



SPECIFICATION DATA SHEET

SX024

SUPER XTRA

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elec. Sym.	COMPRESSOR		BLOWER		Min. Circuit Amp. acy*	Fuse (T/D) HACR Cir. Bkr.*
		RLA	LRA	NPA	H.P.		
208/230-1-60	-1	8.4	48	4.3	0.5	20.6	25
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Units are complete packages containing all refrigeration components: compressor, reversing valve, expansion valve 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. * Includes 0.4 for H.R.P. pump and 5.4 AMPs for external water pump.

MECHANICAL SPECIFICATIONS

EVAPORATOR				BLOWER SIZE	WEIGHT	
SQUARE FEET	ROWS DEEP	TUBE SIZE	FPI		NET	SHIP
3.5	3	3/8	14	9 x 7	240	260



ARI/CSA PERFORMANCE DATA

COOLING (ARI 325 CERTIFIED)					HEATING (ARI 325 CERTIFIED)					ARI 330/CSA-C446 CERTIFIED					
HIGH TEMP		LOW TEMP		GPM	HIGH TEMP		LOW TEMP		GPM	COOLING			HEATING		
BTUH	EER	BTUH	EER		BTUH	COP	BTUH	COP		BTUH	EER	GPM	BTUH	COP	GPM
26,200	15.5	29,200	20.3	3.0	26,000	4.4	20,200	3.7	3.0	26,200	16.6	6.0	16,000	3.3	6.0

CAPACITY DATA: All performance at 800 CFM (ARI Rated CFM)

EWT °F	GPM	COOLING										HEATING				
		Ent. Air W.B., °F	Total Btuh	Watts Input	Heat Rej. Btuh	Sensible Btuh, at ent. air dry bulb, °F			EER	WPD Ft. Hd.	Ent. Air D.B., °F	Htg. Btuh	Heat of Absorb. Btuh	Watts Inputt	COP	
						75	80	85								
45	3.0	63	28.0	1151	32.0	21.0	26.5	-	24.4	2.8	60	19.3	14.9	1290	4.4	
		67	29.8	1161	33.7	17.8	23.2	29.1	25.7		70	18.7	14.1	1358	4.0	
		71	31.7	1171	35.7	9.4	18.4	24.3	27.1		80	18.3	13.4	1420	3.8	
	4.5	63	30.3	1082	34.0	21.9	27.5	-	28.0	6.4	60	20.2	15.7	1311	4.5	
		67	32.2	1091	35.9	18.5	24.1	30.3	29.5		70	19.6	14.9	1380	4.2	
		71	34.3	1100	38.0	9.8	19.1	25.3	31.1		80	19.2	14.2	1444	3.9	
	6.0	63	32.6	1013	36.0	22.7	28.6	-	32.2	11.5	60	20.5	16.0	1330	4.5	
		67	34.6	1022	38.1	19.2	25.0	31.4	33.9		70	20.0	15.2	1399	4.2	
		71	38.8	1030	40.3	10.2	19.8	26.2	35.7		80	19.5	14.5	1463	3.9	
50	3.0	63	27.5	1216	31.6	20.6	26.0	-	22.6	2.8	60	20.8	16.3	1329	4.6	
		67	29.2	1227	33.4	17.4	22.8	28.6	23.8		70	20.2	15.4	1399	4.2	
		71	31.1	1237	35.3	9.3	18.0	24.0	25.1		80	19.6	14.6	1469	3.9	
	4.5	63	29.7	1143	33.6	21.4	27.0	-	26.0	6.4	60	21.8	17.2	1350	4.7	
		67	31.2	1153	35.5	18.1	24.0	30.0	27.4		70	21.1	16.3	1422	4.4	
		71	33.6	1163	37.6	9.6	18.8	24.8	28.9		80	20.5	15.4	1493	4.0	
	6.0	63	32.0	1070	35.6	22.2	28.0	-	29.9	11.5	60	22.2	17.5	1369	4.8	
		67	33.9	1080	37.6	18.8	24.6	30.8	31.4		70	21.6	16.7	1441	4.4	
		71	36.1	1089	39.8	10.0	19.5	25.7	33.2		80	20.9	15.8	1512	4.1	
60	3.0	63	26.1	1338	30.7	19.5	25.0	-	19.5	2.8	60	23.8	19.0	1391	5.0	
		67	27.7	1351	32.3	16.5	21.6	27.4	20.5		70	23.1	18.1	1464	4.6	
		71	29.5	1362	34.1	8.5	17.1	22.8	21.7		80	22.4	17.2	1538	4.3	
	4.5	63	28.2	1257	32.5	20.3	25.8	-	22.5	6.4	60	24.9	20.1	1413	5.2	
		67	29.9	1269	34.3	17.2	22.4	28.5	23.6		70	24.2	19.1	1488	4.8	
		71	31.9	1280	36.3	8.9	17.7	23.7	24.9		80	23.5	18.1	1562	4.4	
	6.0	63	30.4	1177	34.4	21.0	26.8	-	25.8	11.5	60	25.4	20.5	1433	5.2	
		67	32.2	1188	36.2	17.8	23.3	29.5	27.1		70	24.7	19.5	1508	4.8	
		71	34.3	1198	38.4	9.2	18.4	24.6	28.6		80	23.9	18.5	1582	4.4	
70	3.0	63	24.7	1461	29.7	18.5	23.3	-	16.9	2.8	60	26.8	21.8	1453	5.4	
		67	26.2	1474	31.2	15.6	20.4	25.6	17.8		70	26.0	20.8	1530	5.0	
		71	27.9	1486	33.0	8.3	16.2	21.4	18.8		80	25.3	19.8	1604	4.6	
	4.5	63	26.7	1373	31.4	19.2	24.2	-	19.4	6.4	60	28.0	23.0	1476	5.6	
		67	28.3	1386	33.0	16.3	21.2	26.6	20.4		70	27.2	21.9	1554	5.1	
		71	30.1	1397	34.9	8.6	16.8	22.2	21.6		80	26.5	20.9	1628	4.8	
	6.0	63	28.7	1286	33.1	20.0	25.1	-	22.3	11.5	60	28.5	23.4	1496	5.6	
		67	30.4	1297	34.9	16.9	22.0	27.6	23.5		70	27.7	22.3	1574	5.2	
		71	32.4	1308	36.9	9.0	17.5	23.0	24.8		80	27.0	21.4	1648	4.8	
85	3.0	63	20.0	1732	25.9	15.8	20.0	-	11.5	2.8	-	-	-	-	-	
		67	21.2	1749	27.2	13.4	17.5	21.2	12.1		-	-	-	-	-	-
		71	22.6	1763	28.6	6.8	13.8	18.6	12.8		-	-	-	-	-	-
	4.5	63	21.6	1629	27.2	16.4	21.0	-	13.3	6.4	-	-	-	-	-	
		67	22.9	1644	28.5	14.0	18.2	22.9	13.9		-	-	-	-	-	-
		71	24.4	1657	30.0	7.1	14.3	19.3	14.7		-	-	-	-	-	-
	6.0	63	23.2	1525	28.4	17.0	21.8	-	15.2	11.5	-	-	-	-	-	
		67	24.6	1539	30.0	14.5	18.9	24.1	16.0		-	-	-	-	-	-
		71	26.2	1551	31.5	7.4	14.9	20.1	16.9		-	-	-	-	-	-
100	3.0	63	17.7	1933	24.2	13.1	17.5	-	9.1	2.8	-	-	-	-	-	
		67	18.6	1952	25.3	11.3	14.8	18.6	9.5		-	-	-	-	-	-
		71	19.9	1967	26.6	5.2	11.5	16.3	10.1		-	-	-	-	-	-
	4.5	63	19.1	1817	25.3	13.6	18.2	-	10.5	6.4	ALL BTUH ARE THOUSANDS					
		67	20.1	1835	26.4	11.8	15.4	20.1	11.0							
		71	21.5	1849	27.8	5.4	11.9	17.0	11.6							
	6.0	63	20.5	1701	26.3	14.1	18.9	-	12.1	11.5	-	-	-	-	-	
		67	21.6	1718	27.5	12.2	15.9	21.1	12.6		-	-	-	-	-	-
		71	23.1	1731	29.0	5.6	12.4	17.6	13.3		-	-	-	-	-	-

SX024

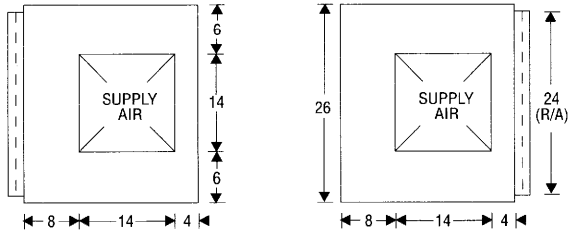
SUPER XTRA

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
+ ADJUSTMENT	◀					920						▶
NOMINAL	◀					800						▶
- ADJUSTMENT	◀					680						▶

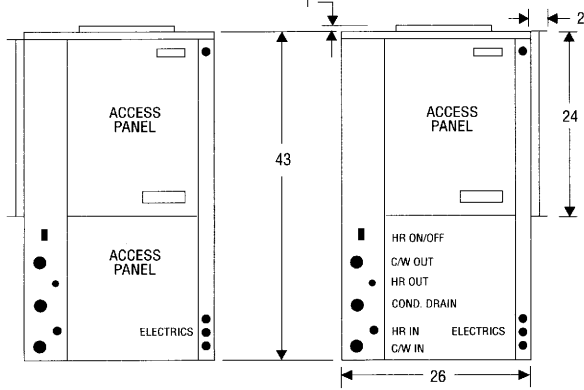
PHYSICAL CHARACTERISTICS

VERTICAL

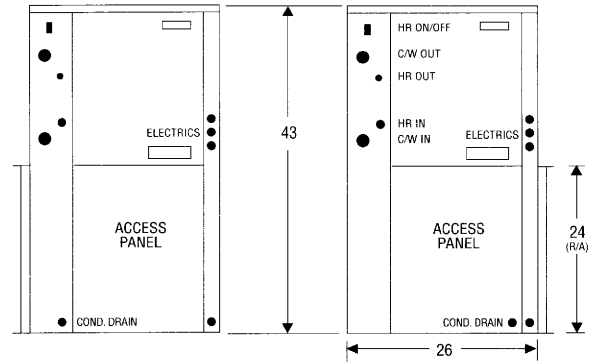


FRONT VIEW - LEFT HAND RETURN

FRONT VIEW - RIGHT HAND RETURN

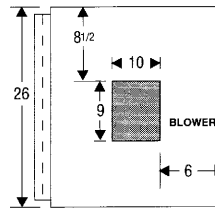


COUNTERFLOW

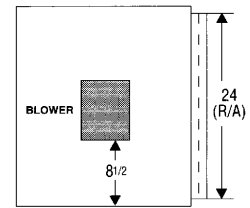


FRONT VIEW - LEFT HAND RETURN

FRONT VIEW - RIGHT HAND RETURN

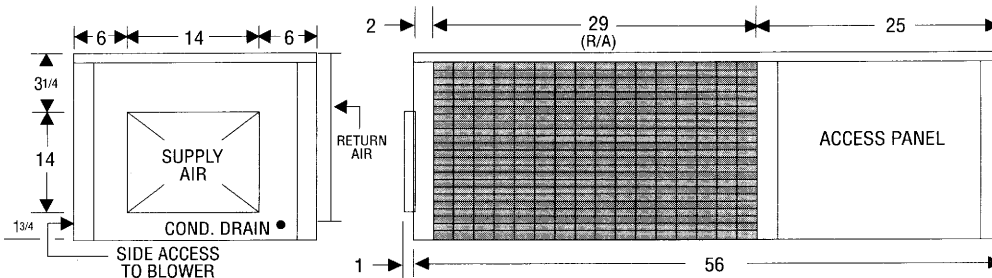


BOTTOM VIEW



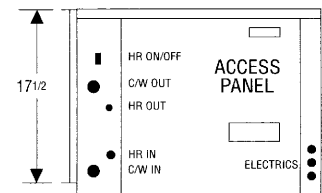
BOTTOM VIEW

HORIZONTAL

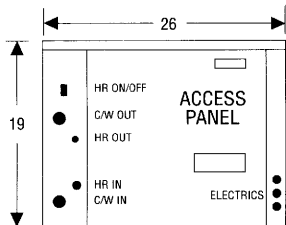


REAR VIEW - LEFT HAND RETURN

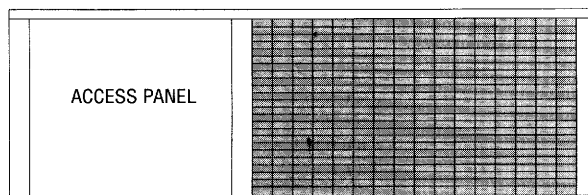
SIDE VIEW - LEFT HAND RETURN



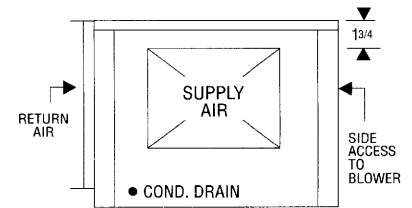
FRONT VIEW - LEFT HAND RETURN



FRONT VIEW - RIGHT HAND RETURN



SIDE VIEW - RIGHT HAND RETURN



FILTER & DUCT FLANGE REAR VIEW - RIGHT HAND RETURN



a HARROW company

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HEAT RECOVERY WATER CONNECTIONS: 1/2" F.P.T.
 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" 1"

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



SPECIFICATION DATA SHEET

SX030 SUPER XTRA

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT Pumps

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elec. Sym.	COMPRESSOR		BLOWER		Min. Circuit Ampacity*	Fuse (T/D) HACR Cir. Bkr.*
		RLA	LRA	NPA	H.P.		
208/230-1-60	-1	10.9	59	4.3	0.5	23.8	30
208/230-3-60	-3	8.7	58	4.3	0.5	21.0	25
-	-	-	-	-	-	-	-

Units are complete packages containing all refrigeration components: compressor, reversing valve, expansion valve 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. * Includes 0.4 for H.R.P. pump and 5.4 AMPs for external water pump.

MECHANICAL SPECIFICATIONS

EVAPORATOR				BLOWER SIZE	WEIGHT	
SQUARE FEET	ROWS DEEP	TUBE SIZE	FPI		NET	SHIP
3.5	3	3/8	14	9 x 7	250	270

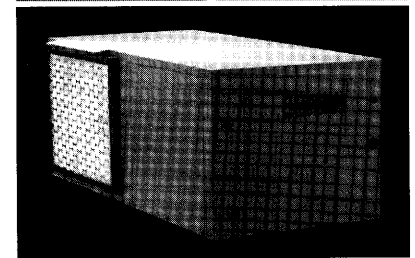
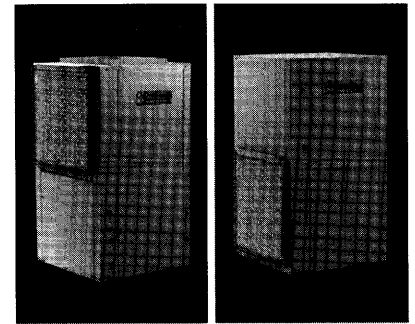


ARI/CSA PERFORMANCE DATA

COOLING (ARI 325 CERTIFIED)					HEATING (ARI 325 CERTIFIED)				ARI 330/CSA-C446 CERTIFIED							
HIGH TEMP		LOW TEMP			GPM	HIGH TEMP		LOW TEMP		GPM	COOLING			HEATING		
BTUH	EER	BTUH	EER	BTUH		COP	BTUH	COP	BTUH		EER	GPM	BTUH	COP	GPM	
31,400	14.8	34,800	19.2	4.0	34,000	4.4	26,400	3.8	4.0	31,200	16.0	7.0	21,200	3.5	7.0	

CAPACITY DATA: All performance at 1000 CFM (ARI Rated CFM)

EWT °F	GPM	COOLING										HEATING				
		Ent. Air W.B., °F	Total Btuh	Watts Input	Heat Rej. Btuh	Sensible Btuh, at ent. air dry bulb, °F			EER	WPD Ft. Hd.	Ent. Air D.B., °F	Htg. Btuh	Heat of Absorb. Btuh	Watts Input	COP	
						75	80	85								
45	4.0	63	33.4	1448	38.4	25.1	31.6	-	23.1	2.3	60	25.4	19.8	1650	4.5	
		67	35.5	1462	40.5	21.2	27.7	34.7	24.3		70	24.7	18.3	1737	4.2	
		71	37.8	1474	42.8	11.3	21.9	29.0	25.6		80	24.1	17.8	1818	3.9	
	5.5	63	35.5	1383	40.2	25.8	32.5	-	25.6	3.8	60	26.3	20.6	1658	4.6	
		67	37.7	1396	42.4	21.8	28.5	35.7	27.0		70	25.5	19.6	1745	4.3	
		71	40.1	1407	44.9	11.6	22.6	29.8	28.5		80	25.0	18.7	1827	4.0	
	7.0	63	37.5	1318	42.0	26.6	33.4	-	28.4	5.4	60	26.7	21.0	1679	4.7	
		67	39.8	1330	44.3	22.4	29.3	36.7	29.9		70	25.9	19.9	1766	4.3	
		71	42.4	1341	46.9	11.9	23.2	30.7	31.6		80	25.3	19.0	1848	4.0	
50	4.0	63	32.8	1531	38.0	24.6	30.9	-	21.4	2.3	60	27.2	21.4	1689	4.7	
		67	34.8	1545	40.1	20.8	27.1	34.0	22.5		70	26.4	20.3	1778	4.4	
		71	37.0	1558	42.3	11.0	21.5	28.4	23.8		80	25.6	19.3	1867	4.0	
	5.5	63	34.8	1462	39.8	25.3	31.8	-	23.8	3.8	60	28.2	22.4	1698	4.9	
		67	36.9	1475	42.0	21.4	27.9	35.0	25.0		70	27.4	21.3	1787	4.5	
		71	39.3	1488	44.4	11.4	22.1	29.2	26.4		80	26.5	20.1	1876	4.1	
	7.0	63	36.8	1393	41.5	26.0	32.8	-	26.4	5.4	60	28.8	23.0	1718	4.9	
		67	39.0	1406	43.8	22.0	28.7	36.0	27.8		70	28.0	22.0	1808	4.5	
		71	41.5	1417	46.4	11.7	22.8	30.1	29.3		80	27.2	20.7	1897	4.2	
60	4.0	63	31.2	1680	37.0	23.3	29.6	-	18.6	2.3	60	31.1	25.0	1791	5.1	
		67	33.1	1696	38.9	19.8	25.8	32.7	19.5		70	30.2	23.8	1885	4.7	
		71	35.2	1709	41.1	10.2	20.4	27.3	20.6		80	29.3	22.5	1980	4.3	
	5.5	63	33.1	1604	38.6	24.0	30.5	-	20.6	3.8	60	32.2	26.1	1800	5.2	
		67	35.1	1619	40.6	20.4	26.6	33.7	21.7		70	31.3	24.8	1895	4.8	
		71	37.4	1632	43.0	10.5	21.0	28.1	22.9		80	30.3	23.6	1989	4.5	
	7.0	63	35.0	1528	40.2	24.7	31.4	-	22.9	5.4	60	33.0	26.8	1821	5.3	
		67	37.1	1543	42.4	20.9	27.3	34.6	24.1		70	32.0	25.5	1917	4.9	
		71	39.5	1555	44.8	10.8	21.6	28.9	25.4		80	31.1	24.2	2011	4.5	
70	4.0	63	29.6	1829	35.8	22.2	27.9	-	16.2	2.3	60	35.0	28.6	1893	5.4	
		67	31.4	1846	37.7	18.8	24.5	30.7	17.0		70	34.0	27.2	1992	5.0	
		71	33.4	1861	39.8	10.0	19.4	25.6	17.9		80	33.1	26.0	2087	4.6	
	5.5	63	31.4	1747	37.3	22.8	28.7	-	18.0	3.8	60	36.3	30.0	1902	5.6	
		67	33.3	1763	39.3	19.3	25.2	31.6	18.9		70	35.2	29.4	2002	5.2	
		71	35.4	1778	41.5	10.3	20.0	26.4	19.9		80	34.3	28.1	2096	4.8	
	7.0	63	33.2	1665	38.8	23.5	29.6	-	19.9	5.4	60	37.0	30.5	1923	5.6	
		67	35.2	1680	40.9	20.0	25.9	32.5	21.0		70	36.0	30.0	2024	5.2	
		71	37.5	1694	43.3	10.5	20.5	27.1	22.1		80	35.0	29.0	2118	4.8	
85	4.0	63	24.7	2121	31.9	19.1	24.5	-	11.6	2.3	-	-	-	-	-	
		67	26.1	2141	33.4	16.3	21.2	26.1	12.2		70	-	-	-	-	-
		71	27.8	2158	35.2	8.3	16.7	22.6	12.9		80	-	-	-	-	-
	5.5	63	26.2	2025	33.1	19.7	25.2	-	12.9	3.8	-	-	-	-	-	
		67	27.7	2045	34.7	16.7	21.9	27.7	13.6		70	-	-	-	-	-
		71	29.5	2061	36.6	8.5	17.2	23.2	14.3		80	-	-	-	-	-
	7.0	63	27.7	1930	34.2	20.2	25.9	-	14.3	5.4	-	-	-	-	-	
		67	29.3	1948	36.0	17.2	22.5	28.7	15.0		70	-	-	-	-	-
		71	31.2	1964	38.0	8.8	17.7	23.9	15.9		80	-	-	-	-	-
100	4.0	63	21.8	2366	30.0	15.9	21.3	-	9.2	2.3	-	-	-	-	-	
		67	23.0	2390	31.3	13.7	17.9	23.0	9.6		70	-	-	-	-	-
		71	24.5	2409	32.7	6.3	13.9	19.8	10.2		80	-	-	-	-	-
	5.5	63	23.1	2260	30.8	16.4	21.9	-	10.2	3.8	-	-	-	-	-	
		67	24.4	2282	32.2	14.1	18.5	24.4	10.7		70	-	-	-	-	-
		71	26.0	2300	33.9	6.4	14.4	20.4	11.3		80	-	-	-	-	-
	7.0	63	24.4	2153	31.8	16.8	22.5	-	11.3	5.4	-	-	-	-	-	
		67	25.8	2175	33.2	14.5	19.0	25.2	11.8		70	-	-	-	-	-
		71	27.5	2192	35.0	6.6	14.8	20.9	12.5		80	-	-	-	-	-



SX030

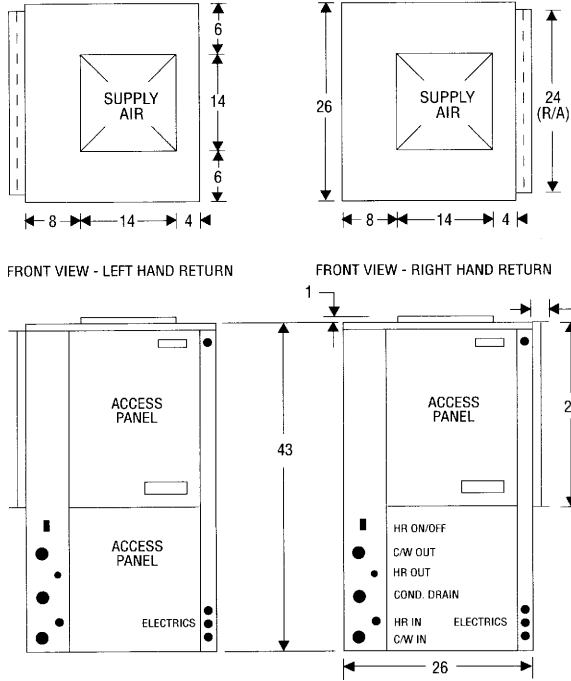
SUPER XTRA

BLOWER PERFORMANCE

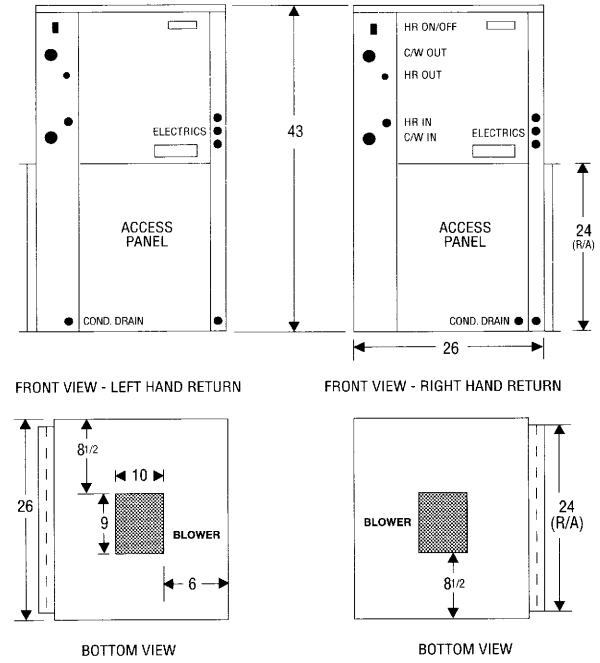
AVAILABLE EXTERNAL STATIC PRESSURE (In H ₂ O including allowance for wet coil and filter)												
FAN SPEED	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0	1.1	1.2
+ ADJUSTMENT	◀					1150						▶
NOMINAL	◀					1000						▶
- ADJUSTMENT	◀					850						▶

PHYSICAL CHARACTERISTICS

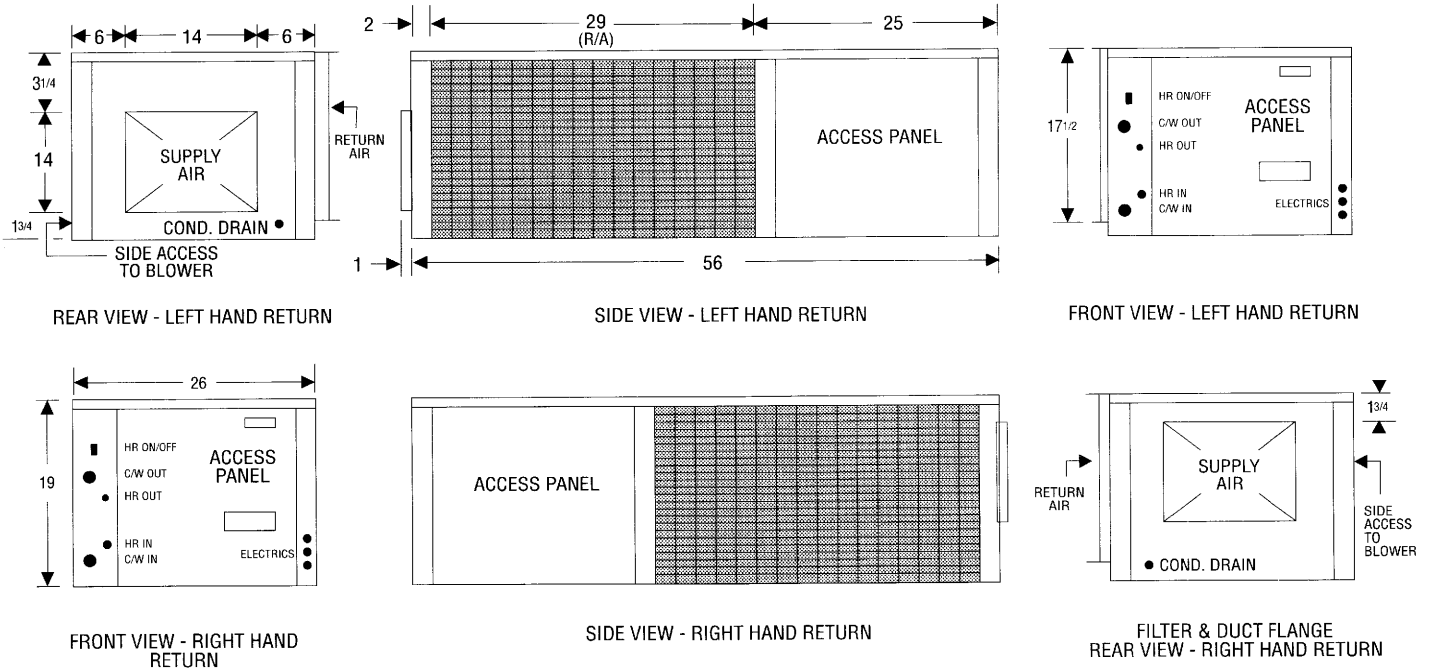
VERTICAL



COUNTERFLOW



HORIZONTAL



a HARROW company

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

HEAT RECOVERY WATER CONNECTIONS: 1/2" F.P.T.
 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.



SPECIFICATION DATA SHEET

SX036 SUPER XTRA

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT Pumps

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elec. Sym.	COMPRESSOR		BLOWER		Min. Circuit Ampacity*	Fuse (T/D) HACR Cir. Bkr.*
		RLA	LRA	NPA	H.P.		
208/230-1-60	-1	14.8	69	4.3	0.5	28.6	40
208/230-3-60	-3	9.3	68	4.3	0.5	21.8	30
-	-	-	-	-	-	-	-

Units are complete packages containing all refrigeration components: compressor, reversing valve, expansion valve 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. * Includes 0.4 for H.R.P. pump and 5.4 AMPs for external water pump.

MECHANICAL SPECIFICATIONS

EVAPORATOR				BLOWER SIZE	WEIGHT	
SQUARE FEET	ROWS DEEP	TUBE SIZE	FPI		NET	SHIP
4.5	3	3/8	14	10 x 8	350	375

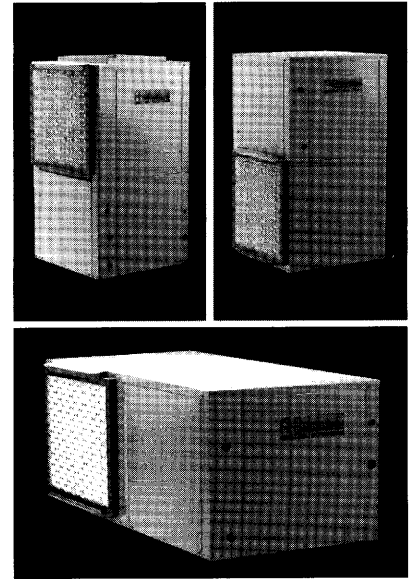


ARI/CSA PERFORMANCE DATA

COOLING (ARI 325 CERTIFIED)					HEATING (ARI 325 CERTIFIED)					ARI 330/CSA-C446 CERTIFIED					
HIGH TEMP		LOW TEMP		GPM	HIGH TEMP		LOW TEMP		GPM	COOLING			HEATING		
BTUH	EER	BTUH	EER		BTUH	COP	BTUH	COP		BTUH	EER	GPM	BTUH	COP	GPM
37,600	14.0	42,500	18.4	5.0	41,000	4.4	31,600	3.7	5.0	39,500	15.4	9.0	25,400	3.4	9.0

CAPACITY DATA: All performance at 1200 CFM (ARI Rated CFM)

EWT °F	GPM	COOLING										HEATING				
		Ent. Air W.B., °F	Total Btuh	Watts Input	Heat Rej. Btuh	Sensible Btuh, at ent. air dry bulb, °F			EER	WPD Ft. Hd.	Ent. Air D.B., °F	Htg. Btuh	Heat of Absorb. Btuh	Watts Input	COP	
						75	80	85								
45	5.0	63	40.8	1832	47.1	30.6	38.5	-	22.3	3.1	60	30.5	23.7	1983	4.5	
		67	43.4	1848	49.7	25.9	33.8	42.4	23.5		70	29.6	22.5	2087	4.2	
		71	46.1	1864	52.5	13.8	26.8	35.4	24.7		80	28.9	21.4	2183	3.9	
	7.0	63	43.5	1744	49.4	31.6	39.8	-	24.9	6.8	60	31.5	24.7	2000	4.6	
		67	46.2	1759	52.2	26.7	34.9	43.7	26.2		70	30.6	23.4	2105	4.3	
		71	49.0	1775	55.2	14.2	27.6	36.5	27.7		80	29.8	22.3	2201	4.0	
	9.0	63	46.1	1656	51.8	32.5	41.0	-	27.8	11.4	60	31.9	24.9	2037	4.6	
		67	49.0	1671	54.7	27.5	35.9	45.0	29.3		70	31.0	23.6	2144	4.2	
		71	52.1	1685	57.9	14.6	28.5	37.6	30.9		80	30.2	22.6	2240	4.0	
50	5.0	63	40.0	1936	46.6	30.0	37.8	-	20.7	3.1	60	32.5	25.6	2046	4.7	
		67	42.5	1954	49.2	25.4	33.1	41.6	21.8		70	31.6	24.2	2153	4.3	
		71	45.2	1970	51.9	13.5	26.3	34.7	23.0		80	30.7	22.9	2261	4.0	
	7.0	63	42.6	1843	48.9	31.0	39.0	-	23.1	6.8	60	33.7	26.7	2062	4.8	
		67	45.3	1860	51.6	26.2	34.2	42.9	24.3		70	32.7	25.3	2170	4.4	
		71	48.2	1876	54.6	13.9	27.1	35.8	25.7		80	31.7	23.9	2279	4.1	
	9.0	63	45.2	1750	51.2	31.9	40.2	-	25.8	11.4	60	34.3	27.3	2076	4.8	
		67	48.0	1766	54.0	27.0	35.2	44.2	27.2		70	33.3	25.9	2185	4.5	
		71	51.1	1781	57.2	14.3	27.9	36.9	28.7		80	32.4	24.5	2294	4.1	
60	5.0	63	37.8	2121	45.0	26.2	35.9	-	17.8	3.1	60	37.4	29.7	2255	4.9	
		67	40.0	2141	47.4	23.9	31.2	39.7	18.7		70	36.3	28.2	2374	4.5	
		71	42.7	2158	50.0	12.3	24.7	33.1	19.8		80	35.2	26.7	2493	4.1	
	7.0	63	40.2	2019	47.1	29.0	37.0	-	19.9	6.8	60	38.7	30.9	2273	5.0	
		67	42.6	2038	49.6	24.7	32.2	40.9	20.9		70	37.6	29.4	2393	4.6	
		71	45.4	2055	52.4	12.7	25.4	34.1	22.1		80	36.4	27.9	2513	4.2	
	9.0	63	42.7	1917	49.2	29.9	38.2	-	22.3	11.4	60	39.4	31.6	2289	5.0	
		67	45.2	1935	51.8	25.4	33.2	42.1	23.4		70	38.3	30.1	2409	4.7	
		71	48.2	1951	54.8	13.1	26.2	35.1	24.7		80	37.2	28.5	2529	4.3	
70	5.0	63	35.4	2307	43.3	26.6	33.4	-	15.3	3.1	60	42.2	33.8	2465	5.0	
		67	37.6	2328	45.5	22.5	29.3	36.8	16.2		70	41.0	32.1	2595	4.6	
		71	40.0	2347	48.0	12.0	23.2	30.7	17.0		80	39.9	30.7	2714	4.3	
	7.0	63	37.7	2197	45.2	27.4	34.5	-	17.2	6.8	60	43.7	35.2	2485	5.2	
		67	40.0	2216	47.6	23.2	30.2	37.9	18.1		70	42.4	33.5	2615	4.8	
		71	42.6	2235	50.2	12.3	24.0	31.6	19.1		80	41.3	32.0	2735	4.4	
	9.0	63	40.0	2086	47.1	28.2	35.5	-	19.2	11.4	60	44.5	35.9	2501	5.2	
		67	42.5	2105	50.0	23.9	31.2	39.1	20.2		70	43.2	34.2	2631	4.8	
		71	45.2	2122	52.4	12.7	24.7	32.6	21.3		80	42.0	32.6	2751	4.5	
85	5.0	63	31.0	2767	40.4	24.1	30.9	-	11.2	3.1	-	-	-	-	-	
		67	32.9	2793	42.4	20.5	26.8	32.9	11.8		-	-	-	-	-	
		71	35.0	2816	44.6	10.4	21.1	28.5	12.4		-	-	-	-	-	
	7.0	63	33.0	2635	42.0	24.9	31.9	-	12.5	6.8	-	-	-	-	-	
		67	35.0	2659	44.1	21.2	27.6	35.0	13.2		-	-	-	-	-	
		71	37.3	2681	46.4	10.8	21.8	29.4	13.9		-	-	-	-	-	
	9.0	63	35.0	2502	43.6	25.6	32.8	-	14.0	11.4	-	-	-	-	-	
		67	37.1	2525	45.7	21.8	28.5	36.3	14.7		-	-	-	-	-	
		71	39.5	2546	48.2	11.1	22.4	30.2	15.5		-	-	-	-	-	
100	5.0	63	27.4	3088	37.9	20.0	26.8	-	8.9	3.1	-	-	-	-	-	
		67	28.9	3118	39.5	17.3	22.6	28.9	9.3		-	-	-	-	-	
		71	30.8	3143	41.6	7.9	17.6	25.0	9.8		-	-	-	-	-	
	7.0	63	29.1	2939	39.2	20.7	27.7	-	9.9	6.8	-	-	-	-	-	
		67	30.8	2968	40.9	17.9	23.3	30.8	10.4		-	-	-	-	-	
		71	32.8	2992	43.0	8.1	18.1	25.7	11.0		-	-	-	-	-	
	9.0	63	30.9	2791	40.4	21.3	28.5	-	11.1	11.4	-	-	-	-	-	
		67	32.6	2817	42.2	18.4	24.0	31.9	11.6		-	-	-	-	-	
		71	34.8	2841	44.5	8.4	18.7	26.5	12.3		-	-	-	-	-	



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SPECIFICATION DATA SHEET

SX042

SUPER XTRA

FLORIDA HEAT PUMP HIGH-EFFICIENCY WATER SOURCE HEAT Pumps

ELECTRICAL SPECIFICATIONS

Electrical Characteristics	Elec. Sym.	COMPRESSOR		BLOWER		Min. Circuit Ampacity*	Fuse (T/D) HACR Cir. Bkr.*
		RLA	LRA	NPA	H.P.		
208/230-1-60	-1	18.0	87.0	7.0	1.0	35.8	50
208/230-3-60	-3	14.1	110.0	7.0	1.0	30.4	40
-	-	-	-	-	-	-	-

Units are complete packages containing all refrigeration components: compressor, reversing valve, expansion valve 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. * Includes 0.4 for H.R.P. pump and 5.4 AMPs for external water pump.

MECHANICAL SPECIFICATIONS

EVAPORATOR				BLOWER SIZE	WEIGHT	
SQUARE FEET	ROWS DEEP	TUBE SIZE	FPI		NET	SHIP
5.25	3	3/8	14	12x9	390	415

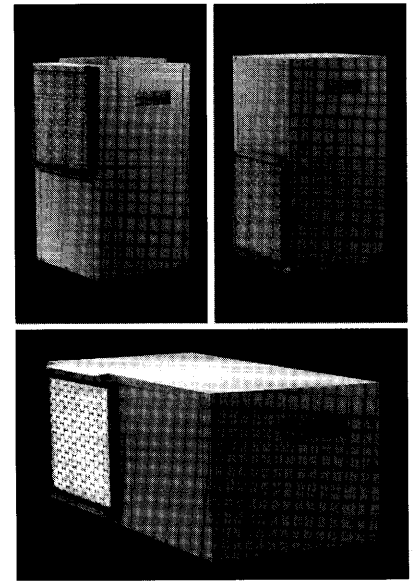


ARI/CSA PERFORMANCE DATA

COOLING (ARI 325 CERTIFIED)				HEATING (ARI 325 CERTIFIED)				ARI 330/CSA-C446 CERTIFIED							
HIGH TEMP		LOW TEMP		HIGH TEMP		LOW TEMP		COOLING			HEATING				
BTUH	EER	BTUH	EER	BTUH	COP	BTUH	COP	BTUH	EER	GPM	BTUH	COP	GPM		
45,000	14.4	50,000	19.3	5.0	47,000	4.8	37,000	3.7	5.0	45,000	15.7	10.0	30,000	3.4	10.0

CAPACITY DATA: All performance at 1400 CFM (ARI Rated CFM)

EWT °F	GPM	COOLING								HEATING					
		Ent. Air W.B., °F	Total Btuh	Watts Input	Heat Rej. Btuh	Sensible Btuh, at ent. air dry bulb, °F			EER	WPD Ft. Hd.	Ent. Air D.B., °F	Htg. Btuh	Heat of Absorb. Btuh	Watts Input	COP
						75	80	85							
45	5.0	63	48.5	2110	55.7	36.4	45.8	-	23.0	1.8	60	35.7	27.4	2433	4.3
		67	51.5	2129	58.8	30.8	40.2	50.4	24.2		70	34.6	26.0	2521	4.0
		71	54.8	2147	62.1	16.3	31.8	42.0	25.5		80	32.8	23.9	2586	3.7
	7.5	63	52.4	1983	59.2	37.8	47.6	-	26.4	5.6	60	36.6	28.2	2457	4.4
		67	55.7	2001	62.5	32.0	41.7	52.3	27.8		70	35.5	26.8	2547	4.1
		71	59.2	2018	66.1	17.0	33.1	43.7	29.4		80	33.8	24.7	2665	3.7
	10.0	63	56.4	1857	62.7	39.2	49.4	-	30.3	8.0	60	37.4	28.9	2479	4.4
		67	59.8	1874	66.2	33.2	43.3	54.3	31.9		70	36.3	27.5	2571	4.1
		71	63.7	1889	70.1	17.6	34.3	45.3	33.7		80	34.5	25.3	2689	3.8
50	5.0	63	47.1	2231	54.7	35.3	44.5	-	21.1	1.8	60	38.1	29.5	2513	4.4
		67	50.0	2251	57.7	29.9	39.0	48.9	22.2		70	37.0	28.2	2590	4.2
		71	53.2	2269	60.9	15.9	30.9	40.8	23.4		80	35.9	26.6	2720	3.9
	7.5	63	50.9	2097	58.0	36.7	46.2	-	24.3	5.6	60	39.1	30.4	2538	4.5
		67	54.1	2116	61.3	31.0	40.5	50.8	25.5		70	37.9	29.0	2616	4.2
		71	57.5	2133	64.8	16.5	32.1	42.4	27.0		80	36.8	27.4	2747	3.9
	10.0	63	54.7	1963	61.4	38.1	47.9	-	27.9	8.0	60	40.0	31.3	2563	4.6
		67	58.1	1981	64.9	32.2	42.0	52.7	29.3		70	38.9	29.8	2642	4.3
		71	61.8	1997	68.6	17.1	33.3	44.0	31.0		80	37.7	28.2	2773	4.0
60	5.0	63	44.8	2494	53.3	33.4	42.6	-	18.0	1.8	60	43.3	34.8	2483	5.1
		67	47.5	2518	56.1	28.4	37.0	47.0	18.9		70	42.0	33.3	2560	4.8
		71	50.6	2538	59.2	14.7	29.3	39.2	19.9		80	40.7	31.6	2688	4.4
	7.5	63	48.4	2345	56.4	34.7	44.2	-	20.7	5.6	60	44.3	35.8	2508	5.2
		67	51.3	2367	59.4	29.5	38.5	48.8	21.7		70	43.1	34.2	2585	4.9
		71	54.7	2386	62.8	15.2	30.4	40.7	22.9		80	41.8	32.5	2715	4.5
	10.0	63	52.1	2195	59.6	36.0	45.9	-	22.9	8.0	60	45.4	36.8	2533	5.3
		67	55.2	2216	62.8	30.6	39.9	50.6	24.9		70	44.1	35.2	2611	4.9
		71	58.8	2234	66.4	15.8	31.5	42.2	26.3		80	42.8	33.5	2741	4.6
70	5.0	63	42.4	2760	51.8	31.8	40.0	-	15.4	1.8	60	48.4	40.0	2453	5.8
		67	45.0	2785	54.5	26.9	35.1	44.0	16.2		70	47.0	38.4	2529	5.4
		71	47.9	2775	57.4	14.3	27.8	36.7	17.3		80	45.7	36.7	2657	5.0
	7.5	63	45.8	2595	54.7	33.0	41.6	-	17.7	5.6	60	49.6	41.2	2478	5.9
		67	48.6	2618	57.6	27.9	36.5	45.7	18.6		70	48.2	39.5	2554	5.5
		71	51.8	2609	60.7	14.8	28.9	38.2	19.8		80	46.9	37.7	2684	5.1
	10.0	63	49.2	2429	57.5	34.3	43.1	-	20.3	8.0	60	50.7	42.2	2503	5.9
		67	52.3	2451	60.7	29.0	37.8	47.4	21.3		70	49.2	40.4	2580	5.6
		71	55.6	2442	64.0	15.4	30.0	39.6	22.8		80	47.9	38.7	2710	5.2
85	5.0	63	34.3	3205	45.3	26.9	34.3	-	10.7	1.8	-	-	-	-	-
		67	36.4	3235	47.4	22.9	29.9	36.4	11.2		-	-	-	-	-
		71	38.7	3262	49.9	11.6	23.6	31.8	11.9		-	-	-	-	-
	7.5	63	37.1	3013	47.4	28.0	35.9	-	12.3	5.6	-	-	-	-	-
		67	39.3	3041	49.7	23.8	31.1	39.3	12.9		-	-	-	-	-
		71	41.9	3066	52.4	12.1	24.5	33.1	13.7		-	-	-	-	-
	10.0	63	39.9	2820	49.5	29.0	37.2	-	14.1	8.0	-	-	-	-	-
		67	42.3	2847	52.0	24.7	32.2	41.2	14.8		-	-	-	-	-
		71	45.0	2870	54.8	12.5	25.4	34.3	15.7		-	-	-	-	-
100	5.0	63	30.3	3576	42.5	22.1	29.7	-	8.5	1.8	-	-	-	-	-
		67	32.0	3611	44.3	19.1	25.0	32.0	8.9		-	-	-	-	-
		71	34.1	3640	46.6	8.6	19.4	27.6	9.4		-	-	-	-	-
	7.5	63	32.8	3361	44.2	22.9	30.9	-	9.7	5.6	-	-	-	-	-
		67	34.6	3394	46.2	19.9	25.9	34.5	10.2		-	-	-	-	-
		71	36.9	3422	48.6	8.9	20.1	28.7	10.8		-	-	-	-	-
	10.0	63	35.2	3147	46.0	23.8	32.0	-	11.2	8.0	-	-	-	-	-
		67	37.2	3178	48.0	20.6	26.9	35.8	11.7		-	-	-	-	-
		71	39.7	3203	50.6	9.3	20.9	29.8	12.4		-	-	-	-	-



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SX042

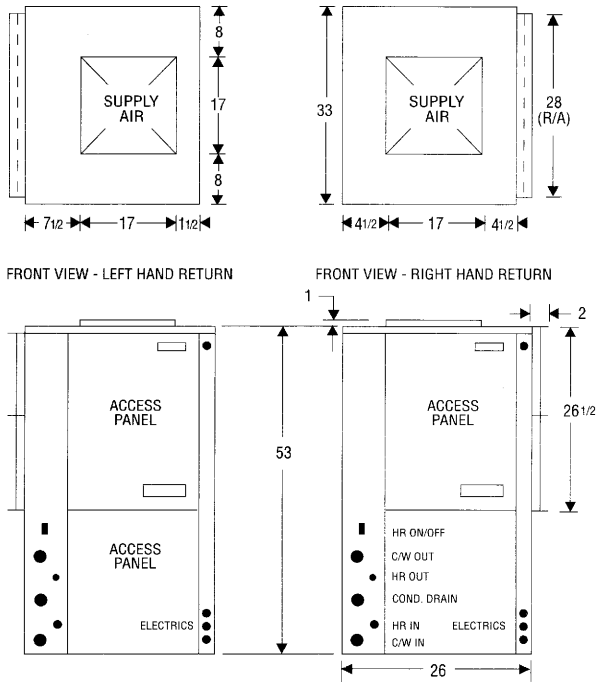
SUPER XTRA

PHYSICAL CHARACTERISTICS

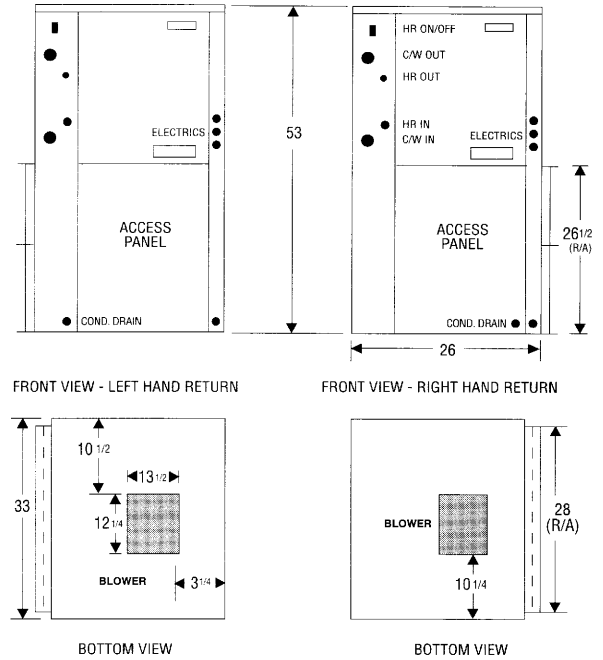
BLOWER PERFORMANCE

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
+ ADJUSTMENT	◀					1610						▶
NOMINAL	◀					1400						▶
- ADJUSTMENT	◀					1190						▶

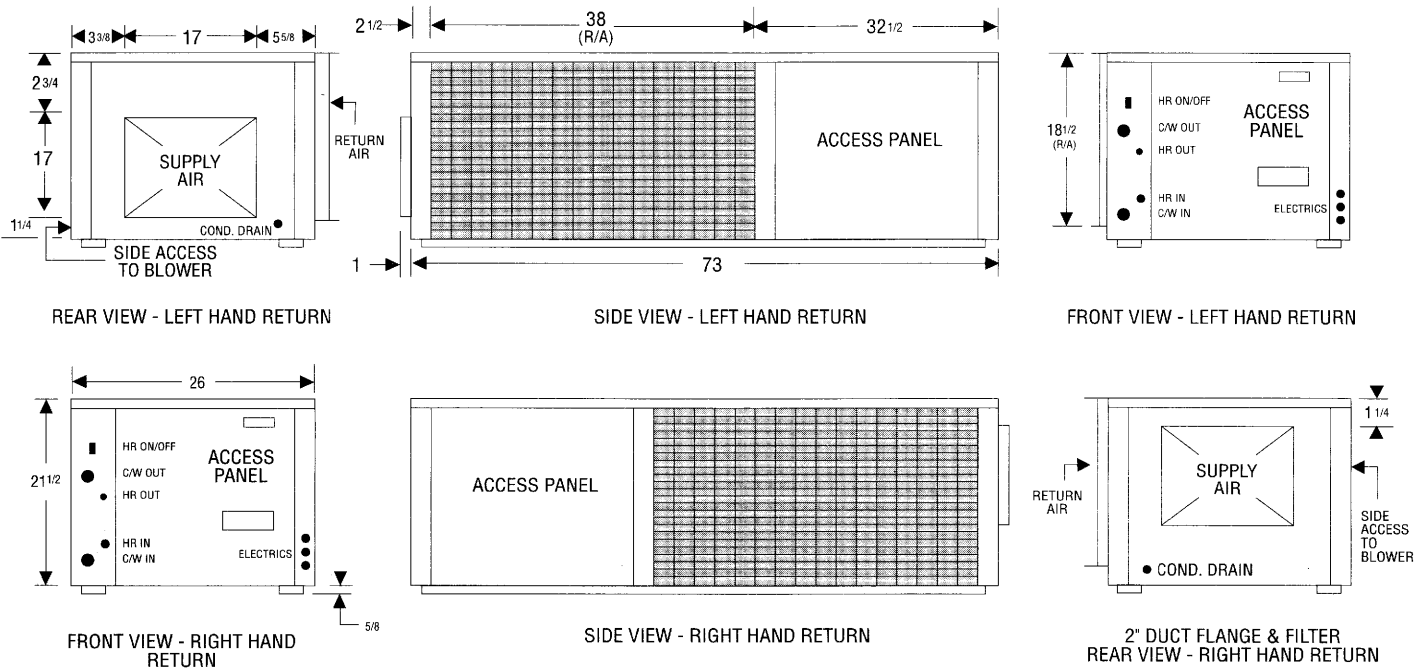
VERTICAL



COUNTERFLOW



HORIZONTAL



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

HEAT RECOVERY WATER CONNECTIONS: 1/2" F.P.T.
 CONDENSER WATER CONNECTIONS: 1" F.P.T.
 CONDENSATE DRAIN CONNECTION: 3/4" F.P.T.
 FILTER SIZE: QTY (2) VT, CF 13 1/2" X 30" X 1"; HZ 19 1/2" X 41" X 1"
 As a result of continuing research and development, all ratings and specifications are subject to change without notice. Rev. 2/95