

# WATER SOURCE

EM SERIES MODELS 007-070

HEAT PUMPS

ISO 9001:2000 Certified



## Our ENERGY MISER

series is recognized as the most efficient and economical way to meet all your Cooling and Heating needs. Available in Vertical, Split, Horizontal, and Counterflow configuration 1/2 to 6 tons. The EM Series is our Premiere product line specifically designed for Cooling Tower / Boiler Systems, Well Water Systems, and now with a "Low Temperature Option" for Geothermal Applications. Even during temperature extremes, FHP equipment maintains its superior efficiencies. There'll be no nasty surprises during hot summer days or frigid winter nights.

UP TO  
**21.0**  
EER

● **ENVIRONMENTALLY SAFE**  
Unlike air source equipment the EM Series, when used on Well Water systems, utilizes the earth's natural ability to conserve & store energy while helping reduce pollution.

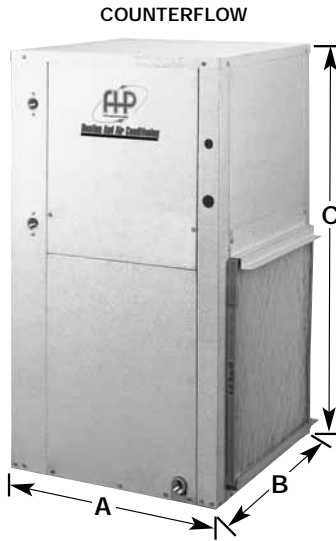
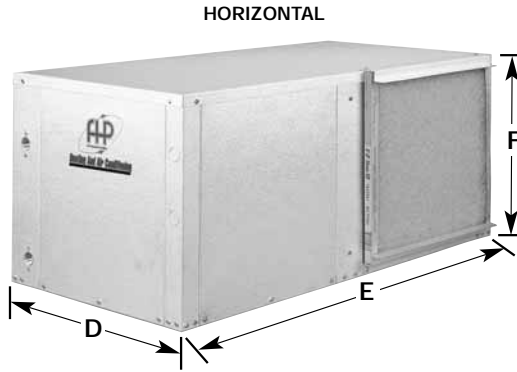
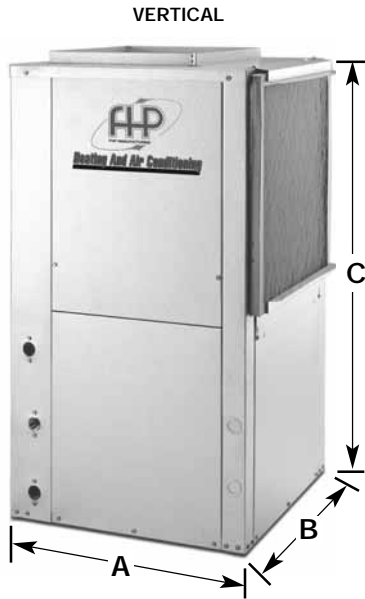
UP TO  
**4.9**  
COP

● **REAL COST SAVINGS**  
Save from 50% to 70% in heating costs and up to 40% in cooling costs... Plus you can get low cost HOT WATER during the summer months with our Heat Recovery option.

● **RELIABILITY**  
With over 30 years of experience in heat pump technology behind every FHP unit, you can be sure of a quality product that will give you many years of trouble free service.

# PERFORMANCE

DATA



DIMENSIONS						
MODEL	VERTICAL/C.FLOW			HORIZONTAL		
	A	B	C	D	E	F
EM007,009,012	19	19	24 <sup>1</sup> / <sub>4</sub>	19	31	11 <sup>1</sup> / <sub>4</sub>
EM015,018	21 <sup>1</sup> / <sub>2</sub>	21 <sup>1</sup> / <sub>2</sub>	32 <sup>3</sup> / <sub>4</sub>	21 <sup>1</sup> / <sub>2</sub>	43	17
EM024	21 <sup>1</sup> / <sub>2</sub>	21 <sup>1</sup> / <sub>2</sub>	36 <sup>1</sup> / <sub>4</sub>	21 <sup>1</sup> / <sub>2</sub>	43	19
EM028,031	21 <sup>1</sup> / <sub>2</sub>	21 <sup>1</sup> / <sub>2</sub>	39 <sup>1</sup> / <sub>4</sub>	22	45	19
EM036,042	21 <sup>1</sup> / <sub>2</sub>	26	43 <sup>1</sup> / <sub>4</sub>	22	54 <sup>1</sup> / <sub>2</sub>	19
EM041	21 <sup>1</sup> / <sub>2</sub>	21 <sup>1</sup> / <sub>2</sub>	39 <sup>1</sup> / <sub>4</sub>	21 <sup>1</sup> / <sub>2</sub>	43	22
EM048,060	24	32 <sup>1</sup> / <sub>2</sub>	45 <sup>1</sup> / <sub>4</sub>	36	43	21
EM051*,061*	26	26	43 <sup>1</sup> / <sub>2</sub>	N/A	N/A	N/A
EM070	26	33 <sup>1</sup> / <sub>4</sub>	58 <sup>1</sup> / <sub>4</sub>	26	78	21 <sup>1</sup> / <sub>2</sub>

All ratings and specifications are subject to change without notice.  
 \* Only available in vertical configurations.

		ARI / ISO 13256-1 PERFORMANCE DATA											
		ENTERING WATER TEMPERATURES											
MODEL	CFM	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)
EM007	300	7,300	12.3	10,000	4.7	8,500	17.3	7,500	3.8	7,500	13.6	5,500	3.2
EM009	350	9,800	12.0	13,000	4.6	11,400	17.2	9,800	3.7	10,000	13.2	7,200	3.0
EM012	400	11,500	11.2	14,500	4.2	13,000	15.7	11,000	3.2	11,800	12.2	8,200	2.7
EM015	500	14,500	11.5	20,000	4.2	16,500	16.5	15,000	3.4	14,800	12.7	11,000	2.8
EM018	650	18,000	12.5	22,000	4.4	21,000	17.0	17,500	3.8	19,000	13.4	13,000	3.2
EM024	850	23,000	14.0	29,000	4.9	26,000	21.0	23,000	4.2	24,000	15.5	17,000	3.5
EM028	950	28,000	13.1	32,000	4.7	32,000	18.9	26,000	4.0	29,500	14.6	19,000	3.3
EM031	1000	32,000	13.3	40,000	4.7	37,000	19.1	31,500	3.7	34,500	14.7	23,500	3.0
EM036	1200	34,000	14.0	40,000	4.7	38,000	20.1	31,500	4.0	35,000	15.3	23,500	3.4
EM041	1150	38,500	12.5	49,000	4.3	41,000	16.1	39,000	3.8	39,000	13.3	28,000	3.2
EM042	1500	41,500	12.8	50,500	4.3	44,000	16.9	40,000	3.9	42,500	13.6	30,000	3.2
EM048	1600	48,000	12.2	61,000	4.6	58,000	18.0	49,000	4.0	51,000	13.4	38,000	3.4
EM051	1500	47,500	12.8	62,000	4.6	54,000	18.0	49,500	4.0	50,000	14.4	37,500	3.5
EM060	2000	60,000	12.5	77,000	4.5	65,000	17.5	60,000	4.0	60,500	14.0	48,000	3.2
EM061	1800	58,000	13.3	70,000	4.5	62,000	19.0	57,000	4.0	60,000	15.2	45,000	3.4
EM070	2200	68,000	12.5	82,000	4.6	76,000	18.7	66,000	3.8	69,000	13.9	53,000	3.4

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

Shaded performance requires LOW TEMPERATURE OPTION when ordered for the EM Series to function below 50° F entering fluid temps



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