	26334	13511	17652	20368	15.3
	70°	22516	1437	27420	11264	15571	20257	15.7
	73°	23515	1468	28523	-	13272	18190	16.0

HEATING EFT Range 25°F to 80°F



Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	20729	16798	1152	5.3
	70°	19662	15656	1174	4.9
	80°	18407	14318	1199	4.5
60°	60°	23533	19531	1173	5.9
	70°	22321	18244	1195	5.5
70°	60°	26332	22273	1190	6.5
	70°	24976	20841	1212	6.0
80°	60°	23382	19161	1237	5.5
	60°	29057	24931	1209	7.0
	70°	27561	23357	1232	6.6
	80°	25802	21511	1258	6.0

Units are complete packages containing refrigeration compressors, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO060

GEO-MISER, MULTI-STEP

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor			Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP			
		40%	8.3	48.0	7.0	1.0		
208/230-1-60	-1	60%	13.5	68.0			32.2	45

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
6.0	3	3/8	14
Blower Size	Weight		
	Net	Ship	
12x9	454	479	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					2200	→					
Norm	←					2000	→					
- Adjust	←					1700	→					

CONDENSER WATER FLOW

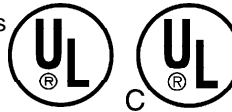
Water Flow (GPM)	Press. Drop (FOH)
7.0	2.3
8.0	3.1
11.0	5.8
14.0	9.4
17.0	13.8
20.0	19.1

ARI/CSA PERFORMANCE DATA

Load	ARI 330/CSA-446 Certified					ARI 325 Certified								
	Cooling		Heating		GPM	Hi-Temp Clg		Low-Temp Clg		High-Temp Htg		Low-Temp Htg		GPM
	Capacity	EER	Capacity	COP		Capacity	EER	Capacity	EER	Capacity	COP	Capacity	COP	
Full(100%)	59000	13.2	40000	3.0	14.0	60000	13.8	65000	16.6	62000	4.0	49000	3.4	8.0
Part(40%)	31000	21.8	18500	3.6	8.0	30000	18.0	32000	22.0	28000	4.7	21500	3.6	5.0

CAPACITY DATA, HIGH Both Compressors

All performance at 2000 CFM and 14.0 GPM (ARI Rated)



COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	64925	3065	75381	49408	59276	64925	21.2
	64°	68072	3133	78761	46221	58678	65077	21.7
	67°	71273	3201	82195	42550	55593	64146	22.3
	70°	74527	3270	85683	35475	49038	63795	22.8
	73°	77833	3339	89226	-	41796	57285	23.3
60°	61°	61772	3327	73124	47009	56398	61772	18.6
	64°	64767	3401	76370	43977	55829	61917	19.0
	67°	67812	3475	79669	40484	52893	61031	19.5
	70°	70908	3550	83019	33752	46657	60697	20.0
	73°	74054	3625	86422	-	39767	54503	20.4
70°	61°	58366	3602	70655	44417	53288	58366	16.2
	64°	61196	3682	73757	41552	52751	58503	16.6
	67°	64073	3762	76909	38252	49977	57666	17.0
	70°	66998	3843	80110	31891	44085	57350	17.4
	73°	69970	3924	83360	-	37574	51498	17.8
85°	61°	51256	4098	65239	39006	46797	51256	12.5
	64°	53741	4189	68034	36490	46325	51377	12.8
	67°	56268	4281	70873	33592	43889	50641	13.1
	70°	58837	4373	73756	28006	38714	50364	13.5
	73°	61447	4465	76682	-	32997	45225	13.8
100°	61°	45142	4521	60567	34353	41215	45142	10.0
	64°	47331	4621	63098	32138	40799	45248	10.2
	67°	49556	4722	65667	29585	38654	44600	10.5
	70°	51818	4824	68276	24665	34096	44356	10.7
	73°	54117	4926	70924	-	29061	39830	11.0

HEATING EFT Range 25°F to 80°F

Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	54468	41737	3731	4.3
	70°	51664	38692	3802	4.0
	80°	48368	35124	3881	3.7
60°	60°	61500	48430	3831	4.7
	80°	54612	41017	3985	4.0
70°	60°	68699	55361	3909	5.2
	80°	61004	47131	4066	4.4
80°	60°	75682	62079	3987	5.6
	70°	71785	57925	4062	5.2
	80°	67205	53056	4147	4.7

Units are complete packages containing refrigeration compressors, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

FHP MANUFACTURING

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO060

GEO-MISER, MULTI-STEP

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor			Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP			
						40%		
208/230-1-60	-1	60%	13.5	68.0			32.2	45

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
6.0	3	3/8	14
Blower Size	Weight		
	Net	Ship	
12x9	454	479	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					2200	→					
Norm	←					2000	→					
- Adjust	←					1700	→					

CONDENSER WATER FLOW

Water Flow (GPM)	Press. Drop (FOH)
7.0	2.3
8.0	3.1
11.0	5.8
14.0	9.4
17.0	13.8
20.0	19.1

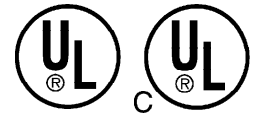
CAPACITY DATA, MEDIUM HIGH 60% Compressor, Full Speed Air

All performance at 2000 CFM and 14.0 GPM

COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	47488	1535	52724	38921	46695	47488	30.9
	64°	49790	1569	55143	36411	46224	49790	31.7
	67°	52131	1603	57600	33519	43793	50531	32.5
	70°	54511	1637	60098	27945	38630	50254	33.3
	73°	56929	1672	62635	-	32925	45126	34.0
60°	61°	45183	1667	50870	37032	44429	45183	27.1
	64°	47374	1704	53187	34644	43980	47374	27.8
	67°	49601	1741	55541	31892	41668	48078	28.5
	70°	51865	1778	57933	26589	36755	47815	29.2
	73°	54166	1816	60363	-	31327	42936	29.8
70°	61°	42691	1804	48845	34989	41978	42691	23.7
	64°	44760	1844	51051	32733	41554	44760	24.3
	67°	46865	1884	53293	30133	39369	45426	24.9
	70°	49004	1925	55571	25122	34728	45178	25.5
	73°	51179	1965	57884	-	29599	40568	26.0
85°	61°	37491	2053	44495	30727	36865	37491	18.3
	64°	39308	2098	46467	28746	36493	39308	18.7
	67°	41157	2144	48472	26462	34574	39893	19.2
	70°	43035	2190	50508	22062	30498	39675	19.6
	73°	44945	2237	52576	-	25994	35626	20.1
100°	61°	33019	2264	40744	27062	32467	33019	14.6
	64°	34619	2314	42516	25316	32140	34619	15.0
	67°	36247	2365	44316	23306	30450	35134	15.3
	70°	37902	2416	46145	19430	26860	34942	15.7
	73°	39583	2467	48001	-	22893	31377	16.0

HEATING EFT Range 25°F to 80°F



Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	39325	31710	2232	5.2
	70°	37300	29541	2274	4.8
	80°	34920	26999	2321	4.4
60°	60°	44402	36583	2292	5.7
	80°	39429	31295	2384	4.8
70°	60°	49599	41622	2338	6.2
	80°	47045	38918	2382	5.8
80°	60°	44043	35746	2432	5.3
	70°	54640	46506	2384	6.7
	80°	51827	43539	2429	6.3
		48520	40059	2480	5.7

Units are complete packages containing refrigeration compressors, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO060

GEO-MISER, MULTI-STEP

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor			Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP			
		40%	8.3	48.0	7.0	1.0		
208/230-1-60	-1	60%	13.5	68.0			32.2	45

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
6.0	3	3/8	14
Blower Size	Weight		
	Net	Ship	
12x9	454	479	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					1610	→					
Norm	←					1400	→					
- Adjust	←					1190	→					

CONDENSER WATER FLOW

Water Flow (GPM)	Press. Drop (FOH)
4.0	0.8
5.0	1.2
7.0	2.3
8.0	3.1
11.0	5.8
14.0	9.4

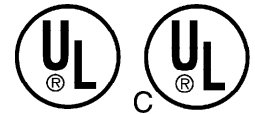
CAPACITY DATA, MEDIUM LOW 60% Compressor, Low Speed Air

All performance at 1400 CFM and 8.0 GPM

COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	42855	1600	48313	31765	38109	42855	26.8
	64°	44932	1635	50512	29716	37725	41839	27.5
	67°	47045	1671	52746	27356	35741	41240	28.2
	70°	49193	1707	55017	22807	31527	41014	28.8
	73°	51375	1743	57323	-	26871	36829	29.5
60°	61°	41018	1716	46872	30403	36476	41018	23.9
	64°	43007	1754	48991	28442	36108	40046	24.5
	67°	45029	1792	51143	26183	34209	39472	25.1
	70°	47085	1831	53330	21830	30176	39256	25.7
	73°	49174	1869	55552	-	25720	35251	26.3
70°	61°	38525	1863	44882	28555	34259	38525	20.7
	64°	40393	1904	46891	26714	33913	37612	21.2
	67°	42292	1946	48932	24592	32130	37073	21.7
	70°	44223	1988	51005	20503	28342	36870	22.2
	73°	46185	2030	53111	-	24156	33108	22.8
85°	61°	33833	2094	40977	25077	30086	33833	16.2
	64°	35473	2140	42776	23460	29783	33031	16.6
	67°	37141	2187	44603	21597	28217	32558	17.0
	70°	38836	2234	46459	18006	24890	32380	17.4
	73°	40560	2281	48344	-	21214	29076	17.8
100°	61°	29797	2326	37731	22086	26497	29797	12.8
	64°	31241	2377	39352	20661	26230	29090	13.1
	67°	32710	2429	40998	19020	24850	28674	13.5
	70°	34203	2481	42669	15857	21921	28517	13.8
	73°	35721	2534	44366	-	18683	25607	14.1

HEATING EFT Range 25°F to 80°F



Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	33748	26327	2175	4.5
	70°	32010	24449	2216	4.2
	80°	29968	22249	2262	3.9
60°	60°	38848	31337	2201	5.2
	70°	36848	29195	2243	4.8
70°	60°	44281	36676	2229	5.8
	70°	42001	34252	2271	5.4
80°	60°	39321	31411	2318	5.0
	60°	49699	42000	2256	6.5
	70°	47140	39296	2299	6.0
	80°	44132	36124	2347	5.5

Units are complete packages containing refrigeration compressors, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO060

GEO-MISER, MULTI-STEP

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor			Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP			
		40%	8.3	48.0	7.0	1.0		
208/230-1-60	-1	60%	13.5	68.0			32.2	45

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
6.0	3	3/8	14
Blower Size	Weight		
	Net	Ship	
12x9	454	479	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					1610	→					
Norm	←					1400	→					
- Adjust	←					1190	→					

CONDENSER WATER FLOW

Water Flow (GPM)	Press. Drop (FOH)
4.0	0.8
5.0	1.2
7.0	2.3
8.0	3.1
11.0	5.8
14.0	9.4

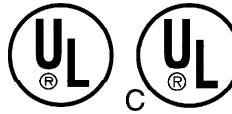
ARI/CSA PERFORMANCE DATA

Load	ARI 330/CSA-446 Certified					ARI 325 Certified								
	Cooling		Heating		GPM	Hi-Temp Clg		Low-Temp Clg		High-Temp Htg		Low-Temp Htg		GPM
	Capacity	EER	Capacity	COP		Capacity	EER	Capacity	EER	Capacity	COP	Capacity	COP	
Full(100%)	59000	13.2	40000	3.0	14.0	60000	13.8	65000	16.6	62000	4.0	49000	3.4	8.0
Part(40%)	31000	21.8	18500	3.6	8.0	30000	18.0	32000	22.0	28000	4.7	21500	3.6	5.0

CAPACITY DATA, LOW 40% Compressor

All performance at 1400 CFM and 8.0 GPM (ARI Rated)

COOLING EFT Range 45°F to 110°F



Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	32040	1048	35617	25626	30745	32040	30.6
	64°	33594	1072	37250	23973	30434	33594	31.3
	67°	35173	1095	38909	22069	28834	33270	32.1
	70°	36779	1119	40595	18399	25435	33088	32.9
	73°	38410	1142	42308	-	21678	29712	33.6
60°	61°	30667	1124	34502	24527	29426	30667	27.3
	64°	32153	1149	36073	22945	29130	32153	28.0
	67°	33665	1174	37671	21123	27598	31844	28.7
	70°	35202	1199	39294	17611	24344	31669	29.4
	73°	36764	1225	40942	-	20749	28438	30.0
70°	61°	28803	1221	32968	23037	27638	28803	23.6
	64°	30199	1248	34456	21551	27359	30199	24.2
	67°	31619	1275	35969	19839	25921	29908	24.8
	70°	33062	1302	37506	16540	22865	29745	25.4
	73°	34529	1330	39067	-	19488	26710	26.0
85°	61°	25295	1372	29976	20231	24272	25295	18.4
	64°	26521	1402	31306	18926	24027	26521	18.9
	67°	27768	1433	32657	17423	22764	26266	19.4
	70°	29036	1464	34030	14526	20080	26122	19.8
	73°	30324	1495	35424	-	17114	23457	20.3
100°	61°	22277	1523	27474	17817	21376	22277	14.6
	64°	23357	1557	28669	16668	21160	23357	15.0
	67°	24455	1591	29883	15344	20048	23132	15.4
	70°	25571	1625	31117	12793	17684	23005	15.7
	73°	26706	1660	32369	-	15072	20658	16.1

HEATING EFT Range 25°F to 80°F



Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	23509	18781	1386	5.0
	70°	22299	17481	1412	4.6
	80°	20876	15958	1441	4.2
60°	60°	26990	22204	1403	5.6
	80°	23967	18989	1459	4.8
70°	60°	30764	25918	1420	6.3
	80°	27318	22278	1477	5.4
80°	60°	34528	29622	1438	7.0
	70°	32750	27751	1465	6.6
	80°	30660	25557	1496	6.0

Units are complete packages containing refrigeration compressors, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO072

GEO-MISER, MULTI-STEP

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor			Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP			
		208/230-1-60	-1	40%	13.5	75.0		
		60%	17.3	94.0				

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
7.5	3	3/8	14
Blower Size	Weight		
	Net	Ship	
12x9	501	526	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					2200	→					
Norm	←					2200	→					
- Adjust	←					1870	→					

CONDENSER WATER FLOW

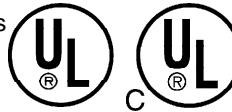
Water Flow (GPM)	Press. Drop (FOH)
7.0	2.2
10.0	4.4
13.0	7.5
16.0	11.3
20.0	17.6
24.0	25.4

ARI/CSA PERFORMANCE DATA

Load	ARI 330/CSA-446 Certified					ARI 325 Certified								
	Cooling		Heating		GPM	Hi-Temp Clg		Low-Temp Clg		High-Temp Htg		Low-Temp Htg		GPM
	Capacity	EER	Capacity	COP		Capacity	EER	Capacity	EER	Capacity	COP	Capacity	COP	
Full(100%)	70000	11.9	47000	2.8	16.0	74000	11.8	80000	14.5	72000	3.3	60000	3.0	10.0
Part(40%)	41000	19.3	25000	3.3	10.0	41000	16.5	43000	19.7	38000	4.2	30000	3.3	7.0

CAPACITY DATA, HIGH Both Compressors

All performance at 2200 CFM and 16.0 GPM (ARI Rated)



COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	78424	4401	93441	59681	71601	78424	17.8
	64°	82226	4499	97576	55831	70879	78608	18.3
	67°	86092	4597	101777	51397	67152	77483	18.7
	70°	90022	4696	106044	42850	59234	77059	19.2
	73°	94016	4795	110378	-	50487	69196	19.6
60°	61°	74333	4685	90317	56567	67866	74333	15.9
	64°	77937	4788	94275	52919	67181	74507	16.3
	67°	81601	4893	98296	48716	63649	73441	16.7
	70°	85326	4998	102380	40615	56145	73039	17.1
	73°	89112	5104	106527	-	47853	65586	17.5
70°	61°	69743	5069	87040	53074	63675	69743	13.8
	64°	73124	5182	90804	49651	63033	69906	14.1
	67°	76562	5295	94629	45708	59718	68906	14.5
	70°	80057	5409	98512	38107	52677	68529	14.8
	73°	83609	5524	102455	-	44898	61536	15.1
85°	61°	62329	5791	82089	47432	56906	62329	10.8
	64°	65350	5920	85549	44373	56332	62475	11.0
	67°	68423	6049	89062	40849	53370	61581	11.3
	70°	71546	6179	92630	34056	47078	61244	11.6
	73°	74721	6310	96251	-	40125	54995	11.8
100°	61°	55495	6519	77738	42232	50667	55495	8.5
	64°	58185	6664	80921	39508	50156	55625	8.7
	67°	60921	6809	84153	36370	47518	54829	8.9
	70°	63702	6955	87434	30322	41916	54529	9.2
	73°	66528	7103	90763	-	35726	48965	9.4

HEATING EFT Range 25°F to 80°F

Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	65506	48122	5095	3.8
	70°	62133	44421	5191	3.5
	80°	58169	40087	5299	3.2
60°	60°	72484	54223	5352	4.0
	80°	64365	45371	5567	3.4
70°	60°	79112	59937	5620	4.1
	80°	70251	50306	5846	3.5
80°	60°	85568	65472	5890	4.3
	70°	81162	60687	6001	4.0
	80°	75984	55080	6126	3.6

Units are complete packages containing refrigeration compressors, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO072

GEO-MISER, MULTI-STEP

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor			Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP			
		208/230-1-60	-1	40%	13.5	75.0		
		60%	17.3	94.0				

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
7.5	3	3/8	14
Blower Size	Weight		
	Net	Ship	
12x9	501	526	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					2200	→					
Norm	←					2200	→					
- Adjust	←					1870	→					

CONDENSER WATER FLOW

Water Flow (GPM)	Press. Drop (FOH)
7.0	2.2
10.0	4.4
13.0	7.5
16.0	11.3
20.0	17.6
24.0	25.4

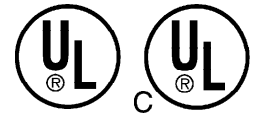
CAPACITY DATA, MEDIUM HIGH 60% Compressor, Full Speed Air

All performance at 2200 CFM and 16.0 GPM

COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	51438	2179	58873	42158	50579	51438	23.6
	64°	53931	2227	61531	39439	50068	53931	24.2
	67°	56467	2276	64233	36307	47436	54733	24.8
	70°	59045	2325	66977	30269	41843	54434	25.4
	73°	61664	2374	69765	-	35664	48880	26.0
60°	61°	48755	2319	56667	39959	47941	48755	21.0
	64°	51119	2370	59206	37382	47457	51119	21.6
	67°	53522	2422	61786	34413	44962	51879	22.1
	70°	55965	2474	64407	28691	39661	51595	22.6
	73°	58448	2527	67069	-	33803	46330	23.1
70°	61°	45744	2509	54306	37492	44980	45744	18.2
	64°	47962	2565	56714	35074	44527	47962	18.7
	67°	50217	2621	59160	32288	42185	48675	19.2
	70°	52509	2677	61645	26919	37212	48409	19.6
	73°	54839	2734	64168	-	31716	43469	20.1
85°	61°	40882	2868	50667	33507	40199	40882	14.3
	64°	42864	2931	52866	31345	39794	42864	14.6
	67°	44879	2996	55100	28856	37701	43501	15.0
	70°	46928	3060	57368	24058	33256	43263	15.3
	73°	49010	3125	59672	-	28345	38849	15.7
100°	61°	36399	3226	47408	29833	35791	36399	11.3
	64°	38164	3298	49416	27908	35430	38164	11.6
	67°	39958	3370	51456	25692	33567	38731	11.9
	70°	41782	3442	53528	21420	29610	38519	12.1
	73°	43636	3515	55631	-	25237	34589	12.4

HEATING EFT Range 25°F to 80°F



Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	41908	31563	3032	4.1
	70°	39750	29210	3089	3.8
	80°	37214	26454	3154	3.5
60°	60°	46373	35506	3185	4.3
	80°	41179	29875	3313	3.6
70°	60°	50613	39204	3344	4.4
	80°	44944	33076	3478	3.8
80°	60°	54744	42785	3505	4.6
	70°	51925	39741	3571	4.3
	80°	48612	36173	3646	3.9

Units are complete packages containing refrigeration compressors, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

FHP MANUFACTURING

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO072

GEO-MISER, MULTI-STEP

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor			Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP			
						40%		
208/230-1-60	-1	60%	17.3	94.0			42.1	50

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
7.5	3	3/8	14
Blower Size	Weight		
	Net	Ship	
12x9	501	526	

BLOWER PERFORMANCE

Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					1840	→					
Norm	←					1600	→					
- Adjust	←					1360	→					

CONDENSER WATER FLOW

Water Flow (GPM)	Press. Drop (FOH)
5.0	1.1
7.0	2.2
10.0	4.4
13.0	7.5
16.0	11.3
20.0	17.6

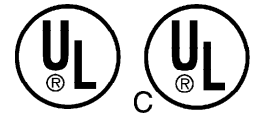
CAPACITY DATA, MEDIUM LOW 60% Compressor, Low Speed Air

All performance at 1600 CFM and 10.0 GPM

COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	46703	2057	53720	34617	41532	46703	22.7
	64°	48968	2102	56140	32385	41113	45596	23.3
	67°	51270	2148	58599	29812	38951	44943	23.9
	70°	53610	2194	61097	24855	34358	44697	24.4
	73°	55989	2241	63634	-	29284	40136	25.0
60°	61°	45425	2235	53050	33670	40395	45425	20.3
	64°	47628	2284	55421	31498	39988	44348	20.9
	67°	49867	2334	57831	28997	37885	43713	21.4
	70°	52143	2384	60278	24175	33418	43474	21.9
	73°	54457	2435	62764	-	28483	39038	22.4
70°	61°	43854	2418	52106	32505	38998	43854	18.1
	64°	45980	2472	54415	30409	38604	42814	18.6
	67°	48142	2526	56761	27994	36574	42201	19.1
	70°	50340	2580	59144	23339	32262	41970	19.5
	73°	52573	2635	61564	-	27498	37688	20.0
85°	61°	40967	2693	50156	30365	36430	40967	15.2
	64°	42953	2753	52346	28407	36063	39995	15.6
	67°	44973	2813	54570	26151	34167	39423	16.0
	70°	47025	2874	56830	21802	30138	39207	16.4
	73°	49112	2934	59124	-	25687	35207	16.7
100°	61°	38065	2960	48166	28214	33850	38065	12.9
	64°	39911	3026	50235	26395	33508	37162	13.2
	67°	41787	3092	52337	24298	31746	36630	13.5
	70°	43695	3159	54471	20258	28003	36430	13.8
	73°	45633	3225	56638	-	23868	32713	14.1

HEATING EFT Range 25°F to 80°F



Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	34236	25151	2663	3.8
	70°	32473	23216	2713	3.5
	80°	30401	20951	2770	3.2
60°	60°	39209	30000	2699	4.3
	80°	34817	25238	2807	3.6
70°	60°	44076	34727	2740	4.7
	80°	39140	29414	2850	4.0
80°	60°	49038	39551	2780	5.2
	70°	46513	36847	2833	4.8
	80°	43545	33677	2892	4.4

Units are complete packages containing refrigeration compressors, reversing valve, expansion valve metering device and insulated water to refrigerant heat exchanger. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out control circuit. Optional UL approved internal electric heater, factory installed with primary thermal overload protection and magnetic contactors. Minimum entering fluid temperature with fresh water is 45°F. For lower temperatures, FHP recommends antifreeze protection to at least 20°F below the lowest EFT.

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PACKAGE UNITS

SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

GO072

GEO-MISER, MULTI-STEP

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elect. Symbol	Compressor			Blower		Min. Circuit Ampacity	Max. Fuse Size
		RLA	LRA	NPA	HP			
		40%	13.5	75.0	7.0	1.0		
208/230-1-60	-1	60%	17.3	94.0			42.1	50

MECHANICAL SPECIFICATIONS

Evaporator			
Square Feet	Rows Deep	Tube Size (O.D.)	Fins Per Inch
7.5	3	3/8	14
Blower Size	Weight		
	Net	Ship	
12x9	501	526	

BLOWER PERFORMANCE

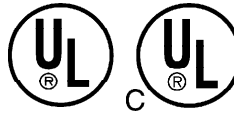
Available External Static Pressure (Inches of Water, Gauge. Wet coil and Filter Included)												
Speed Setting	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
+ Adjust	←					1840	→					
Norm	←					1600	→					
- Adjust	←					1360	→					

CONDENSER WATER FLOW

Water Flow (GPM)	Press. Drop (FOH)
5.0	1.1
7.0	2.2
10.0	4.4
13.0	7.5
16.0	11.3
20.0	17.6

ARI/CSA PERFORMANCE DATA

Load	ARI 330/CSA-446 Certified					ARI 325 Certified								
	Cooling		Heating		GPM	Hi-Temp Clg		Low-Temp Clg		High-Temp Htg		Low-Temp Htg		GPM
	Capacity	EER	Capacity	COP		Capacity	EER	Capacity	EER	Capacity	COP	Capacity	COP	
Full(100%)	70000	11.9	47000	2.8	16.0	74000	11.8	80000	14.5	72000	3.3	60000	3.0	10.0
Part(40%)	41000	19.3	25000	3.3	10.0	41000	16.5	43000	19.7	38000	4.2	30000	3.3	7.0



COOLING EFT Range 45°F to 110°F

Entering Fluid Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH			EER
					Ent. Air Dry Bulb Temp.			
					75°	80°	85°	
50°	61°	41410	1573	46777	33120	39736	41410	26.3
	64°	43418	1608	48904	30984	39335	43418	27.0
	67°	45459	1643	51065	28523	37266	43000	27.7
	70°	47534	1678	53261	23780	32873	42764	28.3
	73°	49643	1714	55491	-	28018	38401	29.0
60°	61°	40277	1709	46108	32214	38648	40277	23.6
	64°	42229	1747	48190	30136	38258	42229	24.2
	67°	44215	1785	50305	27743	36247	41823	24.8
	70°	46233	1823	52455	23129	31973	41594	25.4
	73°	48285	1862	54638	-	27251	37350	25.9
70°	61°	38883	1850	45194	31099	37311	38883	21.0
	64°	40768	1891	47219	29093	36934	40768	21.6
	67°	42685	1932	49277	26783	34992	40376	22.1
	70°	44634	1974	51367	22329	30867	40155	22.6
	73°	46614	2015	53490	-	26308	36057	23.1
85°	61°	36323	2060	43352	29052	34855	36323	17.6
	64°	38084	2106	45268	27178	34503	38084	18.1
	67°	39875	2152	47216	25019	32689	37718	18.5
	70°	41695	2198	49194	20859	28835	37511	19.0
	73°	43545	2244	51203	-	24576	33684	19.4
100°	61°	33751	2264	41477	26994	32386	33751	14.9
	64°	35387	2314	43284	25253	32059	35387	15.3
	67°	37051	2365	45120	23248	30374	35047	15.7
	70°	38742	2416	46985	19382	26793	34855	16.0
	73°	40461	2467	48879	-	22836	31298	16.4

HEATING EFT Range 25°F to 80°F

Entering Fluid Temp.	Dry Bulb	Heating Capacity BTUH	Heat of Absorb. BTUH	Power Input Watts	COP
50°	60°	32106	24983	2088	4.5
	70°	30453	23196	2127	4.2
	80°	28510	21101	2171	3.8
60°	60°	36770	29550	2116	5.1
	80°	32652	25142	2201	4.3
70°	60°	41336	34006	2148	5.6
	70°	39208	31739	2189	5.2
80°	80°	36706	29082	2235	4.8
	60°	45988	38550	2180	6.2
	70°	43620	36042	2221	5.8
	80°	40837	33101	2267	5.3

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