



HYDRON-AIRE **EVI** AIR TO WATER HEAT PUMP

LEADING EDGE, INTERNATIONAL AWARD-WINNING
INNOVATION IN HEAT PUMP TECHNOLOGY SINCE 1975.

Looking for a highly flexible, high efficiency solution at a reasonable cost?

Look no further!

The Hydron-Aire EVi system is designed to provide a complete system at the best price point. Hydron-Aire EVi Air to Water Heat Pumps use innovative hydronic technology to supply energy including:

- Both heating and cooling, no need for a separate air conditioning unit
- Radiant floor heating and cooling
- Domestic hot water

EVi Air to Water Heat Pumps are the most efficient air source solution on the market today – approximately 3 to 4 times greater thermal efficiency than natural gas. Additionally, EVi's record-breaking low operating ambient temperature range (down to -30 degrees C) means less reliance on all electric and gas back up sources.

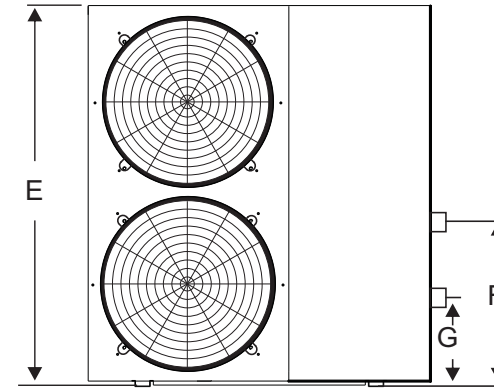
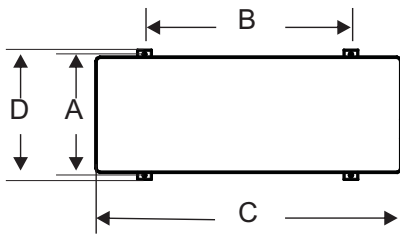
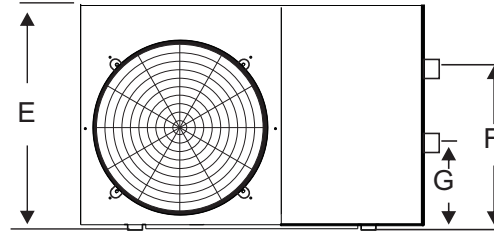
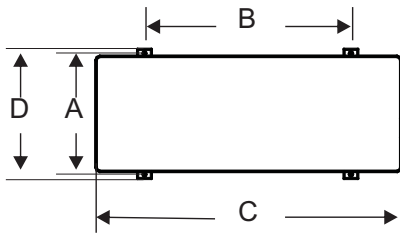
PLUS, Wi-Fi enabled controls and thermostats allow for monitoring and adjusting the system from anywhere.

We have an EVi unit to fit your application, large and small, commercial or residential. Available in sizes 035, 050, 060 and 080 with variable speed EVi compressor and variable speed fans.



HYDRON-AIRE
EVi AIR TO WATER HEAT PUMP

Product Dimensions *(in mm)*



	MODEL 035	MODEL 050	MODEL 060	MODEL 080
A (F-R Mounting port distance)	440	440	440	440
B (L-R Mounting port distance)	760	760	760	760
C (Length)	1145	1195	1195	1195
D (Width)	470	470	470	470
E (Height)	883	1285	1285	1365
F (Water connection height)	383	395	395	482
G (Water connection height)	129	130	130	130

HYDRON-AIRE EVI SYSTEM PARTNERS

- B&D Air Handlers and Pumps**

Air handlers ranging from 1-5 tons with 10kw or 15 kw electric backup and 5-speed ECM fans.
Also available 26-116 hydronic pumps.

- Braeburn Thermostats**

Wifi programmable thermostats with app control

- HBX Controls**

Available zone controls, thermostats, outdoor resets, sensors and zone stats

- Grundfos Pumps**

- Wilo Pumps**



Product Specifications

	HEVIAWHP035	HEVIAWHP060	HEVIAWHP080
POWER SUPPLY	V/P/Hz	220/1/60	220/1/60
MAXIMUM CURRENT INPUT	A	13.30	30.10
MAXIMUM POWER INPUT	KW	2.93	6.63
FLOW RATE	GPM	4.36	10.72
PRESSURE DROP	PSI	3.20	5.80
WATER INLET/OUTLET MPT	INCH	1	1
REFRIGERANT	R410A	R410A	R410A
SOUND LEVEL	dB(A)	43	46
WEIGHT	KG (LBS)	92 (202)	131 (288)
DIMENSIONS (L x W x H)	INCH	45x18.5x34.75	47x18.5x50.5
IP RATING	IPX4	IPX4	IPX4

NOTE: Heating capacity/power input/COP/EER are based on measurement by the EN14511 standard. Individual site conditions, such as ambient temperatures, room temperature, humidity and controller adjustments may cause disparities between location specific performance and these values. Values are based on 35% Propylene Glycol mixture.

HEVIAWHP035				
Outdoor Air DB Temperature (°C)	Outdoor Air DB Temperature (°F)	Supply Water Temperature 44.6°F (7°C) / Return Water Temperature 53.6°F (12°C)		COP
		Cooling Capacity (KW)	Power Consumption (KW)	
23	73.4	8.4	2.01	4.18
26	78.8	8.1	2.15	3.76
29	84.2	8.1	2.31	3.51
32	89.6	8.3	2.58	3.22
35	95	8.5	2.900	2.97

HEVIAWHP060				
Outdoor Air DB Temperature (°C)	Outdoor Air DB Temperature (°F)	Supply Water Temperature 44.6°F (7°C) / Return Water Temperature 53.6°F (12°C)		COP
		Cooling Capacity (KW)	Power Consumption (KW)	
23	73.4	15.2	3.62	4.20
26	78.8	14.9	3.90	3.82
29	84.2	15.1	4.25	3.55
32	89.6	15.3	4.72	3.24
35	95	15.9	5.32	2.99

HEVIAWHP080				
Outdoor Air DB Temperature (°C)	Outdoor Air DB Temperature (°F)	Supply Water Temperature 44.6°F (7°C) / Return Water Temperature 53.6°F (12°C)		COP
		Cooling Capacity (KW)	Power Consumption (KW)	
23	73.4	20.4	4.77	4.28
26	78.8	19.8	5.10	3.88
29	84.2	20.2	5.58	3.62
32	89.6	20.4	6.16	3.31
35	95	20.7	6.79	3.05

HEVIAWHP035									
Outdoor Air DB Temperature (°C)		Supply Water Temperature 95°F (35°C) / Return Water Temperature 86°F (30°C)		Supply Water Temperature 113°F (45°C) / Return Water Temperature 104°F (40°C)		Supply Water Temperature 131°F (55°C) / Return Water Temperature 122°F (50°C)		COP	
		Heating Capacity (KW)	Power Consumption (KW)	COP	Heating Capacity (BTU/Hr)	Power Consumption (KW)	COP	Heating Capacity (BTU/Hr)	Power Consumption (KW)
-25	-13	5.3	18,084	2.50	2.12	5.3	18,084	2.90	1.83
-20	-4	5.8	19,750	2.50	2.32	5.81	19,824	2.89	2.01
-15	5	6.5	22,178	2.69	2.42	6.68	22,793	2.83	2.36
-10	14	7.3	25,320	2.95	2.73	7.7	26,273	2.78	2.77
-5	23	8.3	30,320	3.25	3.16	8.4	31,050	2.59	3.19
0	32	9.3	33,776	3.61	2.57	9.3	33,776	2.50	3.69
5	41	10.3	37,040	4.06	2.26	10.3	37,040	2.46	4.06
10	50	11.3	40,304	4.58	1.96	11.3	40,304	2.42	4.58
15	59	12.3	43,568	5.15	1.65	12.3	43,568	2.38	5.15
20	68	13.3	46,832	5.79	1.38	13.3	46,832	2.34	5.79
25	77	14.3	50,096	6.46	1.15	14.3	50,096	2.30	6.46
30	86	15.3	53,360	7.18	0.94	15.3	53,360	2.26	7.18
35	95	16.3	56,624	7.94	0.77	16.3	56,624	2.22	7.94
40	104	17.3	59,888	8.74	0.63	17.3	59,888	2.18	8.74
45	113	18.3	63,152	9.58	0.52	18.3	63,152	2.14	9.58
50	122	19.3	66,416	10.46	0.43	19.3	66,416	2.10	10.46
55	131	20.3	69,680	11.38	0.36	20.3	69,680	2.06	11.38
60	140	21.3	72,944	12.34	0.30	21.3	72,944	2.02	12.34
65	149	22.3	76,208	13.34	0.25	22.3	76,208	1.98	13.34
70	158	23.3	79,472	14.38	0.21	23.3	79,472	1.94	14.38
75	167	24.3	82,736	15.46	0.18	24.3	82,736	1.90	15.46
80	176	25.3	86,000	16.58	0.15	25.3	86,000	1.86	16.58
85	185	26.3	89,264	17.74	0.13	26.3	89,264	1.82	17.74
90	194	27.3	92,528	18.94	0.11	27.3	92,528	1.78	18.94
95	203	28.3	95,792	20.18	0.10	28.3	95,792	1.74	20.18
100	212	29.3	99,056	21.46	0.09	29.3	99,056	1.70	21.46
105	221	30.3	102,320	22.78	0.08	30.3	102,320	1.66	22.78
110	230	31.3	105,584	24.14	0.07	31.3	105,584	1.62	24.14
115	239	32.3	108,848	25.54	0.06	32.3	108,848	1.58	25.54
120	248	33.3	112,112	26.98	0.05	33.3	112,112	1.54	26.98
125	257	34.3	115,376	28.46	0.04	34.3	115,376	1.50	28.46
130	266	35.3	118,640	29.98	0.03	35.3	118,640	1.46	29.98
135	275	36.3	121,904	31.54	0.02	36.3	121,904	1.42	31.54
140	284	37.3	125,168	33.14	0.01	37.3	125,168	1.38	33.14
145	293	38.3	128,432	34.78	0.01	38.3	128,432	1.34	34.78
150	302	39.3	131,696	36.46	0.01	39.3	131,696	1.30	36.46
155	311	40.3	134,960	38.18	0.01	40.3	134,960	1.26	38.18
160	320	41.3	138,224	39.94	0.01	41.3	138,224	1.22	39.94
165	329	42.3	141,488	41.74	0.01	42.3	141,488	1.18	41.74
170	338	43.3	144,752	43.58	0.01	43.3	144,752	1.14	43.58
175	347	44.3	148,016	45.46	0.01	44.3	148,016	1.10	45.46
180	356	45.3	151,280	47.38	0.01	45.3	151,280	1.06	47.38
185	365	46.3	154,544	49.34	0.01	46.3	154,544	1.02	49.34
190	374	47.3	157,808	51.34	0.01	47.3	157,808	0.98	51.34
195	383	48.3	161,072	53.38	0.01	48.3	161,072	0.94	53.38
200	392	49.3	164,336	55.46	0.01	49.3	164,336	0.90	55.46
205	401	50.3	167,600	57.58	0.01	50.3	167,600	0.86	57.58
210	410	51.3	170,864	59.74	0.01	51.3	170,864	0.82	59.74
215	419	52.3	174,128	61.94	0.01	52.3	174,128	0.78	61.94
220	428	53.3	177,392	64.18	0.01	53.3	177,392	0.74	64.18
225	437	54.3	180,656	66.46	0.01	54.3	180,656	0.70	66.46
230	446	55.3	183,920	68.78	0.01	55.3	183,920	0.66	68.78
235	455	56.3	187,184	71.14	0.01	56.3	187,184	0.62	71.14
240	464	57.3	190,448	73.54	0.01	57.3	190,448	0.58	73.54
245	473	58.3	193,712	75.98	0.01	58.3	193,712	0.54	75.98
250	482	59.3	196,976	78.46	0.01	59.3	196,976	0.50	78.46
255	491	60.3	200,240	80.98	0.01	60.3	200,240	0.46	80.98
260	500	61.3	203,504	83.54	0.01	61.3	203,504	0.42	83.54
265	509	62.3	206,768	86.14	0.01	62.3	206,768	0.38	86.14
270	518	63.3	210,032	88.78	0.01	63.3	210,032	0.34	88.78
275	527	64.3	213,296	91.46	0.01	64.3	213,296	0.30	91.46
280	536	65.3	216,560	94.18	0.01	65.3	216,560	0.26	94.18
285	545	66.3	219,824	96.94	0.01	66.3	219,824	0.22	96.94
290	554	67.3	223,088	99.74	0.01	67.3	223,088	0.18	99.74
295	563	68.3	226,352	102.58	0.01	68.3	226,352	0.14	102.58
300	572	69.3	229,616	105.46	0.01	69.3	229,616	0.10	105.46
305	581	70.3	232,880	108.38	0.01	70.3	232,880	0.06	108.38
310	590	71.3	236,144	111.34	0.01	71.3	236,144	0.02	111.34
315	599	72.3	239,408	114.34	0.01	72.3	239,408	0.01	114.34
320	608	73.3	242,672	117.38	0.01	73.3	242,672	0.01	117.38
325	617	74.3	245,936	120.46	0.01	74.3	245,936	0.01	120.46
330	626	75.3	249,200	123.58	0.01	75.3	249,200	0.01	123.58
335	635	76.3	252,464	126.74	0.01	76.3	252,464	0.01	126.74
340	644	77.3	255,728	129.94	0.01	77.3	255,728	0.01	129.94
345	653	78.3	258,992	133.18	0.01	78.3	258,992	0.01	133.18
350	662	79.3	262,256	136.46	0.01	79.3	262,256	0.01	136.46
355	671	80.3	265,520	139.78	0.01	80.3	265,520	0.01	139.78
360	680	81.3	268,784	143.14	0.01	81.3	268,784	0.01	143.14
365	689	82.3	272,048	146.54	0.01	82.3	272,048	0.01	146.54
370	698	83.3	275,312	150.00	0.01	83.3	275,312	0.01	150.00
375	707	84.3	278,576	153.50	0.01	84.3	278,576	0.01	153.50
380	716	85.3	281,840	157.04	0.01	85.3	281,840	0.01	157.04
385	725	86.3	285,104	160.62	0.01	86.3	285,104	0.01	160.62
390	734	87.3	288,368	164.24	0.01	87.3	288,368	0.01	164.24
395	743	88.3	291,632	167.90	0.01	88.3	291,632	0.01	167.90
400	752	89.3	294,896	171.60	0.01	89.3	294,896	0.01	171.60
405	761	90.3	298,160	175.34	0.01	90.3	298,160	0.01	175.34
410	770	91.3	301,424	179.12	0.01	91.3	301,424	0.01	179.12
415	779	92.3	304,688	182.94	0.01	92.3	304,688	0.01	182.94
420	788	93.3	307,952	186.80	0.01	93.3	307,952	0.01	186.80
425	797	94.3	311,216	190.70	0.01	94.3	311,216	0.01	190.70
430	806	95.3	314,480	194.64	0.01	95.3	314,480	0.01	194.64
435	815	96.3	317,744	198.62	0.01	96.3	317,744	0.01	198.62
440	824	97.3	321,008	202.64	0.01	97.3	321,008	0.01	202.64
445	833	98.3	324,272	206.70	0.01	98.3	324,272	0.01	206.70
450	842	99.3	327,536	210.80	0.01	99.3	327,536	0.01	210.80
455	851	100.3	330,800	214.94	0.01	100.3	330,800	0.01	214.94
460	860	101.3	334,064	219.12	0.01	101.3	334,064	0.01	219.12
465	869	102.3	337,328	223.34	0.01	102.3	337,328	0.01	223.34
470	878	103.3	340,592	227.58	0.01	103.3	340,592	0.01	227.58
475	887	104.3	343,856	231.84	0.01	104.3	343,856	0.01	231.84
480	896	105.3	347,120	236.12	0.01	105.3	347,120	0.01	236.12
485	905	106.3	350,384	240.42	0.01	106.3	350,384	0.01	240.42
490	914	107.3	353,648	244.74	0.01	107.3	353,648	0.01	244.74
495	923	108.3	356,912	249.08	0.01	108.3	356,912	0.01	249.08
500	932	109.3	360,176	253.44	0.01	109.3	360,176	0.01	253.44
505	941	110.3	363,440	257.82	0.01	110.3	363,440	0.01	257.82
510	950	111.3	366,704	262.22	0.01	111.3	366,704	0.01	262.22
515	959	112.3	369,968	266.64	0.01	112.3	369,968	0.01	266.64
520	968	113.3	373,232	271.08	0.01	113.3	373,232	0.01	271.08
525	977	114.3	376,496	275.54	0.01	114.3	376,496	0.01	275.54
530	986	115.3	379,760	280.02	0.01	115.3	379,760	0.01	280.02
535	995	116.3	383,024	284.52	0.01	116.3	383,024	0.01	284.52
540	1004	117.3	386,288	289.04	0.01	117.3	386,288	0.01	289.04
545	1013	118.3	389,552	293.58	0.01	118.3	389,552	0.01	293.58
550	1022	119.3	392,816	298.14	0.01	119.3	392,816	0.01	298.14
555	1031	120.3	396,080	302.72	0.01	120.3	396,080	0.01	302.72
560	1040	121.3	399,344	307.32	0.01	121.3	399,344	0.01	307.32
565	1049	122.3	402,608	311.94	0.01	122.3	402,608	0.01	311.94
570	1058	123.3	405,872	316.58	0.01	123.3	405,872	0.01	316.58
575	1067	124.3	409,136	321.24	0.01	124.3	409,136	0.01	321.24
580									



Hydron-Aire EVi Thermal Energy Storage Tank

ADVANTAGES

- Can be wired for 6 KW or 12 KW of auxiliary heat
- Built in 230V pump relay
- Built in low voltage transformer
- 1-1/2 inch standard connection size
- Low standby heat loss with 2 inch foam insulation
- High-impact composite jacket material which cannot rust or corrode



Hydron-Aire Indirect Hot Water Tank

ADVANTAGES:

Heavy Duty Construction & High Efficiency

- A seamless 1/2" cement lining provides long tank life
- Plastic jacket will not rust, scratch or dent eliminating damage and is maintenance free
- 2" thick polyurethane foam insulation when combined with the cement lining allows less than 0.3F heat loss per hour

No Sacrificial Anode Rod

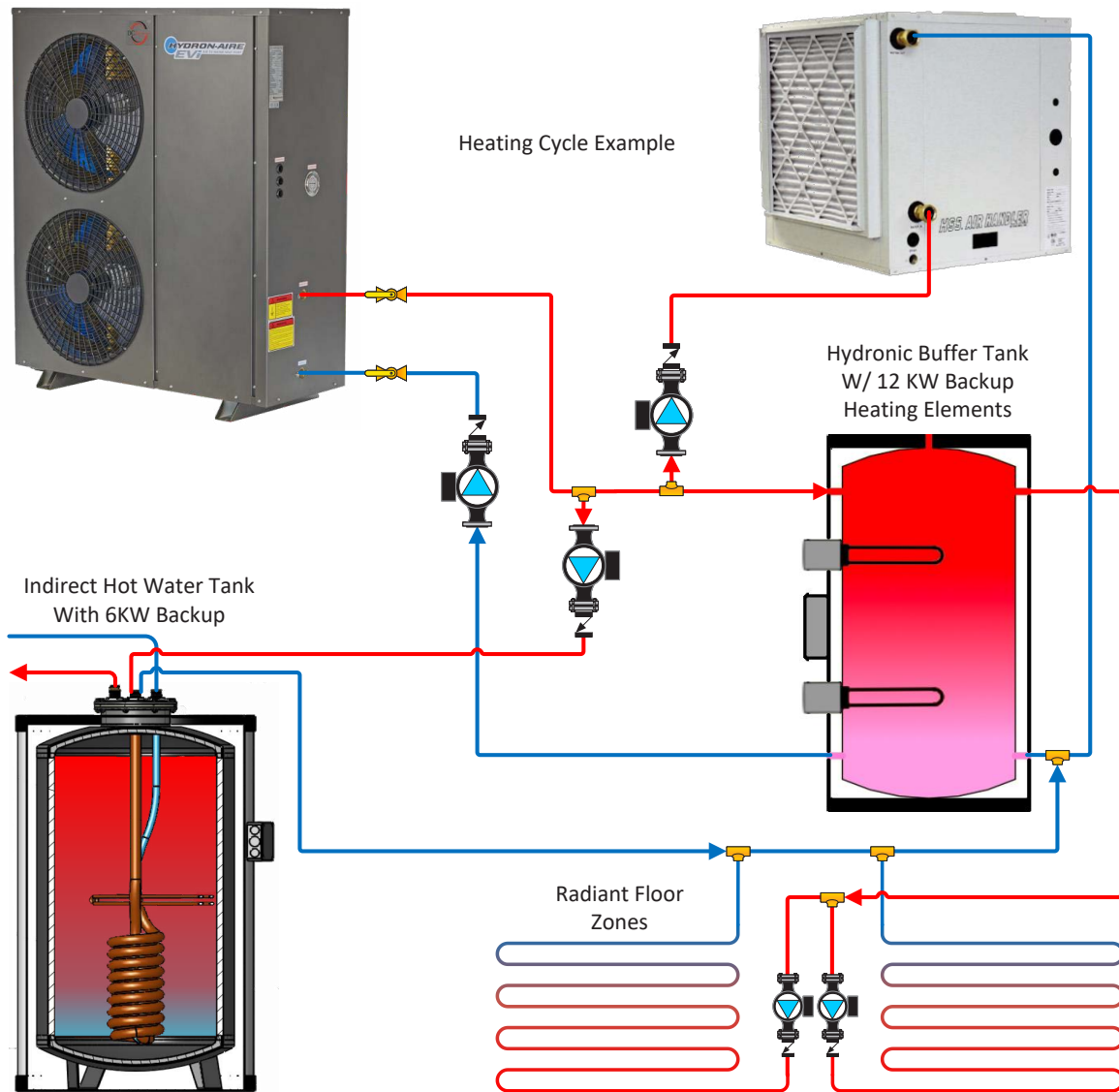
- Reduces operation expenses by eliminating periodic inspection and replacement costs associated with maintaining an anode rod

Factory installed and removable heat exchanger with unique cold water diffuser

- Field removable heat exchanger with top of tank connections
- Diffuser constantly washes the heat exchanger and reduces mineral build up by 50%
- Counterflow design increases heat exchanger output by more than 20%

The Hydron-Aire System

Is highly flexible and offers a complete system at a better price point than our competitors.



Contact us today and learn how you can design the system you need.



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