

SUBMITTAL DATA

5 Series 500W11

2-5 Tons Hydronic Heat Pump

R-454B / 60HZ



SDW5-0025W



Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**5 Series Hydronic Heat Pump
2-5 Ton 60Hz**



AHRI/ISO 13256-1 Performance Ratings

Model	Capacity Modulation	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
				Cooling 86°F Source 53.6°F Load		Heating 68°F Source 104°F Load		Cooling 59°F Source 53.6°F Load		Heating 50°F Source 104°F Load		Cooling 77°F Source 53.6°F Load		Heating 32°F Source 104°F Load	
		Load Gpm	Source Gpm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
024	Full	7	7	24,400	14.6	30,700	4.3	26,000	22.2	27,000	3.8	24,700	16.1	22,000	3.1
048	Full	15	15	48,100	14.0	63,000	4.4	51,100	20.9	52,600	3.6	49,700	16.1	42,700	3.1
060	Full	18	18	55,300	13.7	76,500	4.5	62,800	20.4	63,400	3.8	58,800	16.1	50,200	3.1

All ratings based upon 208V operation

10/11/24



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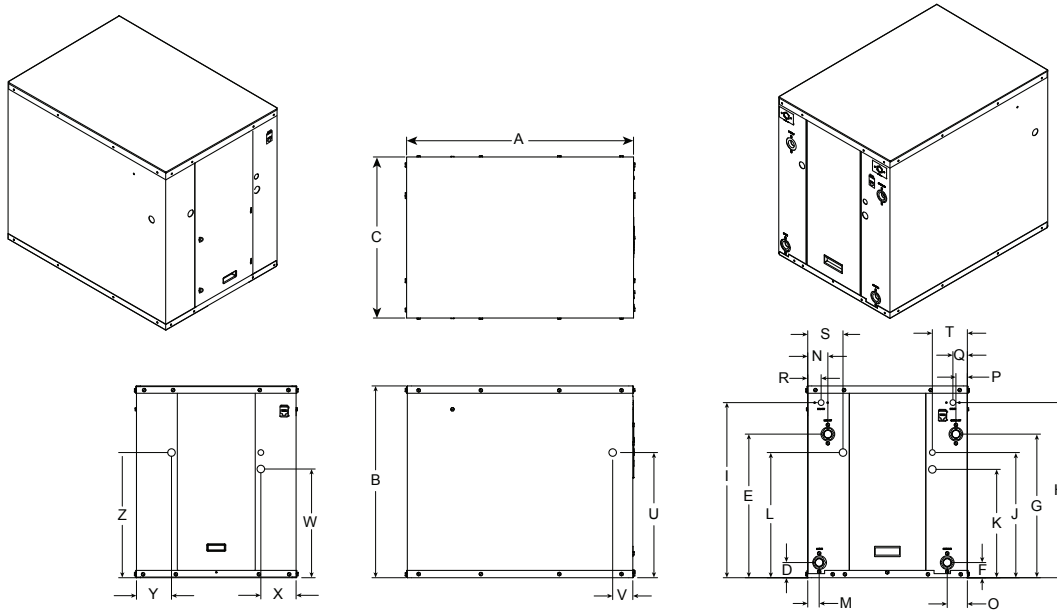
Engineer: _____

Project Name: _____ Unit Tag: _____

**5 Series Hydronic Heat Pump
2-5 Ton 60Hz**



Dimensional Data



2/15/16

Model	Overall Cabinet			Water Connections									Electrical Knockouts			
	A	B	C	D	E	F	G	H	I				J 1/2" cond	K 3/4" cond	L 3/4" cond	
	Depth	Height	Width	Load Liquid In	Load Liquid Out	Source Liquid In	Source Liquid Out	HWG In	HWG Out	Load Water FPT	Source Water FPT	HWG Water FPT	Low Voltage	Ext Pump	Power Supply	
024	in.	23.5	26.1	19.5	10.0	22.2	10.0	22.2	-	-	1"	1"	-	16.0	14.2	14.2
	cm.	59.7	66.3	49.5	25.4	56.4	25.4	56.4	-	-	25.4	25.4	-	40.6	36.1	36.1
048	in.	31.0	26.2	22.0	2.2	20.6	2.2	20.6	23.9	23.9	1-1/4"	1-1/4"	1/2 "	17.1	14.8	17.1
	cm.	78.7	66.5	55.9	5.6	52.3	5.6	52.3	60.7	60.7	31.8	31.8	12.7	43.4	37.6	43.4
060	in.	31.0	26.2	22.0	2.4	23.0	2.4	23.0	20.6	20.6	1-1/4"	1-1/4"	1/2"	17.1	14.8	17.1
	cm.	78.7	66.5	55.9	6.1	58.4	6.1	58.4	52.3	52.3	31.8	31.8	12.7	43.4	37.6	43.4

Model	Water Connections											Electrical Knockouts			
	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
	Load Liquid In	Load Liquid Out	Source Liquid In	Source Liquid Out	HWG In	HWG Out	Power Supply	Low Voltage	Side Power Supply	Side Power Supply	Ext Pump	Ext Pump	Power Supply	Power Supply	
024	in.	2.4	2.4	2.4	2.4	-	-	3.5	2.9	14.9	2.6	2.1	1.8	2.9	4.1
	cm.	6.1	6.1	6.1	6.1	-	-	8.9	7.4	37.8	6.6	5.3	4.4	7.4	10.4
048	in.	1.8	3.6	3.6	1.8	2.1	1.8	4.8	4.8	17.1	2.8	14.9	4.8	4.8	17.1
	cm.	4.6	9.1	9.1	4.6	5.3	4.6	12.2	12.2	43.4	7.1	37.8	12.2	12.2	43.4
060	in.	1.8	4.0	4.0	1.8	4.2	1.4	4.8	4.8	17.1	2.8	14.9	4.8	4.8	17.1
	cm.	4.6	10.2	10.2	4.6	10.7	3.6	12.2	12.2	43.4	7.1	37.8	12.2	12.2	43.4

Note: Plastic front panel extends 1.4" (3.56 cm) beyond front of cabinet.

07/16/24

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**5 Series Hydronic Heat Pump
2-5 Ton 60Hz**



Physical Data

Model	024	024 Heating	048	060
Compressor (1 each)	Scroll			
Factory Charge R410a, oz [kg]	46.0 [1.30]	42.0 [1.19]	62 [1.76]	82 [2.32]
Coax & Piping Water Volume - gal [l]	.89 [3.38]	.89 [3.38]	1.4 [5.25]	1.6 [6.13]
Weight - Operating, lb [kg]	225 [102.1]	225 [102.1]	325 [147.4]	345 [156.5]
Weight - Packaged, lb [kg]	247 [112.0]	247 [112.0]	340 [154.2]	360 [163.3]

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**5 Series Hydronic Heat Pump
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Electrical Data

Unit Model	Rated Voltage	Voltage Min/Max	Compressor				Load Pump	Source Pump	Total Unit FLA	Min Ckt Amp	Maximum Fuse/HACR
			MCC	RLA	LRA	LRA*					
024	208-230/60/1	187/253	19.8	12.7	75.6	26.5	1.8	5.4	19.9	23.1	35
048	208-230/60/1	187/253	37.0	23.7	157.0	55.00	1.8	5.4	30.9	36.8	60
060	208-230/60/1	187/253	43.0	27.5	170.0	59.5	1.8	5.4	34.7	41.6	70

Notes: All fuses type "D" time delay (or HACR circuit breaker in USA).

Source pump amps shown are for up to a 1/2 HP pump

Load pump amps shown are for small circulators.

*With optional IntelliStart

9/12/24

**5 Series Hydronic Heat Pump
2-5 Ton 60Hz**



Contractor: _____ P.O.: _____
 Engineer: _____
 Project Name: _____ Unit Tag: _____

Definitions

Abbreviations and Definitions

- | | |
|---|---|
| ELT = entering load fluid temperature to heat pump | kW = kilowatts |
| SWPD = source coax water pressure drop | EST = entering source fluid temperature to heat pump |
| LLT = leaving load fluid temperature from heat pump | HE = heat extracted in MBTUH |
| PSI = pressure drop in pounds per square inch | LST = leaving source fluid temperature from heat pump |
| LGPM = load flow in gallons per minute | HC = total heating capacity in MBTUH |
| FT HD = pressure drop in feet of head | COP = coefficient of performance, heating [HC/kW x 3.413] |
| LWPD = load coax water pressure drop | EER = energy efficiency ratio, cooling |
| LWT = leaving water temperature | TC = total cooling capacity in MBTUH |
| EWT = entering water temperature | HR = heat rejected in MBTUH |
| Brine = water with a freeze inhibiting solution | |

Notes to Performance Data Tables

- The following notes apply to all performance data tables:
- Three flow rates are shown for each unit. The lowest flow rate shown is used for geothermal open loop/well water systems with a minimum of 50°F EST. The middle flow rate shown is the minimum geothermal closed loop flow rate. The highest flow rate shown is optimum for geothermal closed loop systems and the suggested flow rate for boiler/tower applications.
 - Entering water temperatures below 40°F assumes 15% antifreeze solution.
 - Interpolation between ELT, EST, and GPM data is permissible.
 - Operation in the gray areas is not recommended.

Reference Calculations

<p>Heating Calculations:</p> $LWT = EWT - \frac{HE}{GPM \times C^*}$ $HE = C^* \times GPM \times (EWT - LWT)$	<p>Cooling Calculations:</p> $LWT = EWT + \frac{HR}{GPM \times C^*}$ $HR = C^* \times GPM \times (LWT - EWT)$
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NOTE: * C = 500 for pure water, 485 for brine.

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Pressure Drop

Pressure Drop Table

Model	GPM	Pressure Drop (psi)				
		30°F	60°F	80°F	100°F	120°F
024R*	4.0	0.9	0.7	0.6	0.5	0.4
	5.5	2.0	1.9	1.8	1.7	1.5
	7.0	3.2	3.0	2.9	2.8	2.6
	8.5	4.4	4.2	4.0	3.8	3.7
048H/R	8.0	1.7	1.4	1.4	1.3	1.3
	11.5	3.6	3.4	3.2	3.0	2.8
	15.0	5.6	5.4	5.0	4.6	4.2
	18.5	8.3	8.1	7.6	7.2	6.8
060H/R	9.0	1.4	1.1	1.0	1.0	0.9
	13.5	4.2	3.9	3.5	3.1	2.7
	18.0	6.9	6.7	6.0	5.2	4.5
	22.5	10.7	10.5	10.0	9.4	8.7

Heating Only Load Side Pressure Drop Table

Model	GPM	Pressure Drop (psi)			
		60°F	80°F	100°F	120°F
024H	4.0	1.3	1.3	1.2	1.2
	5.5	3.0	2.9	2.8	2.7
	7.0	4.6	4.4	4.3	4.1
	8.5	6.7	6.5	6.4	6.2

Note: Temperatures are Entering Water Temperatures 10/11/24

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*Domestic water heating units source side pressure drop and reversible units load and source pressure drop.

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2-5 Ton 60Hz**



Performance Data

024 Heating

Source		Load Flow-4 GPM							Load Flow-5.5 GPM					Load Flow-7 GPM									
EST	Flow	10	LLT	HC	Power	HE	COP	LST	LLT	HC	Power	HE	COP	LST	LLT	HC	Power	HE	COP	LST			
° F	GPM	° F	° F	MBTUH	kW	MBTUH		° F	° F	MBTUH	kW	MBTUH		° F	° F	MBTUH	kW	MBTUH		° F			
25	5.5	60	Operation not recommended																				
		80	Operation not recommended																				
		100	Operation not recommended																				
		120	Operation not recommended																				
		120	Operation not recommended																				
30	4	60	70.8	20.9	1.29	16.5	4.75	20.1	67.9	21.1	1.27	16.7	4.86	20.1	66.2	21.2	1.25	16.9	4.97	20.0			
		80	90.4	20.2	1.73	14.3	3.43	20.8	87.6	20.4	1.70	14.6	3.51	20.7	86.0	20.5	1.68	14.8	3.58	20.6			
		100	110.1	19.6	2.16	12.2	2.65	21.4	107.4	19.7	2.13	12.4	2.70	21.3	105.8	19.8	2.10	12.6	2.76	21.3			
		120	129.7	18.9	2.60	10.0	2.13	22.0	127.1	19.0	2.57	10.2	2.17	22.0	125.6	19.1	2.53	10.5	2.21	21.9			
	30	5.5	60	71.8	22.9	1.21	18.8	5.55	20.3	50.6	22.6	1.23	18.4	5.39	20.5	29.5	22.3	1.25	18.0	5.23	20.7		
			80	91.3	21.8	1.66	16.2	3.85	21.7	88.8	21.7	1.67	16.0	3.80	21.8	86.4	21.6	1.68	15.8	3.76	21.8		
			100	110.7	20.8	2.12	13.5	2.87	23.0	108.4	20.8	2.11	13.6	2.88	23.0	106.1	20.8	2.11	13.6	2.89	23.0		
			120	130.2	19.7	2.57	10.9	2.25	24.4	128.0	19.9	2.56	11.2	2.28	24.2	125.9	20.1	2.54	11.4	2.32	24.1		
		30	7	60	71.9	23.0	1.26	18.7	5.35	22.4	60.0	23.0	1.25	18.8	5.39	22.4	48.2	23.1	1.25	18.8	5.42	22.5	
				80	91.4	22.0	1.71	16.2	3.79	23.4	88.9	22.1	1.69	16.3	3.84	23.4	86.5	22.1	1.67	16.4	3.89	23.4	
				100	110.9	21.1	2.15	13.7	2.87	24.5	108.5	21.1	2.12	13.9	2.92	24.4	106.2	21.2	2.09	14.1	2.98	24.4	
				120	130.4	20.1	2.60	11.2	2.27	25.5	128.2	20.2	2.55	11.5	2.32	25.4	126.0	20.3	2.51	11.7	2.37	25.3	
50			4	60	74.8	28.7	1.25	24.4	6.68	37.4	62.3	28.6	1.27	24.3	6.59	37.5	49.9	28.6	1.28	24.2	6.51	37.5	
				80	94.2	27.6	1.70	21.8	4.73	38.8	91.2	27.6	1.71	21.8	4.72	38.8	88.2	27.7	1.72	21.8	4.71	38.7	
				100	113.7	26.5	2.15	19.1	3.60	40.1	110.8	26.7	2.15	19.3	3.62	40.0	107.9	26.9	2.15	19.5	3.64	39.9	
				120	133.1	25.4	2.60	16.5	2.86	41.5	130.4	25.7	2.60	16.8	2.89	41.3	127.7	26.0	2.59	17.2	2.93	41.2	
	50		5.5	60	75.0	29.2	1.27	24.8	6.75	40.0	67.2	29.3	1.27	24.9	6.77	40.0	59.4	29.4	1.27	25.0	6.79	40.0	
				80	94.4	28.0	1.70	22.2	4.83	41.1	91.4	28.2	1.69	22.4	4.87	41.0	88.4	28.4	1.69	22.6	4.92	40.9	
				100	113.8	26.9	2.13	19.6	3.69	42.1	110.9	27.1	2.12	19.9	3.74	42.0	108.1	27.3	2.11	20.1	3.79	41.9	
				120	133.2	25.7	2.57	16.9	2.93	43.2	130.5	26.0	2.55	17.3	2.99	43.0	127.8	26.3	2.54	17.7	3.04	42.9	
		50	7	60	75.3	29.7	1.28	25.3	6.83	42.6	72.1	29.9	1.27	25.6	6.93	42.5	68.9	30.2	1.26	25.9	7.03	42.4	
				80	94.7	28.4	1.70	22.6	4.94	43.3	91.6	28.7	1.68	23.0	5.02	43.2	88.5	29.0	1.66	23.3	5.10	43.1	
				100	114.0	27.2	2.12	20.0	3.80	44.1	111.1	27.5	2.09	20.4	3.86	44.0	108.2	27.8	2.07	20.8	3.93	43.9	
				120	133.4	26.0	2.54	17.3	3.03	44.9	130.6	26.3	2.51	17.8	3.09	44.8	127.8	26.7	2.48	18.2	3.15	44.6	
70			4	60	77.7	34.4	1.29	30.0	7.81	54.5	74.0	34.6	1.30	30.2	7.80	54.5	70.3	34.8	1.31	30.3	7.78	54.4	
				80	97.2	33.3	1.74	27.4	5.62	55.9	93.6	33.6	1.75	27.6	5.64	55.8	90.0	33.8	1.75	27.8	5.65	55.6	
				100	116.6	32.2	2.18	24.7	4.32	57.2	113.1	32.5	2.19	25.1	4.35	57.1	109.7	32.9	2.20	25.4	4.38	56.9	
				120	136.0	31.1	2.63	22.1	3.46	58.6	132.7	31.5	2.64	22.5	3.50	58.4	129.4	31.9	2.64	22.9	3.54	58.2	
	70		5.5	60	78.2	35.3	1.27	31.0	8.14	57.6	74.4	35.5	1.28	31.1	8.13	57.5	70.5	35.7	1.29	31.3	8.11	57.4	
				80	97.5	34.0	1.69	28.2	5.88	58.7	93.9	34.3	1.70	28.5	5.89	58.6	90.2	34.6	1.72	28.7	5.91	58.5	
				100	116.8	32.6	2.12	25.4	4.52	59.8	113.3	33.1	2.13	25.8	4.55	59.6	109.9	33.5	2.14	26.2	4.59	59.5	
				120	136.1	31.3	2.54	22.6	3.61	60.9	132.8	31.9	2.55	23.1	3.66	60.7	129.5	32.4	2.57	23.6	3.70	60.5	
		70	7	60	78.7	36.2	1.25	31.9	8.49	60.6	74.7	36.4	1.26	32.1	8.46	60.5	70.8	36.6	1.27	32.3	8.44	60.5	
				80	97.9	34.6	1.65	29.0	6.15	61.5	94.1	35.0	1.66	29.3	6.17	61.4	90.4	35.4	1.68	29.6	6.18	61.3	
				100	117.0	33.1	2.05	26.1	4.73	62.3	113.5	33.6	2.07	26.5	4.76	62.2	110.1	34.1	2.08	27.0	4.80	62.0	
				120	136.2	31.5	2.45	23.1	3.77	63.2	133.0	32.2	2.47	23.8	3.82	63.0	129.7	32.9	2.49	24.4	3.87	62.8	
90			4	60	81.0	40.8	1.42	36.0	8.42	71.5	76.6	41.1	1.38	36.4	8.76	71.3	72.2	41.3	1.33	36.8	9.10	71.1	
				80	100.7	40.1	1.83	33.8	6.41	72.6	96.3	40.3	1.77	34.2	6.68	72.4	91.9	40.4	1.71	34.6	6.94	72.2	
				100	Operation not recommended																		
				120	Operation not recommended																		
	90		5.5	60	81.6	41.9	1.43	37.0	8.60	75.1	77.0	42.1	1.38	37.4	8.93	75.0	72.5	42.3	1.34	37.7	9.28	74.8	
				80	101.2	41.2	1.84	34.9	6.56	76.0	96.7	41.3	1.78	35.2	6.81	75.8	92.2	41.5	1.72	35.6	7.08	75.7	
				100	Operation not recommended																		
				120	Operation not recommended																		
		90	7	60	82.1	42.9	1.43	38.0	8.79	78.8	77.4	43.1	1.39	38.4	9.13	78.7	72.8	43.3	1.34	38.7	9.47	78.6	
				80	101.8	42.2	1.84	35.9	6.71	79.4	97.1	42.4	1.79	36.3	6.96	79.3	92.5	42.5	1.73	36.6	7.21	79.2	
				100	Operation not recommended																		
				120	Operation not recommended																		

EST = entering source fluid temperature to heat pump
 HC = total heating capacity in MBTUH
 ELT = entering load fluid temperature to heat pump
 HE = heat extracted in MBTUH
 LST = leaving source fluid temperature from heat pump
 COP = coefficient of performance
 LLT = leaving load fluid temperature from heat pump

8/29/24

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**5 Series Hydronic Heat Pump
2-5 Ton 60Hz**



Performance Data cont.

024 Heating Vented Load Coax

Source		Load Flow-4 GPM							Load Flow-5.5 GPM							Load Flow-7 GPM						
EST	Flow	10	LLT	HC	Power	HE	COP	LST	LLT	HC	Power	HE	COP	LST	LLT	HC	Power	HE	COP	LST		
° F	GPM	° F	° F	MBTUH	kW	MBTUH		° F	° F	MBTUH	kW	MBTUH		° F	° F	MBTUH	kW	MBTUH		° F		
25	5.5	60	Operation not recommended																			
		80	Operation not recommended																			
		100	Operation not recommended																			
		120	Operation not recommended																			
	30	7	60	71.0	21.3	1.33	16.8	4.69	201	68.0	21.4	1.34	16.8	4.70	20.0	66.3	21.5	1.34	16.9	4.70	20.0	
			80	91.3	20.6	1.79	14.5	3.38	20.7	87.7	20.6	1.79	14.5	3.38	20.7	86.1	20.7	1.79	14.6	3.39	20.7	
			100	110.3	19.9	2.24	12.2	2.60	21.4	107.4	19.9	2.24	12.2	2.60	21.4	105.8	19.8	2.23	12.2	2.60	21.4	
			120	129.9	19.2	2.70	10.0	2.08	22.1	127.2	19.1	2.69	9.9	2.08	22.1	125.6	19.0	2.68	9.9	2.08	22.1	
		30	4	60	71.7	22.7	1.32	18.2	5.04	20.6	50.6	22.9	1.34	18.3	5.02	20.6	29.5	23.0	1.35	18.4	4.99	20.5
				80	91.3	21.9	1.80	15.8	3.58	21.9	88.9	22.1	1.79	16.0	3.62	21.7	86.6	22.3	1.79	16.2	3.66	21.6
				100	110.9	21.2	2.27	13.4	2.73	23.1	108.6	21.4	2.25	13.7	2.79	22.9	106.4	21.7	2.23	14.1	2.85	22.8
				120	130.5	20.4	2.75	11.0	2.17	24.3	128.4	20.7	2.71	11.5	2.24	24.1	126.2	21.0	2.67	11.9	2.30	23.9
30			5.5	60	71.9	23.0	1.35	18.4	5.01	22.6	60.1	23.2	1.33	18.7	5.13	22.5	48.3	23.5	1.31	19.0	5.24	22.4
				80	91.4	22.1	1.79	16.0	3.62	23.5	89.0	22.4	1.77	16.3	3.70	23.4	86.7	22.7	1.76	16.6	3.77	23.3
				100	110.9	21.2	2.24	13.6	2.78	24.5	108.7	21.5	2.22	14.0	2.84	24.4	106.4	21.9	2.21	14.3	2.90	24.2
				120	130.5	20.4	2.68	11.2	2.22	25.5	128.3	20.7	2.67	11.6	2.27	25.3	126.2	21.1	2.66	12.0	2.32	25.2
	30		7	60	72.0	23.3	1.37	18.6	4.98	24.5	69.5	23.6	1.32	19.1	5.25	24.4	67.0	23.9	1.27	19.6	5.51	24.2
				80	91.5	22.3	1.78	16.2	3.66	25.2	89.1	22.6	1.76	16.6	3.78	25.1	86.8	23.0	1.73	17.1	3.90	25.0
				100	111.0	21.3	2.20	13.8	2.84	25.9	108.7	21.7	2.19	14.2	2.90	25.8	106.5	22.0	2.18	14.6	2.96	25.7
				120	130.5	20.3	2.61	11.4	2.28	26.6	128.3	20.7	2.63	11.7	2.31	26.5	126.2	21.1	2.64	12.1	2.34	26.4
		50	4	60	74.6	28.4	1.39	23.7	5.94	37.8	62.2	28.6	1.38	23.9	6.06	37.7	49.8	28.9	1.37	24.2	6.18	37.5
				80	94.1	27.4	1.86	21.0	4.28	39.2	91.2	27.6	1.85	21.3	4.35	39.0	88.2	27.8	1.84	21.6	4.42	38.9
				100	113.6	26.4	2.34	18.4	3.29	40.5	110.7	26.6	2.32	18.7	3.34	40.4	107.9	26.8	2.31	18.9	3.39	40.2
				120	133.1	25.4	2.81	15.8	2.64	41.9	130.3	25.6	2.79	16.0	2.67	41.7	127.6	25.8	2.78	16.3	2.70	41.6
50			5.5	60	75.0	29.1	1.41	24.3	6.06	40.2	67.2	29.3	1.37	24.6	6.29	40.1	59.4	29.6	1.33	25.0	6.53	40.0
				80	94.4	27.9	1.85	21.5	4.40	41.3	91.4	28.1	1.82	21.9	4.52	41.2	88.3	28.3	1.79	22.2	4.63	41.1
				100	113.7	26.7	2.30	18.8	3.39	42.4	110.9	26.9	2.28	19.1	3.45	42.3	108.0	27.1	2.26	19.4	3.52	42.2
				120	133.1	25.5	2.75	16.1	2.71	43.5	130.4	25.7	2.74	16.3	2.75	43.4	127.6	25.9	2.73	16.6	2.78	43.3
	50		7	60	75.3	29.7	1.42	24.9	6.09	42.7	72.1	30.0	1.35	25.4	6.49	42.5	68.9	30.3	1.29	25.9	6.88	42.4
				80	94.6	28.3	1.84	22.0	4.47	43.5	91.5	28.6	1.80	22.5	4.64	43.4	88.5	28.9	1.75	22.9	4.82	43.3
				100	113.9	26.9	2.27	19.2	3.46	44.3	111.0	27.2	2.24	19.6	3.54	44.2	108.1	27.5	2.22	19.9	3.62	44.1
				120	133.2	25.6	2.69	16.4	2.77	45.2	130.4	25.8	2.69	16.7	2.80	45.1	127.7	26.1	2.69	16.9	2.84	45.0
		70	4	60	77.6	34.1	1.46	29.1	6.84	55.0	73.9	34.4	1.42	29.6	7.11	54.8	70.2	34.7	1.38	30.0	7.37	54.5
				80	96.9	32.9	1.93	26.3	4.99	56.5	93.4	33.1	1.91	26.6	5.09	56.3	89.8	33.3	1.88	26.9	5.19	56.1
				100	116.3	31.6	2.40	23.4	3.86	57.9	112.9	31.8	2.39	23.6	3.89	57.8	109.4	31.9	2.38	23.8	3.93	57.7
				120	135.7	30.4	2.87	20.6	3.10	59.4	132.3	30.5	2.88	20.6	3.10	59.4	129.0	30.5	2.88	20.7	3.10	59.3
70			5.5	60	78.1	35.1	1.47	30.1	7.02	57.9	74.3	35.4	1.40	30.6	7.39	57.7	70.5	35.7	1.34	31.1	7.80	57.5
				80	97.3	33.6	1.92	27.1	5.14	59.1	93.7	33.8	1.87	27.4	5.29	59.0	90.0	34.0	1.83	27.8	5.45	58.8
				100	116.5	32.1	2.37	24.0	3.97	60.3	113.0	32.3	2.34	24.3	4.03	60.2	109.5	32.4	2.32	24.5	4.10	60.2
				120	135.8	30.6	2.82	21.0	3.18	61.5	132.4	30.7	2.81	21.1	3.20	61.5	129.1	30.8	2.81	21.2	3.22	61.5
	70		7	60	78.6	36.1	1.47	31.1	7.20	60.8	74.7	36.4	1.39	31.6	7.72	60.7	70.8	36.6	1.30	32.2	8.25	60.5
				80	97.7	34.3	1.90	27.8	5.29	61.8	94.0	34.6	1.84	28.3	5.51	61.7	90.2	34.8	1.78	28.7	5.73	61.5
				100	116.8	32.6	2.34	24.6	4.08	62.8	113.2	32.8	2.30	24.9	4.18	62.7	109.7	32.9	2.25	25.2	4.28	62.6
				120	135.9	30.8	2.77	21.3	3.26	63.7	132.5	31.0	2.75	21.6	3.30	63.6	129.2	31.1	2.73	21.8	3.34	63.6
		90	4	Operation not recommended																		
			5.5	Operation not recommended																		
			7	Operation not recommended																		

EST = entering source fluid temperature to heat pump
 HC = total heating capacity in MBTUH
 ELT = entering load fluid temperature to heat pump
 HE = heat extracted in MBTUH
 LST = leaving source fluid temperature from heat pump
 COP = coefficient of performance
 LLT = leaving load fluid temperature from heat pump

8/29/24

WaterFurnace works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice. Please contact WaterFurnace at 1-888-929-2837 for latest design and specifications. Purchaser's approval of this data set signifies that the equipment is acceptable under the provisions of the job specification. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely WaterFurnace's opinion or commendation of its products. The latest version of this document is available at www.waterfurnace.com.

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**5 Series Hydronic Heat Pump
2-5 Ton 60Hz**



Performance Data

024 Cooling

Source		Load Flow-4 GPM							Load Flow-5.5 GPM							Load Flow-7 GPM						
EST °F	Flow GPM	ELT °F	LLT °F	TC MBTUH	Power kW	HR MBTUH	EER	LST °F	LLT °F	TC MBTUH	Power kW	HR MBTUH	EER	LST °F	LLT °F	TC MBTUH	Power kW	HR MBTUH	EER	LST °F		
30	4	50	36.0	271	0.86	30.0	31.51	45.5	35.7	27.7	0.89	30.7	31.31	45.8	35.4	28.3	0.91	31.4	31.10	46.2		
		70	54.8	29.6	0.87	32.5	33.98	46.8	54.5	30.0	0.89	33.1	33.63	47.1	54.3	30.5	0.92	33.6	33.27	47.3		
		90	73.5	32.0	0.88	35.0	36.40	48.1	73.3	32.4	0.90	35.4	35.91	48.3	73.1	32.7	0.92	35.9	35.42	48.5		
		110	92.2	34.5	0.89	37.5	38.76	49.3	92.1	34.7	0.91	37.8	38.15	49.5	92.0	34.9	0.93	38.1	37.53	49.6		
	5.5	50	39.2	26.5	0.81	29.3	32.72	41.9	39.0	27.0	0.83	29.8	32.57	42.2	38.8	27.4	0.85	30.3	32.43	42.4		
		70	58.4	28.4	0.84	31.3	34.05	42.8	58.2	28.8	0.85	31.7	33.79	43.0	58.0	29.2	0.87	32.2	33.54	43.2		
		90	77.5	30.4	0.86	33.3	35.31	43.7	77.4	30.7	0.88	33.7	34.95	43.8	77.3	31.0	0.90	34.0	34.60	44.0		
		110	96.7	32.3	0.89	35.3	36.50	44.5	96.6	32.5	0.90	35.6	36.04	44.7	96.5	32.8	0.92	35.9	35.60	44.8		
	7	50	42.4	25.9	0.76	28.5	34.08	38.4	42.3	26.2	0.77	28.8	34.03	38.5	42.2	26.5	0.78	29.2	33.97	38.6		
		70	62.0	27.3	0.80	30.0	34.13	38.8	61.9	27.6	0.81	30.4	33.99	38.9	61.8	27.9	0.82	30.7	33.85	39.0		
		90	81.5	28.7	0.84	31.6	34.17	39.3	81.5	29.0	0.85	31.9	33.95	39.4	81.4	29.2	0.87	32.2	33.73	39.5		
		110	101.1	30.1	0.88	33.1	34.20	39.8	101.1	30.4	0.90	33.4	33.92	39.8	101.0	30.6	0.91	33.7	33.63	39.9		
50	4	50	36.7	25.9	1.14	29.7	24.48	65.3	36.2	26.7	1.18	30.7	24.42	65.8	35.8	27.6	1.22	31.7	24.37	66.3		
		70	54.6	30.0	1.16	33.9	27.42	67.5	54.2	30.6	1.20	34.7	27.16	67.9	53.9	31.3	1.24	35.5	26.91	68.3		
		90	72.4	34.1	1.19	38.2	30.22	69.7	72.2	34.6	1.23	38.7	29.80	70.0	72.0	35.0	1.26	39.3	29.37	70.3		
		110	90.3	38.2	1.22	42.4	32.90	71.8	90.2	38.5	1.25	42.7	32.32	72.0	90.0	38.8	1.29	43.1	31.75	72.2		
	5.5	50	39.6	25.6	1.11	29.3	23.07	61.9	39.3	26.2	1.12	30.0	23.40	62.2	39.0	26.9	1.13	30.7	23.73	62.6		
		70	58.0	29.4	1.14	33.3	25.88	63.6	57.8	29.9	1.15	33.9	25.94	63.8	57.6	30.5	1.17	34.5	26.00	64.1		
		90	76.4	33.3	1.16	37.2	28.56	65.2	76.3	33.7	1.19	37.7	28.34	65.4	76.1	34.1	1.21	38.2	28.13	65.6		
		110	94.9	37.1	1.19	41.2	31.11	66.8	94.7	37.4	1.22	41.5	30.60	67.0	94.6	37.7	1.25	41.9	30.12	67.1		
	7	50	42.6	25.3	1.08	28.9	25.83	58.5	42.4	25.7	1.07	29.4	26.31	58.6	42.3	26.2	1.05	29.8	26.80	58.8		
		70	61.5	28.8	1.11	32.6	27.78	59.6	61.4	29.2	1.11	33.0	28.02	59.7	61.3	29.7	1.11	33.4	28.26	59.8		
		90	80.5	32.4	1.14	36.3	29.69	60.7	80.4	32.8	1.15	36.7	29.64	60.8	80.3	33.1	1.16	37.1	29.58	60.9		
		110	99.4	36.0	1.17	40.0	31.55	61.8	99.3	36.3	1.19	40.3	31.17	61.9	99.2	36.6	1.22	40.7	30.79	62.0		
70	4	50	37.3	24.6	1.41	29.4	17.45	85.2	36.8	25.7	1.47	30.7	17.54	85.8	36.2	26.8	1.52	32.0	17.63	86.5		
		70	54.3	30.4	1.46	35.3	20.85	88.2	53.9	31.2	1.51	36.4	20.70	88.7	53.5	32.1	1.56	37.4	20.56	89.3		
		90	71.4	36.1	1.50	41.3	24.04	91.3	71.1	36.7	1.55	42.0	23.68	91.7	70.8	37.3	1.60	42.8	23.33	92.1		
		110	Operation not recommended																			
	5.5	50	40.0	24.6	1.41	29.4	17.51	81.9	39.7	25.5	1.41	30.3	18.04	82.3	39.3	26.4	1.42	31.2	18.56	82.7		
		70	57.7	30.4	1.44	35.3	21.14	84.3	57.4	31.1	1.46	36.0	21.35	84.6	57.1	31.8	1.47	36.8	21.55	85.0		
		90	75.4	36.1	1.47	41.1	24.61	86.7	75.1	36.6	1.50	41.8	24.47	86.9	74.9	37.2	1.53	42.4	24.33	87.2		
		110	Operation not recommended																			
	7	50	42.8	24.6	1.40	29.4	17.57	78.7	42.6	25.3	1.36	29.9	18.60	78.8	42.4	25.9	1.32	30.4	19.62	79.0		
		70	61.1	30.4	1.42	35.2	21.44	80.4	60.9	30.9	1.40	35.7	22.05	80.5	60.7	31.4	1.39	36.2	22.67	80.7		
		90	79.4	36.1	1.43	41.0	25.21	82.1	79.2	36.6	1.44	41.5	25.32	82.2	79.1	37.0	1.45	41.9	25.44	82.3		
		110	97.7	41.9	1.45	46.8	28.90	83.8	97.6	42.2	1.49	47.3	28.43	83.9	97.5	42.5	1.52	47.7	27.96	84.0		
90	4	50	38.9	21.5	1.85	27.8	12.74	104.3	38.3	22.6	1.91	29.1	12.93	105.0	37.8	23.8	1.97	30.5	13.11	105.7		
		70	55.7	27.8	1.91	34.3	15.76	107.7	55.2	28.8	1.96	35.5	15.83	108.3	54.7	29.8	2.00	36.6	15.89	108.9		
		90	Operation not recommended																			
		110	Operation not recommended																			
	5.5	50	41.3	21.4	1.84	27.6	11.63	101.2	40.9	22.3	1.86	28.7	12.03	101.7	40.5	23.3	1.88	29.7	12.41	102.1		
		70	58.8	27.7	1.87	34.1	14.79	103.8	58.4	28.5	1.89	35.0	15.06	104.2	58.1	29.4	1.92	35.9	15.32	104.6		
		90	Operation not recommended																			
		110	Operation not recommended																			
	7	50	43.7	21.3	1.83	27.5	12.76	98.1	43.5	22.1	1.81	28.2	13.48	98.3	43.3	22.9	1.79	29.0	14.19	98.5		
		70	61.9	27.6	1.84	33.9	16.23	100.0	61.7	28.3	1.83	34.5	16.69	100.2	61.5	29.0	1.83	35.2	17.16	100.4		
		90	Operation not recommended																			
		110	Operation not recommended																			
110	4	50	40.5	18.4	2.29	26.2	8.03	123.5	39.9	19.6	2.35	27.6	8.31	124.2	39.3	20.7	2.41	28.9	8.59	124.9		
		70	57.0	25.2	2.36	33.3	10.68	127.2	56.4	26.3	2.40	34.5	10.95	127.8	55.9	27.4	2.44	35.8	11.23	128.4		
		90	Operation not recommended																			
		110	Operation not recommended																			
	5.5	50	42.6	18.2	2.27	25.9	8.00	120.5	42.2	19.2	2.30	27.1	8.34	121.0	41.7	20.3	2.34	28.2	8.67	121.5		
		70	59.8	25.0	2.31	32.9	10.84	123.4	59.4	26.0	2.33	34.0	11.14	123.8	59.0	27.0	2.36	35.0	11.43	124.3		
		90	Operation not recommended																			
		110	Operation not recommended																			
	7	50	44.7	17.9	2.25	25.6	7.96	117.5	44.4	18.9	2.26	26.5	8.36	117.8	44.2	19.8	2.26	27.5	8.76	118.1		
		70	62.7	24.8	2.25	32.5	11.02	119.6	62.4	25.7	2.26	33.4	11.3	119.8	62.2	26.5	2.27	34.2	11.64	120.1		
		90	Operation not recommended																			
		110	Operation not recommended																			

EST = entering source fluid temperature to heat pump
 TC = total cooling capacity in MBTUH
 ELT = entering load fluid temperature to heat pump
 HR = heat rejected in MBTUH
 LST = leaving source fluid temperature from heat pump
 EER = energy efficiency ratio
 LLT = leaving load fluid temperature from heat pump

08/29/24

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**5 Series Hydronic Heat Pump
2-5 Ton 60Hz**



Performance Data cont.

048 Heating

Source		Load Flow-8 GPM							Load Flow-11.5 GPM					Load Flow-15 GPM							
EST °F	Flow GPM	ELT °F	LLT °F	HC MBTUH	Power kW	HE MBTUH	COP	LST °F	LLT °F	HC MBTUH	Power kW	HE MBTUH	COP	LST °F	LLT °F	HC MBTUH	Power kW	HE MBTUH	COP	LST °F	
25	11.5	60	Operation not recommended																		
		80	Operation not recommended																		
		100	Operation not recommended																		
		120	Operation not recommended																		
	15	60	70.8	41.9	2.44	33.6	5.03	20.4	67.5	42.0	2.43	33.7	5.06	20.4	65.8	42.0	2.42	33.7	5.09	20.4	
80		90.5	40.9	3.34	29.5	3.58	21.0	87.3	40.7	3.30	29.5	3.61	21.0	85.6	40.6	3.26	29.5	3.65	21.0		
100		110.3	39.8	4.25	25.3	2.75	21.5	107.1	39.5	4.18	25.3	2.77	21.5	105.4	39.2	4.11	25.2	2.80	21.5		
120		130.0	38.8	5.15	21.2	2.21	22.1	126.9	38.3	5.05	21.1	2.22	22.1	125.2	37.8	4.95	20.9	2.24	22.1		
30	8	60	71.3	43.9	2.42	35.6	5.32	20.8	60.6	44.1	2.47	35.6	5.23	20.8	50.0	44.2	2.52	35.6	5.14	20.8	
		80	91.1	43.0	3.35	31.6	3.76	21.9	88.5	43.1	3.35	31.6	3.76	21.9	85.9	43.1	3.35	31.7	3.77	21.8	
		100	110.9	42.1	4.28	27.5	2.88	22.9	108.3	42.1	4.23	27.6	2.91	22.9	105.8	42.0	4.19	27.7	2.94	22.9	
		120	130.6	41.2	5.21	23.4	2.32	24.0	128.1	41.1	5.12	23.6	2.35	23.9	125.6	40.9	5.02	23.8	2.39	23.9	
	11.5	60	71.8	45.8	2.52	37.2	5.33	22.7	65.0	45.9	2.49	37.4	5.39	22.7	58.3	46.0	2.47	37.6	5.46	22.7	
		80	91.4	44.4	3.41	32.7	3.81	23.6	88.8	44.4	3.36	32.9	3.87	23.6	86.1	44.4	3.32	33.1	3.93	23.5	
		100	111.1	43.0	4.31	28.3	2.92	24.5	108.5	42.9	4.23	28.5	2.97	24.4	105.9	42.9	4.16	28.7	3.02	24.4	
		120	130.7	41.6	5.20	23.8	2.34	25.3	128.2	41.4	5.10	24.0	2.38	25.3	125.7	41.3	5.01	24.2	2.42	25.2	
	15	60	72.3	47.6	2.61	38.7	5.34	24.7	69.4	47.7	2.52	39.1	5.57	24.6	66.6	47.8	2.42	39.5	5.79	24.6	
		80	91.8	45.7	3.47	33.9	3.86	25.3	89.0	45.7	3.37	34.2	3.98	25.3	86.3	45.8	3.28	34.6	4.09	25.2	
		100	111.3	43.8	4.33	29.0	2.96	26.0	108.7	43.8	4.23	29.3	3.03	26.0	106.0	43.7	4.13	29.6	3.10	25.9	
		120	130.8	41.9	5.19	24.2	2.37	26.7	128.3	41.8	5.09	24.4	2.41	26.6	125.7	41.7	4.99	24.7	2.45	26.6	
50	8	60	74.7	56.9	2.53	48.3	6.54	37.6	67.2	56.8	2.52	48.2	6.60	37.6	59.8	56.8	2.50	48.2	6.66	37.6	
		80	94.1	54.8	3.42	43.1	4.68	38.9	90.8	54.8	3.38	43.2	4.75	38.9	87.5	54.7	3.34	43.3	4.81	38.8	
		100	113.6	52.7	4.31	38.0	3.58	40.2	110.4	52.7	4.24	38.2	4.34	40.2	107.2	52.7	4.17	38.4	3.70	40.1	
		120	133.0	50.6	5.20	32.9	2.86	41.5	130.0	50.6	5.10	33.2	2.91	41.4	127.0	50.6	5.01	33.5	2.96	41.4	
	11.5	60	75.2	59.1	2.59	50.2	6.69	40.2	69.6	58.9	2.53	50.3	6.83	40.2	64.1	58.8	2.47	50.3	6.98	40.2	
		80	94.5	56.4	3.45	44.7	4.80	41.3	91.1	56.3	3.37	44.8	4.89	41.2	87.7	56.2	3.30	45.0	4.99	41.2	
		100	113.9	53.8	4.31	39.1	3.66	42.3	110.6	53.8	4.22	39.4	3.73	42.3	107.4	53.7	4.14	39.6	3.81	42.2	
		120	133.2	51.2	5.17	33.5	2.90	43.4	130.1	51.2	5.07	33.9	2.96	43.3	127.0	51.2	4.97	34.2	3.02	43.3	
	15	60	75.8	61.3	2.65	52.2	6.77	42.8	72.1	61.0	2.54	52.3	7.03	42.8	68.4	60.8	2.44	52.4	7.30	42.8	
		80	95.0	58.1	3.48	46.2	4.90	43.6	91.5	57.9	3.37	46.4	5.04	43.6	87.9	57.8	3.27	46.6	5.18	43.6	
		100	114.2	54.9	4.31	40.2	3.74	44.5	110.8	54.9	4.20	40.5	3.83	44.4	107.5	54.8	4.10	40.8	3.92	44.4	
		120	133.3	51.8	5.14	34.2	2.96	45.3	130.2	51.8	5.04	34.6	3.02	45.2	127.1	51.8	4.94	35.0	3.08	45.2	
70	8	60	78.0	69.9	2.64	60.9	7.76	54.3	73.8	69.6	2.56	60.9	7.97	54.3	69.5	69.3	2.48	60.8	8.19	54.3	
		80	97.2	66.6	3.49	54.7	5.60	55.9	93.1	66.5	3.40	54.8	5.73	55.9	89.1	66.3	3.32	55.0	5.86	55.8	
		100	116.3	63.3	4.33	48.5	4.28	57.5	112.5	63.3	4.24	48.8	4.37	57.4	108.7	63.3	4.15	49.1	4.47	57.3	
		120	135.5	60.0	5.18	42.3	3.39	59.1	131.9	60.2	5.09	42.8	3.47	59.0	128.3	60.3	4.99	43.3	3.54	58.8	
	11.5	60	78.7	72.4	2.66	63.3	7.97	57.6	74.2	72.0	2.56	63.2	8.23	57.7	69.8	71.5	2.47	63.1	8.50	57.7	
		80	97.7	68.5	3.48	56.6	5.76	58.9	93.5	68.3	3.39	56.7	5.91	58.9	89.4	68.0	3.29	56.8	6.06	58.9	
		100	116.7	64.7	4.31	50.0	4.40	60.2	112.8	64.6	4.21	50.3	4.50	60.2	108.9	64.6	4.11	50.5	4.60	60.1	
		120	135.7	60.8	5.13	43.3	3.47	61.5	132.0	61.0	5.03	43.8	3.55	61.4	128.4	61.1	4.94	44.3	3.63	61.3	
	15	60	79.3	74.9	2.68	65.8	8.19	61.0	74.7	74.3	2.57	65.5	8.50	61.0	70.1	73.7	2.45	65.3	8.81	61.0	
		80	98.2	70.5	3.48	58.6	5.93	61.9	93.9	70.1	3.37	58.6	6.10	61.9	89.6	69.8	3.26	58.6	6.27	61.9	
		100	117.0	66.0	4.28	51.4	4.52	62.9	113.0	65.9	4.18	51.7	4.63	62.9	109.0	65.8	4.07	51.9	4.74	62.9	
		120	135.9	61.6	5.08	44.3	3.55	63.9	132.2	61.8	4.98	44.8	3.63	63.8	128.5	61.9	4.88	45.2	3.72	63.8	
90	8	60	81.1	81.9	2.78	72.4	8.63	71.3	75.9	79.8	3.46	68.0	7.07	72.5	70.7	77.7	4.14	63.6	5.50	73.6	
		80	99.9	77.4	3.64	65.0	6.24	73.3	95.1	76.1	4.04	62.3	5.58	73.9	90.3	74.8	4.44	59.6	4.93	74.6	
		100	118.8	72.9	4.49	57.6	4.75	75.2	114.3	72.4	4.62	56.6	4.59	75.4	109.9	71.8	4.75	55.6	4.43	75.7	
		120	Operation not recommended																		
	11.5	60	81.5	83.6	2.79	74.1	8.80	75.5	76.2	81.2	3.06	70.7	7.77	76.2	70.8	78.8	3.34	67.4	6.91	76.9	
		80	100.5	79.5	3.65	67.0	6.37	76.9	95.5	77.7	3.78	64.8	6.03	77.3	90.4	76.0	3.91	62.7	5.70	77.8	
		100	119.4	75.3	4.52	59.9	4.88	78.3	114.7	74.3	4.50	58.9	4.84	78.5	110.1	73.2	4.47	58.0	4.80	78.7	
		120	Operation not recommended																		
	15	60	82.0	85.3	2.79	75.8	8.96	79.6	76.5	82.6	2.67	73.5	9.09	79.9	71.0	79.9	2.54	71.2	9.22	80.2	
		80	101.0	81.5	3.67	69.0	6.51	80.5	95.8	79.4	3.52	67.4	6.62	80.7	90.6	77.3	3.37	65.8	6.72	81.0	
		100	120.0	77.8	4.55	62.2	5.01	81.4	115.2	76.2	4.37	61.3	5.11	81.6	110.3	74.6	4.19	60.3	5.21	81.7	
		120	Operation not recommended																		

EST = entering source fluid temperature to heat pump
 HC = total heating capacity in MBTUH
 ELT = entering load fluid temperature to heat pump
 HE = heat extracted in MBTUH
 LST = leaving source fluid temperature from heat pump
 COP = coefficient of performance
 LLT = leaving load fluid temperature from heat pump

9/6/24

WaterFurnace works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice. Please contact WaterFurnace at 1-888-929-2837 for latest design and specifications. Purchaser's approval of this data set signifies that the equipment is acceptable under the provisions of the job specification. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely WaterFurnace's opinion or commendation of its products. The latest version of this document is available at www.waterfurnace.com.

Contractor: _____ P.O.: _____
 Engineer: _____
 Project Name: _____ Unit Tag: _____

**5 Series Hydronic Heat Pump
 2-5 Ton 60Hz**



Performance Data cont.

048 Cooling

Source		Load Flow-8 GPM							Load Flow-11.5 GPM							Load Flow-15 GPM						
EST °F	Flow GPM	ELT °F	LLT °F	TC MBTUH	Power kW	HR MBTUH	EER	LST °F	LLT °F	TC MBTUH	Power kW	HR MBTUH	EER	LST °F	LLT °F	TC MBTUH	Power kW	HR MBTUH	EER	LST °F		
30	8	50	36.5	52.3	1.88	58.7	27.82	45.1	39.4	54.1	1.94	60.7	27.93	45.6	42.3	55.8	1.99	62.6	28.04	46.1		
		70	55.4	56.5	1.92	63.0	29.48	46.2	58.7	57.7	1.96	64.4	29.43	46.6	61.9	59.0	2.01	65.8	29.39	47.0		
		90	74.4	60.7	1.95	67.4	31.08	47.4	77.9	61.4	1.99	68.2	30.89	47.6	81.5	62.1	2.02	69.0	30.71	47.8		
		110	93.3	64.9	1.99	71.7	32.61	48.5	97.1	65.1	2.02	72.0	32.31	48.6	101.0	65.3	2.04	72.3	32.01	48.6		
	11.5	50	36.3	53.2	1.85	59.5	28.76	41.7	39.3	54.8	1.89	61.3	28.99	42.1	42.2	56.4	1.93	63.0	29.22	42.4		
		70	55.5	56.4	1.87	62.8	30.15	42.4	58.7	57.5	1.90	64.0	30.25	42.7	61.9	58.6	1.93	65.2	30.35	42.9		
		90	74.6	59.7	1.89	66.1	31.51	43.1	78.1	60.3	1.91	66.8	31.50	43.3	81.6	60.9	1.93	67.5	31.48	43.4		
		110	93.8	62.9	1.92	69.4	32.85	43.9	97.6	63.0	1.93	69.6	32.73	43.9	101.3	63.1	1.94	69.7	32.61	43.9		
	15	50	36.1	54.1	1.82	60.3	29.73	38.3	39.1	55.6	1.85	61.8	30.10	38.5	42.2	57.0	1.87	63.4	30.48	38.7		
		70	55.5	56.4	1.83	62.6	30.86	38.6	58.7	57.3	1.84	63.6	31.13	38.7	62.0	58.3	1.86	64.6	31.40	38.9		
		90	74.9	58.6	1.83	64.9	31.98	38.9	78.3	59.1	1.84	65.4	32.16	39.0	81.8	59.6	1.84	65.9	32.33	39.1		
		110	94.3	60.9	1.84	67.2	33.10	39.2	98.0	60.9	1.84	67.2	33.19	39.2	101.6	60.9	1.83	67.1	33.28	39.2		
50	8	50	37.4	49.1	2.44	57.4	21.57	64.8	40.0	51.2	2.48	59.7	21.97	65.4	42.7	53.4	2.52	62.0	22.36	66.0		
		70	55.5	56.5	2.51	65.0	23.85	66.8	58.6	58.2	2.54	66.9	24.15	67.2	61.7	60.0	2.57	68.8	24.45	67.7		
		90	73.5	63.9	2.58	72.6	26.00	68.7	77.2	65.3	2.60	74.1	26.23	69.1	80.8	66.7	2.62	75.6	26.46	69.5		
		110	91.6	71.3	2.65	80.3	28.03	70.7	95.8	72.3	2.66	81.4	28.21	71.0	99.9	73.4	2.67	82.5	28.39	71.3		
	11.5	50	40.2	50.1	2.38	58.2	21.09	61.5	39.8	52.0	2.40	60.2	21.63	61.9	42.6	53.9	2.43	62.2	22.15	62.3		
		70	58.8	57.0	2.41	65.2	23.62	62.9	58.6	58.3	2.43	66.6	23.94	63.2	61.8	59.6	2.46	67.9	24.26	63.5		
		90	77.4	63.9	2.45	72.3	26.07	64.3	77.3	64.6	2.46	73.0	26.20	64.5	81.0	65.2	2.48	73.7	26.33	64.7		
		110	96.0	70.8	2.49	79.3	28.44	65.7	96.0	70.9	2.50	79.4	28.40	65.8	100.3	70.9	2.50	79.4	28.36	65.9		
	15	50	43.0	51.2	2.32	59.1	23.44	58.1	39.7	52.8	2.33	60.7	23.93	58.3	42.5	54.4	2.35	62.4	24.43	58.6		
		70	62.1	57.6	2.32	65.5	25.87	59.0	58.5	58.3	2.33	66.3	26.08	59.1	61.9	59.1	2.34	67.1	26.28	59.2		
		90	81.2	64.0	2.33	71.9	28.30	59.9	77.4	63.9	2.33	71.8	28.22	59.9	81.2	63.7	2.34	71.7	28.14	59.9		
		110	100.3	70.4	2.33	78.4	30.72	60.8	96.2	69.4	2.33	77.4	30.36	60.6	100.6	68.4	2.34	76.4	30.00	60.5		
70	8	50	38.2	45.8	2.99	56.0	15.32	84.4	40.6	48.4	3.02	58.7	16.00	85.1	43.0	50.9	3.05	61.3	16.69	85.8		
		70	55.5	56.4	3.10	67.0	18.21	87.3	58.5	58.8	3.11	69.4	18.87	87.9	61.6	61.1	3.13	71.8	19.52	88.5		
		90	72.7	67.0	3.20	77.9	20.92	90.1	76.5	69.2	3.21	80.1	21.56	90.6	80.2	71.3	3.21	82.3	22.21	91.2		
		110	Operation not recommended																			
	11.5	50	37.9	47.0	2.90	56.9	16.21	81.2	40.4	49.2	2.92	59.1	16.86	81.7	42.9	51.4	2.94	61.4	17.50	82.1		
		70	55.2	57.6	2.96	67.7	19.49	83.3	58.4	59.0	2.97	69.2	19.90	83.7	61.7	60.5	2.98	70.6	20.30	84.0		
		90	72.4	68.2	3.01	78.4	22.65	85.5	76.4	68.9	3.02	79.2	22.84	85.7	80.4	69.6	3.02	79.9	23.03	85.9		
		110	Operation not recommended																			
	15	50	37.6	48.2	2.81	57.8	17.15	77.9	40.2	50.0	2.82	59.6	17.76	78.2	42.9	51.8	2.82	61.4	18.37	78.4		
		70	54.9	58.8	2.81	68.4	20.89	79.4	58.3	59.3	2.82	68.9	21.03	79.5	61.8	59.8	2.83	69.5	21.17	79.6		
		90	72.1	69.3	2.82	78.9	24.62	80.9	76.4	68.6	2.83	78.2	24.28	80.8	80.7	67.9	2.83	77.5	23.95	80.7		
		110	89.4	79.9	2.82	89.5	28.33	82.3	94.5	77.9	2.83	87.6	27.53	82.0	99.6	75.9	2.84	85.6	26.73	81.8		
90	8	50	39.4	41.0	3.85	54.1	11.49	103.9	41.7	42.8	3.89	56.1	11.92	104.4	43.9	44.7	3.92	58.0	12.35	105.0		
		70	56.6	52.2	3.96	65.7	14.07	106.9	59.5	53.9	3.99	67.5	14.47	107.4	62.4	55.6	4.01	69.3	14.88	107.9		
		90	73.7	63.4	4.07	77.3	16.50	109.9	77.3	65.0	4.09	78.9	16.89	110.3	80.9	66.6	4.11	80.6	17.28	110.8		
		110	Operation not recommended																			
	11.5	50	39.2	41.8	3.73	54.5	11.20	100.7	41.5	43.5	3.76	56.3	11.56	101.1	43.8	45.1	3.79	58.0	11.92	101.5		
		70	56.4	52.7	3.80	65.7	13.88	103.0	59.4	54.1	3.82	67.1	14.15	103.3	62.4	55.4	3.84	68.5	14.42	103.6		
		90	73.6	63.7	3.86	76.8	16.47	105.2	77.3	64.7	3.88	77.9	16.66	105.5	81.0	65.7	3.90	79.0	16.85	105.7		
		110	Operation not recommended																			
	15	50	39.0	42.7	3.62	55.0	12.77	97.6	41.4	44.1	3.63	56.5	13.18	97.8	43.7	45.6	3.65	58.1	13.58	98.0		
		70	56.3	53.3	3.64	65.7	15.81	99.0	59.3	54.3	3.65	66.7	16.00	99.2	62.4	55.2	3.67	67.7	16.19	99.3		
		90	73.5	64.0	3.66	76.4	18.82	100.5	77.3	64.4	3.67	76.9	18.80	100.6	81.1	64.8	3.69	77.4	18.78	100.6		
		110	Operation not recommended																			
110	8	50	40.7	36.1	4.71	52.2	7.66	123.4	42.7	37.3	4.75	53.5	7.84	123.8	44.7	38.4	4.79	54.7	8.02	124.1		
		70	57.7	47.9	4.83	64.4	9.92	126.6	60.4	49.0	4.86	65.6	10.08	126.9	63.1	50.1	4.90	66.8	10.23	127.2		
		90	Operation not recommended																			
		110	Operation not recommended																			
	11.5	50	40.6	36.6	4.57	52.2	8.02	120.3	42.6	37.8	4.60	53.4	8.21	120.6	44.7	38.9	4.64	54.7	8.39	120.8		
		70	57.7	47.9	4.64	63.7	10.31	122.6	60.4	49.1	4.67	65.0	10.51	122.9	63.1	50.3	4.70	66.4	10.7	123.1		
		90	Operation not recommended																			
		110	Operation not recommended																			
	15	50	40.4	37.1	4.42	52.2	8.39	117.2	42.5	38.3	4.45	53.4	8.59	117.3	44.6	39.4	4.48	54.7	8.79	117.5		
		70	57.7	47.8	4.46	63.0	10.7	118.7	60.4	49.2	4.48	64.5	10.97	118.9	63.0	50.6	4.51	66.0	11.21	119.1		
		90	Operation not recommended																			
		110	Operation not recommended																			

EST = entering source fluid temperature to heat pump
 TC = total cooling capacity in MBTUH
 ELT = entering load fluid temperature to heat pump
 HR = heat rejected in MBTUH
 LST = leaving source fluid temperature from heat pump
 EER = energy efficiency ratio
 LLT = leaving load fluid temperature from heat pump

9/6/24

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**5 Series Hydronic Heat Pump
2-5 Ton 60HZ**



Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Performance Data cont.

060 Heating

Source		Load Flow-9 GPM							Load Flow-13.5GPM							Load Flow-18 GPM						
EST	Flow	ELT	LLT	HC	Power	HE	COP	LST	LLT	HC	Power	HE	COP	LST	LLT	HC	Power	HE	COP	LST		
° F	GPM	° F	° F	MBTUH	kW	MBTUH		° F	° F	MBTUH	kW	MBTUH		° F	° F	MBTUH	kW	MBTUH		° F		
25	13.5	60	Operation not recommended																			
		80	Operation not recommended																			
		100	Operation not recommended																			
		120	Operation not recommended																			
	18	60	71.0	48.1	2.89	38.2	4.88	20.6	67.4	48.5	2.83	38.8	5.02	20.6	65.6	48.8	2.77	39.3	5.16	20.49		
80		90.8	47.0	3.90	33.7	3.53	21.1	87.2	47.4	3.82	34.3	3.63	21.1	85.5	47.7	3.74	34.9	3.73	21.0			
100		110.5	46.0	4.91	29.2	2.74	21.7	107.1	46.3	4.81	29.8	2.82	21.6	105.3	46.5	4.72	30.4	2.89	21.5			
120		130.3	44.9	5.92	24.7	2.22	22.2	126.9	45.2	5.81	25.3	2.28	22.1	125.2	45.4	5.69	26.0	2.34	22.0			
30	9	60	71.7	51.1	2.89	41.2	5.18	20.6	64.4	51.5	2.85	41.7	5.29	20.4	57.0	51.8	2.81	42.2	5.40	20.3		
		80	91.3	49.3	3.92	35.9	3.69	21.8	88.5	49.6	3.85	36.5	3.78	21.6	85.7	49.9	3.78	37.0	3.87	21.5		
		100	110.9	47.5	4.94	30.6	2.82	23.0	108.2	47.8	4.85	31.2	2.89	22.8	105.5	48.1	4.76	31.8	2.96	22.7		
		120	130.5	45.7	5.97	25.3	2.24	24.2	127.9	46.0	5.85	26.0	2.30	24.0	125.3	46.2	5.73	26.6	2.36	23.9		
	13.5	60	71.9	52.0	2.9	41.9	5.19	22.8	66.7	52.2	2.85	42.5	5.36	22.7	61.6	52.5	2.8	43.0	5.54	22.7		
		80	91.5	50.1	3.9	36.6	3.72	23.7	88.6	50.4	3.85	37.2	3.83	23.6	85.8	50.6	3.8	37.8	3.95	23.5		
		100	111.0	48.2	4.9	31.3	2.85	24.7	108.3	48.5	4.84	31.9	2.93	24.6	105.6	48.8	4.7	32.6	3.02	24.4		
		120	130.6	46.3	6.0	26.0	2.28	25.6	128.0	46.6	5.84	26.7	2.34	25.5	125.4	46.9	5.7	27.4	2.40	25.3		
	18	60	72.1	52.8	2.97	42.7	5.21	25.1	69.1	53.0	2.86	43.3	5.45	25.0	66.1	53.2	2.74	43.8	5.69	25.0		
		80	91.6	50.8	3.96	37.3	3.76	25.7	88.8	51.1	3.85	38.0	3.90	25.7	85.9	51.3	3.73	38.6	4.03	25.6		
		100	111.2	48.9	4.95	32.0	2.89	26.3	108.4	49.2	4.84	32.7	2.98	26.3	105.7	49.5	4.72	33.4	3.07	26.2		
		120	130.7	46.9	5.94	26.6	2.31	26.9	128.1	47.3	5.83	27.4	2.38	26.9	125.5	47.6	5.71	28.1	2.44	26.8		
50	9	60	75.2	66.6	3.0	56.2	6.36	37.1	69.3	66.9	2.95	56.9	6.61	37.0	63.3	67.3	2.9	57.5	6.87	36.8		
		80	94.6	63.8	4.0	50.0	4.61	38.5	91.0	64.1	3.92	50.7	4.77	38.4	87.4	64.5	3.8	51.4	4.94	38.2		
		100	114.0	61.0	5.0	43.9	3.55	39.9	110.5	61.3	4.90	44.6	3.66	39.8	107.1	61.6	4.8	45.3	3.78	39.6		
		120	133.3	58.3	6.0	37.7	2.84	41.4	130.0	58.5	5.87	38.5	2.92	41.2	126.7	58.8	5.7	39.2	3.00	41.0		
	13.5	60	75.7	68.4	3.1	57.9	6.57	40.1	70.7	68.7	2.95	58.6	6.82	40.0	65.7	69.0	2.9	59.2	7.08	39.9		
		80	95.0	65.5	4.0	51.7	4.75	41.2	91.3	65.8	3.93	52.4	4.91	41.1	87.6	66.1	3.8	53.1	5.08	41.0		
		100	114.3	62.6	5.0	45.4	3.65	42.3	110.8	62.9	4.90	46.2	3.76	42.2	107.2	63.2	4.8	46.9	3.88	42.0		
		120	133.7	59.7	6.0	39.2	2.91	43.4	130.3	60.0	5.87	40.0	2.99	43.2	126.9	60.4	5.7	40.8	3.08	43.1		
	18	60	76.1	70.2	3.1	59.7	6.67	43.2	72.1	70.4	2.95	60.3	6.95	43.1	68.1	70.7	2.8	60.9	7.22	43.0		
		80	95.4	67.2	4.0	53.3	4.84	43.9	91.6	67.4	3.93	54.0	5.02	43.8	87.8	67.7	3.8	54.7	5.19	43.7		
		100	114.7	64.2	5.0	47.0	3.72	44.6	111.1	64.5	4.90	47.8	3.85	44.5	107.4	64.8	4.8	48.5	3.97	44.4		
		120	134.0	61.2	6.0	40.6	2.97	45.3	130.5	61.5	5.87	41.5	3.07	45.2	127.1	61.9	5.7	42.3	3.16	45.1		
70	9	60	78.8	82.0	3.19	71.1	7.53	53.7	74.1	82.4	3.05	72.0	7.93	53.5	69.5	82.8	2.91	72.9	8.34	53.3		
		80	97.9	78.3	4.14	64.1	5.53	55.3	93.5	78.6	4.00	65.0	5.77	55.1	89.0	79.0	3.85	65.8	6.01	54.9		
		100	117.1	74.5	5.10	57.1	4.28	56.9	112.8	74.9	4.95	58.0	4.44	56.7	108.6	75.2	4.80	58.8	4.59	56.5		
		120	136.2	70.8	6.05	50.2	3.43	58.5	132.2	71.1	5.90	51.0	3.54	58.3	128.2	71.4	5.74	51.8	3.64	58.1		
	13.5	60	79.4	84.8	3.2	73.9	7.83	57.5	74.6	85.1	3.05	74.7	8.18	57.3	69.8	85.5	2.9	75.4	8.54	57.2		
		80	98.5	80.9	4.1	66.7	5.73	58.7	93.9	81.2	4.00	67.6	5.95	58.5	89.3	81.6	3.9	68.4	6.18	58.4		
		100	117.6	77.0	5.1	59.6	4.42	59.9	113.3	77.3	4.96	60.4	4.57	59.8	108.9	77.7	4.8	61.3	4.74	59.6		
		120	136.7	73.1	6.1	52.4	3.53	61.1	132.6	73.5	5.91	53.3	3.64	61.0	128.5	73.8	5.7	54.2	3.76	60.8		
	18	60	80.0	87.5	3.15	76.7	8.14	61.2	75.1	87.8	3.05	77.4	8.44	61.1	70.1	88.1	2.95	78.0	8.75	61.1		
		80	99.1	83.5	4.13	69.4	5.92	62.1	94.4	83.8	4.01	70.1	6.13	62.0	89.6	84.1	3.88	70.9	6.35	61.9		
		100	118.2	79.4	5.11	62.0	4.55	62.9	113.7	79.8	4.96	62.9	4.72	62.8	109.2	80.2	4.82	63.7	4.88	62.7		
		120	137.3	75.4	6.09	54.6	3.63	63.7	133.0	75.8	5.92	55.6	3.76	63.6	128.7	76.2	5.75	56.6	3.88	63.5		
90	9	60	82.1	96.5	3.22	85.5	8.78	70.4	76.3	94.0	3.06	83.6	9.03	70.9	75.5	91.5	2.89	81.6	9.28	71.3		
		80	101.1	92.2	4.22	77.8	6.40	72.2	95.7	90.8	4.03	77.1	6.62	72.3	90.2	89.4	3.83	76.3	6.84	72.5		
		100	Operation not recommended																			
		120	Operation not recommended																			
	13.5	60	82.6	98.5	3.3	87.3	8.86	75.1	76.6	95.5	3.08	85.0	9.09	75.5	70.6	92.6	2.9	82.7	9.36	75.9		
		80	101.5	93.9	4.3	79.4	6.47	76.5	95.9	92.3	4.05	78.4	6.68	76.6	90.4	90.6	3.8	77.5	6.91	76.8		
		100	120.5	89.4	5.3	71.4	4.98	77.8	115.3	89.0	5.02	71.9	5.19	77.7	110.2	88.6	4.8	72.3	5.42	77.7		
		120	Operation not recommended																			
	18	60	83.0	100.4	3.29	89.2	8.94	79.8	76.9	97.1	3.10	86.5	9.19	80.1	70.7	93.7	2.91	83.8	9.43	80.4		
		80	101.9	95.6	4.29	81.0	6.54	80.7	96.2	93.7	4.07	79.8	6.75	80.9	90.5	91.8	3.86	78.7	6.97	81.0		
		100	120.8	90.9	5.28	72.8	5.04	81.7	115.6	90.4	5.05	73.2	5.26	81.6	110.3	90.0	4.81	73.6	5.48	81.6		
		120	Operation not recommended																			

EST = entering source fluid temperature to heat pump
 HC = total heating capacity in MBTUH
 ELT = entering load fluid temperature to heat pump
 HE = heat extracted in MBTUH
 LST = leaving source fluid temperature from heat pump
 COP = coefficient of performance
 LLT = leaving load fluid temperature from heat pump

8/29/24

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**5 Series Hydronic Heat Pump
2-5 Ton 60Hz**



Performance Data cont.

060 Cooling

Source		Load Flow-9 GPM							Load Flow-13.5 GPM							Load Flow-18 GPM						
EST °F	Flow GPM	ELT °F	LLT °F	TC MBTUH	Power kW	HR MBTUH	EER	LST °F	LLT °F	TC MBTUH	Power kW	HR MBTUH	EER	LST °F	LLT °F	TC MBTUH	Power kW	HR MBTUH	EER	LST °F		
30	9	50	36.0	60.9	2.10	68.1	29.00	45.6	39.3	62.9	2.17	70.3	28.96	46.1	42.6	64.8	2.24	72.4	28.93	46.6		
		70	54.4	68.0	2.18	75.4	31.24	47.3	58.1	69.5	2.23	77.1	31.21	47.7	61.9	71.0	2.28	78.7	31.17	48.0		
		90	72.8	75.1	2.25	82.8	33.33	49.0	77.0	76.1	2.28	83.9	33.34	49.2	81.2	77.1	2.31	85.0	33.34	49.5		
		110	91.2	82.2	2.33	90.2	35.28	50.7	95.8	82.8	2.34	90.7	35.36	50.8	100.5	83.3	2.35	91.3	35.45	50.9		
	13.5	50	36.3	59.8	2.08	66.9	28.75	41.6	39.4	62.4	2.10	69.6	29.68	42.0	42.6	65.0	2.13	72.3	30.59	42.4		
		70	55.1	65.0	2.12	72.3	30.67	42.6	58.6	66.9	2.13	74.2	31.35	42.9	62.1	68.8	2.15	76.1	32.03	43.2		
		90	73.9	70.2	2.16	77.6	32.52	43.6	77.8	71.4	2.16	78.8	32.98	43.8	81.7	72.5	2.17	79.9	33.44	44.0		
		110	92.7	75.5	2.20	83.0	34.30	44.7	97.0	75.9	2.20	83.3	34.56	44.7	101.3	76.3	2.19	83.7	34.82	44.8		
	18	50	36.6	58.7	2.06	65.7	28.50	37.5	39.5	62.0	2.04	68.9	30.47	37.9	42.5	65.2	2.01	72.1	32.44	38.3		
		70	55.8	62.0	2.06	69.1	30.06	37.9	59.1	64.3	2.04	71.2	31.53	38.2	62.4	66.5	2.02	73.4	32.99	38.4		
		90	75.0	65.4	2.07	72.4	31.63	38.3	78.6	66.6	2.05	73.6	32.59	38.4	82.2	67.9	2.02	74.8	33.54	38.6		
		110	94.3	68.7	2.07	75.8	33.19	38.7	98.2	69.0	2.05	75.9	33.64	38.7	102.1	69.2	2.03	76.1	34.09	38.7		
50	9	50	37.0	56.9	2.76	66.3	22.26	65.2	40.0	59.1	2.81	68.6	22.49	65.7	43.0	61.2	2.87	71.0	22.72	66.3		
		70	54.5	67.8	2.89	77.7	25.02	67.8	58.1	69.6	2.92	79.6	25.28	68.2	61.8	71.4	2.95	81.5	25.53	68.7		
		90	72.0	78.7	3.02	89.0	27.55	70.4	76.3	80.2	3.02	90.5	27.87	70.7	80.6	81.6	3.03	92.0	28.20	71.1		
		110	89.5	89.7	3.15	100.4	29.87	73.0	94.5	90.8	3.13	101.4	30.30	73.2	99.5	91.9	3.11	102.4	30.73	73.5		
	13.5	50	37.0	56.7	2.70	65.9	20.99	61.3	40.0	59.1	2.73	68.4	21.69	61.8	42.9	61.6	2.75	71.0	22.37	62.2		
		70	54.8	66.2	2.77	75.7	23.88	63.1	58.4	68.2	2.79	77.7	24.48	63.5	62.0	70.2	2.80	79.8	25.08	63.8		
		90	72.7	75.7	2.84	85.4	26.63	64.9	76.8	77.3	2.85	87.0	27.16	65.2	81.0	78.9	2.85	88.6	27.70	65.4		
		110	90.5	85.2	2.92	95.2	29.24	66.7	95.2	86.4	2.91	96.3	29.73	66.8	100.0	87.6	2.90	97.5	30.22	67.0		
	18	50	37.1	56.5	2.65	65.5	22.64	57.5	40.0	59.2	2.64	68.2	23.92	57.8	42.9	62.0	2.64	71.0	25.19	58.1		
		70	55.2	64.6	2.66	73.6	25.36	58.4	58.6	66.8	2.66	75.9	26.36	58.7	62.1	69.1	2.66	78.1	27.36	59.0		
		90	73.3	72.7	2.67	81.8	28.05	59.4	77.3	74.4	2.67	83.5	28.77	59.6	81.3	76.2	2.67	85.3	29.48	59.8		
		110	91.5	80.8	2.68	89.9	30.71	60.3	96.0	82.1	2.69	91.2	31.15	60.4	100.5	83.3	2.69	92.5	31.58	60.6		
70	9	50	37.9	52.9	3.41	64.5	15.51	84.8	40.6	55.3	3.45	67.0	16.01	85.4	43.4	57.6	3.49	69.5	16.50	85.9		
		70	54.5	67.6	3.60	79.9	18.80	88.3	58.1	69.8	3.61	82.1	19.35	88.8	61.8	71.9	3.61	84.2	19.89	89.3		
		90	71.1	82.4	3.78	95.3	21.77	91.8	75.6	84.3	3.76	97.1	22.41	92.2	80.1	86.1	3.74	98.9	23.05	92.7		
		110	Operation not recommended																			
	13.5	50	37.7	53.6	3.32	64.9	16.13	81.1	40.5	55.9	3.35	67.3	16.67	81.5	43.3	58.2	3.38	69.7	17.20	82.0		
		70	54.6	67.4	3.42	79.1	19.68	83.6	58.2	69.6	3.44	81.3	20.22	84.0	61.8	71.7	3.46	83.5	20.76	84.4		
		90	71.4	81.2	3.53	93.2	23.02	86.1	75.8	83.3	3.53	95.3	23.59	86.5	80.2	85.3	3.53	97.4	24.17	86.8		
		110	Operation not recommended																			
	18	50	37.6	54.2	3.23	65.2	16.78	77.5	40.4	56.5	3.25	67.5	17.37	77.7	43.3	58.7	3.27	69.9	17.95	78.0		
		70	54.6	67.1	3.25	78.2	20.65	79.0	58.2	69.4	3.27	80.5	21.18	79.2	61.8	71.6	3.30	82.9	21.72	79.5		
		90	71.7	80.0	3.27	91.2	24.46	80.4	76.0	82.3	3.30	93.5	24.95	80.7	80.3	84.5	3.32	95.8	25.43	81.0		
		110	88.7	92.9	3.29	104.1	28.24	81.9	93.8	95.2	3.32	106.5	28.66	82.2	98.8	97.4	3.35	108.8	29.07	82.5		
90	9	50	39.3	46.7	4.43	61.8	11.47	104.1	41.8	48.6	4.45	63.8	11.86	104.6	44.2	50.6	4.47	65.8	12.25	105.1		
		70	56.1	60.9	4.57	76.5	14.28	107.5	59.3	62.8	4.58	78.4	14.70	108.0	62.6	64.7	4.59	80.4	15.11	108.4		
		90	72.8	75.1	4.72	91.2	16.89	110.9	76.9	77.0	4.72	93.1	17.35	111.3	81.0	78.9	4.72	95.0	17.80	111.8		
		110	Operation not recommended																			
	13.5	50	39.2	47.3	4.29	62.0	11.03	100.6	41.7	49.2	4.31	63.9	11.42	101.0	44.2	51.1	4.33	65.8	11.80	101.3		
		70	56.0	61.1	4.38	76.0	13.95	103.1	59.3	63.0	4.39	78.0	14.35	103.4	62.6	65.0	4.41	80.0	14.74	103.8		
		90	72.9	74.8	4.46	90.0	16.76	105.5	76.9	76.8	4.47	92.1	17.17	105.9	81.0	78.9	4.49	94.2	17.57	106.2		
		110	Operation not recommended																			
	18	50	39.0	48.0	4.16	62.2	12.50	97.1	41.5	49.8	4.17	64.0	12.91	97.3	44.1	51.6	4.19	65.8	13.33	97.5		
		70	56.0	61.2	4.18	75.5	15.73	98.6	59.3	63.2	4.20	77.5	16.15	98.9	62.5	65.2	4.22	79.6	16.57	99.1		
		90	72.9	74.4	4.21	88.8	18.93	100.2	77.0	76.6	4.23	91.1	19.35	100.4	81.0	78.8	4.26	93.3	19.76	100.7		
		110	Operation not recommended																			
110	9	50	40.7	40.4	5.44	59.0	7.43	123.5	42.9	42.0	5.44	60.5	7.71	123.9	45.0	43.5	5.44	62.1	8.00	124.2		
		70	57.6	54.1	5.54	73.1	9.77	126.7	60.5	55.9	5.56	74.8	10.05	127.1	63.4	57.6	5.57	76.6	10.33	127.5		
		90	Operation not recommended																			
		110	Operation not recommended																			
	13.5	50	40.6	41.1	5.27	59.1	7.81	120.1	42.8	42.5	5.27	60.5	8.07	120.4	45.0	44.0	5.27	61.9	8.34	120.6		
		70	57.5	54.7	5.33	72.9	10.27	122.5	60.4	56.5	5.34	74.7	10.56	122.8	63.3	58.2	5.36	76.5	10.86	123.1		
		90	Operation not recommended																			
		110	Operation not recommended																			
	18	50	40.4	41.8	5.09	59.2	8.21	116.8	42.7	43.1	5.10	60.5	8.46	116.9	44.9	44.4	5.10	61.8	8.71	117.1		
		70	57.3	55.3	5.12	72.8	10.81	118.3	60.3	57.1	5.13	74.6	11.12	118.5	63.3	58.8	5.14	76.3	11.43	118.7		
		90	Operation not recommended																			
		110	Operation not recommended																			

EST = entering source fluid temperature to heat pump
 TC = total cooling capacity in MBTUH
 ELT = entering load fluid temperature to heat pump
 HR = heat rejected in MBTUH
 LST = leaving source fluid temperature from heat pump
 EER = energy efficiency ratio
 LLT = leaving load fluid temperature from heat pump

8/29/24

WaterFurnace works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice. Please contact WaterFurnace at 1-888-929-2837 for latest design and specifications. Purchaser's approval of this data set signifies that the equipment is acceptable under the provisions of the job specification. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely WaterFurnace's opinion or commendation of its products. The latest version of this document is available at www.waterfurnace.com.

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**5 Series Hydronic Heat Pump
2-5 Ton 60Hz**



Revision Guide

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