

FHP SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

HE023

HIGH EFFICIENCY

Units are complete packages containing all refrigeration components: compressor, reversing valve, capillary tube metering device and water-to-refrigerant condenser. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out impedance relay. The units are finished in a beige color. This model is also available in a split configuration.

MECHANICAL SPECIFICATIONS

STANDARD RATED PERFORMANCE					CFM	EVAPORATOR				BLOWER	WEIGHT	
COOLING	EER	HEATING	COP	GPM		FACE AREA	ROWS DEEP	TUBE SIZE	FINS PER IN.		NET	SHIP
23,000	12.5	28,800	4.3	5.8	850	2.12	3	3/8	13	9 X 7	175	187

ELECTRICAL SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	ELECTR. SYM.	COMPRESSOR		BLOWER		MIN. CIRCUIT AMPACITY	FUSE (T/D) HACR CIRCUIT BREAKER
		RLA	LRA	NPA	H.P.		
208/230-1-60	-1	9.6	48	2.0	1/4	14.0	20
265-1-60	-2	8.4	37	1.6	1/4	12.1	20
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

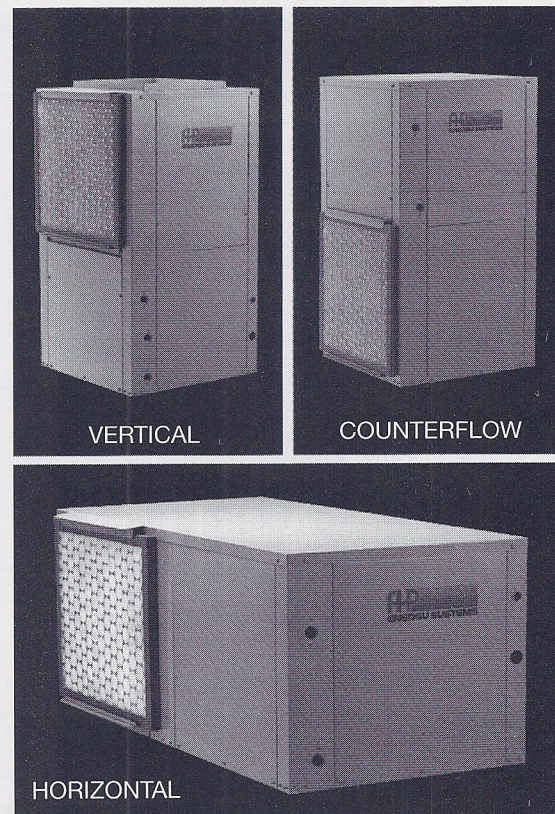
CAPACITY DATA

ARI Standard 320: 850 SCFM, 5.8GPM/6.1' P.D.

COOLING (All BTUH in thousands)

Entering Water Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH Ent. Air Dry Bulb °F			EER
					75°	80°	85°	
55°	61°	23.0	1423	27.8	19.2	23.0	-	16.2
	64°	24.1	1432	29.0	17.1	21.7	24.1	16.8
	67°	25.2	1442	30.1	15.0	19.6	23.9	17.5
	70°	26.4	1450	31.3	12.0	16.6	21.6	18.2
	73°	27.6	1461	32.6	-	13.5	18.5	18.9
65°	61°	22.5	1554	27.8	18.7	22.5	-	14.5
	64°	23.5	1564	28.9	16.7	21.2	23.5	15.1
	67°	24.6	1575	30.0	14.7	19.2	23.3	15.7
	70°	25.8	1584	31.2	11.7	16.2	21.1	16.3
	73°	27.0	1595	32.4	-	13.2	18.1	17.0
75°	61°	22.0	1685	27.7	18.3	22.0	-	13.1
	64°	23.0	1695	28.8	16.3	20.7	23.0	13.6
	67°	24.1	1707	29.9	14.4	18.8	22.8	14.1
	70°	25.2	1718	31.1	11.4	15.8	20.6	14.7
	73°	26.4	1730	32.3	-	12.9	17.7	15.3
85°	61°	20.9	1816	27.1	17.5	20.9	-	11.6
	64°	21.9	1827	28.2	15.6	19.8	21.9	12.0
	67°	23.0	1840	29.2	13.7	17.9	21.7	12.5
	70°	24.1	1851	30.4	13.9	15.1	19.6	13.0
	73°	25.2	1863	31.5	-	12.3	16.9	13.5
95°	61°	19.1	1945	25.7	15.9	19.1	-	9.8
	64°	20.0	1956	26.7	14.2	18.0	20.0	10.3
	67°	20.9	1970	27.7	12.5	16.3	19.8	10.6
	70°	21.9	1982	28.7	9.9	13.8	17.9	11.1
	73°	22.9	1996	29.8	-	11.2	15.4	11.5

BOLD DATA ARE AT ARI STANDARD 320 RATING CONDITIONS.



HEATING

Entering Water Temp.	Entering Air Temp.	Heating Capacity BTUH	Heat of Absorption BTUH	Power Input Watts	COP
55°	60°	25.0	19.1	1713	4.3
	70°	23.6	17.6	1748	4.0
	80°	22.1	16.1	1783	3.6
70°	60°	30.5	23.9	1920	4.7
	70°	28.8	22.1	1960	4.3
	80°	27.0	20.2	1999	4.0
80°	60°	32.3	25.5	1993	4.8
	70°	30.5	23.5	2034	4.4
	80°	28.6	21.6	2074	4.1

CONDENSER WATER FLOW

Cooling Cycle Design ΔT	GPM	P.D. (Ft. of Hd.)
8°	6.5	7.9
10°	5.8	6.1
12°	5.1	4.8
14°	4.4	3.3
16°	3.6	2.4



HE023

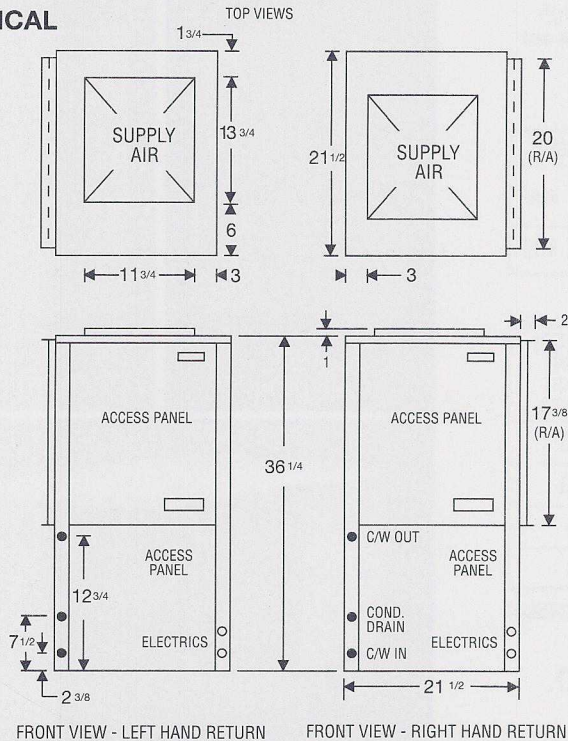
HIGH EFFICIENCY

PHYSICAL CHARACTERISTICS

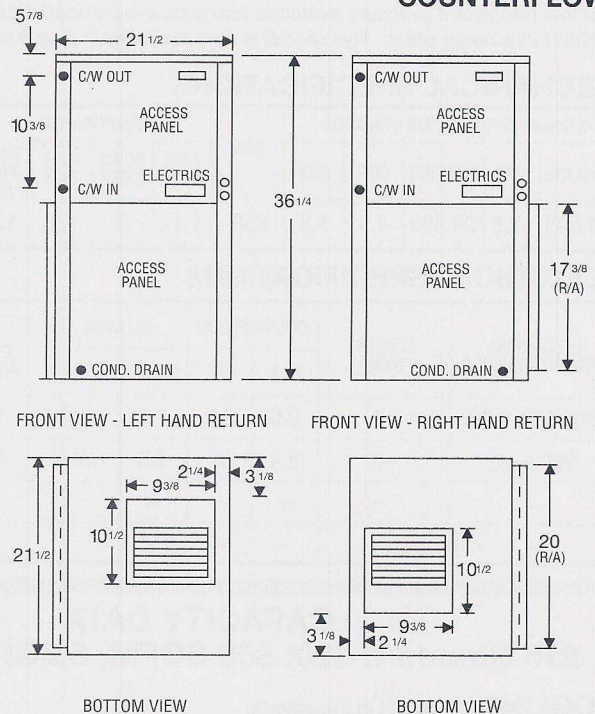
BLOWER PERFORMANCE

AVAILABLE EXTERNAL STATIC PRESSURE (In. H ₂ O including allowance for wet coil and filter)												
FAN SPEED	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0	1.1	1.2
HIGH	900	850	800	760	710	690	680	670	-	-	-	-
MED.	750	720	690	670	-	-	-	-	-	-	-	-
LOW	670	-	-	-	-	-	-	-	-	-	-	-

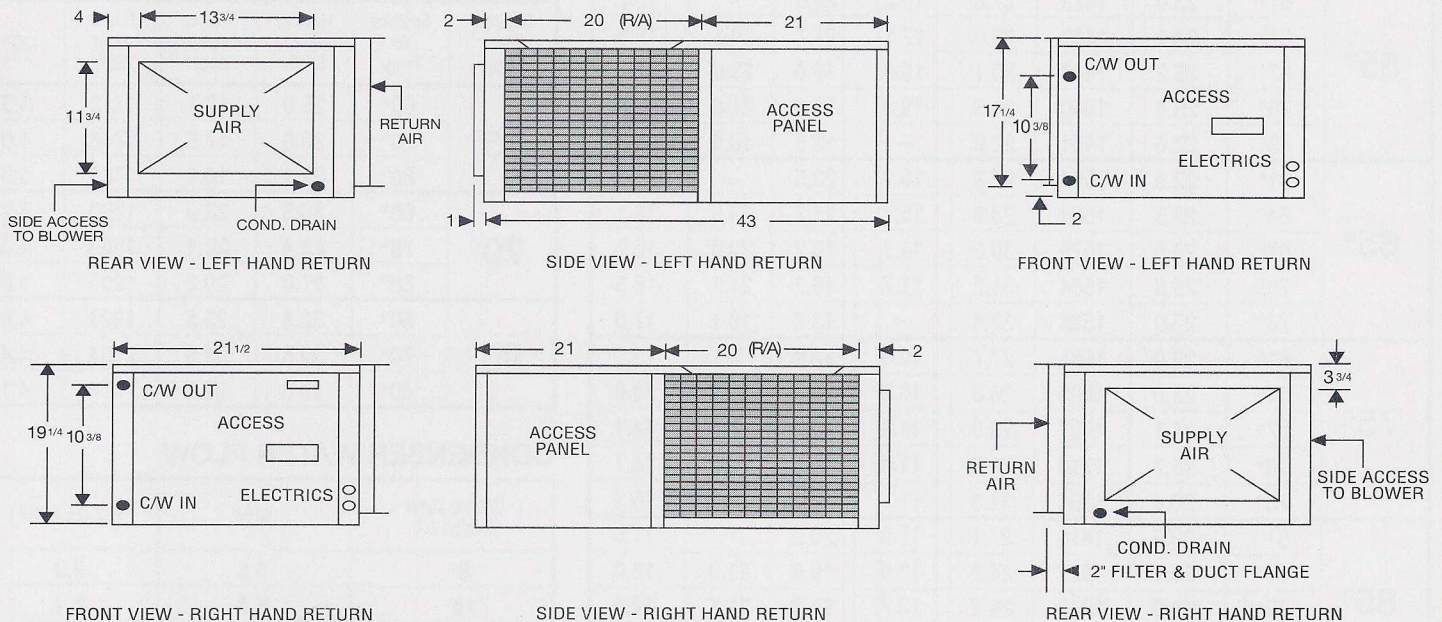
VERTICAL



COUNTERFLOW



HORIZONTAL



OPTIONAL STRAIGHT-THRU AIR CONFIGURATION AVAILABLE



FHP MANUFACTURING
601 N.W. 65th COURT
FT. LAUDERDALE, FL 33309
PHONE: (305) 776-5471
FAX: (305) 776-5529

CONDENSER WATER CONNECTIONS: 3/4" F.P.T.
CONDENSATE DRAIN CONNECTION: 3/4" F.P.T.
FILTER SIZE: VT, CF 17" X 20" X 1" ; HZ 17" X 20" X 1"

As a result of continuing research and development, all ratings and specifications are subject to change without notice.

Rev. 6/94

FLP SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

HE027

HIGH EFFICIENCY

Units are complete packages containing all refrigeration components: compressor, reversing valve, capillary tube metering device and water-to-refrigerant condenser. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out impedance relay. The units are finished in a beige color. This model is also available in a split configuration.

MECHANICAL SPECIFICATIONS

STANDARD RATED PERFORMANCE					CFM	EVAPORATOR				BLOWER	WEIGHT	
COOLING	EER	HEATING	COP	GPM		FACE AREA	ROWS DEEP	TUBE SIZE	FINS PER IN.		NET	SHIP
26,600	12.0	34,400	4.1	6.8	950	2.29	4	3/8	14	9 X 7	203	220

ELECTRICAL SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	ELECTR. SYM.	COMPRESSOR		BLOWER		MIN. CIRCUIT AMPACITY	FUSE (T/D) HACR CIRCUIT BREAKER
		RLA	LRA	NPA	H.P.		
208/230-1-60	-1	11.5	54.0	2.0	1/4	16.4	25
265-1-60	-2	10.3	45.0	1.6	1/4	14.5	20
208/230-3-60	-3	7.7	48.0	2.0	1/4	11.6	15
460-3-60	-4	3.8	24.0	1.0	1/4	5.8	15

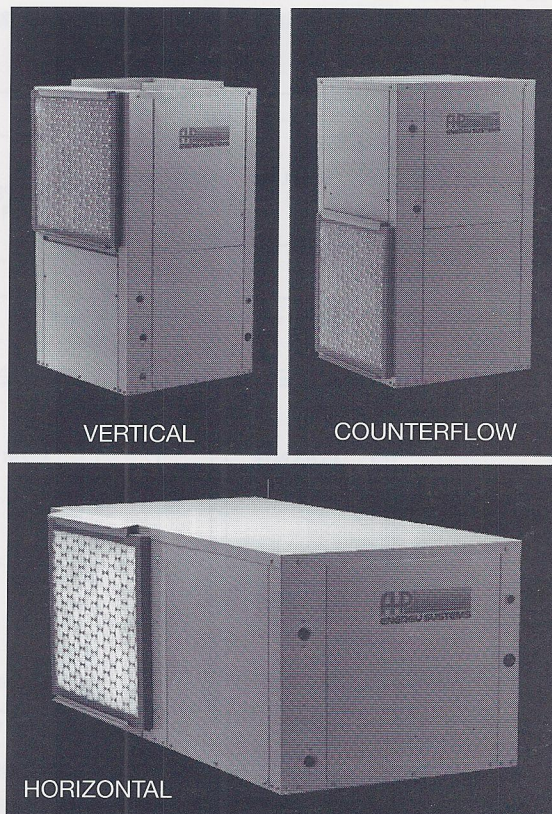
CAPACITY DATA

ARI Standard 320: 950 SCFM, 6.8GPM/12.1' P.D.

COOLING (All BTUH in thousands)

Entering Water Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH Ent. Air Dry Bulb °F			EER
					75°	80°	85°	
55°	61°	26.6	1713	32.5	22.2	26.6	—	15.6
	64°	27.9	1724	33.8	19.8	25.2	27.9	16.2
	67°	29.2	1736	35.1	17.4	22.8	27.5	16.8
	70°	30.6	1746	36.5	13.9	19.2	25.0	17.5
	73°	32.0	1758	38.0	—	15.7	21.5	18.2
65°	61°	26.1	1871	32.4	21.7	26.1	—	13.9
	64°	27.3	1882	33.7	19.4	25.0	27.3	14.5
	67°	28.5	1896	35.0	17.1	22.3	27.1	15.1
	70°	29.9	1907	36.4	13.6	19.8	21.1	15.7
	73°	31.3	1920	37.8	—	15.3	21.0	16.3
75°	61°	25.5	2029	32.4	21.2	25.5	—	12.5
	64°	26.7	2041	33.6	18.9	24.0	26.7	13.1
	67°	27.9	2055	35.0	16.7	21.7	26.5	13.6
	70°	29.2	2068	36.3	13.3	18.4	23.9	14.1
	73°	30.6	2082	37.7	—	15.0	20.5	14.7
85°	61°	21.3	2186	31.7	20.3	21.3	—	9.7
	64°	25.4	2199	32.9	18.9	22.9	25.4	11.6
	67°	26.6	2215	34.2	15.9	20.7	25.2	12.0
	70°	27.8	2228	35.5	12.7	17.5	22.8	12.5
	73°	29.2	2243	36.8	—	14.3	19.6	13.0
95°	61°	22.1	2341	30.1	18.5	22.1	—	9.5
	64°	23.2	2355	31.2	16.5	20.9	23.2	9.8
	67°	24.3	2372	32.4	14.5	18.9	23.0	10.2
	70°	25.4	2386	33.6	11.5	16.0	20.8	10.7
	73°	26.6	2403	35.0	—	13.0	17.8	11.1

BOLD DATA ARE AT ARI STANDARD 320 RATING CONDITIONS.



HEATING

Entering Water Temp.	Entering Air Temp.	Heating Capacity BTUH	Heat of Absorption BTUH	Power Input Watts	COP
55°	60°	29.9	22.6	2150	4.1
	70°	28.2	22.7	2194	3.8
	80°	26.5	18.9	2238	3.5
70°	60°	36.4	28.2	2411	4.4
	70°	34.4	26.0	2460	4.1
	80°	32.3	23.8	2509	3.8
80°	60°	38.7	30.1	2502	4.5
	70°	36.5	27.7	2553	4.2
	80°	34.3	25.4	2604	3.9

CONDENSER WATER FLOW

Cooling Cycle Design ΔT	GPM	P.D. (Ft. of Hd.)
8°	9.0	20.2
10°	6.8	12.1
12°	5.5	7.9
14°	5.0	6.6
16°	4.5	5.3



HE027

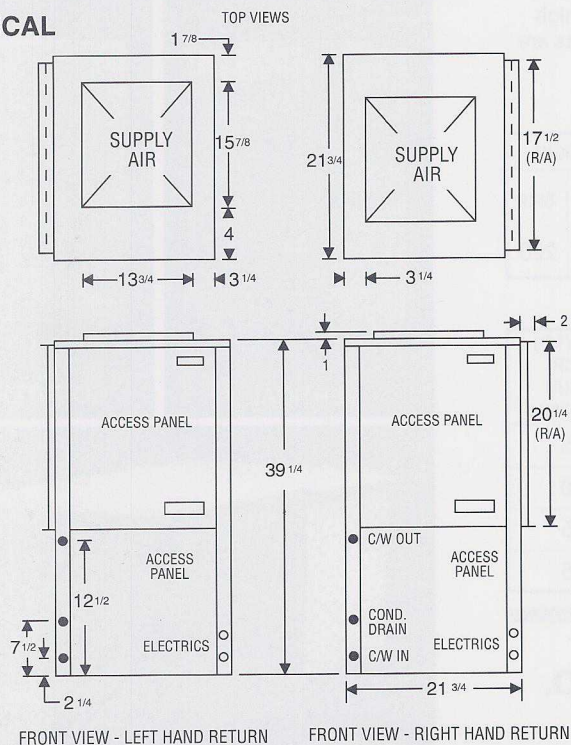
HIGH EFFICIENCY

PHYSICAL CHARACTERISTICS

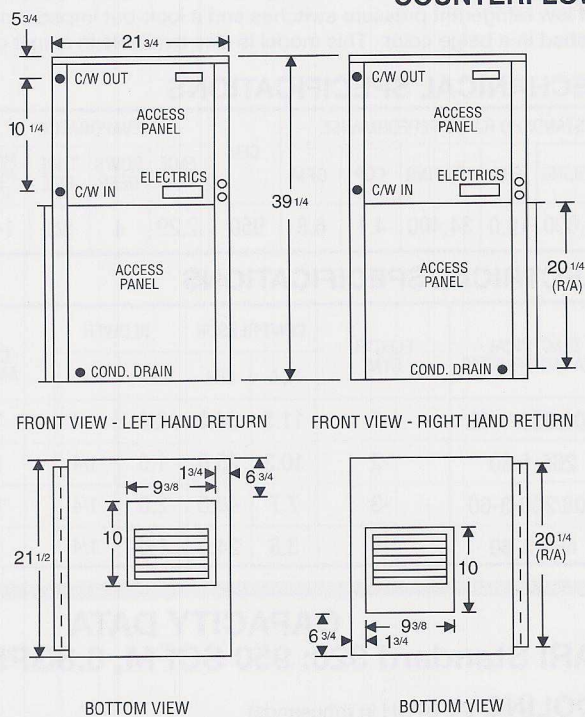
BLOWER PERFORMANCE

AVAILABLE EXTERNAL STATIC PRESSURE (In. H ₂ O including allowance for wet coil and filter)												
FAN SPEED	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0	1.1	1.2
HIGH	1030	975	920	875	860	840	810	780	775	750	-	-
MED.	770	750	720	680	-	-	-	-	-	-	-	-
LOW	720	680	-	-	-	-	-	-	-	-	-	-

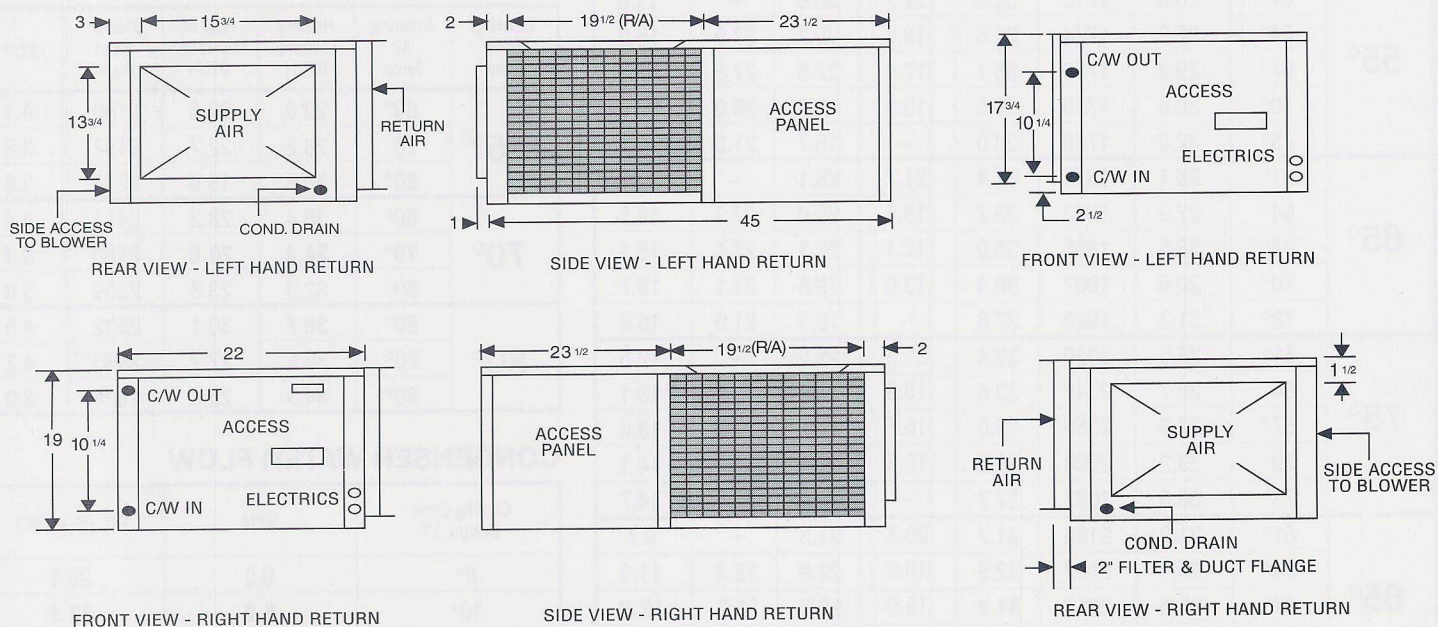
VERTICAL



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HORIZONTAL



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CONDENSER WATER CONNECTIONS: 3/4" F.P.T.
CONDENSATE DRAIN CONNECTION: 3/4" F.P.T.
FILTER SIZE: VT, CF 20" X 20" X 1" ; HZ 17" X 20" X 1"

As a result of continuing research and development, all ratings and specifications are subject to change without notice.

Rev. 2/95

FLP SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

HE031

HIGH EFFICIENCY

Units are complete packages containing all refrigeration components: compressor, reversing valve, capillary tube metering device and water-to-refrigerant condenser. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out impedance relay. The units are finished in a beige color. This model is also available in a split configuration.

MECHANICAL SPECIFICATIONS

STANDARD RATED PERFORMANCE					CFM	EVAPORATOR				BLOWER	WEIGHT	
COOLING	EER	HEATING	COP	GPM		FACE AREA	ROWS DEEP	TUBE SIZE	FINS PER IN.		NET	SHIP
32,000	11.7	39,500	3.8	8.3	1000	2.3	3	3/8	14	9X7	210	220

ELECTRICAL SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	ELECTR. SYM.	COMPRESSOR		BLOWER		MIN. CIRCUIT AMPACITY	FUSE (T/D) HACR CIRCUIT BREAKER
		RLA	LRA	NPA	H.P.		
208/230-1-60	-1	14.6	81	2.0	1/4	20.3	30
265-1-60	-2	12.8	72	1.6	1/4	17.6	30
208/230-3-60	-3	8.9	70	2.0	1/4	13.2	20
460-3-60	-4	5.2	30	1.0	1/4	7.5	15

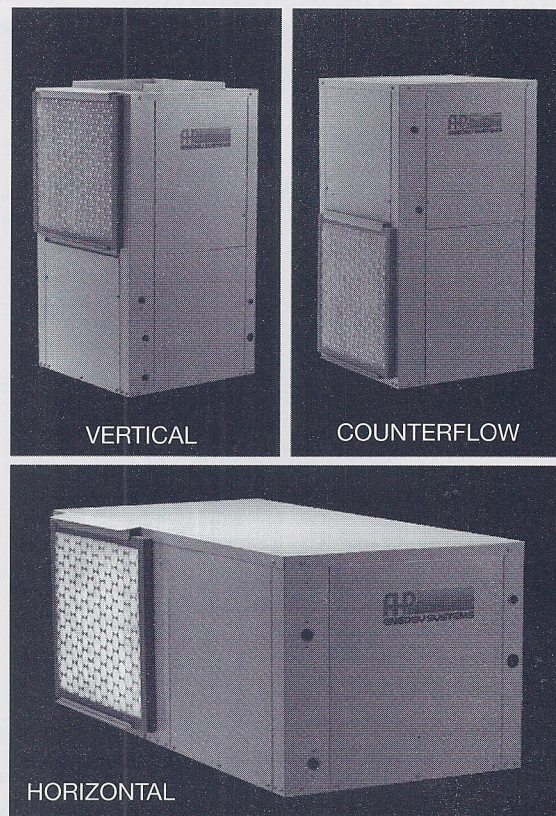
CAPACITY DATA

ARI Standard 320: 1000 SCFM, 8.3GPM/18.2' P.D.

COOLING (All BTUH in thousands)

Entering Water Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH Ent. Air Dry Bulb °F			EER
					75°	80°	85°	
55°	61°	32.1	2116	39.3	26.7	32.1	—	15.1
	64°	33.5	2129	40.8	23.8	30.3	33.6	15.8
	67°	35.1	2144	42.4	21.0	27.4	33.4	16.4
	70°	36.8	2157	44.2	16.7	23.1	30.0	17.1
	73°	38.5	2172	45.9	—	18.9	25.8	17.7
65°	61°	31.3	2310	39.2	26.1	31.3	—	13.6
	64°	32.8	2324	40.8	23.3	29.6	32.8	14.1
	67°	34.3	2341	42.3	20.5	26.8	32.6	14.7
	70°	36.0	2355	44.0	16.3	22.6	29.4	15.3
	73°	37.6	2371	45.7	—	18.4	25.3	15.9
75°	61°	30.6	2505	39.2	25.5	30.6	—	12.2
	64°	32.1	2520	40.7	22.8	28.9	32.1	12.7
	67°	33.5	2538	42.2	20.0	26.2	31.9	13.2
	70°	35.2	2553	43.9	16.0	22.1	28.7	13.8
	73°	36.8	2571	45.5	—	18.0	24.7	14.3
85°	61°	29.2	2699	38.4	24.4	29.2	—	10.8
	64°	30.6	2715	39.9	21.7	27.5	30.6	11.3
	67°	32.0	2735	41.3	19.1	25.0	30.4	11.7
	70°	33.5	2751	42.9	15.2	21.1	27.4	12.2
	73°	35.1	2770	44.5	—	17.2	23.5	12.7
95°	61°	26.6	2891	36.5	22.2	26.6	—	9.2
	64°	27.9	2908	37.8	19.8	25.1	27.9	9.6
	67°	29.2	2929	39.2	17.4	22.7	27.7	10.0
	70°	30.6	2946	40.6	13.9	19.2	25.0	10.4
	73°	32.0	2967	42.1	—	15.7	21.5	10.8

BOLD DATA ARE AT ARI STANDARD 320 RATING CONDITIONS.



HEATING

Entering Water Temp.	Entering Air Temp.	Heating Capacity BTUH	Heat of Absorption BTUH	Power Input Watts	COP
55°	60°	34.3	25.2	2661	3.8
	70°	32.4	23.1	2716	3.5
	80°	30.4	22.1	2770	3.2
70°	60°	41.9	31.7	2984	4.1
	70°	39.5	29.1	3045	3.8
	80°	37.1	26.5	3105	3.5
80°	60°	44.4	33.8	3097	4.2
	70°	41.9	31.1	3160	3.9
	80°	39.4	28.3	3223	3.6

CONDENSER WATER FLOW

Cooling Cycle Design ΔT	GPM	P.D. (Ft. of Hd.)
8°	10.3	28.5
10°	8.3	18.2
12°	6.9	12.7
14°	5.9	9.2
16°	5.2	7.2



HE031

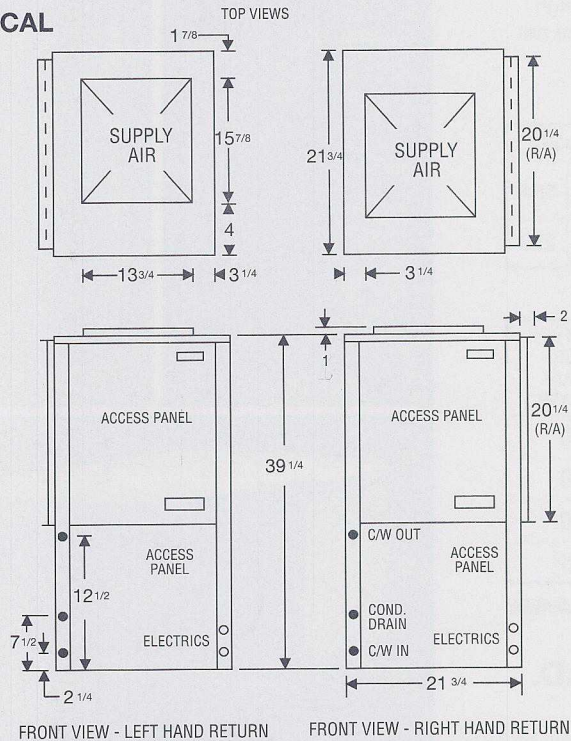
HIGH EFFICIENCY

PHYSICAL CHARACTERISTICS

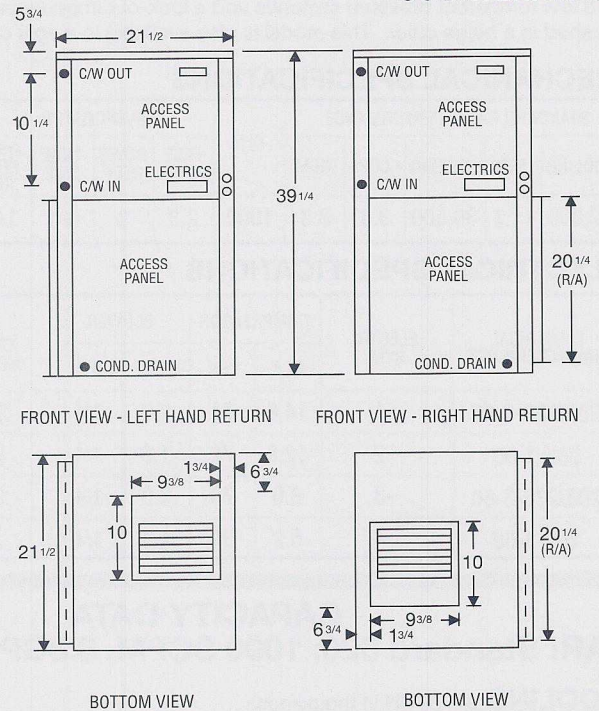
BLOWER PERFORMANCE

AVAILABLE EXTERNAL STATIC PRESSURE (In. H ₂ O including allowance for wet coil and filter)												
FAN SPEED	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0	1.1	1.2
HIGH	1250	1170	1120	1070	940	830	700	650	-	-	-	-
MED.	1050	980	920	830	760	700	-	-	-	-	-	-
LOW	975	910	870	740	640	-	-	-	-	-	-	-

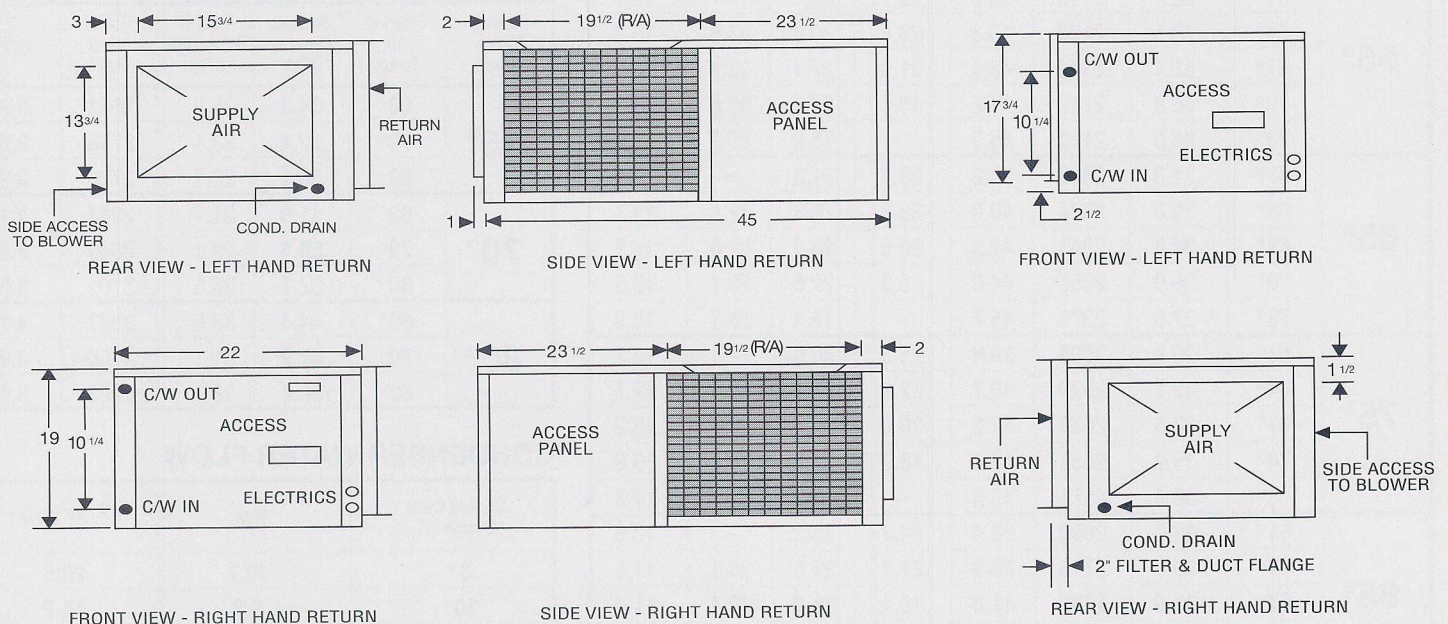
VERTICAL



COUNTERFLOW



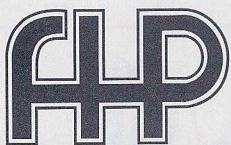
HORIZONTAL



OPTIONAL STRAIGHT-THRU AIR CONFIGURATION AVAILABLE

CONDENSER WATER CONNECTIONS: 3/4" F.P.T.
CONDENSATE DRAIN CONNECTION: 3/4" F.P.T.
FILTER SIZE: VT, CF 20" X 22 1/4" X 1" ; HZ 17 1/2" X 20" X 1"

As a result of continuing research and development, all ratings and specifications are subject to change without notice. Rev. 6/94



a HARROW company

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HP SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

HE034

HIGH EFFICIENCY

Units are complete packages containing all refrigeration components: compressor, reversing valve, capillary tube metering device and water-to-refrigerant condenser. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out impedance relay. The units are finished in a beige color. This model is also available in a split configuration.

MECHANICAL SPECIFICATIONS

STANDARD RATED PERFORMANCE					CFM	EVAPORATOR				BLOWER	WEIGHT	
COOLING	EER	HEATING	COP	GPM		FACE AREA	ROWS DEEP	TUBE SIZE	FINS PER IN.		NET	SHIP
34,000	12.0	44,000	4.1	8.8	1200	3.5	3	3/8	14	9 x 7	240	260

ELECTRICAL SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	ELECTR. SYM.	COMPRESSOR		BLOWER		MIN. CIRCUIT AMPACITY	FUSE (T/D) HACR CIRCUIT BREAKER
		RLA	LRA	NPA	H.P.		
208/230-1-60	-1	15.4	81	4.4	1/2	23.7	35
265-1-60	-2	14.1	72	3.3	1/2	20.9	35
208/230-3-60	-3	11.3	70	4.4	1/2	18.5	25
460-3-60	-4	5.1	30	1.8	1/2	8.2	15

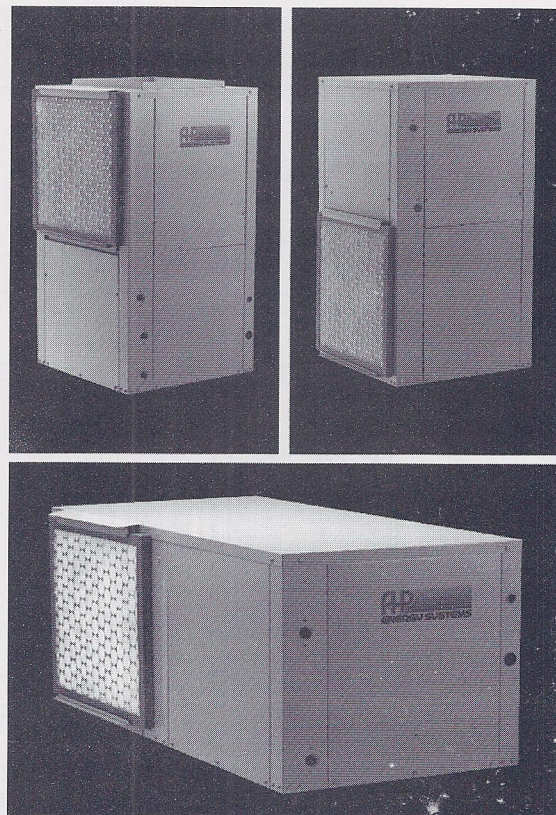
CAPACITY DATA

ARI Standard 320: 1200 SCFM, 8.8GPM/10.3' P.D.

COOLING (All BTUH in thousands)

Entering Water Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH Ent. Air Dry Bulb °F			EER
					75°	80°	85°	
55°	61°	34.1	2193	41.5	28.4	34.1	—	15.5
	64°	35.7	2207	43.2	25.3	32.1	35.6	16.2
	67°	37.3	2222	44.9	22.3	29.1	35.4	16.8
	70°	39.1	2235	46.7	17.7	24.6	31.9	17.5
	73°	40.9	2251	48.6	—	20.0	27.4	18.2
65°	61°	33.3	2395	41.5	27.8	33.3	—	13.9
	64°	34.9	2409	43.1	24.8	31.4	34.9	14.5
	67°	36.5	2426	44.8	21.8	28.4	34.7	15.0
	70°	38.2	2441	46.6	17.4	24.0	31.2	15.7
	73°	40.0	2458	48.4	—	19.6	26.8	16.3
75°	61°	32.5	2596	41.4	27.1	32.5	—	12.5
	64°	34.1	2612	43.0	24.2	30.7	34.1	13.0
	67°	35.6	2630	44.6	21.3	27.8	33.9	13.5
	70°	37.3	2646	46.4	17.0	23.5	30.5	14.1
	73°	39.1	2665	48.1	—	19.1	26.2	14.6
85°	61°	31.0	2798	40.6	25.9	31.0	—	11.1
	64°	32.5	2815	42.1	23.1	29.3	32.5	11.5
	67°	34.0	2835	43.7	20.3	26.5	32.3	12.0
	70°	35.6	2852	45.4	16.2	22.4	29.1	12.5
	73°	37.3	2871	47.1	—	18.3	25.0	13.0
95°	61°	28.3	2996	38.5	23.6	28.3	—	9.4
	64°	29.6	3015	39.9	21.1	26.7	29.6	9.8
	67°	31.0	3036	41.4	18.5	24.2	29.4	10.2
	70°	32.5	3054	42.9	14.8	20.4	26.6	10.6
	73°	33.9	3075	44.5	—	16.7	22.8	11.1

BOLD DATA ARE AT ARI STANDARD 320 RATING CONDITIONS.



HEATING

Entering Water Temp.	Entering Air Temp.	Heating Capacity BTUH	Heat of Absorption BTUH	Power Input Watts	COP
55°	60°	38.2	28.9	2749	4.1
	70°	36.1	26.5	2805	3.8
	80°	33.9	24.1	2861	3.5
70°	60°	46.6	36.1	3082	4.4
	70°	44.0	33.3	3145	4.1
	80°	41.4	30.4	3207	3.8
80°	60°	49.4	38.5	3199	4.5
	70°	46.6	35.5	3264	4.2
	80°	43.8	32.5	3329	3.9

CONDENSER WATER FLOW

Cooling Cycle Design ΔT	GPM	P.D. (Ft. of Hd.)
8°	11.5	17.6
10°	8.8	10.3
12°	7.0	6.6
14°	6.5	5.7
16°	5.5	4.2



HE034

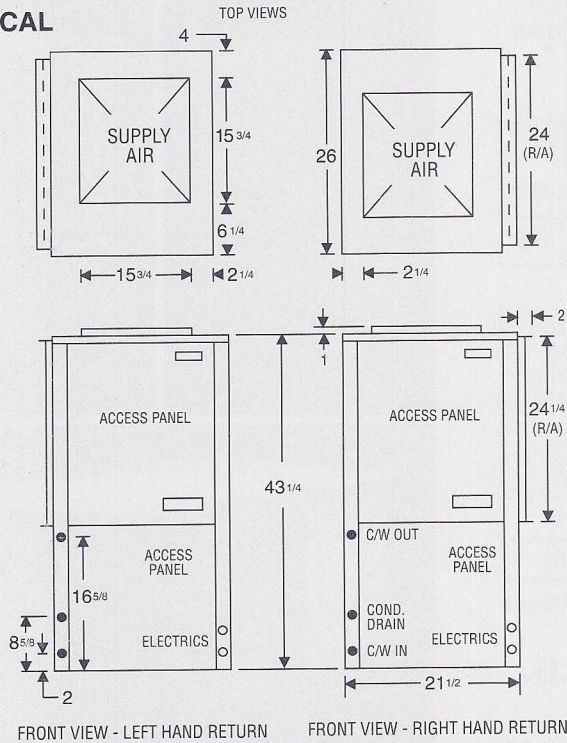
HIGH EFFICIENCY

PHYSICAL CHARACTERISTICS

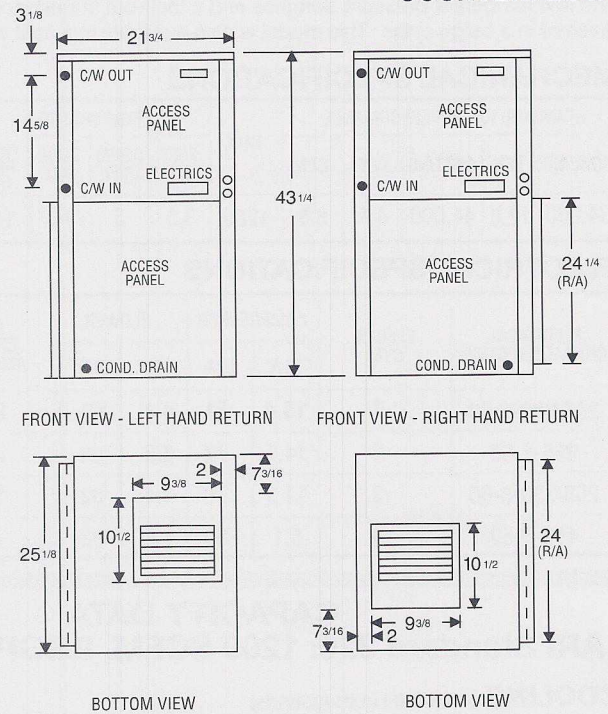
BLOWER PERFORMANCE

AVAILABLE EXTERNAL STATIC PRESSURE (In. H ₂ O including allowance for wet coil and filter)												
FAN SPEED	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0	1.1	1.2
HIGH	1390	1320	1250	1190	1100	1000	890	800	-	-	-	-
MED.	1280	1200	1160	1070	1000	890	-	-	-	-	-	-
LOW	1100	1050	1000	925	800	-	-	-	-	-	-	-

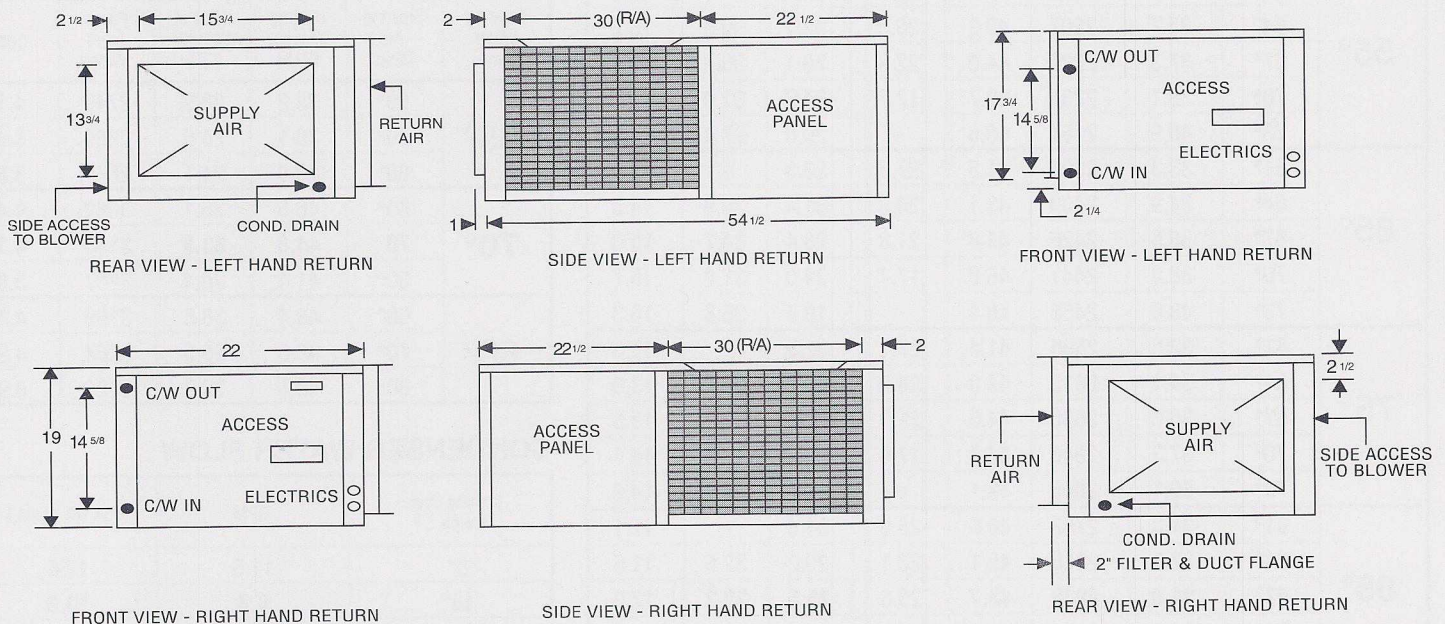
VERTICAL



COUNTERFLOW



HORIZONTAL



OPTIONAL STRAIGHT-THRU AIR CONFIGURATION

CONDENSER WATER CONNECTIONS: 3/4" F.P.T.
 CONDENSATE DRAIN CONNECTION: 3/4" F.P.T.
 FILTER SIZE: VT, CF 24" X 24" X 1" ; HZ 17 1/2" X 30" X 1"

As a result of continuing research and development, all ratings and specifications are subject to change without notice. Rev. 9/94



a HARROW company

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 FAX: (305) 776-5529

FHP SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

HE036

HIGH EFFICIENCY

Units are complete packages containing all refrigeration components: compressor, reversing valve, capillary tube metering device and water-to-refrigerant condenser. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out impedance relay. The units are finished in a beige color. This model is also available in a split configuration.

MECHANICAL SPECIFICATIONS

STANDARD RATED PERFORMANCE					CFM	EVAPORATOR				BLOWER	WEIGHT	
COOLING	EER	HEATING	COP	GPM		FACE AREA	ROWS DEEP	TUBE SIZE	FINS PER IN.		NET	SHIP
35,000	12.4	44,000	4.1	8.9	1200	3.5	2	3/8	14	9 x 7	240	260

ELECTRICAL SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	ELECTR. SYM.	COMPRESSOR		BLOWER		MIN. CIRCUIT AMPACITY	FUSE (T/D) HACR CIRCUIT BREAKER
		RLA	LRA	NPA	H.P.		
208/230-1-60	-1	15.4	81	4.4	1/2	23.7	35
265-1-60	-2	14.1	72	3.3	1/2	20.9	35
208/230-3-60	-3	11.3	70	4.4	1/2	18.5	25
460-3-60	-4	5.1	30	1.8	1/2	8.2	15

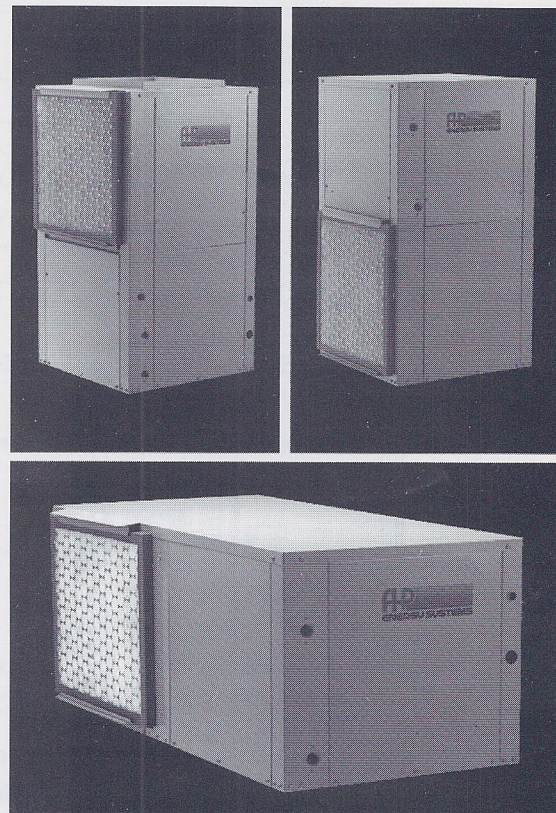
CAPACITY DATA

ARI Standard 320: 1200 SCFM, 8.9GPM/10.5' P.D.

COOLING (All BTUH in thousands)

Entering Water Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH Ent. Air Dry Bulb °F			EER
					75°	80°	85°	
55°	61°	35.0	2182	42.5	29.2	36.2	—	16.1
	64°	36.7	2195	44.1	26.0	33.0	40.6	16.7
	67°	38.3	2211	45.9	22.9	29.9	37.5	17.4
	70°	40.2	2224	47.8	18.2	25.2	32.8	18.1
	73°	42.0	2240	49.7	—	20.6	28.2	18.8
65°	61°	34.2	2383	42.4	28.9	35.4	—	14.4
	64°	35.9	2397	44.0	25.5	32.3	39.8	15.0
	67°	37.5	2414	45.7	22.4	29.2	36.7	15.6
	70°	39.3	2428	47.6	17.8	24.7	32.1	16.2
	73°	41.1	2445	49.5	—	20.1	27.6	16.8
75°	61°	33.4	2583	42.3	27.9	34.6	—	13.0
	64°	35.0	2599	43.9	24.9	31.6	38.8	13.5
	67°	36.6	2617	45.6	21.9	28.6	35.8	14.0
	70°	38.4	2633	47.4	17.4	24.1	31.4	14.6
	73°	40.2	2651	49.2	—	19.7	26.9	15.2
85°	61°	31.9	2783	41.4	26.6	33.0	—	11.5
	64°	33.4	2800	43.0	23.7	30.1	37.1	11.9
	67°	35.0	2820	44.6	20.9	27.3	34.2	12.4
	70°	36.6	2837	46.3	16.6	23.0	29.9	12.9
	73°	38.3	2857	48.1	—	18.8	25.7	13.4
95°	61°	29.1	2981	39.3	24.3	30.1	—	9.8
	64°	30.5	2999	40.7	21.6	27.5	33.8	10.2
	67°	31.9	3020	42.2	19.0	24.8	31.2	10.6
	70°	33.4	3038	43.8	15.1	21.0	27.3	11.0
	73°	34.9	3059	45.4	—	17.1	23.4	11.4

BOLD DATA ARE AT ARI STANDARD 320 RATING CONDITIONS.



HEATING

Entering Water Temp.	Entering Air Temp.	Heating Capacity BTUH	Heat of Absorption BTUH	Power Input Watts	COP
55°	60°	38.2	28.9	2749	4.1
	70°	36.1	26.5	2805	3.8
	80°	33.9	24.1	2861	3.5
70°	60°	46.6	36.1	3082	4.4
	70°	44.0	33.3	3145	4.1
	80°	41.4	30.4	3207	3.8
80°	60°	49.4	38.5	3199	4.5
	70°	46.6	35.5	3264	4.2
	80°	43.8	32.5	3329	3.9

CONDENSER WATER FLOW

Cooling Cycle Design ΔT	GPM	P.D. (Ft. of Hd.)
8°	11.6	17.8
10°	8.9	10.5
12°	7.1	6.8
14°	6.6	5.9
16	5.6	4.4



HE036

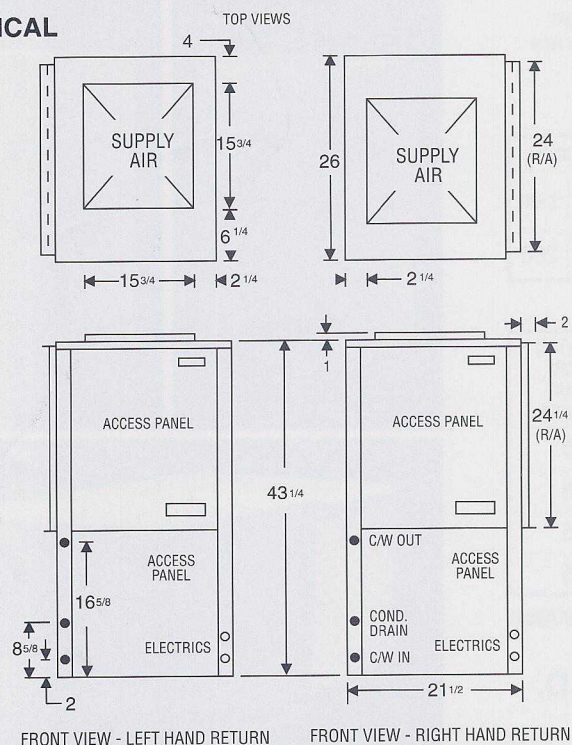
HIGH EFFICIENCY

PHYSICAL CHARACTERISTICS

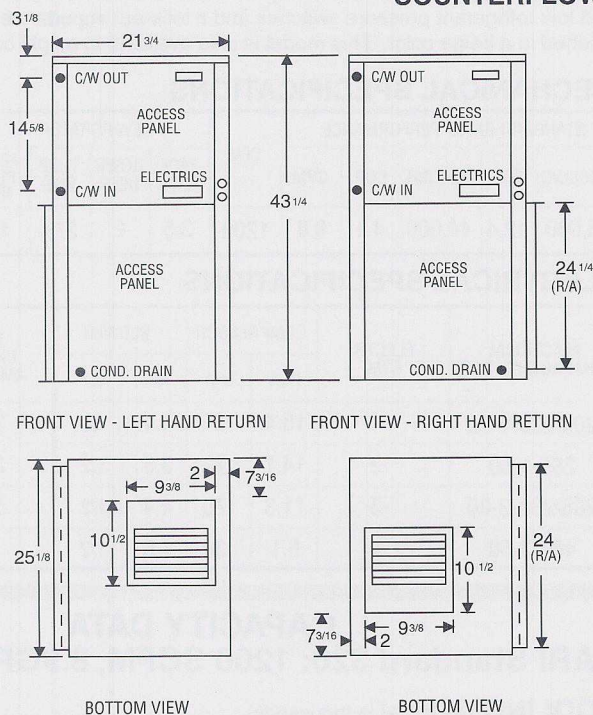
BLOWER PERFORMANCE

AVAILABLE EXTERNAL STATIC PRESSURE (In. H ₂ O including allowance for wet coil and filter)												
FAN SPEED	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0	1.1	1.2
HIGH	1390	1320	1250	1190	1100	1000	890	800	-	-	-	-
MED.	1280	1200	1160	1070	1000	890	-	-	-	-	-	-
LOW	1100	1050	1000	925	800	-	-	-	-	-	-	-

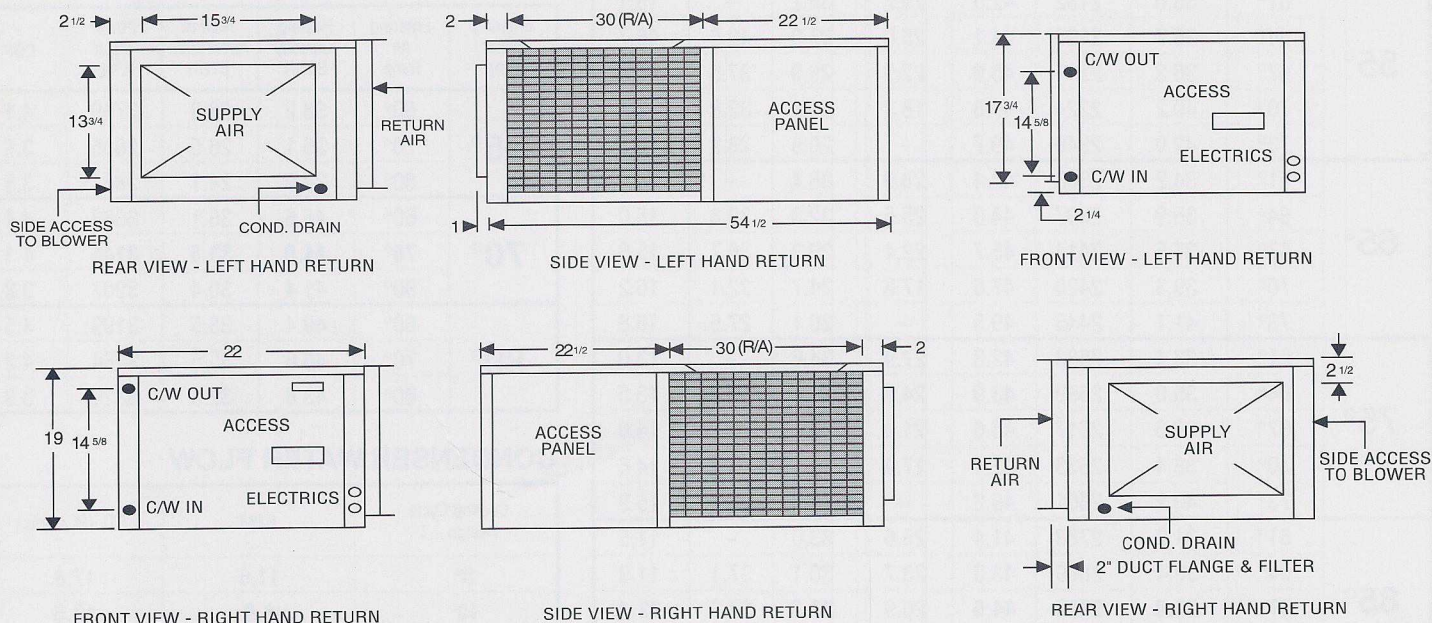
VERTICAL



COUNTERFLOW



HORIZONTAL



OPTIONAL STRAIGHT-THRU AIR CONFIGURATION

CONDENSER WATER CONNECTIONS: 3/4" F.P.T.
CONDENSATE DRAIN CONNECTION: 3/4" F.P.T.
FILTER SIZE: VT, CF 24" X 24" X 1" ; HZ 17 1/2" X 30" X 1"

As a result of continuing research and development, all ratings and specifications are subject to change without notice.



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FHP SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

HE040

HIGH EFFICIENCY

Units are complete packages containing all refrigeration components: compressor, reversing valve, capillary tube metering device and water-to-refrigerant condenser. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out impedance relay. The units are finished in a beige color. This model is also available in a split configuration.

MECHANICAL SPECIFICATIONS

STANDARD RATED PERFORMANCE					CFM	EVAPORATOR				BLOWER	WEIGHT	
COOLING	EER	HEATING	COP	GPM		FACE AREA	ROWS DEEP	TUBE SIZE	FINS PER IN.		NET	SHIP
39,000	11.7	52,500	4.2	10.2	1500	3.5	3	3/8	14	10 X 8	267	287

ELECTRICAL SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	ELECTR. SYM.	COMPRESSOR		BLOWER		MIN. CIRCUIT AMPACITY	FUSE (T/D) HACR CIRCUIT BREAKER
		RLA	LRA	NPA	H.P.		
208/230-1-60	-1	16.2	96.0	4.4	1/2	24.7	40
208/230-3-60	-3	10.3	75.0	4.4	1/2	17.3	25
460-3-60	-4	4.3	40.0	1.8	1/2	7.2	15
575-3-60	-5	3.7	31.0	2.6	3/4	7.3	15

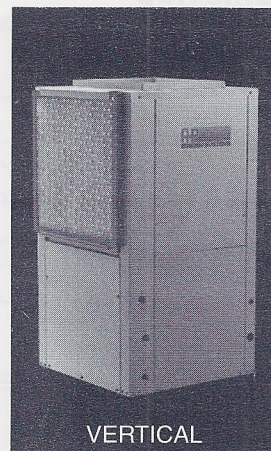
CAPACITY DATA

ARI Standard 320: 1500 SCFM, 10.2GPM/12.2' P.D.

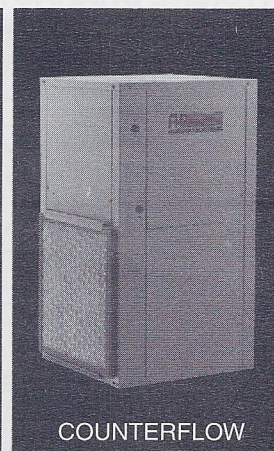
COOLING (All BTUH in thousands)

Entering Water Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH Ent. Air Dry Bulb °F			EER
					75°	80°	85°	
55°	61°	39.0	2581	47.8	32.5	40.3	—	15.1
	64°	40.9	2596	49.7	29.0	36.8	45.3	15.8
	67°	42.7	2615	51.7	25.5	33.3	41.8	16.4
	70°	44.8	2630	53.8	20.3	28.1	36.6	17.0
	73°	46.8	2649	55.9	—	22.9	31.4	17.7
65°	61°	38.2	2818	47.8	31.8	39.4	—	13.6
	64°	40.0	2835	49.6	28.4	36.0	44.3	14.1
	67°	41.8	2855	51.5	25.0	32.6	40.9	14.7
	70°	43.8	2872	53.6	19.9	27.5	35.8	15.3
	73°	45.8	2892	55.7	—	22.4	30.7	15.9
75°	61°	37.3	3055	47.7	31.1	38.5	—	12.2
	64°	39.0	3073	49.5	27.7	35.2	43.3	12.7
	67°	40.8	3095	51.4	24.4	31.8	39.9	13.2
	70°	42.8	3113	53.4	19.4	26.9	35.0	13.8
	73°	44.7	3125	55.4	—	21.9	30.0	14.3
85°	61°	35.6	3292	46.8	29.6	36.8	—	10.8
	64°	37.2	3312	48.5	26.4	33.6	41.3	11.3
	67°	39.0	3335	50.3	23.3	30.4	38.1	11.7
	70°	40.8	3355	52.3	18.5	25.6	33.4	12.2
	73°	42.7	3378	54.2	—	20.9	28.6	12.7
95°	61°	32.4	3525	44.5	27.0	33.5	—	9.2
	64°	34.0	3547	46.1	24.1	30.6	37.7	9.6
	67°	35.5	3572	47.7	21.2	27.7	34.7	10.0
	70°	37.2	3593	49.5	16.9	23.4	30.4	10.4
	73°	38.9	3618	51.3	—	19.1	26.1	10.8

BOLD DATA ARE AT ARI STANDARD 320 RATING CONDITIONS.



VERTICAL



COUNTERFLOW



HORIZONTAL

HEATING

Entering Water Temp.	Entering Air Temp.	Heating Capacity BTUH	Heat of Absorption BTUH	Power Input Watts	COP
55°	60°	45.6	34.7	3199	4.2
	70°	43.0	31.9	3265	3.9
	80°	40.4	29.1	3330	3.6
70°	60°	55.6	43.4	3587	4.5
	70°	52.5	40.0	3660	4.2
	80°	49.3	36.6	3733	3.9
80°	60°	58.9	46.2	3723	4.6
	70°	55.6	42.6	3799	4.3
	80°	52.3	39.0	3875	4.0

CONDENSER WATER FLOW

Cooling Cycle Design ΔT	GPM	P.D. (Ft. of Hd.)
8°	12.9	20.3
10°	10.2	12.2
12°	9.0	9.2
14°	7.6	7.9
16°	6.2	3.0





SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

HE041

HIGH EFFICIENCY

Units are complete packages containing all refrigeration components: compressor, reversing valve, capillary tube metering device and water-to-refrigerant condenser. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out impedance relay. The units are finished in a beige color. This model is also available in a split configuration.

MECHANICAL SPECIFICATIONS

STANDARD RATED PERFORMANCE					CFM	EVAPORATOR				BLOWER	WEIGHT	
COOLING	EER	HEATING	COP	GPM		FACE AREA	ROWS DEEP	TUBE SIZE	FINS PER IN.		NET	SHIP
40,500	11.0	51,000	3.8	10.6	1200	2.3	4	3/8	12	10 X 8	237	247

ELECTRICAL SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	ELECTR. SYM.	COMPRESSOR		BLOWER		MIN. CIRCUIT AMPACITY	FUSE (T/D) HACR CIRCUIT BREAKER
		RLA	LRA	NPA	H.P.		
208/230-1-60	-1	21.3	95.0	4.4	1/2	31.1	50
208/230-3-60	-3	13.3	73.4	4.4	1/2	21.1	30
460-3-60	-4	6.0	37.7	1.8	1/2	9.3	15
575-3-60	-5	5.2	36.0	2.6	3/4	9.0	15

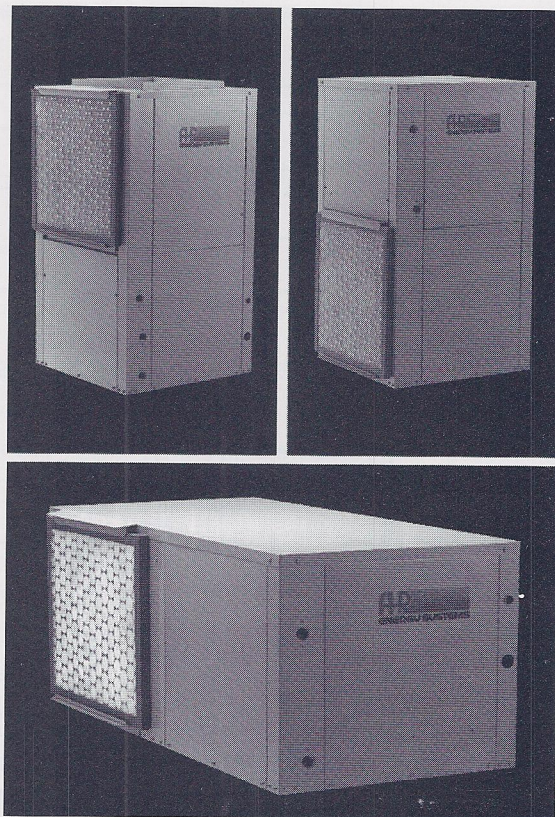
CAPACITY DATA

ARI Standard 320: 1200 SCFM, 10.6GPM/16.2' P.D.

COOLING (All BTUH in thousands)

Entering Water Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH Ent. Air Dry Bulb °F			EER
					75°	80°	85°	
55°	61°	40.6	2849	50.3	33.8	40.6	—	14.2
	64°	42.5	2866	52.3	30.2	38.3	42.4	14.8
	67°	44.4	2886	54.3	26.5	34.6	42.2	15.4
	70°	46.5	2904	56.5	21.1	29.2	38.0	16.0
	73°	48.7	2924	58.7	—	23.9	32.7	16.7
65°	61°	39.7	3110	50.3	33.1	39.7	—	12.8
	64°	41.5	3129	52.2	29.5	37.5	41.5	13.3
	67°	43.4	3151	54.2	25.9	33.8	41.3	13.8
	70°	45.5	3170	56.4	20.7	26.6	37.2	14.4
	73°	47.6	3192	58.5	—	23.3	32.0	14.9
75°	61°	38.8	3372	50.3	32.3	38.8	—	11.5
	64°	40.6	3392	52.2	28.8	36.6	40.6	12.0
	67°	42.4	3416	54.1	25.4	33.1	40.4	12.4
	70°	44.5	3437	56.2	20.2	27.9	36.4	12.9
	73°	46.5	3461	58.3	—	22.8	31.2	13.4
85°	61°	37.0	3634	49.4	30.8	37.0	—	10.2
	64°	38.7	3656	51.2	27.5	34.9	38.7	10.6
	67°	40.5	3682	53.1	24.2	31.6	38.5	11.0
	70°	42.4	3704	55.1	19.3	26.7	34.7	11.5
	73°	44.4	3729	57.2	—	21.8	29.8	11.9
95°	61°	33.7	3892	47.0	28.1	33.7	—	8.7
	64°	35.3	3915	48.7	25.1	31.8	35.3	9.0
	67°	36.4	3943	50.4	22.1	28.8	35.1	9.2
	70°	37.7	3967	52.3	17.6	24.3	31.6	9.5
	73°	40.5	3994	54.1	—	19.9	27.2	10.1

BOLD DATA ARE AT ARI STANDARD 320 RATING CONDITIONS.



HEATING

Entering Water Temp.	Entering Air Temp.	Heating Capacity BTUH	Heat of Absorption BTUH	Power Input Watts	COP
55°	60°	44.3	32.6	3437	3.8
	70°	41.8	29.8	3507	3.5
	80°	39.3	27.1	3577	3.2
70°	60°	54.1	40.9	3853	4.1
	70°	51.0	37.6	3932	3.8
	80°	47.9	34.3	4010	3.5
80°	60°	57.3	43.4	3999	4.2
	70°	54.1	40.1	4081	3.9
	80°	50.8	36.6	4163	3.6

CONDENSER WATER FLOW

Cooling Cycle Design ΔT	GPM	P.D. (Ft. of Hd.)
8°	13.3	23.0
10°	10.6	16.2
12°	8.8	10.4
14°	7.6	7.8
16°	6.6	6.1



HE041

HIGH EFFICIENCY

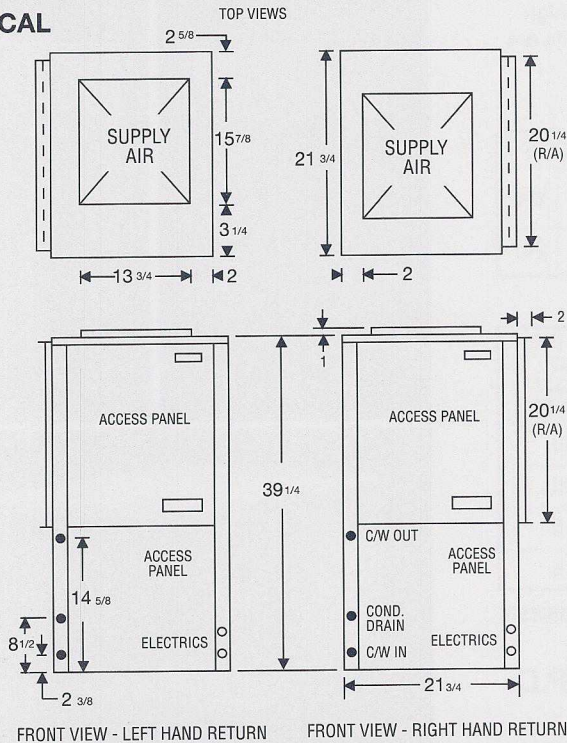
PHYSICAL CHARACTERISTICS

BLOWER PERFORMANCE

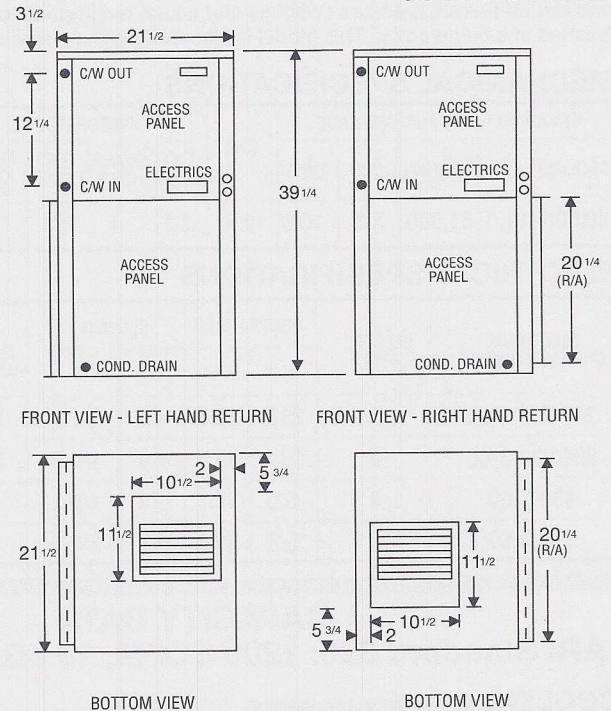
Note: 575 Volt models available in high speed only.
Models blower performance (CFM) x1.05

AVAILABLE EXTERNAL STATIC PRESSURE (In. H ₂ O including allowance for wet coil and filter)												
FAN SPEED	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0	1.1	1.2
HIGH	1390	1320	1250	1190	1100	1000	890	800	-	-	-	-
MED.	1280	1200	1160	1070	1000	890	-	-	-	-	-	-
LOW	1100	1050	1000	925	800	-	-	-	-	-	-	-

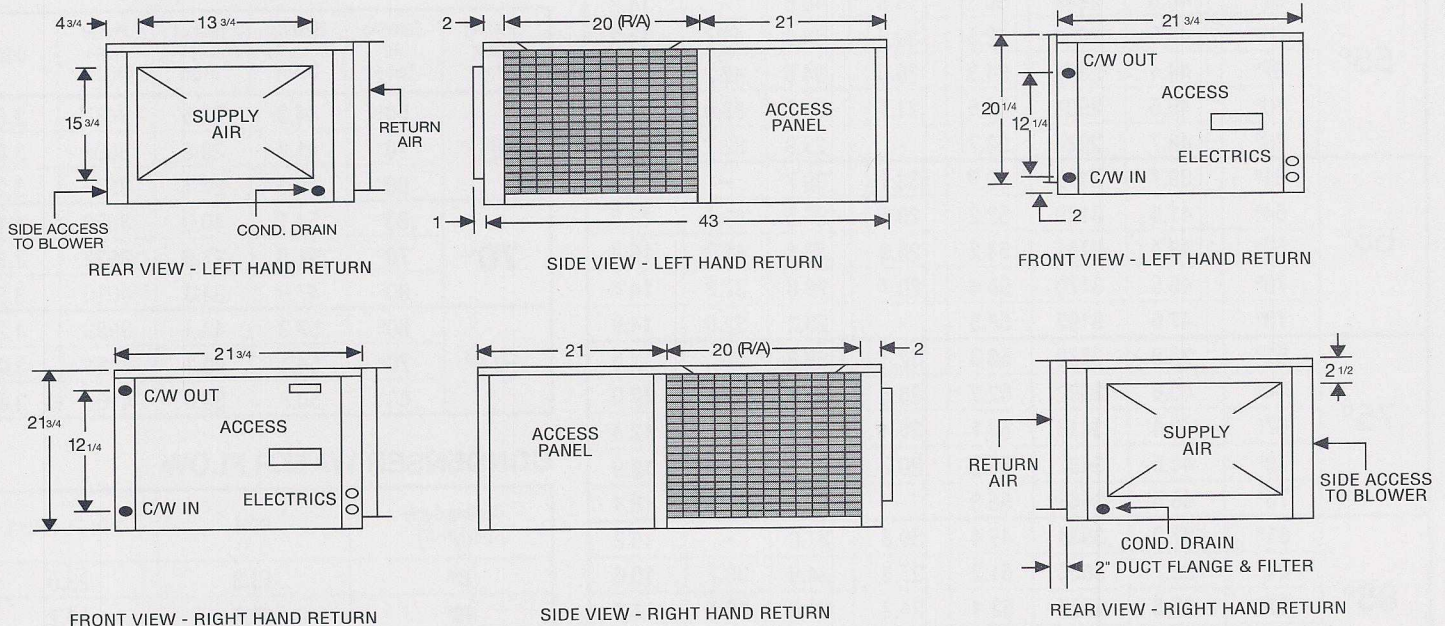
VERTICAL



COUNTERFLOW



HORIZONTAL



OPTIONAL STRAIGHT-THRU AIR CONFIGURATION AVAILABLE

CONDENSER WATER CONNECTIONS: 3/4" F.P.T.
CONDENSATE DRAIN CONNECTION: 3/4" F.P.T.
FILTER SIZE: VT, CF 20" X 22 1/4" X 1" ; HZ 20" X 20" X 1"

As a result of continuing research and development, all ratings and specifications are subject to change without notice. Rev. 10/94



a HARROW company

FHP MANUFACTURING
601 N.W. 65th COURT
FT. LAUDERDALE, FL 33309
PHONE: (305) 776-5471
FAX: (305) 776-5529

FLP SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

DISCONTINUED
HE042
HIGH EFFICIENCY

Units are complete packages containing all refrigeration components: compressor, reversing valve, capillary tube metering device and water-to-refrigerant condenser. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out impedance relay. The units are finished in a beige color. This model is also available in a split configuration.

MECHANICAL SPECIFICATIONS

STANDARD RATED PERFORMANCE					CFM	EVAPORATOR				BLOWER	WEIGHT	
COOLING	EER	HEATING	COP	GPM		FACE AREA	ROWS DEEP	TUBE SIZE	FINS PER IN.		NET	SHIP
42,000	11.6	53,500	4.1	11.0	1500	3.5	3	3/8	14	10 X 8	267	287

ELECTRICAL SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	ELECTR. SYM.	COMPRESSOR		BLOWER		MIN. CIRCUIT AMPACITY	FUSE (T/D) HACR CIRCUIT BREAKER
		RLA	LRA	NPA	H.P.		
208/230-1-60	-1	19.2	88.0	4.4	1/2	28.4	45
208/230-3-60	-3	11.6	65.0	4.4	1/2	18.9	30
460-3-60	-4	5.4	33.0	1.8	1/2	8.6	15
575-3-60	-5	5.2	36.0	2.6	3/4	9.1	15

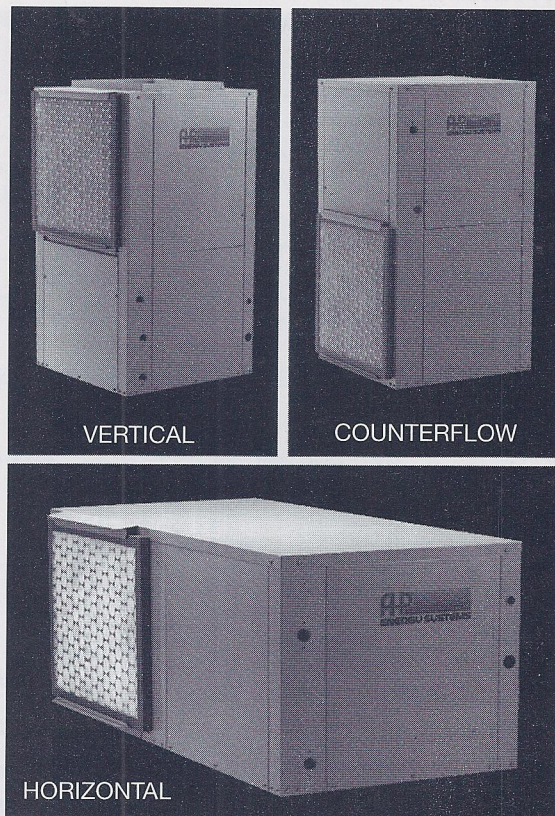
CAPACITY DATA

ARI Standard 320: 1500 SCFM, 11.0GPM/19.8' P.D.

COOLING (All BTUH in thousands)

Entering Water Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH Ent. Air Dry Bulb °F			EER
					75°	80°	85°	
55°	61°	42.1	2801	51.6	35.1	42.1	—	15.0
	64°	44.0	2818	53.7	31.3	39.7	44.0	15.6
	67°	46.1	2838	55.8	27.5	35.9	43.8	16.2
	70°	48.3	2855	58.0	21.9	30.3	39.5	16.9
	73°	50.5	2874	60.3	—	24.8	33.9	17.6
65°	61°	41.1	3058	51.6	34.3	41.1	—	13.5
	64°	43.1	3077	53.6	30.6	38.8	43.1	14.0
	67°	45.1	3098	55.6	26.9	35.2	42.9	14.5
	70°	47.2	3117	57.9	21.4	29.7	38.6	15.2
	73°	49.4	3139	60.1	—	24.2	33.1	15.7
75°	61°	40.2	3315	51.5	33.5	40.2	—	12.1
	64°	42.1	3335	53.5	29.9	37.9	42.8	12.6
	67°	44.0	3359	55.5	26.3	34.3	42.6	13.1
	70°	46.1	3379	57.7	20.9	29.0	37.7	13.7
	73°	48.2	3403	59.9	—	23.7	32.4	14.2
85°	61°	38.3	3572	50.5	32.0	33.3	—	10.7
	64°	40.2	3594	52.4	28.5	36.2	40.2	11.2
	67°	42.0	3620	54.4	25.1	32.8	40.0	11.6
	70°	44.0	3641	56.4	20.0	27.6	36.0	12.1
	73°	46.0	3667	58.5	—	22.6	30.9	12.6
95°	61°	35.0	3826	48.1	29.2	35.0	—	9.1
	64°	36.6	3849	49.8	26.0	33.0	36.6	9.5
	67°	38.3	3877	51.5	22.9	29.9	36.4	9.9
	70°	40.1	3900	53.5	18.2	25.2	32.8	10.3
	73°	41.9	3927	55.4	—	20.6	28.2	10.7

BOLD DATA ARE AT ARI STANDARD 320 RATING CONDITIONS.



HEATING

Entering Water Temp.	Entering Air Temp.	Heating Capacity BTUH	Heat of Absorption BTUH	Power Input Watts	COP
55°	60°	46.5	35.1	3343	4.1
	70°	43.9	32.2	3411	3.8
	80°	41.2	29.4	3480	3.5
70°	60°	56.7	43.9	3748	4.4
	70°	53.5	40.4	3825	4.1
	80°	50.3	37.0	3901	3.8
80°	60°	60.1	46.8	3890	4.5
	70°	56.7	43.2	3970	4.2
	80°	53.3	39.5	4045	3.9

CONDENSER WATER FLOW

Cooling Cycle Design ΔT	GPM	P.D. (Ft. of Hd.)
8°	13.0	27.4
10°	11.0	19.8
12°	8.5	11.9
14°	7.5	9.0
16°	6.5	6.8



HE042

HIGH EFFICIENCY

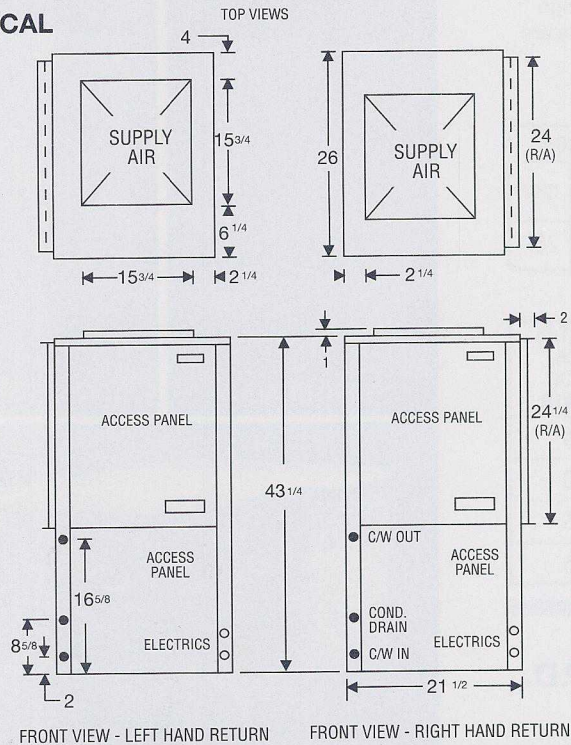
PHYSICAL CHARACTERISTICS

BLOWER PERFORMANCE

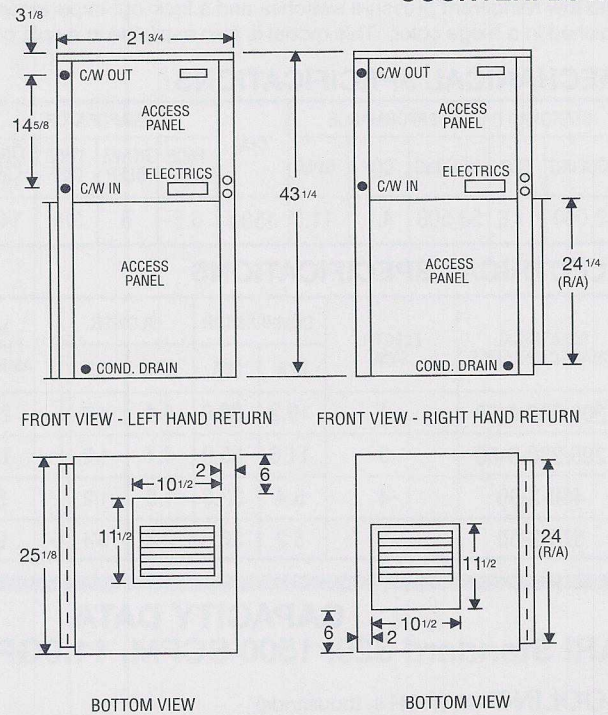
Note: 575 Volt models available in high speed only.
Models blower performance (CFM) x1.05

AVAILABLE EXTERNAL STATIC PRESSURE (In. H ₂ O including allowance for wet coil and filter)												
FAN SPEED	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0	1.1	1.2
HIGH	1740	1670	1600	1520	1430	1360	1300	1250	—	—	—	—
MED.	1690	1620	1550	1480	1390	1310	—	—	—	—	—	—
LOW	1640	1590	1510	1440	1350	—	—	—	—	—	—	—

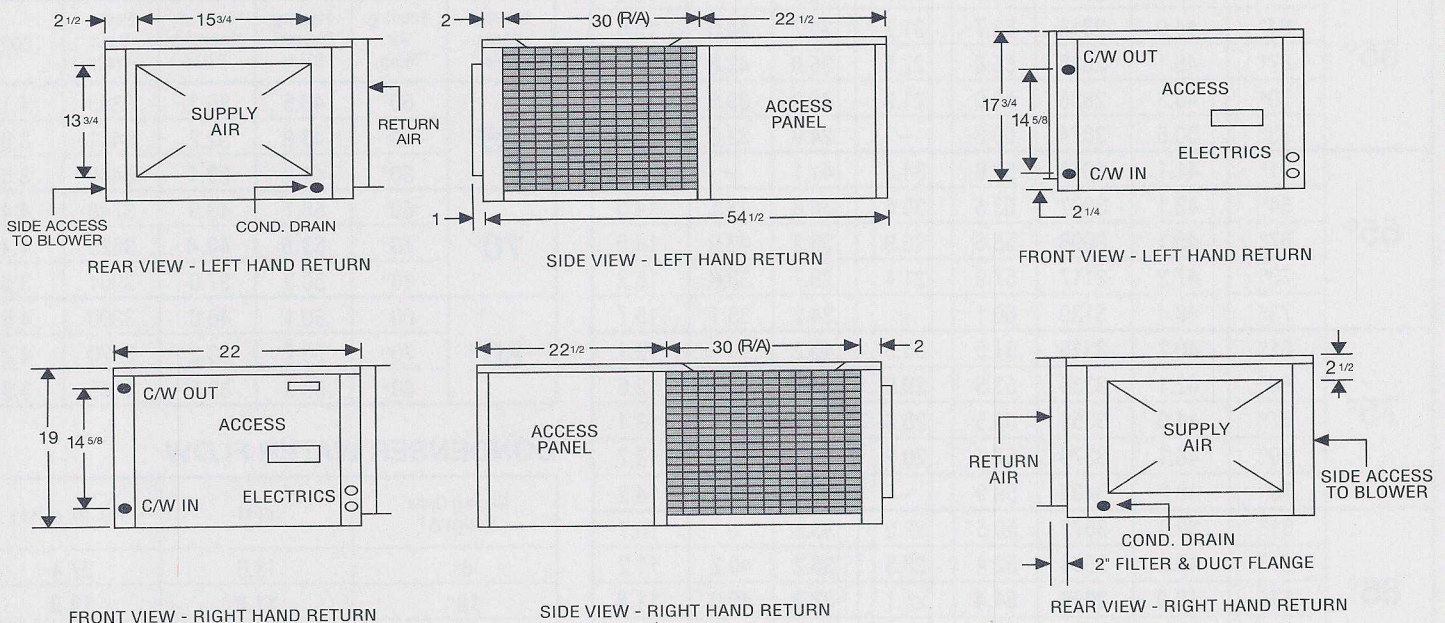
VERTICAL



COUNTERFLOW



HORIZONTAL



OPTIONAL STRAIGHT-THRU AIR CONFIGURATION

CONDENSER WATER CONNECTIONS: 3/4" F.P.T.
CONDENSATE DRAIN CONNECTION: 3/4" F.P.T.
FILTER SIZE: VT, CF 24" X 24" X 1" ; HZ 17 1/2" X 30" X 1"

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FLP SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

HE048

HIGH EFFICIENCY

Units are complete packages containing all refrigeration components: compressor, reversing valve, capillary tube metering device and water-to-refrigerant condenser. Also included are safety controls: Overload protection for motors, high and low refrigerant pressure switches and a lock-out impedance relay. The units are finished in a beige color. This model is also available in a split configuration.

MECHANICAL SPECIFICATIONS

STANDARD RATED PERFORMANCE					CFM	EVAPORATOR				BLOWER	WEIGHT	
COOLING	EER	HEATING	COP	GPM		FACE AREA	ROWS DEEP	TUBE SIZE	FINS PER IN.		NET	SHIP
47,000	12.0	61,000	4.2	12.3	1700	3.8	3	3/8	14	10 x 8	310	334

ELECTRICAL SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	ELECTR. SYM.	COMPRESSOR		BLOWER		MIN. CIRCUIT AMPACITY	FUSE (T/D) HACR CIRCUIT BREAKER
		RLA	LRA	NPA	H.P.		
208/230-1-60	-1	18.3	102	5.5	3/4	28.4	40
208/230-3-60	-3	12.7	91	5.5	3/4	21.4	30
460-3-60	-4	5.7	42	2.8	3/4	10.0	15
575-3-60	-5	4.7	39	2.6	3/4	8.5	15

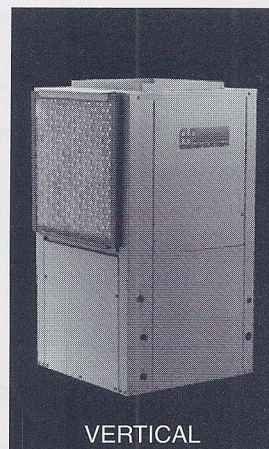
CAPACITY DATA

ARI Standard 320: 1700 SCFM, 12.3GPM/18.9' P.D.

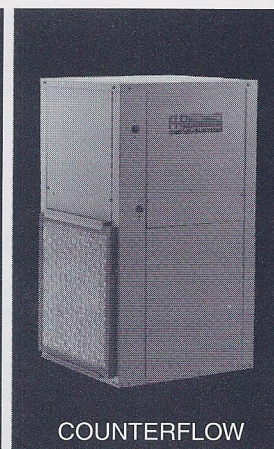
COOLING (All BTUH in thousands)

Entering Water Temp.	Ent. Air Wet Bulb Temp.	Total Capacity BTUH	Watts Input	Heat Rejection BTUH	Sensible Capacity BTUH Ent. Air Dry Bulb °F			EER
					75°	80°	85°	
55°	61°	47.0	3029	57.4	39.2	48.6	—	15.5
	64°	49.2	3048	59.6	35.0	44.4	54.6	16.2
	67°	51.5	3069	62.0	30.8	40.2	50.4	16.8
	70°	54.0	3088	64.5	24.5	33.9	44.1	17.5
	73°	56.5	3109	67.1	—	27.7	37.9	18.2
65°	61°	46.0	3308	57.3	38.3	47.5	—	13.9
	64°	48.2	3328	59.5	34.2	43.4	53.4	14.5
	67°	50.4	3351	61.8	30.1	39.3	49.3	15.0
	70°	52.8	3371	64.3	23.9	33.2	43.1	15.7
	73°	55.2	3395	66.8	—	27.1	37.0	16.3
75°	61°	44.9	3586	57.2	37.4	46.4	—	12.5
	64°	47.0	3608	59.4	33.4	42.4	52.2	13.1
	67°	49.2	3633	61.6	29.4	38.4	48.1	13.6
	70°	51.6	3655	64.0	23.4	32.4	42.1	14.1
	73°	53.9	3680	66.5	—	26.4	36.2	14.7
85°	61°	42.9	3864	56.0	35.7	44.3	—	11.1
	64°	44.9	3888	58.2	31.9	40.5	49.8	11.6
	67°	47.0	3915	60.3	28.0	36.6	45.9	12.0
	70°	49.2	3938	62.6	22.3	30.9	40.2	12.5
	73°	51.5	3966	65.0	—	25.2	34.5	13.0
95°	61°	39.1	4138	53.2	32.6	40.4	—	9.5
	64°	40.9	4164	55.1	29.1	36.9	45.4	9.8
	67°	42.8	4193	57.1	25.6	33.4	41.9	10.2
	70°	44.9	4218	59.3	20.3	28.2	36.7	10.6
	73°	46.9	4247	61.4	—	23.0	31.5	11.1

BOLD DATA ARE AT ARI STANDARD 320 RATING CONDITIONS.



VERTICAL



COUNTERFLOW



HORIZONTAL

HEATING

Entering Water Temp.	Entering Air Temp.	Heating Capacity BTUH	Heat of Absorption BTUH	Power Input Watts	COP
55°	60°	53.0	40.3	3720	4.2
	70°	50.0	37.0	3795	3.9
	80°	47.0	33.8	3871	3.6
70°	60°	64.6	50.4	4170	4.5
	70°	61.0	46.4	4255	4.2
	80°	57.3	42.5	4340	3.9
80°	60°	68.5	53.7	4328	4.6
	70°	64.6	49.5	4417	4.3
	80°	60.7	45.4	4505	4.0

CONDENSER WATER FLOW

Cooling Cycle Design ΔT	GPM	P.D. (Ft. of Hd.)
8°	15.4	26.7
10°	12.3	18.9
12°	11.4	16.8
14°	9.6	9.4
16°	7.5	7.8



HE048

HIGH EFFICIENCY

PHYSICAL CHARACTERISTICS

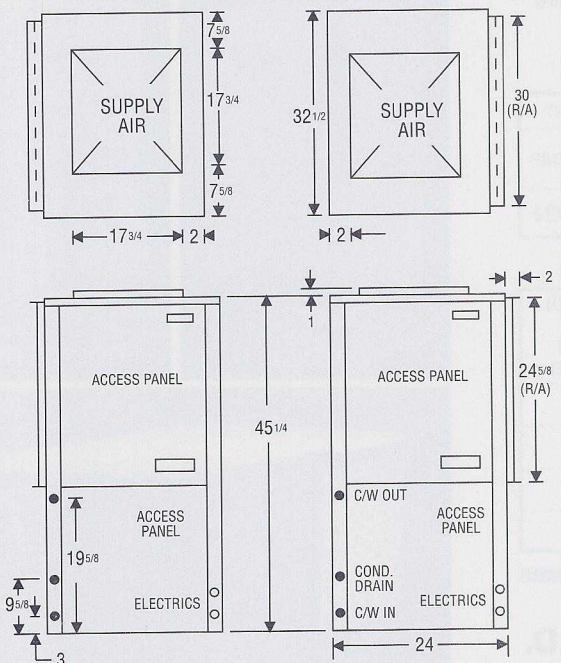
BLOWER PERFORMANCE

Note: 575 Volt models available in high speed only.
Models blower performance (CFM) x1.05

AVAILABLE EXTERNAL STATIC PRESSURE (In. H2O including allowance for wet coil and filter)												
FAN SPEED	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0	1.1	1.2
HIGH	1790	1760	1700	1620	1585	1550	1505	1460	1405	1350	-	-
MED.	1740	1710	1650	1570	1540	1510	1465	1420	-	-	-	-
LOW	1700	1670	1610	1530	1495	1460	-	-	-	-	-	-

VERTICAL

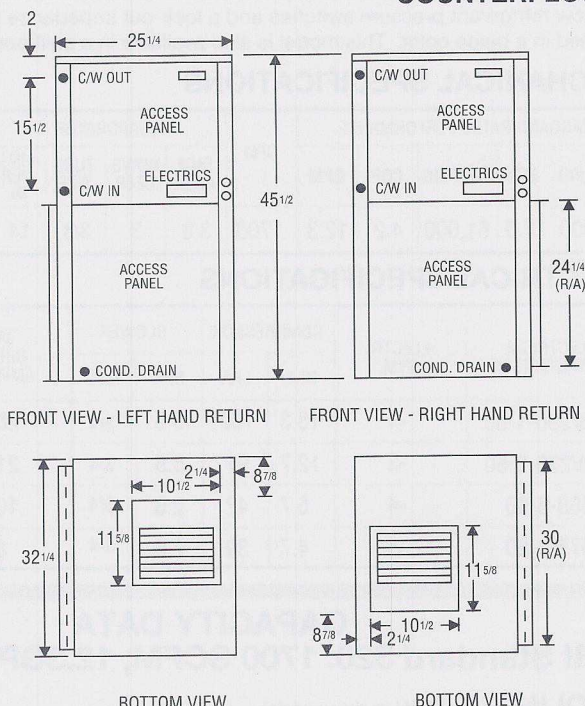
TOP VIEWS



FRONT VIEW - LEFT HAND RETURN

FRONT VIEW - RIGHT HAND RETURN

COUNTERFLOW



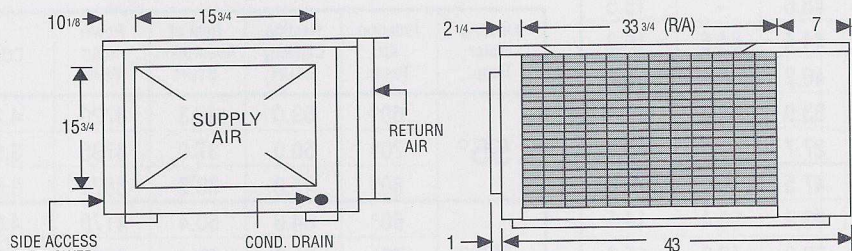
FRONT VIEW - LEFT HAND RETURN

FRONT VIEW - RIGHT HAND RETURN

BOTTOM VIEW

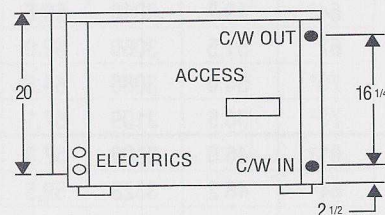
BOTTOM VIEW

HORIZONTAL

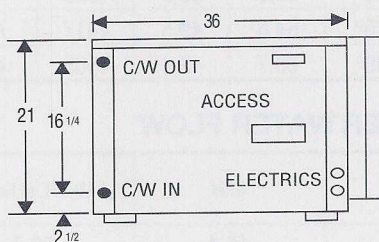


REAR VIEW - LEFT HAND RETURN

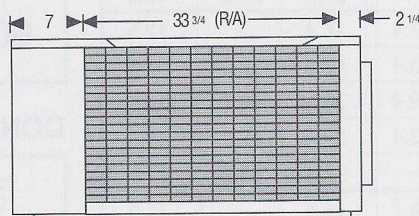
SIDE VIEW - LEFT HAND RETURN



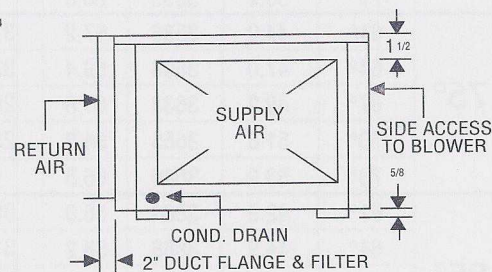
FRONT VIEW - LEFT HAND RETURN



FRONT VIEW - RIGHT HAND RETURN



SIDE VIEW - RIGHT HAND RETURN



REAR VIEW - RIGHT HAND RETURN

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CONDENSATE DRAIN CONNECTION: 3/4" F.P.T.
FILTER SIZE: VT, CF 24" X 30" X 1" ; HZ 19 1/2" X 35" 1"

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