

SE038

SUPER EFFICIENCY

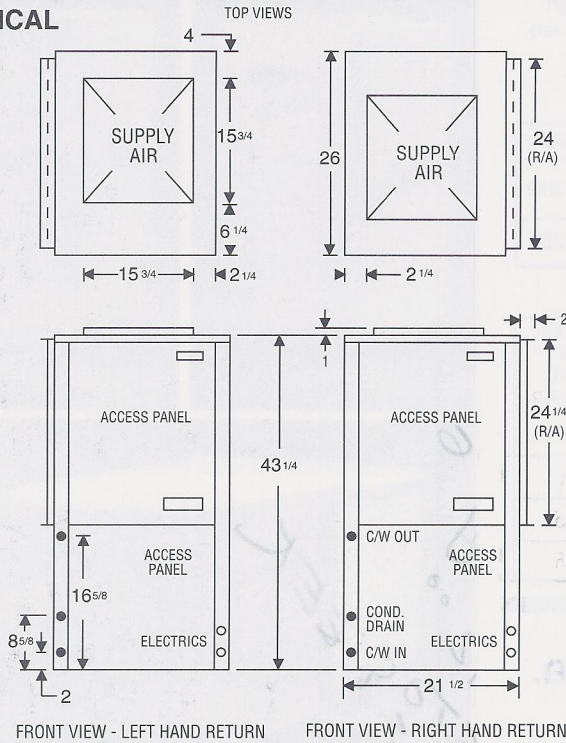
BLOWER PERFORMANCE

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

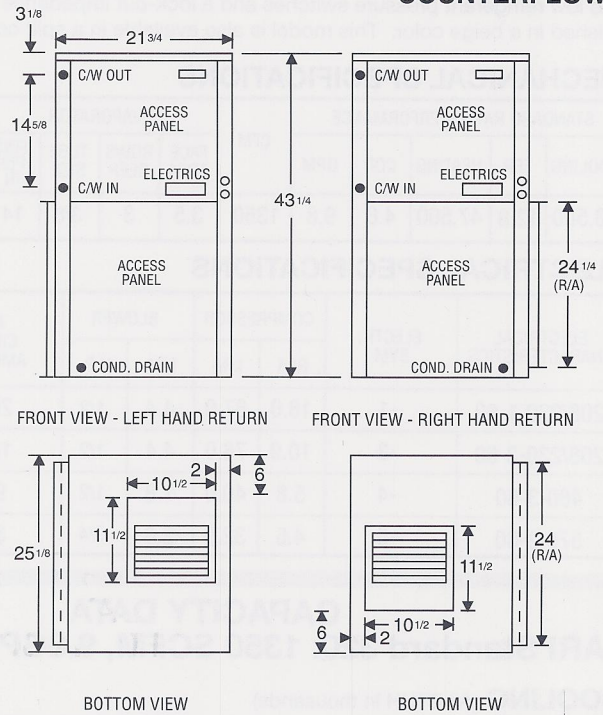
AVAILABLE EXTERNAL STATIC PRESSURE (In. H ₂ O including allowance for wet coil and filter)												
FAN SPEED	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0	1.1	1.2
HIGH	1740	1670	1600	1520	1430	1360	1300	1250	-	-	-	-
MED.	1690	1620	1550	1480	1390	1310	-	-	-	-	-	-
LOW	1640	1590	1510	1440	1350	-	-	-	-	-	-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

PHYSICAL CHARACTERISTICS

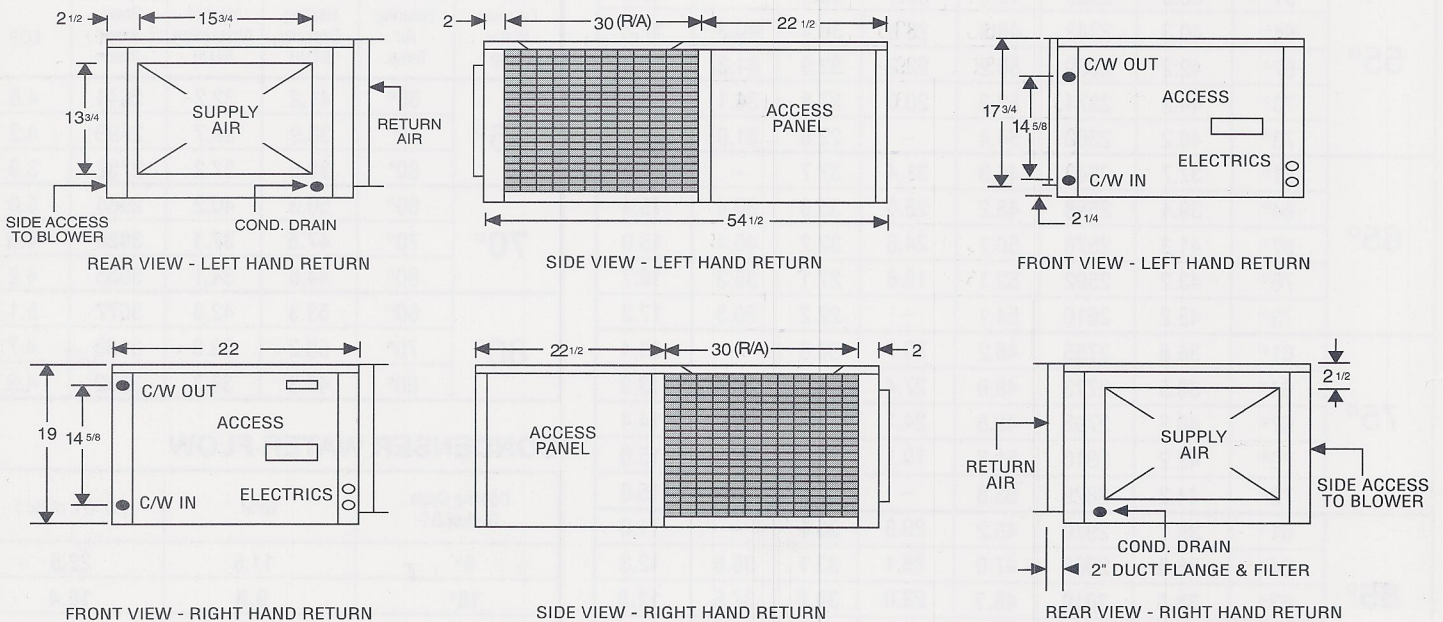
VERTICAL



COUNTERFLOW



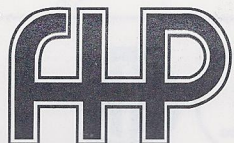
HORIZONTAL



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. 2/95



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

a HARROW company

FHP SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

SE038

SUPER 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
38,500	12.8	47,500	4.6	9.8	1350	3.5	3	3/8	14	10X8	259	269

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	18.0	87.0	4.4	1/2	26.9	40
208/230-3-60	-3	10.9	78.0	4.4	1/2	18.1	25
460-3-60	-4	5.8	40.0	1.8	1/2	9.1	15
575-3-60	-5	4.5	32.0	2.6	3/4	8.3	15

CAPACITY DATA

ARI Standard 320: 1350 SCFM, 9.8GPM/16.4' P.D.

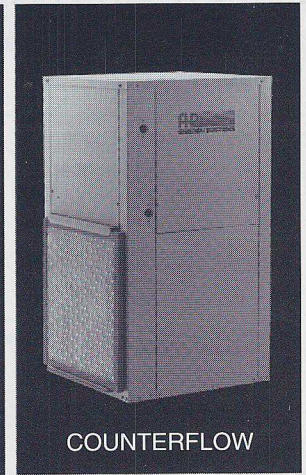
COOLING (All BTUH in thousands)

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°	38.5	2329	46.5	32.1	38.5	—	16.6
	64°	40.3	2343	48.3	28.6	36.4	40.3	17.2
	67°	42.2	2359	50.2	23.2	32.9	41.3	17.9
	70°	44.2	2374	52.3	20.0	27.8	36.1	18.6
	73°	46.2	2390	54.4	—	22.6	31.0	19.4
65°	61°	37.7	2543	46.3	31.4	37.7	—	14.8
	64°	39.4	2558	48.2	28.0	35.6	39.4	15.4
	67°	41.3	2576	50.1	24.6	32.2	40.4	16.0
	70°	43.2	2592	52.1	19.6	27.1	35.3	16.7
	73°	45.2	2610	54.1	—	22.2	30.3	17.3
75°	61°	36.8	2756	46.2	30.7	36.8	—	13.4
	64°	38.5	2773	48.0	27.4	34.7	38.5	13.9
	67°	40.3	2793	49.8	24.1	31.4	39.4	14.4
	70°	42.2	2810	51.8	19.1	26.5	34.5	15.0
	73°	44.2	2829	53.8	—	21.6	29.6	15.6
85°	61°	35.1	2970	45.2	29.3	35.1	—	11.8
	64°	36.8	2988	47.0	26.1	33.1	36.8	12.3
	67°	38.5	3010	48.7	23.0	30.0	37.6	12.8
	70°	40.3	3028	50.6	18.3	25.3	32.9	13.3
	73°	42.1	3049	52.6	—	20.6	28.3	13.8
95°	61°	32.0	3181	42.9	26.7	32.0	—	10.1
	64°	33.5	3201	44.4	23.8	30.2	33.5	10.5
	67°	35.1	3223	46.1	20.9	27.3	34.3	10.9
	70°	36.7	3243	47.8	16.7	23.1	30.0	11.3
	73°	38.4	3265	49.6	—	18.8	25.8	11.8

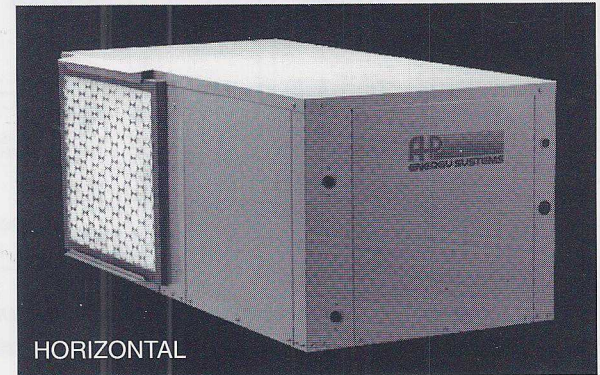
BOLD DATA ARE AT ARI STANDARD 320 RATING CONDITIONS.



VERTICAL



COUNTERFLOW



HORIZONTAL

HEATING

Entering Water Temp.	Entering Air Temp.	Heating Capacity BTUH	Heat of Absorption BTUH	Power Input Watts	COP
55°	60°	41.2	32.2	2644	4.6
	70°	38.9	29.7	2698	4.2
	80°	36.6	27.2	2752	3.9
70°	60°	50.3	40.2	2964	5.0
	70°	47.5	37.1	3025	4.6
	80°	44.6	34.1	3085	4.2
80°	60°	53.3	42.8	3077	5.1
	70°	50.3	39.6	3139	4.7
	80°	47.3	36.3	3202	4.3

CONDENSER WATER FLOW

Cooling Cycle Design ΔT	GPM	P.D. (Ft. of Hd.)
8°	11.6	22.8
10°	9.8	16.4
12°	7.6	9.8
14°	6.7	7.6
16°	5.8	5.6

