

SE053

SUPER EFFICIENCY

BLOWER PERFORMANCE

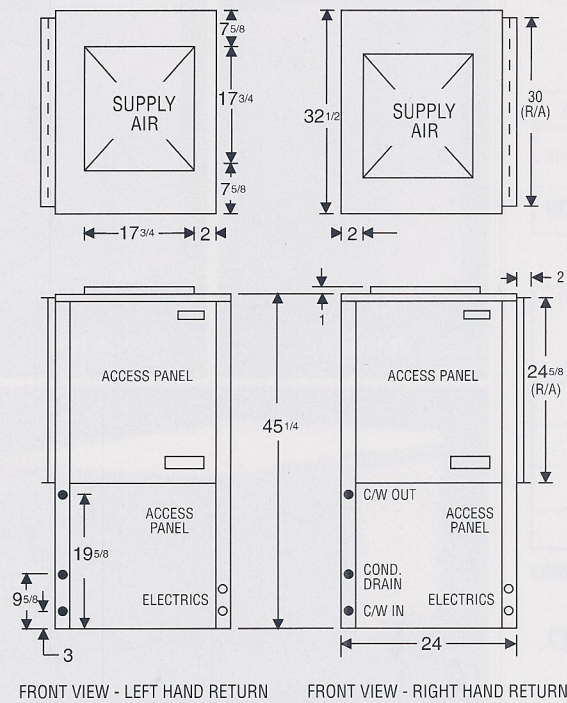
Note: 575 Volt models available in high speed only.

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	1990	1960	1900	1820	1790	1750	1700	1660	1610	1550	-	-
MED.	1940	1910	1850	1770	1740	1710	1660	1620	-	-	-	-
LOW	1900	1870	1810	1730	1710	1660	-	-	-	-	-	-

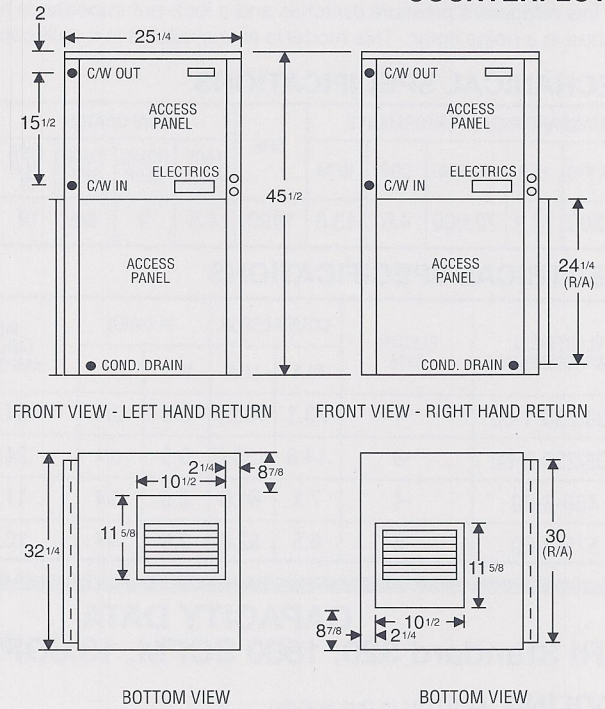
PHYSICAL CHARACTERISTICS

VERTICAL

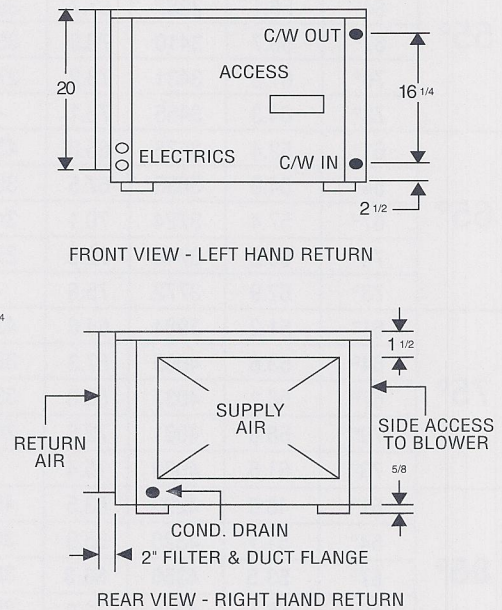
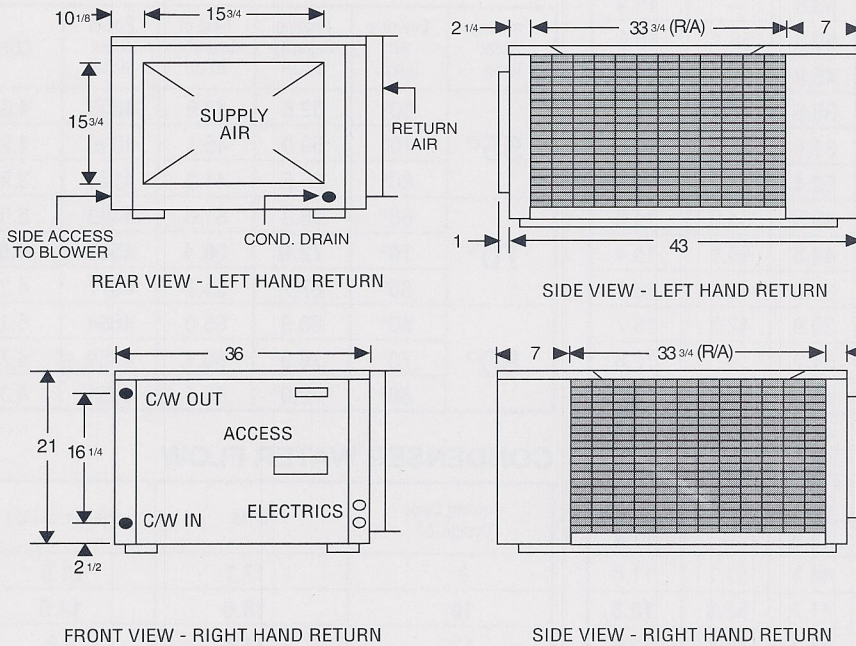
TOP VIEWS



COUNTERFLOW



HORIZONTAL



OPTIONAL STRAIGHT-THRU AIR CONFIGURATION

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

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

Rev. 6/93



a HARROW company

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FHP SPECIFICATION DATA SHEET

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

SE053

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
53,500	12.3	72,000	4.6	13.6	1800	4.5	3	3/8	14	10X8	310	330

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	23.1	105.0	5.5	3/4	34.4	50
208/230-3-60	-3	14.8	130.0	5.5	3/4	24.0	35
460-3-60	-4	7.1	64.0	2.8	3/4	11.7	15
575-3-60	-5	6.5	52.0	2.6	3/4	10.8	15

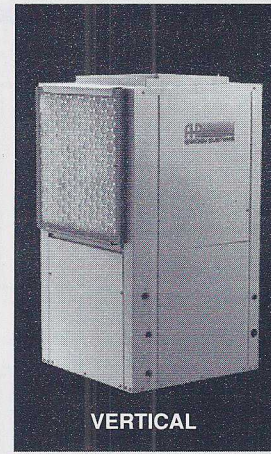
CAPACITY DATA

ARI Standard 320: 1800 SCFM, 13.6GPM/14.0' P.D.

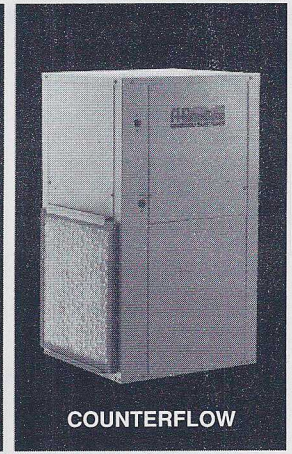
COOLING (All BTUH in thousands)

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°	53.6	3366	65.1	44.7	53.6	-	15.9
	64°	56.1	3387	67.7	39.9	50.6	56.1	16.6
	67°	58.7	3410	70.3	35.1	45.8	57.4	17.2
	70°	61.5	3431	73.2	27.9	38.6	50.3	17.9
	73°	64.3	3455	76.1	-	31.5	43.2	18.6
65°	61°	52.4	3675	65.0	43.7	52.4	-	14.3
	64°	54.9	3698	67.5	39.0	49.5	54.9	14.8
	67°	57.4	3724	70.1	34.3	44.8	56.1	15.4
	70°	60.2	3746	72.9	27.3	37.8	49.2	16.1
	73°	62.9	3772	75.8	-	30.9	42.2	16.7
75°	61°	51.2	3984	64.8	42.7	51.2	-	12.8
	64°	53.6	4009	67.3	38.1	48.3	53.6	13.4
	67°	56.1	4037	69.8	33.5	43.7	54.8	13.9
	70°	58.8	4061	72.6	26.7	36.9	48.0	14.5
	73°	61.5	4089	75.4	-	30.1	41.2	15.0
85°	61°	48.8	4293	63.5	40.7	48.8	-	11.4
	64°	51.1	4320	65.9	36.3	46.1	51.1	11.8
	67°	53.5	4350	68.3	32.0	41.7	52.3	12.3
	70°	56.1	4376	71.0	25.5	35.2	45.8	12.8
	73°	58.6	4407	73.7	-	28.8	39.4	13.3
95°	61°	44.5	4598	60.2	37.1	44.5	-	9.7
	64°	46.6	4626	62.4	33.1	42.1	46.6	10.1
	67°	48.8	4659	64.7	29.2	38.1	48.7	10.5
	70°	51.1	4687	67.1	23.2	32.1	42.7	10.9
	73°	53.7	4718	69.8	-	25.6	36.3	11.4

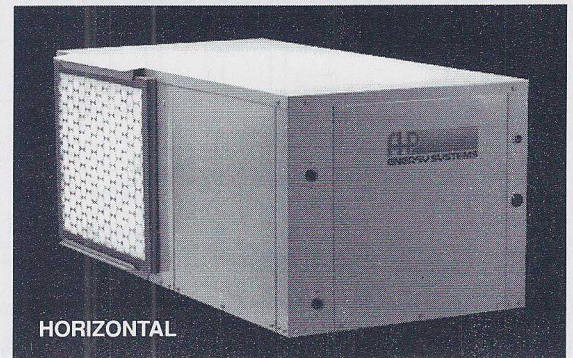
BOLD DATA ARE AT ARI STANDARD 320 RATING CONDITIONS.



VERTICAL



COUNTERFLOW



HORIZONTAL

HEATING

Entering Water Temp.	Entering Air Temp.	Heating Capacity BTUH	Heat of Absorption BTUH	Power Input Watts	COP
55°	60°	62.6	48.9	4008	4.6
	70°	59.0	45.1	4090	4.2
	80°	55.5	41.3	4172	3.9
70°	60°	76.3	61.0	4493	5.0
	70°	72.0	56.4	4585	4.6
	80°	67.7	51.7	4677	4.2
80°	60°	80.9	65.0	4664	5.1
	70°	76.3	60.1	4759	4.7
	80°	72.0	55.4	4851	4.3

CONDENSER WATER FLOW

Cooling Cycle Design ΔT	GPM	P.D. (Ft. of Hd.)
8°	17.1	21.9
10°	13.6	14.0
12°	11.4	9.9
14°	9.8	7.4
16°	8.5	5.5

