

# AQUARIUS II

heat pumps

**O**ur second generation **Aquarius II Series** brings you the highest efficiency series of geothermal units available on the market today.

A heat pump operates at full load less than 60% of the time so it is only logical to have a unit that can match the load profile of a building.

The **Aquarius II Series** features a state of the art two stage unloading scroll compressor which, when controlled by a multistage thermostat, stages the unit to match the demand for heating and cooling. The result, up to 70% lower energy bills, increased comfort and better humidity control.

All FHP's **Aquarius II Series** units come ready for operation in a geothermal application. Using the earth's energy to heat and cool your home not only makes economic sense but is good for the environment. No oil, natural gas or propane is used in the operation of a geothermal unit meaning no carbon dioxide emissions that may harm our environment. Increase your energy savings with an internally mounted heat recovery system providing much of your hot water needs at virtually no additional operating cost.



## ● Efficiency

The industry's highest rated series for efficiency. Our **Aquarius II Series** has two stages of control so you do not use more energy than you need.

## ● Quiet Operation

The **Aquarius II Series** has been designed to be quiet. FHP's unique floating compressor base pan and compressor blanket keep sound to an absolute minimum. The ECM motors are whisper quiet and can be adjusted to provide the proper air flow depending on the distribution layout.

## ● Environmentally Friendly

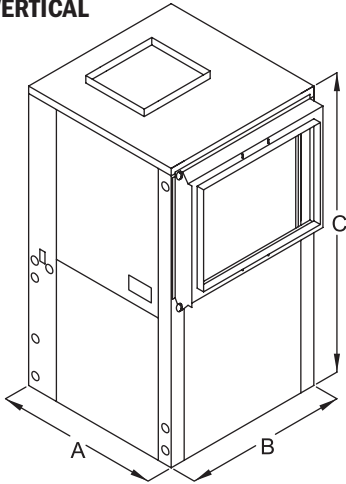
Geothermal systems are the most environmentally friendly way to heat and cool your home. No fossil fuels are consumed in the operation of the unit meaning no carbon dioxide or other emissions that could increase greenhouse gasses that contribute to global warming. FHP's **Aquarius II** systems use refrigerant R-410A the industry's answer to R-22 helping to preserve the earth's ozone layer.

## ● FHP Quality and Reliability Since 1970

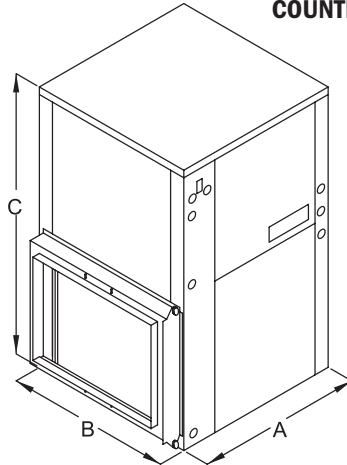
FHP's **Aquarius II Series** feature coated evaporator coils, stainless steel drain pans and a black vinyl coated cabinet as standard to ensure long trouble free life of the units. Rigorous factory testing of each unit ensures trouble free operation from the start.

# AQUARIUS II AP SERIES

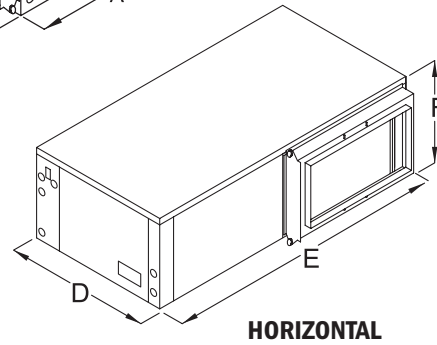
**VERTICAL**



**COUNTERFLOW**



DIMENSIONS						
MODEL	VERTICAL/C. FLOW			HORIZONTAL		
	WIDTH A	DEPTH B	HEIGHT C	WIDTH D	LENGTH E	HEIGHT F
AP025	21.50	26.00	47.25	26.00	54.50	22.00
AP035	24.00	33.25	47.25	30.00	68.00	22.00
AP049	26.00	33.25	58.00	30.00	68.00	22.00
AP061	26.00	33.25	66.25	30.00	89.00	22.00
AP071	26.00	33.25	66.25	30.00	89.00	22.00



**HORIZONTAL**

All ratings & specifications are subject to change without notice.

MODEL	CFM	ARI / ISO 13256-1 PERFORMANCE DATA											
		ENTERING WATER TEMPERATURES											
		Water Loop		Ground Water				Ground Loop					
		86°F	68°F	59°F	50°F	77°F	32°F						
CAPACITY AND EFFICIENCY DATA													
		COOLING CAPACITY (WLHP)	EER (WLHP)	HEATING CAPACITY (WLHP)	COP (WLHP)	COOLING CAPACITY (GWHP)	EER (GWHP)	HEATING CAPACITY (GWHP)	COP (GWHP)	COOLING CAPACITY (GLHP)	EER (GLHP)	HEATING CAPACITY (GLHP)	COP (GLHP)

**AP025**

Part Load	750	20,000	19.3	23,000	6.5	22,500	32.5	19,500	5.5	22,000	27.8	16,600	4.7
Full Load	950	27,000	16.2	32,500	5.3	31,000	25.1	26,500	4.8	28,500	19.2	20,400	4.1

**AP035**

Part Load	1000	25,700	19.8	29,500	6.3	29,500	34.0	24,300	5.3	28,200	28.5	22,000	4.8
Full Load	1200	36,600	16.0	43,000	5.1	41,200	23.5	36,200	4.7	38,200	18.4	28,200	4.1

**AP049**

Part Load	1300	37,000	20.0	38,500	5.9	41,200	32.5	31,500	5.0	40,200	28.0	28,000	4.6
Full Load	1700	50,000	16.9	53,000	5.2	56,000	24.0	45,500	4.8	52,000	19.0	38,000	4.1

**AP061**

Part Load	1500	47,000	19.0	56,500	6.2	53,000	33.0	45,000	5.2	51,000	27.7	39,000	4.6
Full Load	2000	64,000	16.2	78,500	5.4	71,000	23.8	65,000	5.0	67,000	18.5	49,000	4.1

**AP071**

Part Load	1500	53,000	18.2	65,800	5.2	59,000	28.8	53,700	4.6	57,500	25.2	47,000	4.1
Full Load	2300	72,000	16.0	89,000	5.2	78,000	21.8	73,000	4.7	74,000	18.0	58,000	4.1

Tabulated performance data is at noted entering water temperatures and entering air conditions of 80.6° F DB/66.2° F WB at ARI/ISO 13256-1 rated CFM



PERFORMANCE DATA

## FHP MANUFACTURING COMPANY

601 N.W. 65TH COURT • FT. LAUDERDALE, FL 33309 • PHONE: (954) 776-5471 • FAX: (800) 776-5529

<http://www.fhp-mfg.com>

heat pumps

970-254 Rev. 4/08