



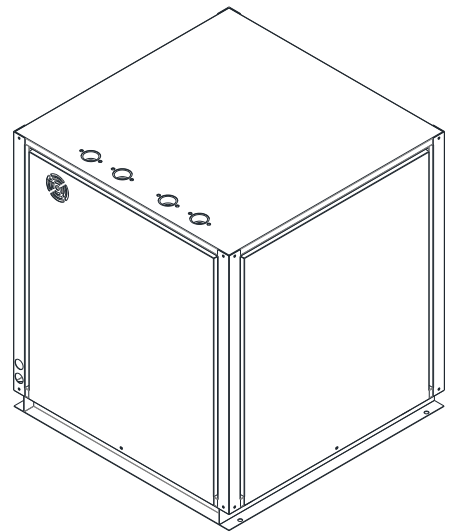
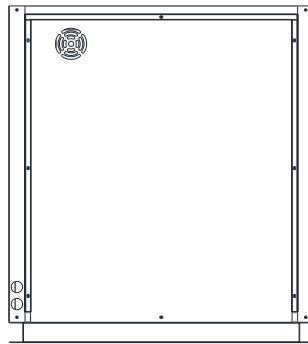
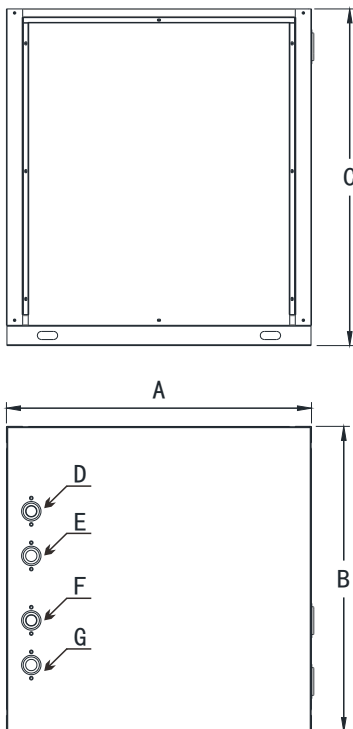
Features:

- Variable speed compressor
- Brazed plate heat exchangers
- Insulated cabinet
- Carel control system and inverter
- Loop and Load side pump power connections
- Load side variable speed pump control
- Built in outdoor reset control
- Leaving or return water temperature control
- Onboard diagnostics



Available in Sizes 040, 060, 080

Dimensions and Specifications



Dimensions	HEVIWWHP040	HEVIWWHP060	HEVIWWHP080
A	752mm	752mm	752mm
B	752mm	752mm	752mm
C	650mm	710mm	830mm
D	Source side water inlet (1")	Source side water inlet (1")	Source side water inlet (1.25")
E	Source side water outlet (1")	Source side water outlet (1")	Source side water outlet (1.25")
F	Load side water outlet (1")	Load side water outlet (1")	Load side water outlet (1.25")
G	Load side water inlet (1")	Load side water inlet (1")	Load side water inlet (1.25")

Specifications	HEVIWWHP040	HEVIWWHP060	HEVIWWHP080
Voltage	220-240	220-240	220-240
Phase	Single	Single	Single
Maximum Current	23 Amps	28 Amps	39 Amps
Refrigerant	R32	R32	R32
Charge	1.2 Kilograms	1.8 Kilograms	2.3 Kilograms
Design Flow Rate	10.6 USGPM	13.2 USGPM	16.7 USGPM
Pressure Drop	6.4 FT/HD	7.7 FT/HD	8.7 FT/HD

HEVIWWHP040 Performance Data

HEVIWWHP040

HEATING PERFORMANCE	Outdoor Loop											Electrical			Indoor Loop										
	Entering Liquid Temperature		Max Flow = Design Flow rate		Pressure drop	Leaving Liquid Temperature (Max Flow)		Delta T		Heat Absorbed		Power Input	Power Supply	Coefficient of Performance	Entering Liquid Temperature		Max Flow = Design Flow Rate		Pressure drop	Leaving Liquid Temperature (Max Flow)		Delta T		Heating Capacity	
	(° F)	(°C)	Max(USGPM)	Max(m3/h)	Ft/Hd	(° F)	(°C)	(° F)	(°C)	Btu/Hr	KW	KW	V/PH/Hz	COP	(° F)	(°C)	Max(USGPM)	Max(m3/h)	Ft/Hd	(° F)	(°C)	(° F)	(°C)	Btu/Hr	KW
	23	-5.00	10.6	2.4	6.4	19.0	-7.2	4.0	2.2	21173	6.2	3.8	240/1/60	2.6	104	40	10.6	2.4	6.4	110.5	43.6	6.5	3.6	34150	10
	25	-3.89	10.6	2.4	6.4	20.4	-6.5	4.6	2.6	24588	7.2	3.8	240/1/60	2.9	104	40	10.6	2.4	6.4	111.0	43.9	7.0	3.9	37565	11
	30	-1.11	10.6	2.4	6.4	24.7	-4.0	5.3	2.9	28003	8.2	3.8	240/1/60	3.2	104	40	10.6	2.4	6.4	111.7	44.3	7.7	4.3	40980	12
	32	0.00	10.6	2.4	6.4	26.6	-3.0	5.4	3.0	28686	8.4	3.8	240/1/60	3.2	104	40	10.6	2.4	6.4	111.9	44.4	7.9	4.4	41663	12.2
	35	1.67	10.6	2.4	6.4	29.5	-1.4	5.5	3.1	29369	8.6	3.8	240/1/60	3.3	104	40	10.6	2.4	6.4	112.0	44.45	8.0	4.45	42346	12.4
	40	4.44	10.6	2.4	6.4	34.1	1.2	5.9	3.3	31486	9.22	3.8	240/1/60	3.4	104	40	10.6	2.4	6.4	112.4	44.65	8.4	4.65	44463	13.02
	45	7.22	10.6	2.4	6.4	38.4	3.6	6.6	3.6	34833	10.2	3.8	240/1/60	3.7	104	40	10.6	2.4	6.4	113.0	45	9.0	5	47810	14
	50	10.00	10.6	2.4	6.4	42.7	6.0	7.3	4.0	38658	11.32	3.8	240/1/60	4.0	104	40	10.6	2.4	6.4	113.7	45.4	9.7	5.4	51635	15.12
	55	12.78	10.6	2.4	6.4	47.2	8.4	7.8	4.3	41526	12.16	3.8	240/1/60	4.2	104	40	10.6	2.4	6.4	114.3	45.7	10.3	5.7	54503	15.96
	60	15.56	10.6	2.4	6.4	51.6	10.9	8.4	4.6	44395	13	3.8	240/1/60	4.4	104	40	10.6	2.4	6.4	114.8	46.0	10.8	6.0	57372	16.8

COOLING PERFORMANCE	Outdoor Loop											Electrical			Indoor Loop										
	Entering Liquid Temperature		Max Flow = Design Flow Rate		Pressure Drop	Leaving Liquid Temperature (Max Flow)		Delta T		Heat Rejected		Power Input	Power Supply	Coefficient of Performance	Entering Liquid Temperature		Max Flow = Design Flow Rate		Pressure Drop	Leaving Liquid Temperature (Max Flow)		Delta T		Cooling Capacity	
	(° F)	(°C)	Max(USGPM)	Max(m3/h)	Ft/Hd	(° F)	(°C)	(° F)	(°C)	Btu/Hr	KW	KW	V/PH/Hz	COP	(° F)	(°C)	Max(USGPM)	Max	Ft/Hd	(° F)	(°C)	(° F)	(°C)	Btu/Hr	KW
	55	12.78	10.6	2.4	6.4	66.1	18.9	11.1	6.15	58738	17.2	3.8	240/1/60	3.5	53.6	12	10.6	2.4	6.4	45.0	7.2	8.6	4.8	45761	13.4
	60	15.56	10.6	2.4	6.4	70.7	21.5	10.7	6.0	56962	16.68	3.8	240/1/60	3.4	53.6	12	10.6	2.4	6.4	45.3	7.4	8.3	4.6	43985	12.88
	65	18.33	10.6	2.4	6.4	75.4	24.1	10.4	5.8	55050	16.12	3.8	240/1/60	3.2	53.6	12	10.6	2.4	6.4	45.7	7.6	7.9	4.4	42073	12.32
	70	21.11	10.6	2.4	6.4	80.0	26.7	10.0	5.6	53137	15.56	3.8	240/1/60	3.1	53.6	12	10.6	2.4	6.4	46.0	7.8	7.6	4.2	40160	11.76
	75	23.89	10.6	2.4	6.4	84.6	29.2	9.6	5.4	51225	15	3.8	240/1/60	2.9	53.6	12	10.6	2.4	6.4	46.4	8	7.2	4	38248	11.2
	80	26.67	10.6	2.4	6.4	89.3	31.8	9.3	5.2	49313	14.44	3.8	240/1/60	2.8	53.6	12	10.6	2.4	6.4	46.8	8.2	6.8	3.8	36336	10.64
	85	29.44	10.6	2.4	6.4	93.9	34.4	8.9	5.0	47400	13.88	3.8	240/1/60	2.7	53.6	12	10.6	2.4	6.4	47.1	8.4	6.5	3.6	34423	10.08
	90	32.22	10.6	2.4	6.4	98.6	37.0	8.6	4.8	45488	13.32	3.8	240/1/60	2.5	53.6	12	10.6	2.4	6.4	47.5	8.6	6.1	3.4	32511	9.52

HEVIWWHP060 Performance Data

HEVIWWHP060

HEATING PERFORMANCE	Outdoor Loop										Electrical			Indoor Loop											
	Entering Liquid Temperature		Max Flow = Design Flow Rate		Pressure Drop	Leaving Liquid Temperature (Max Flow)		Delta T		Heat Absorbed		Power Input	Power Supply	Coefficient of Performance	Entering Liquid Temperature		Max Flow = Design Flow Rate		Pressure Drop	Leaving Liquid Temperature (Max Flow)		Delta T		Heating Capacity	
	(° F)	(°C)	Max(USGPM)	Max(m3/h)	Ft/Hd	(° F)	(°C)	(° F)	(°C)	Btu/Hr	KW	KW	V/PH/Hz	COP	(° F)	(°C)	Max(USGPM)	Max(m3/h)	Ft/Hd	(° F)	(°C)	(° F)	(°C)	Btu/Hr	KW
	23	-5.00	13.2	3	7.7	18.4	-7.5	4.6	2.5	30394	8.9	5.1	240/1/60	2.7	104	40	13.2	3	7.7	111.2	44.0	7.2	4.0	47810	14
	25	-3.89	13.2	3	7.7	20.0	-6.7	5.0	2.8	33126	9.7	5.1	240/1/60	2.9	104	40	13.2	3	7.7	111.6	44.2	7.6	4.2	50542	14.8
	30	-1.11	13.2	3	7.7	24.6	-4.1	5.4	3.0	35858	10.5	5.1	240/1/60	3.1	104	40	13.2	3	7.7	112.0	44.5	8.0	4.5	53274	15.6
	32	0.00	13.2	3	7.7	26.2	-3.2	5.8	3.2	38590	11.3	5.1	240/1/60	3.2	104	40	13.2	3	7.7	112.4	44.7	8.4	4.7	56006	16.4
	35	1.67	13.2	3	7.7	28.8	-1.8	6.2	3.5	41322	12.1	5.1	240/1/60	3.4	104	40	13.2	3	7.7	112.8	44.9	8.8	4.9	58738	17.2
	40	4.44	13.2	3	7.7	33.4	0.8	6.6	3.7	44054	12.9	5.1	240/1/60	3.5	104	40	13.2	3	7.7	113.3	45.1	9.3	5.1	61470	18
	45	7.22	13.2	3	7.7	38.0	3.3	7.0	3.9	46786	13.7	5.1	240/1/60	3.7	104	40	13.2	3	7.7	113.7	45.4	9.7	5.4	64202	18.8
	50	10.00	13.2	3	7.7	42.5	5.9	7.4	4.1	49518	14.5	5.1	240/1/60	3.8	104	40	13.2	3	7.7	114.1	45.6	10.0	5.6	66934	19.6
	55	12.78	13.2	3	7.7	47.1	8.4	7.9	4.4	52591	15.4	5.1	240/1/60	4.0	104	40	13.2	3	7.7	114.5	45.9	10.6	5.9	70007	20.5
	60	15.56	13.2	3	7.7	51.5	10.8	8.5	4.7	56689	16.6	5.1	240/1/60	4.3	104	40	13.2	3	7.7	115.2	46.2	11.2	6.2	74106	21.7

COOLING PERFORMANCE	Outdoor Loop										Electrical			Indoor Loop											
	Entering Liquid Temperature		Max Flow = Design Flow Rate		Pressure Drop	Leaving Liquid Temperature (Max Flow)		Delta T		Heat Rejected		Power Input	Power Supply	Coefficient of Performance	Entering Liquid Temperature		Max Flow = Design Flow Rate		Pressure Drop	Leaving Liquid Temperature (Max Flow)		Delta T		Cooling Capacity	
	(° F)	(°C)	Max(USGPM)	Max(m3/h)	Ft/Hd	(° F)	(°C)	(° F)	(°C)	Btu/Hr	KW	KW	V/PH/Hz	COP	(° F)	(°C)	Max(USGPM)	Max(m3/h)	Ft/Hd	(° F)	(°C)	(° F)	(°C)	Btu/Hr	KW
	55	12.78	13.2	3	7.7	66.8	19.3	11.8	6.6	78374	22.95	5.1	240/1/60	3.5	53.6	12	13.2	3	7.7	44.4	6.9	9.2	5.1	60958	17.85
	60	15.56	13.2	3	7.7	71.4	21.9	11.4	6.4	75984	22.25	5.1	240/1/60	3.4	53.6	12	13.2	3	7.7	44.8	7.1	8.8	4.9	58567	17.15
	65	18.33	13.2	3	7.7	76.1	24.5	11.1	6.2	73593	21.55	5.1	240/1/60	3.2	53.6	12	13.2	3	7.7	45.1	7.3	8.5	4.7	56177	16.45
	70	21.11	13.2	3	7.7	80.7	27.1	10.7	6.0	71203	20.85	5.1	240/1/60	3.1	53.6	12	13.2	3	7.7	45.5	7.5	8.1	4.5	53786	15.75
	75	23.89	13.2	3	7.7	85.4	29.6	10.4	5.8	68812	20.15	5.1	240/1/60	3.0	53.6	12	13.2	3	7.7	45.9	7.7	7.7	4.3	51396	15.05
	80	26.67	13.2	3	7.7	90.0	32.2	10.0	5.6	66422	19.45	5.1	240/1/60	2.8	53.6	12	13.2	3	7.7	46.2	7.9	7.4	4.1	49005	14.35
	85	29.44	13.2	3	7.7	94.6	34.8	9.6	5.4	64031	18.75	5.1	240/1/60	2.7	53.6	12	13.2	3	7.7	46.6	8.1	7.0	3.9	46615	13.65
	90	32.22	13.2	3	7.7	99.3	37.4	9.3	5.2	61641	18.05	5.1	240/1/60	2.5	53.6	12	13.2	3	7.7	46.9	8.3	6.7	3.7	44224	12.95

HEVIWWHP080 Performance Data

HEVIWWHP080																									
HEATING PERFORMANCE	Outdoor Loop										Electrical			Indoor Loop											
	Entering Liquid Temperature		Max Flow = Design Flow Rate		Pressure Drop	Leaving Liquid Temperature (Max Flow)		Delta T		Heat Absorbed		Power Input	Power Supply	Coefficient of Performance	Entering Liquid Temperature		Max Flow = Design Flow Rate		Pressure Drop	Leaving Liquid Temperature (Max Flow)		Delta T		Heating Capacity	
	(° F)	(° C)	Max(USGPM)	Max(m3/h)	Ft/Hd	(° F)	(° C)	(° F)	(° C)	Btu/Hr	KW	KW	V/PH/Hz	COP	(° F)	(° C)	Max(USGPM)	Max(m3/h)	Ft/Hd	(° F)	(° C)	(° F)	(° C)	Btu/Hr	KW
	23	-5.00	16.7	3.8	8.7	18.5	-7.5	4.5	2.5	37565	11	7	240/1/60	2.6	104	40	16.7	3.8	8.7	111.3	44.1	7.3	4.1	61470	18
	25	-3.89	16.7	3.8	8.7	20.1	-6.6	4.9	2.7	40980	12	7	240/1/60	2.7	104	40	16.7	3.8	8.7	111.7	44.3	7.7	4.3	64885	19
	30	-1.11	16.7	3.8	8.7	24.7	-4.0	5.3	2.9	44395	13	7	240/1/60	2.9	104	40	16.7	3.8	8.7	112.1	44.5	8.1	4.5	68300	20
	32	0.00	16.7	3.8	8.7	26.3	-3.2	5.7	3.2	47810	14	7	240/1/60	3.0	104	40	16.7	3.8	8.7	112.5	44.7	8.5	4.7	71715	21
	35	1.67	16.7	3.8	8.7	28.9	-1.7	6.1	3.4	51225	15	7	240/1/60	3.1	104	40	16.7	3.8	8.7	112.9	45.0	8.9	5.0	75130	22
	40	4.44	16.7	3.8	8.7	33.5	0.8	6.5	3.6	54640	16	7	240/1/60	3.3	104	40	16.7	3.8	8.7	113.3	45.2	9.3	5.2	78545	23
	45	7.22	16.7	3.8	8.7	38.1	3.4	6.9	3.8	58055	17	7	240/1/60	3.4	104	40	16.7	3.8	8.7	113.7	45.4	9.7	5.4	81960	24
	50	10.00	16.7	3.8	8.7	42.7	5.9	7.3	4.1	61470	18	7	240/1/60	3.6	104	40	16.7	3.8	8.7	114.2	45.6	10.2	5.6	85375	25
	55	12.78	16.7	3.8	8.7	47.3	8.5	7.7	4.3	64885	19	7	240/1/60	3.7	104	40	16.7	3.8	8.7	114.6	45.9	10.6	5.9	88790	26
	60	15.56	16.7	3.8	8.7	51.5	10.8	8.5	4.7	71715	21	7	240/1/60	4.0	104	40	16.7	3.8	8.7	115.4	46.3	11.4	6.3	95620	28

COOLING PERFORMANCE	Outdoor Loop											Electrical			Indoor Loop											
	Entering Liquid Temperature		Max Flow = Design Flow Rate		Pressure Drop	Leaving Liquid Temperature (Max Flow)		Delta T		Heat Rejected		Power Input	Power Supply	Coefficient of Performance	Entering Liquid Temperature		Max Flow = Design Flow Rate		Pressure Drop	Leaving Liquid Temperature (Max Flow)		Delta T		Cooling Capacity		
	(° F)	(° C)	Max(USGPM)	Max(m3/h)	Ft/Hd	(° F)	(° C)	(° F)	(° C)	Btu/Hr	KW	KW	V/PH/Hz	COP	(° F)	(° C)	Max(USGPM)	Max(m3/h)	Ft/Hd	(° F)	(° C)	(° F)	(° C)	Btu/Hr	KW	
	55	12.78	16.7	3.8	8.7	68.0	20.0	13.0	7.2	109280	32	7	240/1/60	3.6	53.6	12	16.7	3.8	8.7	43.4	6.3609	10.2	5.6	85375	25	
	60	15.56	16.7	3.8	8.7	72.6	22.5	12.6	7.0	105865	31	7	240/1/60	3.4	53.6	12	16.7	3.8	8.7	43.9	6.5865	9.7	5.4	81960	24	
	65	18.33	16.7	3.8	8.7	77.2	25.1	12.2	6.8	102450	30	7	240/1/60	3.3	53.6	12	16.7	3.8	8.7	44.3	6.812	9.3	5.2	78545	23	
	70	21.11	16.7	3.8	8.7	81.8	27.7	11.8	6.5	99035	29	7	240/1/60	3.1	53.6	12	16.7	3.8	8.7	44.7	7.0376	8.9	5.0	75130	22	
	75	23.89	16.7	3.8	8.7	86.4	30.2	11.4	6.3	95620	28	7	240/1/60	3.0	53.6	12	16.7	3.8	8.7	45.1	7.2632	8.5	4.7	71715	21	
	80	26.67	16.7	3.8	8.7	91.0	32.8	11.0	6.1	92205	27	7	240/1/60	2.9	53.6	12	16.7	3.8	8.7	45.5	7.4887	8.1	4.5	68300	20	
	85	29.44	16.7	3.8	8.7	95.6	35.3	10.6	5.9	88790	26	7	240/1/60	2.7	53.6	12	16.7	3.8	8.7	45.9	7.7143	7.7	4.3	64885	19	
	90	32.22	16.7	3.8	8.7	100.2	37.9	10.2	5.6	85375	25	7	240/1/60	2.6	53.6	12	16.7	3.8	8.7	46.3	7.9398	7.3	4.1	61470	18	

GENERAL SPECIFICATIONS WATER TO WATER HEAT PUMPS

Model		HEVIWWHP040	HEVIWWHP060	HEVIWWHP080
Power supply	V/PH/Hz	220/1/60	220/1/60	220/1/60
Heating capacity *1 (water) 40℃/45℃;10℃/5℃	KW	14.0	21.0	28.0
	BTU/h	47768	71652	95536
COP *1	W/W	4.4	4.4	4.4
Power input *1	KW	3.18	4.77	6.36
Current input *1	A	14.5	21.7	28.9
Heating capacity*2 (glycol) 40℃/45℃;0℃/-5℃	KW	12.0	17.8	23.8
	BTU/h	40944	60734	81206
COP *2	W/W	3.5	3.5	3.5
Power input *2	KW	3.43	5.09	6.80
Current input *2	A	15.6	23.1	30.9
Heating capacity*3 (water) 30℃/35℃;10℃/5℃	KW	14.0	21.0	28.0
	BTU/h	47768	71652	95536
COP *3	W/W	5.81	5.81	5.81
Power input*3	KW	2.41	3.61	4.82
Current input*3	A	11.0	16.4	21.9
Heating capacity *4 (glycol) 30℃/35℃;0℃/-5℃	KW	12.0	17.8	23.8
	BTU/h	40944	60734	81206
COP *4	W/W	4.31	4.31	4.31
Power input *4	KW	2.78	4.13	5.52
Current input *4	A	12.7	18.8	25.1
Heating capacity *5 (water) 50℃/55℃;10℃/5℃	KW	11.2	15.3	22.5
	BTU/h	38214	52204	76770
COP *5	W/W	3.52	3.52	3.52
Power input *5	KW	3.18	4.35	6.39
Current input*5	A	14.5	19.8	29.1
Heating capacity *6 (glycol) 50℃/55℃;0℃/-5℃	KW	9.5	13.2	19.2
	BTU/h	32414	45038	65510
COP *4	W/W	3.21	3.21	3.21
Power input *4	KW	2.96	4.11	5.98
Current input *4	A	13.5	18.7	27.2
Cooling capacity (water) 12℃/7℃;30℃/35℃	KW	12.0	18.0	24.0
	BTU/h	40944	61416	81888
COP	W/W	4.2	4.2	4.2
Power input	KW	2.86	4.29	5.71
Current input	A	13.0	19.5	26.0
DC Compressor type		Twin Rotary	Twin Rotary	Twin Rotary
Compressor quantity		1	1	1
Sound level	dB(A)	48	48	52
Water inlet/outlet	inch	1"	1"	1-1/4"
Water flow range	GPM	9GPM~11GPM	11GPM~17GPM	14GPM~22GPM
Refrigerant type	R32			
Remarks: *1.Heating: Indoor heat exchanger water inlet/outlet: 40℃/45℃ , Outdoor heat exchanger water inlet/outlet: 10℃/7℃ . *2.Heating: Indoor heat exchanger water inlet/outlet: 40℃/45℃ , Outdoor heat exchanger brine inlet/outlet: 0℃/-3℃ . *3.Heating: Indoor heat exchanger water inlet/outlet: 30℃/35℃ , Outdoor heat exchanger water inlet/outlet: 10℃/7℃ . *4.Heating: Indoor heat exchanger water inlet/outlet: 30℃/35℃ , Outdoor heat exchanger brine inlet/outlet: 0℃/-3℃ . *5.Heating: Indoor heat exchanger water inlet/outlet: 50℃/55℃ , Outdoor heat exchanger water inlet/outlet: 10℃/7℃ . *6.Heating: Indoor heat exchanger water inlet/outlet: 50℃/55℃ , Outdoor heat exchanger brine inlet/outlet: 0℃/-3℃ . *7.Cooling: Indoor heat exchanger water inlet/outlet: 12℃/7℃ , Outdoor heat exchanger brine inlet/outlet: 30 ℃/35℃ .				