

SUBMITTAL DATA

Affinity Outdoor Split



R-454B \ 60HZ

SDW5-0020Y



Contractor: _____ P.O.: _____

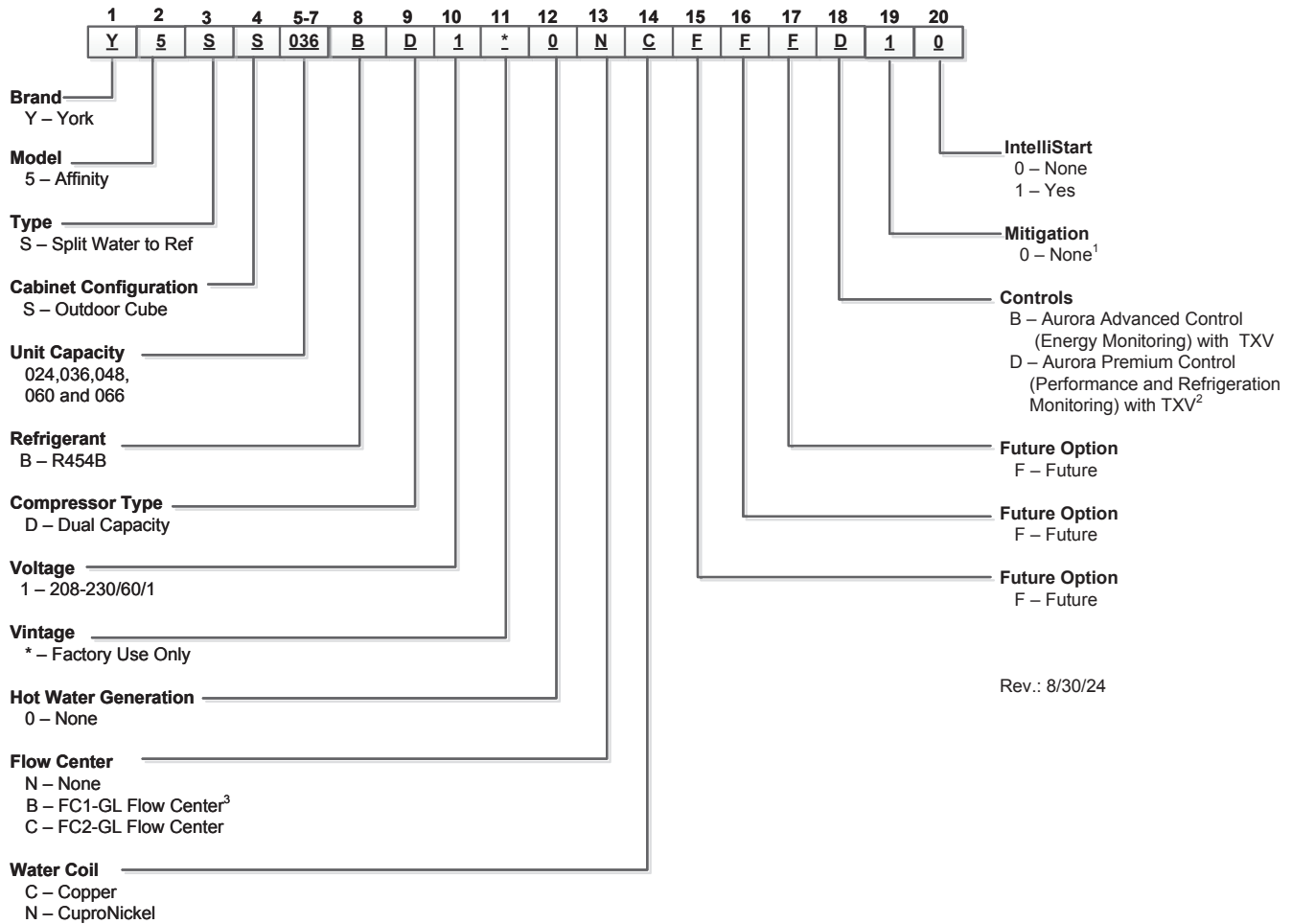
Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



Model Nomenclature



Rev.: 8/30/24

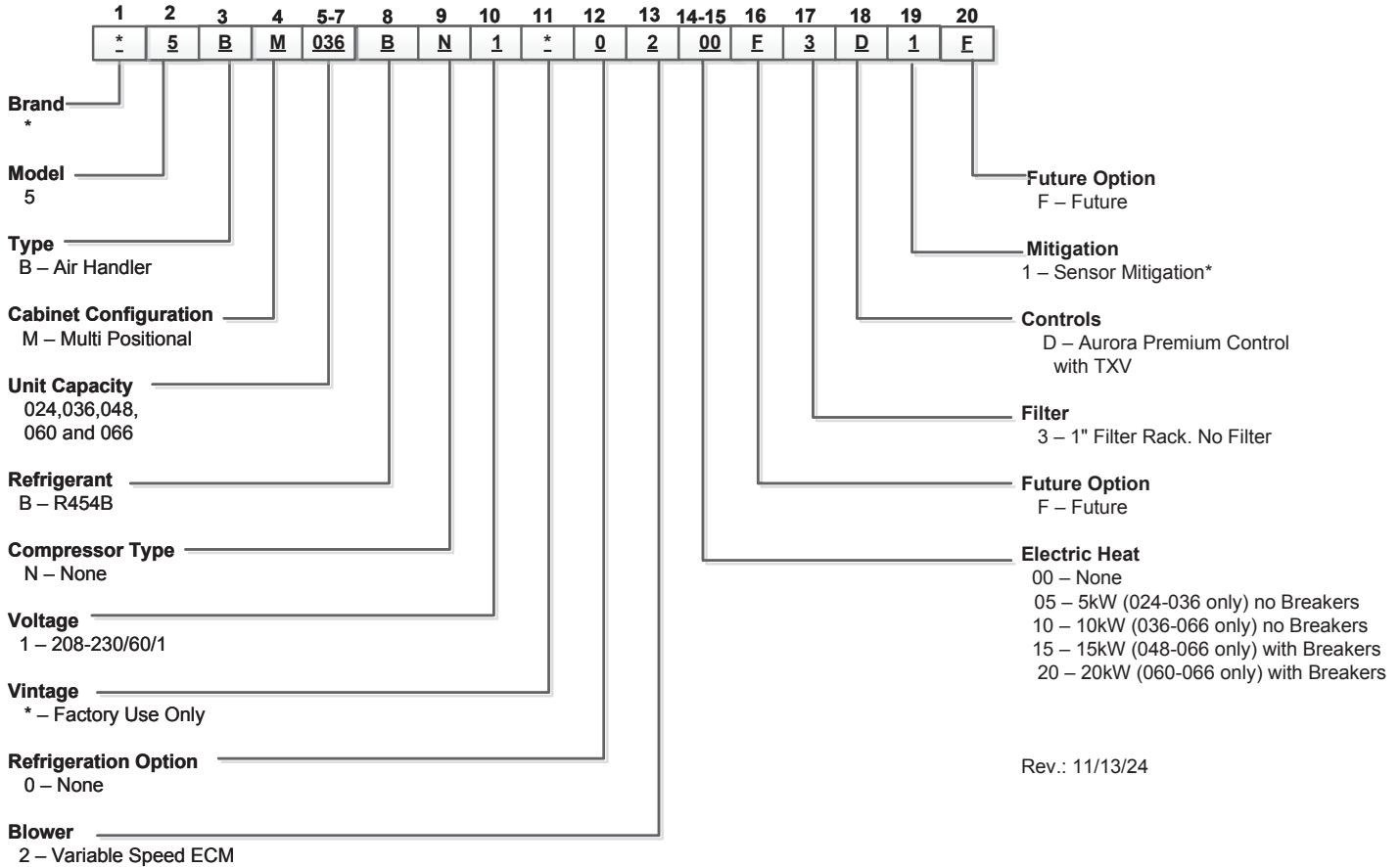
- 1- Unit equipped with single ASB board to support the air handler's refrigeration detection sensor.
- 2- Performance package includes water temperature monitoring only.
- 3- FC1-GL Not available on 060-066 units.

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

Affinity - Outdoor Split
2 - 6 Tons 60Hz



Model Nomenclature - Air Handler



Rev.: 11/13/24

* Unit equipped with single refrigeration detection sensor only. ASB board is located in the compressor section.

Note: To field convert the air handler to bottom flow air discharge, the SAHBCK kit must be ordered.

Note: Air flow on the 060 and 066 units in the horizontal configurations should be limited to 1900 cfm in cooling mode, or condensate blow off may occur.

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



AHRI/ISO 13256-1 Performance Ratings

Model	Capacity Modulation	Flow Rate		Ground Water Heat Pump				Ground Loop Heat Pump			
				Cooling EWT 59°F		Heating EWT 50°F		Cooling Brine Full Load 77°F Part Load 68°F		Heating Brine Full Load 32°F Part Load 41°F	
		gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
024	Full	8	850	25,800	23.8	22,700	4.6	23,800	18.4	18,800	3.9
	Part	7	750	19,100	30.0	16,400	5.0	18,800	25.2	15,100	4.3
036	Full	9	1200	38,100	25.2	35,000	5.0	37,000	19.8	28,400	4.2
	Part	8	800	29,100	33.8	25,200	5.1	28,000	27.8	22,600	4.5
048	Full	12	1500	50,900	24.3	47,300	4.8	47,100	18.2	37,900	4.2
	Part	11	1300	38,100	30.9	34,200	5.1	37,200	25.8	30,200	4.6
060	Full	16	1800	63,900	23.7	55,700	4.4	59,900	18.2	46,700	3.9
	Part	14	1500	48,900	30.5	38,100	4.7	46,300	25.4	34,500	4.2
066	Full	18	2000	70,100	22.1	66,100	4.2	63,700	16.9	53,900	3.7
	Part	16	1600	54,700	28.1	50,000	4.4	52,300	23.5	44,800	4.0

Notes: Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature.
 Heating capacities based upon 68°F DB, 59°F WB entering air temperature.
 All ratings based upon operation at the lower voltage of dual voltage rated models.
 Refer to the air handler compatability table for matching air handler.

8/13/24

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



AHRI/ISO 13256-1 Performance Ratings

Energy Star Compliance Table

Model	Tier 3	
	Ground Water	Ground Loop
024	Yes	Yes
036	Yes	Yes
048	Yes	Yes
060	Yes	Yes
066	No	Yes

9/20/24

Energy Star Rating Criteria

In order for water-source heat pumps to be Energy Star rated they must meet or exceed the minimum efficiency requirements listed below.

Tier 3: 1/1/2012 - No Effective End Date Published

	EER	COP
Closed loop water-to-air	17.1	3.6
Open loop water-to-air	21.1	4.1
Closed loop water-to-water	16.1	3.1
Open loop water-to-water	20.1	3.5



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Engineer: _____

Project Name: _____ Unit Tag: _____

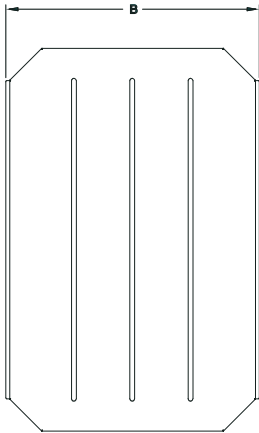
**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



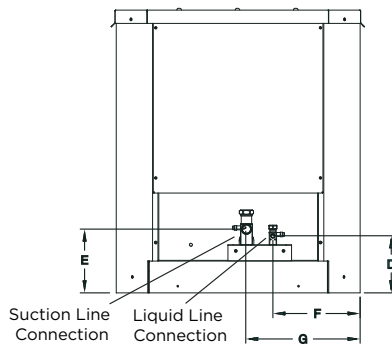
Dimensional Data

Cabinet Dimensions and Refrigerant Piping Connections

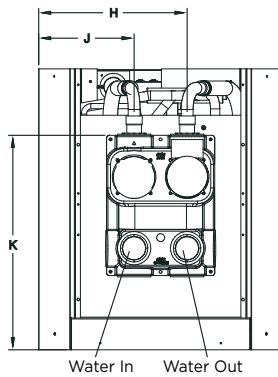
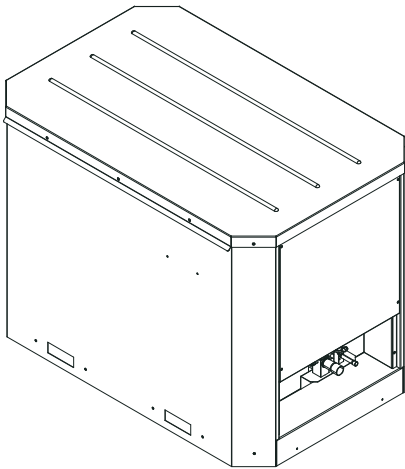
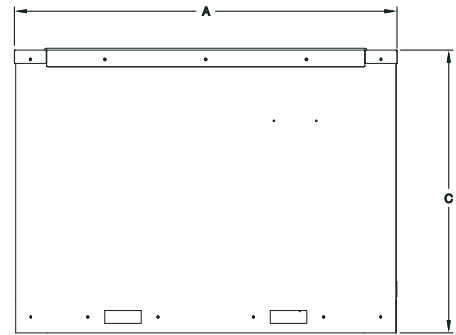
TOP VIEW



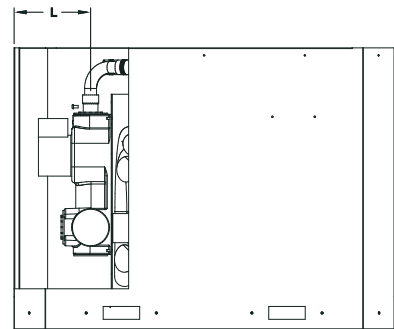
FRONT VIEW



SIDE VIEW



REAR VIEW



SIDE VIEW

Model		A	B	C	D	E	F	G	H	J	K	L
024 thru 066	in	36.0	23.9	26.7	5.4	6.0	8.2	10.8	14.0	9.0	20.2	7.2
	[cm]	[91.4]	[60.7]	[67.8]	[13.7]	[15.2]	[20.8]	[27.4]	[35.6]	[22.9]	[51.3]	[18.3]

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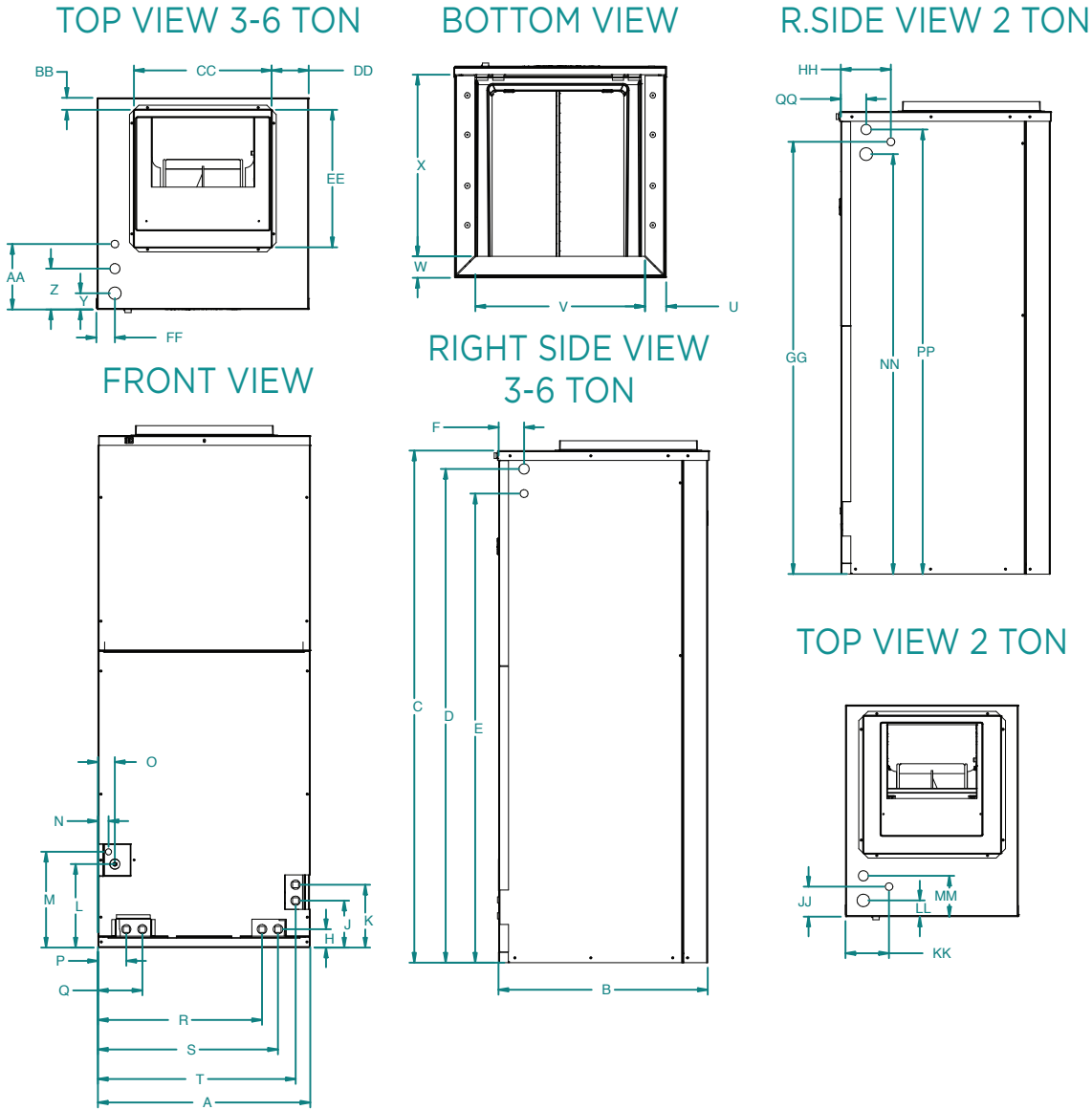
Contractor: _____ P.O.: _____
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 Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
 2 - 6 Tons 60Hz**



Dimensional Data - Air Handler

Top Flow/Horizontal Unit Configuration



***5BM Air Handler - Topflow/Horizontal**

Topflow/ Horizontal Configuration	Overall Cabinet										Refrigerant Connections										024 CABINET DIMENSIONS ONLY																					
	D			E							L		M								POWER SUPPLY																					
	A	B	C	3/4" cond Power Supply	1/2" cond Low Voltage	F	H	J	K	Suction	Liquid	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	JJ	KK	LL	MM	NN	PP	QQ			
024	in.	17.5	21.2	47.0	42.6	45.1	2.5	1.9	4.8	6.4	8.8	10.1	1.1	1.7	2.9	4.5	13.0	14.6	16.2	2.1	13.3	2.1	18.4	1.7	3.1	4.1	1.1	14.0	1.8	14.0	1.8	14.0	1.8	43.9	5.1	3.0	4.4	1.7	4.2	42.6	45.1	2.5
	cm.	44.5	53.8	119.4	108.2	114.6	6.4	4.8	12.2	16.3	22.4	25.7	2.8	4.3	7.4	11.4	33.0	37.1	41.1	5.3	33.8	5.3	46.7	4.3	7.9	10.4	2.8	35.6	4.6	35.6	4.6	111.5	13.0	7.6	11.2	4.2	10.5	108.2	114.6	6.4		
036	in.	21.6	21.2	52.0	50.1	47.6	2.5	1.9	4.8	6.4	8.5	9.7	1.1	1.7	2.9	4.5	16.7	18.3	20.1	2.2	17.2	2.2	18.5	1.6	4.2	6.7	1.2	14.0	3.8	14.0	1.9	16.9	3.0	35.5	9.6	35.5	4.8					
	cm.	54.9	53.8	132.1	127.3	120.9	6.6	4.7	12.1	16.3	21.6	24.6	2.8	4.4	7.3	11.4	42.4	46.5	51.1	5.5	43.8	5.6	46.9	4.1	10.5	16.9	3.0	35.5	9.6	35.5	4.8	43.0	7.6	90.3	24.4	90.3	12.2					
049-066	in.	24.9	21.2	58.0	56.1	53.2	2.6	1.9	4.8	6.4	9.6	10.8	1.1	1.7	2.9	4.5	20.3	21.9	23.5	2.2	20.6	2.2	18.4	1.7	4.2	6.7	1.5	18.0	3.4	18.0	1.8	17.0	3.8	45.7	8.6	45.7	4.6					
	cm.	63.2	53.8	147.3	142.5	135.1	6.6	4.8	12.2	16.3	24.4	27.4	2.8	4.3	7.4	11.4	51.6	55.6	59.7	5.6	52.3	5.6	46.7	4.3	10.7	17.0	3.8	45.7	8.6	45.7	4.6	43.0	9.6	115.9	21.6	115.9	11.7					

Condensate is plastic 3/4" FPT
 Discharge flange is field installed and extends 1" (25.4 mm) from cabinet

- * "Y" IS 1 3/8 KNOCKOUT HIGH VOLTAGE
- "Z" IS 1 1/8 KNOCKOUT HIGH VOLTAGE
- *"AA" IS 7/8 KNOCKOUT LOW VOLTAGE

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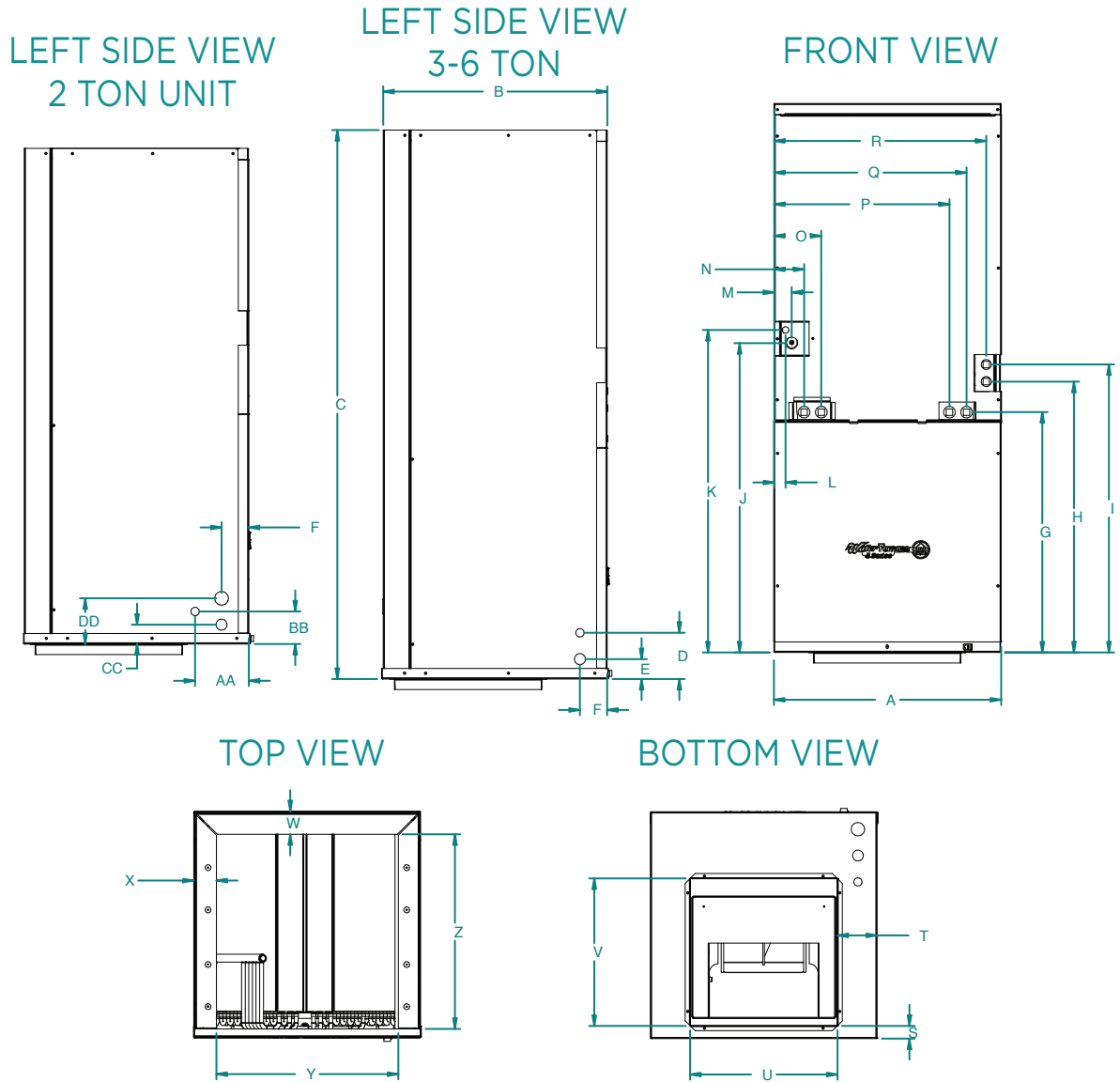
Contractor: _____ P.O.: _____
 Engineer: _____
 Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
 2 - 6 Tons 60Hz**



Dimensional Data - Air Handler

Bottom Flow Unit Configuration



SAH Air Handler - Bottom flow

Bottomflow Configuration	Overall Cabinet						Refrigerant Connections														POWER SUPPLY 024 ONLY										
	D			E			F																								
	A	B	C	1/2" cond	3/4" cond	Power Supply	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	
Width	Depth	Height	Low Voltage	Power Supply	Power Supply	Suction				Liquid																					
024	in.	17.5	21.2	47.0	4.4	1.9	2.5	22.8	25.7	27.3	29.5	30.8	1.1	1.7	2.8	4.5	13.0	14.5	16.2	1.1	1.8	14.0	18.0	2.2	2.2	13.7	18.5	5.0	3.1	1.8	4.3
	cm.	44.5	53.8	119.4	11.2	4.8	6.4	57.9	65.3	69.3	74.9	78.2	2.8	4.3	7.1	11.4	33.0	36.8	41.1	2.8	4.6	35.6	45.7	5.6	5.6	34.8	47.0	12.7	7.9	4.6	11.0
036	in.	21.5	21.2	52.0	4.4	1.9	2.6	22.8	25.7	27.3	29.3	30.6	1.1	1.7	2.8	4.5	16.6	18.2	20.1	1.2	3.8	14.0	14.0	2.2	2.2	17.3	18.5				
	cm.	54.6	53.8	132.1	11.2	4.8	6.6	57.9	65.3	69.3	74.5	77.7	2.7	4.3	7.2	11.4	42.2	46.3	51.1	3.0	9.7	35.6	35.6	5.6	5.6	43.8	46.9				
048-060	in.	24.9	21.2	58.0	4.4	1.9	2.6	24.0	27.0	28.5	31.3	32.8	1.1	1.7	2.8	4.5	20.2	21.9	23.5	1.2	3.4	18.0	18.0	2.1	2.2	20.5	18.5				
	cm.	63.2	53.8	147.3	11.2	4.8	6.6	61.0	68.6	72.4	79.5	83.3	2.8	4.3	7.1	11.4	51.3	55.6	59.7	3.0	8.6	45.7	45.7	5.3	5.6	52.1	47.0				

Condensate is plastic 3/4" FPT
 Discharge flange is field installed and extends 1" (25.4 mm) from cabinet

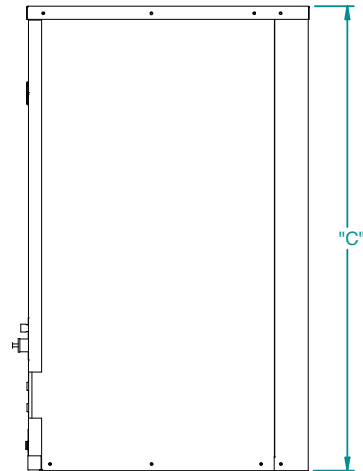
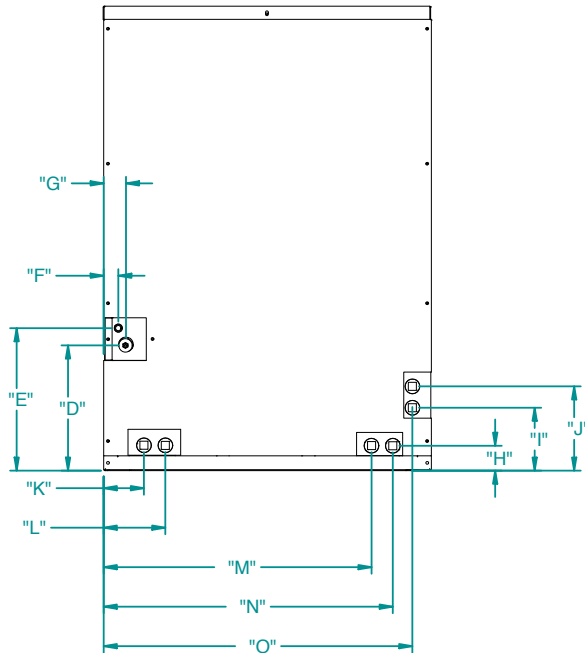
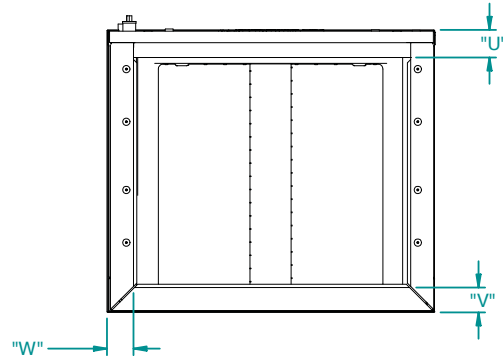
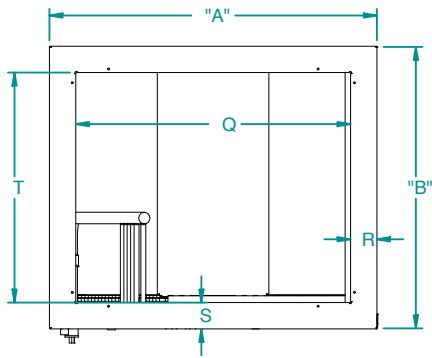
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 Engineer: _____
 Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
 2 - 6 Tons 60Hz**



Dimensional Data - A5D Cased Coil



A5D CASDED AIR COIL

Topflow & Horizontal Configuration		Overall Cabinet			Refrigerant Connections				Condensate Connections							Duct Connections							
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Q	R	S	T	U	V	W
		Width	Depth	Height	Suction	Liquid	Suction	Liquid															
024	in.	17.8	21.5	26.3	8.8	10.1	1.0	1.6	1.9	4.8	6.4	2.7	4.4	13.0	14.6	16.2	13.9	2.0	2.0	17.6	2.0	2.0	2.0
	cm.	45.2	54.6	66.8	22.4	25.7	2.5	4.1	4.8	12.2	16.3	6.9	11.2	33.0	37.1	41.1	35.3	5.1	5.1	44.7	5.1	5.1	5.1
036	in.	21.5	21.5	31.1	8.5	9.8	1.1	1.7	1.7	4.6	6.3	3.0	4.6	16.8	18.4	20.2	17.6	2.0	2.0	17.6	2.0	2.0	2.0
	cm.	54.6	54.6	79.0	21.6	24.8	2.8	4.3	4.3	11.7	16.0	7.6	11.7	42.5	46.7	51.3	44.8	5.1	5.1	44.7	5.1	5.1	5.1
048-060	in.	24.9	21.4	35.3	9.5	10.8	1.1	1.7	1.9	4.8	6.4	3.0	4.7	20.3	22.0	23.5	21.0	2.0	2.0	17.6	2.0	2.0	2.0
	cm.	63.2	54.4	89.6	24.1	27.4	2.8	4.3	4.8	12.1	16.3	7.6	11.9	51.6	55.9	59.7	53.3	5.1	5.1	44.7	5.1	5.1	5.1

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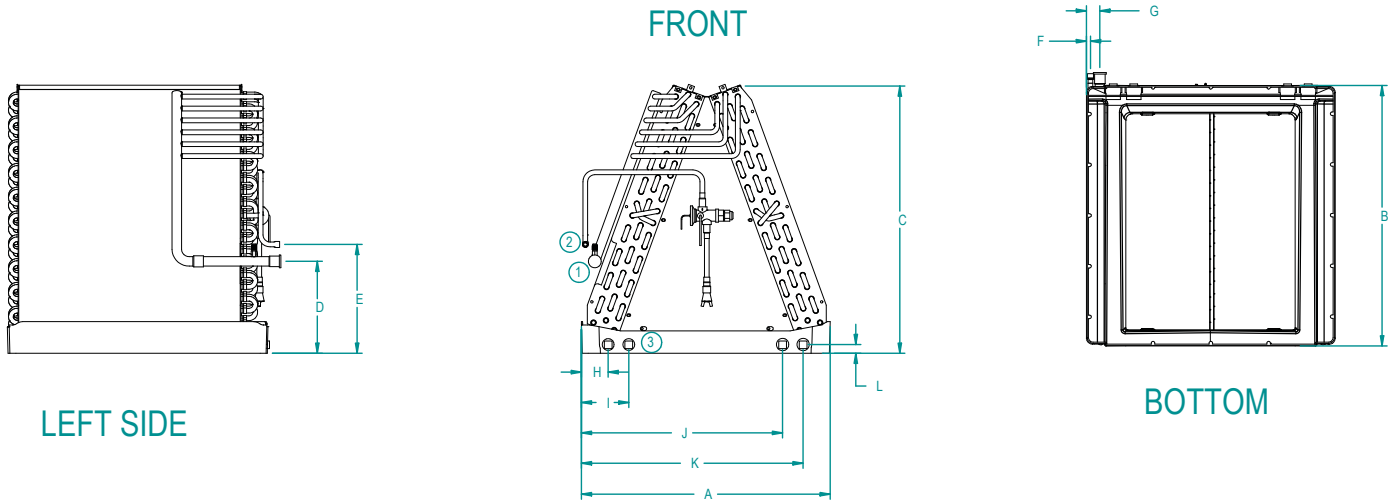
Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



Dimensional Data - A5D Uncased Coil



A5D UNCASED AIR COIL

Uncased Models	Overall Dimensions			Connections			Refrigerant Connections				Condensate Connections					
	A Width	B Depth	C Height*	1 Suction Sweat	2 Liquid Sweat	3 Condensate NPT	D	E	F	G	H	I	J	K	L	
024	in.	16.1	20.7	17.5	5/8	3/8	3/4	7.7	8.9	0.3	0.8	2.0	3.6	12.3	13.9	0.7
	cm.	40.8	52.6	44.5	1.6	1.0	1.9	19.4	22.5	0.8	1.9	5.1	9.1	31.2	35.3	1.8
036	in.	19.7	20.7	21.1	3/4	3/8	3/4	7.2	8.6	0.3	1.1	2.1	3.8	15.9	17.5	0.7
	cm.	50.0	52.6	53.6	1.9	1.0	1.9	18.2	21.8	0.8	2.7	5.4	9.5	40.4	44.5	1.8
048	in.	23.2	20.7	24.9	3/4	3/8	3/4	8.4	9.6	0.2	0.9	2.1	3.8	19.5	21.0	0.7
	cm.	58.9	52.6	63.2	1.9	1.0	1.9	21.3	24.4	0.4	2.3	5.3	9.7	49.5	53.3	1.8
060	in.	23.2	20.7	29.4	7/8	1/2	3/4	8.5	9.8	0.3	0.9	2.1	3.8	19.5	21.0	0.7
	cm.	58.9	52.6	74.6	2.2	1.3	1.9	21.6	24.9	0.8	2.2	5.3	9.7	49.5	53.3	1.8

*NOTE: All refrigerant coils feature factory installed TXV.

A5D Cased Coil Pressure Drop (inches of WC)

Model	Airflow (CFM)	Dry Coil
A5D*024	600	0.08
	800	0.14
	1000	0.20
A5D*036	1000	0.11
	1200	0.14
	1400	0.18
A5D*048	1200	0.12
	1400	0.15
	1600	0.19
	1800	0.25
A5D*060	1600	0.21
	1800	0.27
	2000	0.33
	2200	0.38

11/11/24

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Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



Physical Data

Model	024	036	048	060	066
Compressor (1 each)	Dual Capacity Scroll				
Factory Charge R-454B, oz [kg]	34 [0.96]	44 [1.25]	60 [1.70]	62 [1.76]	62 [1.76]
Coax and Water Piping					
Water Connections Size - Swivel- in [mm]	GeoLink Swivel Connectors				
Brass Service Valve - Liquid Line - in [mm]	3/8" [9.525]			1/2" [12.7]	
Brass Service Valve - Suction Line - in [mm]	5/8" [15.875]	3/4" [19.05]		7/8" [22.225]	
Coax & Piping Water Volume - gal [l]	0.7 [2.6]	1.3 [4.9]	1.6 [6.1]	1.6 [6.1]	1.6 [6.1]
Weight - Operating, lb [kg]	189 [86]	236 [107]	250 [113]	271 [123]	290 [132]
Weight - Packaged, lb [kg]	209 [95]	256 [116]	270 [122]	291 [132]	310 [141]

Notes:

All units have TXV expansion devices, and 1/2" [12.2mm] & 3/4" [19.1mm] electrical knockouts.
Brass service valves are sweat type valves.

10/18/24

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



Physical Data - Air Handler

Air Handler Model Number (Refrigerant)		024	036	048	060	066
Evaporator Coil	Air Coil Total Face Area, ft2 [m2]	3.89 [0.36]	4.86 [0.45]	5.83 [0.54]	6.81 [0.63]	
	Tube outside diameter - in. [mm]	3/8 [9.52]				
	Number of rows	3				
	Fins per inch	12				
	Suction line connection - in. [mm] sweat	5/8 [15.87]	3/4 [19.05]	3/4 [19.05]	7/8 [22.23]	
	Liquid line connection - in. [mm] sweat	3/8 [9.52]			1/2 [12.7]	
Refrigerant		R-454B				
Nominal cooling capacity - tons [kW]		2.1 [7.59]	3 [10.55]	4 [14.06]	5 [17.58]	5.5 [19.33]
Condensate drain connection - (FPT) in. [mm]		3/4 [19.05]				
Blower Wheel Size (Dia x W), in. [mm]		9 X 7 [229 x 178]	10 X 8 [254 x 203]	11 X 10 [279 x 254]		
Blower motor type/speeds		Variable Speed ECM				
Blower motor output - hp [W]		1/2 [373]		1 [746]		
Filter Standard - 1" [51mm] Field Supplied.		16 X 20 [406 X 508]	20 X 20 [508 x 508]	22 X 20 [559 x 508]		
Electrical characteristics (60Hz)		208/230 - 1ph				
Shipping weight - lbs. [kg]		147 [66.7]	168 [76.2]	198 [89.6]	206 [93.4]	
Operating weight - lbs. [kg]		139 [63.0]	150 [68.0]	180 [81.6]	188 [85.3]	

9/23/24

Physical Data - A5D

Air Handler Model Number (Refrigerant)		024			036			048			060		
Evaporator Coil	Air Coil Total Face Area, ft2 [m2]	3.89 [0.36]			4.86 [0.45]			5.83 [0.54]			6.81 [0.63]		
	Tube outside diameter - in. [mm]	3/8 [9.52]											
	Number of rows	3											
	Fins per inch	12											
	Suction line connection - in. [mm] sweat	5/8 [15.87]			3/4 [19.05]			7/8 [22.23]					
	Liquid line connection - in. [mm] sweat	3/8 [9.52]						1/2 [12.7]					
Refrigerant		R-454B											
Nominal cooling capacity - tons [kW]		1.8 [6.44]	2.1 [7.59]	2.5 [8.79]	3 [10.55]	3.5 [12.30]	4 [14.06]	5 [17.58]	5.5 [19.33]				
Condensate drain connection - (FPT) in. [mm]		3/4 [19.05]											
Filter Standard - 1" [51mm] Field Supplied.		16 X 20 [406 X 508]			20 X 20 [508 x 508]			22 X 20 [559 x 508]					

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



Refrigerant Coil Compatibility - Air Handler

Air Handler	Indoor Split Model	Outdoor Split Model	Rated Airflow (CFM)	Electric Heat (kW)
*5BM024	024	024	850	5
*5BM036	036	036	1200	5, 10
*5BM048	048	048	1500	10, 15
*5BM060	060	060	1800	10, 15, 20
*5BM066	066	066	2000	10, 15, 20

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Refrigerant Coil Compatibility - Coil

Encased/Uncased Coil	Indoor Split Model	Outdoor Split Model	Recommended Airflow (CFM)
A5D*024	024	024	850
A5D*036	036	036	1200
A5D*048	048	048	1500
A5D*060	060	060	1800
A5D*060	066	066	2000

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Line Set Sizes

Unit Size	Air Handler	20 feet		40 feet		60 feet		80 feet		Compressor Section Factory Charge (oz.)	*Charge Amount with Air Handler (oz.)
		Suction	Liquid	Suction	Liquid	Suction	Liquid	Suction	Liquid		
024	024	5/8" OD	3/8" OD	3/4" OD	3/8" OD	3/4" OD	1/2" OD	3/4" OD	1/2" OD	34	54
036	036	5/8" OD	3/8" OD	3/4" OD	3/8" OD	3/4" OD	1/2" OD	3/4" OD	1/2" OD	44	68
048	048	3/4" OD	3/8" OD	7/8" OD	3/8" OD	7/8" OD	1/2" OD	7/8" OD	1/2" OD	60	82
060	060	7/8" OD	1/2" OD	7/8" OD	1/2" OD	1-1/8" OD	1/2" OD	1-1/8" OD	1/2" OD	62	91
066	066	7/8" OD	1/2" OD	7/8" OD	1/2" OD	1-1/8" OD	1/2" OD	1-1/8" OD	1/2" OD	62	107
CAPACITY MULTIPLIER		1.00		0.985		0.97		0.955			

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Notes: *The "Charge Amount with Air Handler" column is based on the charge amount for a Air Handler + Compressor Section/Split. Additional charge will need to be added accordingly for line set length.

After charge is added, additional adjustments can be made to get appropriate subcooling and superheat measurements.

Additional charge for R-454B is 0.50 oz. per ft. for 3/8" and 1.0 oz. per ft. for 1/2" tube.

Longer line sets will significantly reduce capacity and efficiency of the system as well as adversely effect the system reliability due to poor oil return.

Vertical separation between compressor section and air handler is limited to 20 feet. This distance is part of the 80 feet maximum distance.

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



Electrical Data

Model	Rated Voltage	Voltage Min/Max	Compressor				HWG Pump FLA	Ext Loop FLA	Total Unit FLA	Min Circ Amp	Max Fuse/HACR
			MCC	RLA	LRA	LRA*					
024	208-230/60/1	187/253	16.0	10.2	62.0	21.7	0.4	5.4	16.0	18.6	30
036	208-230/60/1	187/253	22.7	14.5	90.0	32.4	0.4	5.4	20.3	24.0	40
048	208-230/60/1	187/253	28.6	18.3	138.0	49.7	0.4	5.4	24.1	28.7	50
060	208-230/60/1	187/253	39.3	25.2	147.3	51.5	0.4	5.4	31.0	37.2	70
066	208-230/60/1	187/253	43.7	28.0	160.0	56.0	0.4	5.4	33.8	40.8	70

*With optional IntelliStart
Rated Voltage of 208/230/60/1
HACR circuit breaker in USA only
All fuses Class RK-5

Electrical Data - Air Handler

Model	Electric Heat Capacity		Supply Circuit	Aux. Heat Minimum CFM	Rated Voltage	Voltage Min/Max	Fan Motor FLA	Heater Ampacity		Total Unit FLA		Minimum Circuit Ampacity		Maximum Fuse/HACR			
	KW	BTUH						208v	240v	208v	240v	208v	240v	208v	240v	208v	240v
	240v	240v															
024	0	0	-				4.0	-	-	4.0	4.0	5.0	5.0	10	10		
	4.8	16,382	single	1,000			4.0	17.3	20.0	21.3	24.0	26.6	30.0	30	30		
036	0	0	-				4.0	-	-	4.0	4.0	5.0	5.0	10	10		
	4.8	16,382	single	1,000			4.0	17.3	20.0	21.3	24.0	26.6	30.0	30	30		
	9.6	32,765	single	1,300			4.0	34.7	40.0	38.7	44.0	48.4	55.0	50	60		
	0	0	-				7.0	-	-	7.0	7.0	8.8	8.8	15	15		
048	9.6	32,765	single	1,300			7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60		
	14.4	49,147	single	1,700			7.0	52.0	60.0	59.0	67.0	73.8	83.8	80	90		
	14.4	49,147	L1/L2				7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60		
			L3/L4				-	17.3	20.0	17.3	20.0	21.6	25.0	25	25		
	0	0	-				7.0	-	-	7.0	7.0	8.8	8.8	15	15		
	9.6	32,765	single	1,300			7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60		
060	14.4	49,147	single	1,700			7.0	52.0	60.0	59.0	67.0	73.8	83.8	80	90		
	14.4	49,147	L1/L2				7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60		
			L3/L4				-	17.3	20.0	17.3	20.0	21.6	25.0	25	25		
	19.2	65,530	single	2,000			7.0	69.3	80.0	76.3	87.0	95.4	108.8	100	110		
	19.2	65,530	L1/L2				7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60		
			L3/L4				-	34.7	40.0	34.7	40.0	43.4	50.0	50	50		
	0	0	-				7.0	-	-	7.0	7.0	8.8	8.8	15	15		
	9.6	32,765	single	1,300			7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60		
066	14.4	49,147	single	1,700			7.0	52.0	60.0	59.0	67.0	73.8	83.8	80	90		
	14.4	49,147	L1/L2				7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60		
			L3/L4				-	17.3	20.0	17.3	20.0	21.6	25.0	25	25		
	19.2	65,530	single	2,000			7.0	69.3	80.0	76.3	87.0	95.4	108.8	100	110		
	19.2	65,530	L1/L2				7.0	34.7	40.0	41.7	47.0	52.1	58.8	60	60		
			L3/L4				-	34.7	40.0	34.7	40.0	43.4	50.0	50	50		

Rated Voltage of 208/230/60/1
HACR circuit breaker in USA only

Rev. 8/9/24

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Operating Limits

Operating Limits	Cooling	Heating
Air Limits		
Minimum ambient air, DB	-10°F [-23.3°C]	-10°F [-23.3°C]
Rated ambient air, DB	80.0 [26.7°C]	70°F [21.1°C]
Maximum ambient air, DB	120 [48.8°C]	85°F [29°C]
Water Limits		
Minimum entering water	30°F [-1°C]	20°F [-6.7°C]
Normal entering water	50-110°F [10-43°C]	30-70°F [-1 to 21°C]
Maximum entering water	120°F [49°C]	90°F [32°C]
Normal water flow	1.5 to 3.0 gpm per ton [1.6 to 3.2 l/m per kW]	

NOTES: Minimum/maximum limits are only for start-up conditions, and are meant for bringing the space up to occupancy temperature. Units are not designed to operate at the minimum/maximum conditions on a regular basis. The operating limits are dependent upon three primary factors: 1) water temperature, 2) return air temperature, and 3) ambient temperature. When any of the factors are at the minimum or maximum levels, the other two factors must be at the normal level for proper and reliable unit operation.

Definitions

ABBREVIATIONS AND DEFINITIONS:

- | | |
|-------------------------------------------------------------------|------------------------------------------------------------|
| CFM = airflow, cubic feet/minute | HE = total heat of extraction, MBTUH |
| EWT = entering water temperature, Fahrenheit | HW = hot water generator capacity, MBTUH |
| GPM = water flow in gallons/minute | EER = Energy Efficiency Ratio
= BTU output/Watt input |
| WPD = water pressure drop, PSI and feet of water | COP = Coefficient of Performance
= BTU output/BTU input |
| EAT = entering air temperature, Fahrenheit
(dry bulb/wet bulb) | LWT = leaving water temperature, °F |
| HC = air heating capacity, MBTUH | LAT = leaving air temperature, °F |
| TC = total cooling capacity, MBTUH | TH = total heating capacity, MBTUH |
| SC = sensible cooling capacity, MBTUH | LC = latent cooling capacity, MBTUH |
| KW = total power unit input, kilowatts | S/T = sensible to total cooling ratio |
| HR = total heat of rejection, MBTUH | |

Reference Calculations

Heating Calculations:	Cooling Calculations:
$LWT = EWT - \frac{HE}{GPM \times 500}$	$LWT = EWT + \frac{HR}{GPM \times 500}$
$LAT = EAT + \frac{HC}{CFM \times 1.08}$	$LAT (DB) = EAT (DB) - \frac{SC}{CFM \times 1.08}$
$TH = HC + HW$	$LC = TC - SC$
	$S/T = \frac{SC}{TC}$

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



Correction Factor Tables

Air Flow Corrections (Dual Capacity Part Load)

Airflow		Cooling				Heating		
cfm Per Ton of Clg	% of Nominal	Total Cap	Sens Cap	Power	Heat of Rej	Htg Cap	Power	Heat of Ext
240	60	0.922	0.778	0.956	0.924	0.943	1.239	0.879
275	69	0.944	0.830	0.962	0.944	0.958	1.161	0.914
300	75	0.957	0.866	0.968	0.958	0.968	1.115	0.937
325	81	0.970	0.900	0.974	0.970	0.977	1.075	0.956
350	88	0.982	0.933	0.981	0.980	0.985	1.042	0.972
375	94	0.991	0.968	0.991	0.991	0.993	1.018	0.988
400	100	1.000	1.000	1.000	1.000	1.000	1.000	1.000
425	106	1.007	1.033	1.011	1.008	1.007	0.990	1.010
450	113	1.013	1.065	1.023	1.015	1.012	0.987	1.018
475	119	1.017	1.099	1.037	1.022	1.018	0.984	1.025
500	125	1.020	1.132	1.052	1.027	1.022	0.982	1.031
520	130	1.022	1.159	1.064	1.030	1.025	0.979	1.034

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Air Flow Corrections (Dual Capacity Full Load and Single Speed)

Airflow		Cooling				Heating		
cfm Per Ton of Clg	% of Nominal	Total Cap	Sens Cap	Power	Heat of Rej	Htg Cap	Power	Heat of Ext
240	60	0.922	0.786	0.910	0.920	0.943	1.150	0.893
275	69	0.944	0.827	0.924	0.940	0.958	1.105	0.922
300	75	0.959	0.860	0.937	0.955	0.968	1.078	0.942
325	81	0.971	0.894	0.950	0.967	0.977	1.053	0.959
350	88	0.982	0.929	0.964	0.978	0.985	1.031	0.973
375	94	0.992	0.965	0.982	0.990	0.993	1.014	0.988
400	100	1.000	1.000	1.000	1.000	1.000	1.000	1.000
425	106	1.007	1.034	1.020	1.010	1.007	0.990	1.011
450	113	1.012	1.065	1.042	1.018	1.013	0.983	1.020
475	119	1.017	1.093	1.066	1.026	1.018	0.980	1.028
500	125	1.019	1.117	1.092	1.033	1.023	0.978	1.034
520	130	1.020	1.132	1.113	1.038	1.026	0.975	1.038

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Cooling Capacity Corrections

Entering Air WB °F	Total Clg Cap	Sensible Cooling Capacity Multipliers - Entering DB °F										Power Input	Heat of Rejection
		60	65	70	75	80	80.6	85	90	95	100		
55	0.898	0.723	0.866	1.048	1.185	*	*	*	*	*	*	0.985	0.913
60	0.912	0.632	0.880	1.078	1.244	1.260	1.175	*	*	*	*	0.994	0.927
63	0.945		0.768	0.960	1.150	1.175	*	*	*	*	*	0.996	0.954
65	0.976			0.694	0.881	1.079	1.085	1.270	*	*	*	0.997	0.972
66.2	0.983			0.655	0.842	1.040	1.060	1.232	*	*	*	0.999	0.986
67	1.000			0.616	0.806	1.000	1.023	1.193	1.330	1.480	*	1.000	1.000
70	1.053				0.693	0.879	0.900	1.075	1.205	1.404	*	1.003	1.044
75	1.168					0.687	0.715	0.875	1.040	1.261	1.476	1.007	1.141

NOTE: * Sensible capacity equals total capacity at conditions shown.

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Heating Capacity Corrections

Ent Air DB °F	Heating Corrections		
	Htg Cap	Power	Heat of Ext
45	1.062	0.739	1.158
50	1.050	0.790	1.130
55	1.037	0.842	1.096
60	1.025	0.893	1.064
65	1.012	0.945	1.030
68	1.005	0.976	1.012
70	1.000	1.000	1.000
75	0.987	1.048	0.970
80	0.975	1.099	0.930

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



Pressure Drop

Dual Capacity

Model	GPM	Pressure Drop (psi)				
		30°F	50°F	70°F	90°F	110°F
024 full load	4	1.2	1.2	1.1	1.0	1.0
	6	2.5	2.3	2.2	2.0	1.9
	8	4.8	4.6	4.3	4.0	3.7
	10	6.9	6.4	6.0	5.6	5.2
024 part load	3	0.7	0.6	0.6	0.6	0.5
	5	2.3	2.1	2.0	1.9	1.7
	7	3.9	3.6	3.4	3.2	2.9
	9	5.8	5.5	5.1	4.8	4.4
036 full load	5	1.1	1.1	1.0	0.9	0.9
	7	2.4	2.2	2.1	2.0	1.8
	9	3.6	3.4	3.2	3.0	2.8
	11	4.9	4.7	4.5	4.3	4.0
036 part load	4	0.8	0.7	0.7	0.7	0.6
	6	1.9	1.8	1.7	1.6	1.5
	8	3.0	2.8	2.6	2.4	2.2
	10	4.1	4.0	3.8	3.6	3.4
048 full load	6	1.0	1.0	0.9	0.8	0.8
	9	2.0	1.9	1.8	1.7	1.6
	12	3.1	2.9	2.7	2.5	2.3
	15	4.7	4.3	4.1	3.5	3.2
048 part load	5	0.6	0.5	0.4	0.3	0.3
	8	1.5	1.4	1.3	1.2	1.1
	11	2.6	2.5	2.3	2.1	2.0
	14	4.4	4.1	3.8	3.2	3.0
060 full load	8	1.4	1.3	1.2	1.1	1.0
	12	3.7	3.5	3.3	3.1	2.9
	16	6.1	5.8	5.4	5.0	4.7
	20	8.6	7.8	7.4	6.9	6.6
060 part load	6	0.8	0.7	0.5	0.5	0.4
	10	2.6	2.5	2.3	2.1	2.0
	14	4.8	4.5	4.2	3.9	3.6
	18	8.0	7.8	7.1	6.6	6.2
066 full load	12	2.6	2.5	2.3	2.1	2.1
	15	4.3	4.1	3.8	3.5	3.4
	18	6.0	5.7	5.3	4.9	4.8
	21	7.8	7.3	6.8	6.4	5.9
066 part load	10	1.6	1.5	1.4	1.3	1.2
	13	3.1	2.9	2.7	2.5	2.3
	16	4.5	4.3	4.0	3.7	3.5
	19	6.0	5.9	5.5	5.1	4.8

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Performance Data

024 Part Load

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT	Airflow cfm	HC kBtu/h	Power kW	HE kBtu/h	LAT °F	COP	HWC kBtu/h	Airflow cfm	TC kBtu/h	SC kBtu/h	S/T Ratio	Power kW	HR kBtu/h	EER	HWC kBtu/h
20	3.0	0.7	1.6	Operation not recommended							Operation not recommended							
	5.0	2.3	5.4	Operation not recommended							Operation not recommended							
	7.0	4.0	9.2	500 700	11.4 11.5	1.19 1.10	7.4 7.7	91.1 85.2	2.81 3.06	1.4 1.6	Operation not recommended							
30	3.0	0.7	1.6	Operation not recommended							Operation not recommended							
	5.0	2.3	5.3	500 700	12.8 13.1	1.05 1.08	9.2 9.5	93.6 87.4	3.57 3.57	1.7 1.6	500 700	17.0 17.3	11.9 13.0	0.70 0.75	0.54 0.57	18.8 19.2	31.5 30.4	- -
	7.0	3.9	8.9	500 700	13.3 13.4	1.18 1.09	9.3 9.7	94.6 87.7	3.30 3.60	1.8 1.7	500 700	17.1 17.5	11.9 13.0	0.70 0.74	0.52 0.55	18.9 19.4	32.6 31.8	- -
40	3.0	0.7	1.5	Operation not recommended							Operation not recommended							
	5.0	2.2	5.1	500 700	14.5 15.0	1.10 1.12	10.8 11.2	96.9 89.8	3.89 3.92	1.7 1.6	500 700	18.3 18.7	13.1 14.4	0.72 0.77	0.59 0.61	20.3 20.8	31.3 30.4	- -
	7.0	3.7	8.7	500 700	14.8 15.3	1.11 1.13	11.1 11.4	97.5 90.2	3.93 3.97	1.8 1.7	500 700	18.5 18.9	13.1 14.4	0.71 0.76	0.57 0.60	20.4 20.9	32.5 31.8	- -
50	3.0	0.6	1.5	500 700	15.7 16.2	1.12 1.13	11.9 12.3	99.1 91.4	4.12 4.19	1.8 1.7	500 700	19.9 20.9	13.1 14.5	0.66 0.69	0.66 0.70	22.2 23.3	30.0 30.0	0.7 0.8
	5.0	2.1	4.9	500 700	16.3 16.8	1.14 1.16	12.4 12.9	100.2 92.3	4.18 4.25	1.8 1.8	500 700	20.3 21.4	13.2 14.7	0.65 0.69	0.62 0.66	22.4 23.6	32.5 32.6	0.7 0.7
	7.0	3.6	8.4	500 700	16.7 17.2	1.15 1.17	12.7 13.2	100.9 92.8	4.23 4.31	2.0 1.8	500 700	20.5 21.6	14.1 15.7	0.69 0.73	0.61 0.64	22.6 23.8	33.7 33.8	0.6 0.7
60	3.0	0.6	1.4	500 700	17.6 18.2	1.15 1.16	13.7 14.2	102.6 94.0	4.48 4.60	2.0 1.8	500 700	19.0 20.0	12.9 14.4	0.68 0.72	0.73 0.77	21.5 22.6	26.0 26.1	0.9 0.9
	5.0	2.1	4.8	500 700	18.4 19.0	1.18 1.19	14.3 14.9	104.0 95.1	4.56 4.67	2.0 1.9	500 700	19.5 20.4	13.1 14.5	0.67 0.71	0.70 0.73	21.9 22.9	28.0 28.1	0.8 0.9
	7.0	3.5	8.1	500 700	18.8 19.5	1.20 1.20	14.8 15.4	104.9 95.7	4.62 4.75	2.1 1.9	500 700	19.7 20.7	13.8 15.3	0.70 0.74	0.68 0.71	22.0 23.1	29.0 29.1	0.7 1.0
70	3.0	0.6	1.4	500 700	19.5 20.4	1.18 1.20	15.4 16.3	106.0 97.0	4.83 4.98	2.2 2.0	500 700	18.2 19.2	12.8 14.8	0.70 0.77	0.80 0.87	20.9 22.2	22.7 22.1	1.3 1.4
	5.0	2.0	4.6	500 700	20.5 21.1	1.22 1.22	16.3 17.0	107.9 97.9	4.91 5.07	2.2 2.0	500 700	18.7 19.5	12.9 14.3	0.69 0.74	0.77 0.80	21.3 22.2	24.3 24.5	1.3 1.4
	7.0	3.4	7.9	500 700	19.0 21.7	1.16 1.23	15.0 17.5	105.2 98.7	4.80 5.17	2.3 2.1	500 700	18.9 19.7	13.5 14.9	0.71 0.76	0.75 0.78	21.4 22.4	25.2 25.3	1.2 1.3
80	3.0	0.6	1.3	500 700	21.1 21.8	1.20 1.20	17.0 17.8	109.1 98.9	5.13 5.36	2.4 2.2	500 700	17.3 18.0	12.6 14.0	0.73 0.78	0.95 0.98	20.5 21.3	18.2 18.4	1.8 1.9
	5.0	1.9	4.5	500 700	22.3 23.1	1.25 1.24	18.0 18.8	111.3 100.5	5.22 5.45	2.4 2.3	500 700	17.8 18.5	12.7 14.1	0.72 0.76	0.92 0.94	20.9 21.7	19.4 19.6	1.8 1.9
	7.0	3.3	7.6	500 700	23.0 23.8	1.27 1.25	18.6 19.5	112.5 101.4	5.30 5.57	2.6 2.4	500 700	18.0 18.7	13.0 14.5	0.73 0.77	0.90 0.93	21.0 21.9	20.0 20.2	1.7 1.9
90	3.0	0.6	1.3	500 700	22.7 23.6	1.23 1.21	18.6 19.4	112.1 101.2	5.43 5.71	2.8 2.5	500 700	16.4 17.0	12.4 13.7	0.75 0.81	1.10 1.12	20.1 20.8	14.9 15.1	2.5 2.6
	5.0	1.9	4.3	500 700	24.2 25.0	1.28 1.26	19.8 20.7	114.8 103.1	5.52 5.82	2.9 2.6	500 700	16.9 17.5	12.5 13.9	0.74 0.79	1.07 1.09	20.5 21.2	15.8 16.0	2.4 2.5
	7.0	3.2	7.3	500 700	24.9 25.8	1.30 1.27	20.5 21.5	116.2 104.1	5.61 5.95	2.9 2.6	500 700	15.6 17.7	11.0 14.0	0.71 0.79	1.18 1.07	19.6 21.4	13.2 16.5	2.2 2.4
100	3.0	0.5	1.2	Operation not recommended							Operation not recommended							
	5.0	1.8	4.2	Operation not recommended							Operation not recommended							
	7.0	3.1	7.1	Operation not recommended							Operation not recommended							
110	3.0	0.5	1.2	Operation not recommended							Operation not recommended							
	5.0	1.7	4.0	Operation not recommended							Operation not recommended							
	7.0	2.9	6.8	Operation not recommended							Operation not recommended							
120	3.0	0.5	1.2	Operation not recommended							Operation not recommended							
	5.0	1.7	3.8	Operation not recommended							Operation not recommended							
	7.0	2.8	6.5	Operation not recommended							Operation not recommended							

Performance capacities shown in thousands of Btu/h.

8/9/24

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Performance Data cont.

024 Full Load

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F														
		PSI	FT	Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh							
20	4.0	1.3	3.0	Operation not recommended							Operation not recommended														
	6.0	2.6	5.9	Operation not recommended							Operation not recommended														
	8.0	5.0	11.6	700	16.0	1.42	11.2	91.2	3.31	2.1	900	16.3	1.45	11.4	86.8	3.29	2.0								
30	4.0	1.2	2.9	Operation not recommended							Operation not recommended														
	6.0	2.5	5.8	700	18.0	1.51	12.9	93.8	3.50	2.3	900	18.5	1.55	13.2	89.1	3.49	2.1	700	24.5	15.6	0.64	1.00	27.9	24.4	-
	8.0	4.9	11.3	700	18.6	1.54	13.3	94.6	3.54	2.3	900	18.9	1.57	13.5	89.4	3.53	2.2	700	24.6	15.6	0.63	0.97	27.9	25.3	-
40	4.0	1.2	2.8	Operation not recommended							Operation not recommended														
	6.0	2.4	5.6	700	20.4	1.53	15.2	97.0	3.91	2.5	900	21.1	1.57	15.7	91.7	3.94	2.3	700	25.5	17.1	0.67	1.09	29.2	23.4	-
	8.0	4.7	11.0	700	20.8	1.55	15.6	97.6	3.95	2.6	900	21.5	1.58	16.1	92.1	3.99	2.4	700	25.7	17.1	0.67	1.06	29.3	24.3	-
50	4.0	1.2	2.7	700	22.0	1.52	16.9	99.2	4.25	2.7	900	22.7	1.54	17.4	93.4	4.32	2.5	700	26.9	17.0	0.63	1.23	31.1	21.8	1.3
	6.0	2.3	5.4	700	22.9	1.56	17.5	100.2	4.31	2.8	900	23.6	1.58	18.2	94.3	4.39	2.6	700	27.5	17.2	0.63	1.16	31.4	23.6	1.3
	8.0	4.6	10.6	700	23.4	1.57	18.0	100.9	4.36	2.9	900	24.1	1.59	18.7	94.8	4.44	2.6	700	27.7	18.4	0.66	1.13	31.6	24.5	1.3
60	4.0	1.1	2.6	700	24.6	1.60	19.2	102.6	4.51	3.0	900	25.4	1.61	19.9	96.2	4.63	2.8	700	26.1	17.1	0.65	1.35	30.7	19.4	1.6
	6.0	2.3	5.3	700	25.8	1.65	20.1	104.1	4.59	3.0	900	26.6	1.66	20.9	97.4	4.71	2.8	700	26.7	17.3	0.65	1.28	31.1	20.9	1.5
	8.0	4.4	10.3	700	26.4	1.66	20.7	104.9	4.65	3.2	900	27.3	1.67	21.6	98.0	4.78	2.9	700	27.0	18.2	0.68	1.25	31.2	21.6	1.4
70	4.0	1.1	2.5	700	27.3	1.68	21.5	106.1	4.75	3.2	900	28.6	1.72	22.7	99.4	4.87	3.0	700	25.3	17.2	0.68	1.37	30.0	18.5	2.0
	6.0	2.2	5.1	700	28.7	1.74	22.7	107.9	4.84	3.4	900	29.6	1.74	23.7	100.5	5.00	3.1	700	26.0	17.4	0.67	1.40	30.7	18.6	1.9
	8.0	4.3	9.9	700	29.4	1.76	23.4	108.9	4.90	3.5	900	30.4	1.75	24.4	101.3	5.09	3.2	700	26.2	18.1	0.69	1.36	30.9	19.2	1.7
80	4.0	1.1	2.5	700	29.0	1.73	23.1	108.4	4.91	3.6	900	30.0	1.72	24.2	100.9	5.13	3.3	700	24.2	16.9	0.70	1.63	29.8	14.9	2.5
	6.0	2.1	4.9	700	30.7	1.80	24.5	110.6	5.00	3.7	900	31.7	1.78	25.7	102.6	5.22	3.5	700	24.9	17.1	0.69	1.57	30.3	15.9	2.3
	8.0	4.2	9.6	700	31.6	1.82	25.4	111.8	5.08	3.9	900	32.7	1.80	26.5	103.6	5.33	3.6	700	25.2	17.5	0.70	1.54	30.4	16.4	2.2
90	4.0	1.0	2.4	700	30.8	1.78	24.7	110.7	5.07	3.9	900	31.9	1.75	25.9	102.8	5.33	3.7	700	23.2	16.6	0.72	1.79	29.3	12.9	2.5
	6.0	2.0	4.7	700	32.7	1.86	26.4	113.3	5.15	4.1	900	33.9	1.83	27.6	104.8	5.43	3.8	700	24.7	16.8	0.71	1.74	29.8	13.7	2.4
	8.0	4.0	9.3	700	33.7	1.89	27.3	114.6	5.24	4.3	900	34.9	1.84	28.6	105.9	5.56	4.0	700	22.0	15.3	0.70	1.62	27.5	13.6	2.7
100	4.0	1.0	2.3	Operation not recommended							Operation not recommended														
	6.0	2.0	4.6	Operation not recommended							Operation not recommended														
	8.0	3.9	8.9	Operation not recommended							Operation not recommended														
110	4.0	1.0	2.2	Operation not recommended							Operation not recommended														
	6.0	1.9	4.4	Operation not recommended							Operation not recommended														
	8.0	3.7	8.6	Operation not recommended							Operation not recommended														
120	4.0	0.9	2.1	Operation not recommended							Operation not recommended														
	6.0	1.8	4.2	Operation not recommended							Operation not recommended														
	8.0	3.6	8.2	Operation not recommended							Operation not recommended														

Performance capacities shown in thousands of Btuh.

8/9/24

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



Performance Data cont.

036 Part Load

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F														
		PSI	FT	Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh							
20	4.0	0.8	1.9	Operation not recommended							Operation not recommended														
	6.0	2.0	4.6	Operation not recommended							Operation not recommended														
	8.0	3.0	7.0	800	17.6	1.56	12.3	90.4	3.31	2.3	1000	17.5	1.65	11.9	86.2	3.11	2.1								
30	4.0	0.8	1.8	Operation not recommended							Operation not recommended														
	6.0	1.9	4.5	800	19.3	1.70	13.5	92.4	3.33	2.4	1000	19.9	1.75	13.9	88.4	3.33	2.2	800	25.8	18.0	0.70	0.89	28.9	28.9	-
	8.0	3.0	6.8	800	20.4	1.67	14.7	93.6	3.58	2.5	1000	20.3	1.77	14.3	88.8	3.36	2.3	800	26.0	18.0	0.69	0.87	28.9	30.0	-
				1000	20.3	1.77	14.3	88.8	3.36	2.3	1000	26.6	19.7	0.74	0.91	29.7	29.2	-							
40	4.0	0.8	1.8	Operation not recommended							Operation not recommended														
	6.0	1.9	4.3	800	22.3	1.73	16.4	95.8	3.79	2.5	1000	23.0	1.76	17.0	91.3	3.83	2.3	800	27.1	18.6	0.69	0.96	30.4	28.2	-
	8.0	2.9	6.6	800	22.8	1.74	16.8	96.4	3.83	2.6	1000	23.5	1.78	17.4	91.8	3.87	2.4	800	27.3	18.6	0.68	0.93	30.5	29.3	-
				1000	23.5	1.78	17.4	91.8	3.87	2.4	1000	28.0	20.3	0.73	0.98	31.3	28.7	-							
50	4.0	0.7	1.7	800	24.4	1.71	18.6	98.3	4.18	2.6	1000	25.2	1.74	19.2	93.3	4.25	2.4	800	27.0	17.4	0.65	1.08	30.7	25.0	0.9
	6.0	1.8	4.2	800	25.3	1.75	19.3	99.3	4.24	2.7	1000	26.1	1.77	20.1	94.2	4.32	2.5	800	28.4	19.4	0.68	1.13	32.3	25.1	1.0
	8.0	2.8	6.4	800	25.9	1.77	19.9	100.0	4.30	2.8	1000	26.7	1.79	20.6	94.7	4.37	2.5	800	27.6	17.6	0.64	1.02	31.0	27.2	0.9
				1000	26.7	1.79	20.6	94.7	4.37	2.5	1000	29.3	20.9	0.71	1.04	32.8	28.2	0.9							
60	4.0	0.7	1.7	800	26.9	1.73	20.9	101.1	4.54	2.9	1000	27.7	1.75	21.8	95.7	4.66	2.7	800	27.2	18.6	0.68	1.23	31.5	22.1	1.3
	6.0	1.8	4.1	800	28.1	1.78	22.0	102.5	4.61	3.0	1000	29.0	1.79	22.9	96.8	4.73	2.8	800	28.6	20.7	0.72	1.29	33.0	22.2	1.4
	8.0	2.7	6.2	800	28.8	1.80	22.6	103.3	4.68	3.1	1000	29.7	1.81	23.5	97.5	4.81	2.9	800	27.9	18.8	0.67	1.17	31.9	23.8	1.2
				1000	29.7	1.81	23.5	97.5	4.81	2.9	1000	29.2	20.9	0.71	1.22	33.4	23.9	1.3							
70	4.0	0.7	1.6	800	29.3	1.76	23.3	103.9	4.89	3.3	1000	30.9	1.81	24.7	98.6	5.00	3.0	800	28.2	19.8	0.72	1.39	32.3	19.8	1.9
	6.0	1.7	3.9	800	30.8	1.82	24.6	105.7	4.98	3.2	1000	31.8	1.82	25.6	99.5	5.14	2.9	800	29.6	23.0	0.78	1.48	34.1	20.0	2.1
	8.0	2.6	6.0	800	31.6	1.84	25.4	106.6	5.04	3.3	1000	32.7	1.83	26.5	100.3	5.24	3.0	800	28.2	20.1	0.71	1.33	32.8	21.2	1.8
				1000	32.7	1.83	26.5	100.3	5.24	3.0	1000	29.4	22.2	0.75	1.38	34.4	21.4	2.0							
80	4.0	0.7	1.6	800	30.7	1.78	24.7	105.6	5.05	3.5	1000	31.8	1.77	25.8	99.5	5.27	3.2	800	27.6	20.5	0.74	1.61	32.1	16.5	2.6
	6.0	1.6	3.8	800	32.5	1.85	26.2	107.6	5.14	3.6	1000	33.6	1.84	27.4	101.1	5.37	3.3	800	27.6	22.0	0.79	1.66	33.3	16.6	2.8
	8.0	2.5	5.8	800	33.5	1.88	27.0	108.7	5.22	3.7	1000	34.6	1.85	28.3	102.0	5.48	3.4	800	27.3	20.0	0.73	1.56	32.6	17.6	2.5
				1000	34.6	1.85	28.3	102.0	5.48	3.4	1000	28.4	22.2	0.78	1.60	33.9	17.7	2.3							
90	4.0	0.7	1.5	800	32.2	1.81	26.0	107.2	5.21	3.8	1000	33.3	1.78	27.3	100.9	5.48	3.5	800	27.6	20.5	0.74	1.52	32.8	18.1	3.0
	6.0	1.6	3.7	800	34.2	1.89	27.8	109.6	5.30	4.0	1000	35.4	1.86	29.1	102.8	5.59	3.6	800	28.8	22.7	0.79	1.57	34.1	18.3	2.6
	8.0	2.4	5.6	800	35.3	1.92	28.7	110.8	5.39	4.1	1000	36.5	1.87	30.1	103.8	5.72	3.8	800	26.4	20.0	0.76	1.78	32.5	14.8	3.4
				1000	36.5	1.87	30.1	103.8	5.72	3.8	1000	27.4	22.1	0.81	1.83	33.6	15.0	3.6							
100	4.0	0.6	1.5	Operation not recommended							Operation not recommended														
	6.0	1.5	3.5	Operation not recommended							Operation not recommended														
	8.0	2.3	5.4	800	24.7	1.96	21.7	97.9	4.79	1.94	31.4	12.7	4.3	1000	25.5	21.7	0.85	1.97	32.3	12.9	4.7				
				800	25.0	1.95	21.6	98.4	4.84	1.94	32.4	13.1	4.0	1000	25.8	21.6	0.84	1.94	32.4	13.3	4.4				
110	4.0	0.6	1.4	Operation not recommended							Operation not recommended														
	6.0	1.5	3.4	Operation not recommended							Operation not recommended														
	8.0	2.2	5.2	800	23.0	1.92	21.2	96.3	4.83	2.11	30.2	10.9	5.3	1000	23.7	21.3	0.90	2.12	30.9	11.2	5.8				
				800	23.3	1.89	20.9	96.8	4.81	2.07	30.3	11.3	4.9	1000	23.9	20.9	0.87	2.09	31.0	11.4	5.5				
120	4.0	0.6	1.3	Operation not recommended							Operation not recommended														
	6.0	1.4	3.3	Operation not recommended							Operation not recommended														
	8.0	2.2	5.0	800	21.1	1.89	20.5	96.0	4.90	2.61	30.0	8.1	6.6	1000	21.4	20.5	0.96	2.67	30.6	8.0	7.1				
				800	21.2	1.89	20.5	96.0	4.94	2.60	30.6	8.4	6.1	1000	21.7	20.5	0.94	2.60	30.6	8.3	6.8				

Performance capacities shown in thousands of Btuh.

8/9/24

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Performance Data cont.

036 Full Load

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT	Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
20	5.0	1.2	2.7	Operation not recommended							Operation not recommended							
	7.0	2.5	5.7	Operation not recommended							Operation not recommended							
	9.0	3.7	8.7	1000 1200	25.5 25.4	2.13 2.22	18.2 17.8	93.6 89.6	3.50 3.35	3.0 2.8								
30	5.0	1.1	2.6	Operation not recommended							Operation not recommended							
	7.0	2.4	5.5	1000 1200	27.3 28.1	2.29 2.22	19.8 20.3	95.3 91.7	3.61 3.61	3.1 2.8	1000 1200	32.5 33.1	22.4 24.5	0.69 0.74	1.37 1.44	37.2 38.0	23.8 23.0	- -
	9.0	3.6	8.4	1000 1200	28.8 28.7	2.22 2.31	21.2 20.8	96.7 92.1	3.80 3.64	3.2 2.9	1000 1200	32.7 33.5	22.4 24.5	0.69 0.73	1.32 1.39	37.2 38.2	24.7 24.1	- -
40	5.0	1.1	2.5	Operation not recommended							Operation not recommended							
	7.0	2.3	5.3	1000 1200	30.6 31.6	2.28 2.33	22.9 23.6	98.4 94.4	3.94 3.98	3.3 3.0	1000 1200	33.8 34.4	21.4 23.4	0.63 0.68	1.53 1.60	39.0 39.9	22.1 21.5	- -
	9.0	3.5	8.2	1000 1200	31.3 32.3	2.30 2.35	23.4 24.2	98.9 94.0	3.98 4.02	3.4 3.1	1000 1200	34.0 34.8	21.4 23.4	0.63 0.67	1.48 1.55	39.1 40.1	23.0 22.5	- -
50	5.0	1.1	2.5	1000 1200	32.8 33.7	2.29 2.32	25.0 25.8	100.3 96.0	4.20 4.27	3.5 3.2	1000 1200	33.2 35.0	18.6 20.7	0.56 0.59	1.77 1.86	39.3 41.3	18.8 18.8	1.8 1.9
	7.0	2.2	5.2	1000 1200	34.0 35.0	2.34 2.37	26.0 27.0	101.4 97.0	4.26 4.33	3.6 3.3	1000 1200	34.0 35.7	18.8 20.9	0.55 0.59	1.67 1.75	39.7 41.7	20.3 20.4	1.7 1.8
	9.0	3.4	7.9	1000 1200	34.7 35.8	2.36 2.39	26.7 27.6	102.1 97.6	4.31 4.39	3.7 3.4	1000 1200	34.3 36.1	20.1 22.3	0.59 0.62	1.63 1.71	39.8 41.9	21.1 21.1	1.6 1.7
60	5.0	1.0	2.4	1000 1200	35.6 36.7	2.39 2.40	27.4 28.5	102.9 98.3	4.37 4.48	4.1 3.7	1000 1200	33.8 35.4	21.2 23.6	0.63 0.66	2.01 2.10	40.7 42.6	16.8 16.9	2.1 2.3
	7.0	2.2	5.0	1000 1200	37.2 38.4	2.45 2.47	28.8 30.0	104.4 99.6	4.44 4.56	4.2 3.9	1000 1200	34.6 36.2	21.4 23.8	0.62 0.66	1.91 1.99	41.1 43.0	18.1 18.2	2.0 2.2
	9.0	3.3	7.6	1000 1200	38.1 39.4	2.48 2.49	29.6 30.9	105.3 100.4	4.50 4.63	4.3 4.0	1000 1200	34.9 36.7	22.6 25.1	0.65 0.68	1.87 1.95	41.3 43.3	18.7 18.8	1.9 2.1
70	5.0	1.0	2.3	1000 1200	38.5 42.0	2.49 2.57	30.0 33.2	105.6 102.4	4.53 4.79	4.6 4.2	1000 1200	34.4 37.1	23.8 27.1	0.69 2.12	2.25 2.08	42.0 44.2	18.5 17.8	3.0 3.1
	7.0	2.1	4.9	1000 1200	40.4 41.8	2.57 2.57	31.7 33.0	107.5 102.2	4.61 4.76	4.7 4.3	1000 1200	35.2 36.8	24.1 26.7	0.68 0.73	2.16 2.23	42.6 44.4	16.3 16.5	2.8 3.0
	9.0	3.2	7.4	1000 1200	41.5 42.9	2.60 2.59	32.6 34.1	108.4 103.1	4.68 4.85	4.9 4.5	1000 1200	35.6 37.2	25.1 27.8	0.71 0.75	2.10 2.19	42.8 44.7	16.9 17.0	2.6 2.9
80	5.0	1.0	2.2	1000 1200	39.8 41.2	2.55 2.53	31.1 32.6	106.9 101.8	4.57 4.76	5.0 4.6	1000 1200	33.8 35.2	24.5 27.3	0.72 0.78	2.41 2.49	42.1 43.7	14.0 14.1	3.7 3.8
	7.0	2.0	4.7	1000 1200	42.1 43.5	2.66 2.63	33.0 34.6	109.0 103.6	4.65 4.85	5.2 4.8	1000 1200	34.8 36.2	24.8 27.5	0.71 0.76	2.33 2.40	42.7 44.4	14.9 15.1	3.4 3.7
	9.0	3.1	7.1	1000 1200	43.3 44.8	2.69 2.65	34.1 35.8	110.1 104.6	4.72 4.95	5.4 4.9	1000 1200	35.2 36.6	25.5 28.2	0.72 0.77	2.28 2.35	42.9 44.6	15.4 15.6	3.2 3.5
90	5.0	0.9	2.2	1000 1200	41.2 42.6	2.62 2.58	32.2 33.8	108.1 102.9	4.60 4.84	5.3 5.1	1000 1200	33.3 34.5	25.3 28.1	0.76 0.81	2.57 2.64	42.1 43.5	13.0 13.1	4.4 4.7
	7.0	2.0	4.5	1000 1200	43.8 45.3	2.74 2.69	34.4 36.1	110.5 105.0	4.68 4.94	5.7 5.3	1000 1200	34.3 35.6	25.6 28.4	0.75 0.80	2.50 2.56	42.9 44.3	13.7 13.9	4.1 4.5
	9.0	3.0	6.9	1000 1200	45.1 46.7	2.78 2.71	35.7 37.5	111.8 106.0	4.76 5.05	5.9 5.5	1000 1200	35.8 36.0	26.4 28.6	0.74 0.79	2.38 2.51	43.9 44.6	15.0 14.3	3.9 4.3
100	5.0	0.9	2.1	Operation not recommended							Operation not recommended							
	7.0	1.9	4.4	Operation not recommended							Operation not recommended							
	9.0	2.9	6.6	1000 1200	33.2 34.2	25.6 28.4	0.77 0.83	2.75 2.79	42.5 43.8	12.1 12.3	5.2 5.6							
110	5.0	0.9	2.0	Operation not recommended							Operation not recommended							
	7.0	1.8	4.2	Operation not recommended							Operation not recommended							
	9.0	2.8	6.4	1000 1200	32.0 32.9	25.5 28.4	0.80 0.86	3.00 3.02	42.2 43.2	10.7 10.9	6.3 6.9							
120	5.0	0.8	1.9	Operation not recommended							Operation not recommended							
	7.0	1.7	4.0	Operation not recommended							Operation not recommended							
	9.0	2.7	6.1	1000 1200	30.2 30.7	24.2 26.3	0.80 0.86	3.47 3.56	42.0 42.9	8.7 8.6	7.7 8.3							

Performance capacities shown in thousands of Btuh.

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Performance Data cont.

048 Part Load

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT	Airflow cfm	HC kBtu/h	Power kW	HE kBtu/h	LAT °F	COP	HWC kBtu/h	Airflow cfm	TC kBtu/h	SC kBtu/h	S/T Ratio	Power kW	HR kBtu/h	EER	HWC kBtu/h
20	5.0	0.7	1.7	Operation not recommended							Operation not recommended							
	8.0	1.5	3.5	Operation not recommended							Operation not recommended							
	11.0	2.7	6.2	1200 1400	23.0 22.1	2.36 2.22	15.0 14.5	87.8 84.6	2.87 2.92	4.1 3.8	Operation not recommended							
30	5.0	0.6	1.6	Operation not recommended							Operation not recommended							
	8.0	1.5	3.4	1200 1400	23.4 24.3	2.01 2.07	16.5 17.3	88.0 86.1	3.40 3.45	4.2 3.8	1200 1400	32.9 33.5	25.0 27.3	0.76 0.82	1.10 1.16	36.7 37.4	29.9 28.9	- -
	11.0	2.6	6.0	1200 1400	27.0 25.9	2.25 2.12	19.3 18.7	90.8 87.1	3.52 3.58	4.3 3.9	1200 1400	33.1 33.9	25.0 27.3	0.75 0.81	1.07 1.12	36.7 37.7	31.0 30.3	- -
40	5.0	0.6	1.6	Operation not recommended							Operation not recommended							
	8.0	1.4	3.3	1200 1400	28.1 29.0	2.04 2.08	21.1 21.9	91.7 89.2	4.03 4.09	4.3 3.9	1200 1400	35.4 36.1	25.6 28.0	0.72 0.77	1.22 1.28	39.6 40.4	29.1 28.3	- -
	11.0	2.5	5.9	1200 1400	29.6 30.6	2.09 2.13	22.5 23.3	92.8 90.2	4.15 4.21	4.4 3.9	1200 1400	35.7 36.5	25.6 28.0	0.72 0.77	1.18 1.24	39.7 40.7	30.2 29.6	- -
50	5.0	0.5	1.2	1200 1400	31.6 32.6	2.06 2.09	24.6 25.5	94.4 91.6	4.49 4.57	4.4 4.1	1200 1400	37.1 38.1	25.0 27.7	0.68 0.73	1.37 1.35	41.8 42.7	27.0 28.2	1.5 1.6
	8.0	1.4	3.2	1200 1400	32.8 33.7	2.07 2.09	25.7 26.6	95.3 92.3	4.64 4.73	4.6 4.2	1200 1400	37.4 38.5	25.2 27.9	0.67 0.72	1.34 1.36	42.0 43.1	28.0 28.2	1.4 1.6
	11.0	2.5	5.7	1200 1400	34.3 35.3	2.11 2.14	27.1 28.0	96.5 93.3	4.75 4.83	4.7 4.3	1200 1400	38.0 39.1	25.8 28.6	0.68 0.73	1.32 1.35	42.6 43.7	28.7 29.0	1.3 1.5
60	5.0	0.5	1.2	1200 1400	34.9 35.8	2.12 2.13	27.7 28.5	96.9 93.6	4.83 4.92	4.9 4.5	1200 1400	36.1 37.1	24.9 27.6	0.69 0.74	1.59 1.62	41.6 42.7	22.7 22.9	2.1 2.3
	8.0	1.3	3.1	1200 1400	36.3 37.1	2.11 2.12	29.1 29.9	98.0 94.6	5.04 5.12	5.0 4.6	1200 1400	36.5 37.5	25.1 27.7	0.69 0.74	1.55 1.58	41.8 42.9	23.5 23.7	2.0 2.2
	11.0	2.4	5.5	1200 1400	37.6 38.4	2.16 2.17	30.2 31.0	99.0 95.4	5.10 5.19	5.2 4.7	1200 1400	37.1 38.1	25.7 28.5	0.69 0.75	1.54 1.57	42.3 43.4	24.1 24.3	1.9 2.1
70	5.0	0.4	0.7	1200 1400	38.1 38.2	2.17 2.17	30.7 30.8	99.4 95.3	5.15 5.16	5.4 5.0	1200 1400	35.2 36.9	24.8 28.4	0.70 0.77	1.81 1.99	41.4 42.6	19.5 18.5	3.1 3.3
	8.0	1.3	3.0	1200 1400	39.8 40.5	2.16 2.16	32.4 33.1	100.7 96.8	5.40 5.50	5.6 5.2	1200 1400	35.5 36.5	24.9 27.6	0.70 0.76	1.76 1.80	41.5 43.2	20.2 20.3	2.9 3.1
	11.0	2.3	5.3	1200 1400	41.4 41.5	2.33 2.20	33.5 34.0	101.9 97.4	5.21 5.53	5.8 5.3	1200 1400	36.1 37.1	25.6 28.3	0.71 0.76	1.75 1.78	42.1 43.7	20.7 20.8	2.7 3.0
80	5.0	0.4	0.7	1200 1400	42.0 42.6	2.20 2.19	34.5 35.2	102.4 98.2	5.61 5.71	6.1 5.6	1200 1400	34.0 34.9	24.5 27.1	0.72 0.78	2.06 2.10	41.0 42.1	16.5 16.6	4.5 4.7
	8.0	1.3	2.9	1200 1400	44.1 44.6	2.18 2.17	36.6 37.2	104.0 99.5	5.91 6.03	6.3 5.8	1200 1400	34.3 35.2	24.6 27.3	0.72 0.77	2.01 2.05	41.1 42.2	17.1 17.2	4.2 4.5
	11.0	2.2	5.1	1200 1400	44.7 45.2	2.23 2.21	37.1 37.6	104.5 99.9	5.87 5.99	6.5 6.0	1200 1400	34.8 35.8	25.3 28.0	0.72 0.78	1.99 2.03	41.6 42.7	17.5 17.6	3.9 4.3
90	5.0	0.3	0.6	1200 1400	46.0 46.4	2.23 2.20	38.4 38.9	105.5 100.7	6.04 6.17	6.8 6.3	1200 1400	32.7 33.6	24.2 26.8	0.74 0.80	2.32 2.36	40.6 41.7	14.1 14.2	6.3 6.6
	8.0	1.2	2.8	1200 1400	48.4 48.7	2.21 2.18	40.8 41.2	107.3 102.2	6.41 6.54	7.0 6.5	1200 1400	33.0 33.9	24.3 26.9	0.74 0.79	2.26 2.30	40.7 41.8	14.6 14.8	5.9 6.3
	11.0	2.1	5.0	1200 1400	48.6 48.8	2.26 2.22	40.9 41.2	107.5 102.3	6.31 6.44	7.2 6.7	1200 1400	34.8 34.5	27.3 27.6	0.78 0.80	2.38 2.28	42.9 42.3	14.6 15.1	5.5 6.0
100	5.0	0.3	0.6	Operation not recommended							Operation not recommended							
	8.0	1.2	2.7	Operation not recommended							Operation not recommended							
	11.0	2.1	4.8	Operation not recommended							Operation not recommended							
110	5.0	0.3	0.6	Operation not recommended							Operation not recommended							
	8.0	1.1	2.6	Operation not recommended							Operation not recommended							
	11.0	2.0	4.6	Operation not recommended							Operation not recommended							
120	5.0	0.2	0.6	Operation not recommended							Operation not recommended							
	8.0	1.1	2.5	Operation not recommended							Operation not recommended							
	11.0	1.9	4.4	Operation not recommended							Operation not recommended							

Performance capacities shown in thousands of Btu/h.

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



Performance Data cont.

048 Full Load

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT	Airflow cfm	HC kBtu/h	Power kW	HE kBtu/h	LAT °F	COP	HWC kBtu/h	Airflow cfm	TC kBtu/h	SC kBtu/h	S/T Ratio	Power kW	HR kBtu/h	EER	HWC kBtu/h
20	6.0	1.1	2.4	Operation not recommended							Operation not recommended							
	9.0	2.1	4.9	Operation not recommended							Operation not recommended							
	12.0	3.2	7.3	1400 1600	34.7 33.4	2.93 2.99	24.7 23.2	92.9 89.3	3.47 3.27	4.7 4.2								
30	6.0	1.0	2.4	Operation not recommended							Operation not recommended							
	9.0	2.0	4.7	1400 1600	35.2 36.2	2.95 3.04	25.1 25.8	93.3 90.9	3.49 3.49	4.9 4.5	1400 1600	45.7 46.5	26.7 29.2	0.58 0.63	1.76 1.85	51.7 52.8	26.0 25.1	- -
	12.0	3.1	7.1	1400 1600	38.3 36.9	3.01 3.07	28.0 26.4	95.3 91.4	3.73 3.52	5.0 4.6	1400 1600	46.0 47.1	26.7 29.2	0.58 0.62	1.70 1.79	51.8 53.2	27.0 26.3	- -
40	6.0	1.0	2.3	Operation not recommended							Operation not recommended							
	9.0	2.0	4.6	1400 1600	40.6 41.8	3.24 3.31	29.5 30.5	96.8 94.2	3.67 3.70	5.6 5.2	1400 1600	48.7 49.6	30.2 33.0	0.62 0.66	2.09 2.20	55.8 57.1	23.2 22.6	- -
	12.0	3.0	6.9	1400 1600	41.4 42.7	3.27 3.34	30.2 31.3	97.4 94.7	3.71 3.75	5.8 5.3	1400 1600	49.1 50.2	30.2 33.0	0.62 0.66	2.03 2.13	56.0 57.4	24.1 23.6	- -
50	6.0	1.0	2.2	1400 1600	44.4 45.7	3.45 3.50	32.6 33.8	99.3 96.4	3.77 3.83	6.1 5.6	1400 1600	49.0 51.6	30.6 34.0	0.62 0.66	2.55 2.68	57.7 60.7	19.2 19.2	3.1 3.3
	9.0	1.9	4.4	1400 1600	46.0 47.5	3.53 3.58	33.9 35.3	100.4 97.5	3.82 3.89	6.3 5.8	1400 1600	50.0 52.6	31.0 34.4	0.62 0.65	2.40 2.52	58.2 61.2	20.8 20.9	2.9 3.1
	12.0	2.9	6.7	1400 1600	47.0 48.5	3.56 3.61	34.9 36.2	101.1 98.1	3.87 3.94	6.5 5.9	1400 1600	50.5 53.2	33.0 36.7	0.65 0.69	2.34 2.46	58.5 61.6	21.6 21.6	2.7 3.0
60	6.0	0.9	2.2	1400 1600	47.3 48.8	3.35 3.38	35.9 37.3	101.3 98.3	4.13 4.24	6.9 6.4	1400 1600	48.2 50.6	31.2 34.8	0.65 0.69	2.74 2.86	57.6 60.3	17.6 17.7	3.8 4.0
	9.0	1.9	4.3	1400 1600	49.4 51.0	3.45 3.47	37.7 39.2	102.7 99.5	4.20 4.31	7.1 6.6	1400 1600	49.4 51.7	31.6 35.1	0.64 0.68	2.60 2.71	58.2 60.9	19.0 19.1	3.5 3.8
	12.0	2.8	6.5	1400 1600	50.6 52.3	3.49 3.50	38.7 40.4	103.5 100.3	4.26 4.38	7.3 6.7	1400 1600	49.8 52.3	33.3 37.0	0.67 0.71	2.54 2.65	58.5 61.3	19.7 19.7	3.3 3.6
70	6.0	0.9	2.1	1400 1600	50.3 52.9	3.26 3.36	39.2 41.4	103.3 100.6	4.53 4.61	7.9 7.3	1400 1600	47.5 50.6	31.9 36.5	0.67 0.72	2.92 3.12	57.4 60.7	17.5 16.2	4.7 5.0
	9.0	1.8	4.2	1400 1600	52.9 54.6	3.36 3.36	41.4 43.1	105.0 101.6	4.61 4.76	8.1 7.5	1400 1600	48.7 50.8	32.3 35.8	0.66 0.70	2.80 2.90	58.2 61.1	17.4 17.5	4.4 4.7
	12.0	2.7	6.2	1400 1600	54.3 56.1	3.40 3.39	42.6 44.5	105.9 102.5	4.67 4.85	8.4 7.7	1400 1600	49.2 51.4	33.6 37.2	0.68 0.72	2.73 2.84	58.5 61.2	18.0 18.1	4.1 4.5
80	6.0	0.9	2.0	1400 1600	53.0 54.9	3.36 3.33	41.5 43.5	105.1 101.7	4.62 4.82	8.7 8.1	1400 1600	46.0 47.8	31.8 35.3	0.69 0.74	3.28 3.38	57.2 59.4	14.0 14.1	5.9 6.3
	9.0	1.7	4.0	1400 1600	56.1 58.0	3.49 3.46	44.1 46.2	107.1 103.5	4.71 4.91	9.0 8.3	1400 1600	47.3 49.2	32.2 35.6	0.68 0.72	3.17 3.26	58.1 60.3	14.9 15.1	5.5 6.0
	12.0	2.6	6.0	1400 1600	57.7 59.7	3.54 3.49	45.6 47.8	108.1 104.5	4.78 5.02	9.3 8.6	1400 1600	47.8 49.8	32.9 36.5	0.69 0.73	3.10 3.20	58.4 60.7	15.4 15.6	5.1 5.7
90	6.0	0.8	1.9	1400 1600	55.7 57.7	3.46 3.41	43.9 46.1	106.9 103.4	4.72 4.96	9.7 9.0	1400 1600	44.6 46.1	31.6 35.1	0.71 0.76	3.64 3.73	57.0 58.8	12.2 12.4	7.3 7.8
	9.0	1.7	3.9	1400 1600	59.2 61.3	3.62 3.55	46.9 49.2	109.2 105.5	4.80 5.06	10.0 9.3	1400 1600	45.9 47.6	32.0 35.5	0.70 0.75	3.54 3.62	57.9 59.9	13.0 13.1	6.9 7.5
	12.0	2.5	5.8	1400 1600	61.1 63.2	3.67 3.58	48.6 51.0	110.4 106.6	4.88 5.17	10.3 9.6	1400 1600	45.2 48.1	33.3 35.8	0.74 0.74	3.20 3.55	56.1 60.2	14.1 13.5	6.4 7.1
100	6.0	0.8	1.9	Operation not recommended							Operation not recommended							
	9.0	1.6	3.7	Operation not recommended							Operation not recommended							
	12.0	2.4	5.6	1400 1600	42.1 43.5	3.13 3.48	31.3 34.8	0.74 0.80	3.74 3.80	54.9 56.5	11.3 11.4	8.5 9.3						
110	6.0	0.8	1.8	Operation not recommended							Operation not recommended							
	9.0	1.6	3.6	Operation not recommended							Operation not recommended							
	12.0	2.3	5.4	1400 1600	38.4 39.4	30.7 34.1	0.80 0.86	3.95 3.98	51.8 53.0	9.7 9.9	10.4 11.3							
120	6.0	0.7	1.7	Operation not recommended							Operation not recommended							
	9.0	1.5	3.5	Operation not recommended							Operation not recommended							
	12.0	2.2	5.2	1400 1600	36.8 37.5	28.9 31.4	0.79 0.84	4.77 4.89	53.1 54.1	7.7 7.7	12.7 13.7							

Performance capacities shown in thousands of Btu/h.

8/9/24

©2024 The manufacturer 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. 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 the manufacturer's opinion or commendation of its products.

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Performance Data cont.

060 Part Load

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F														
		PSI	FT	Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	Airflow cfm	T/C kBtuh	S/C kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh							
20	6.0	0.9	1.4	Operation not recommended							Operation not recommended														
	10.0	2.7	6.2	Operation not recommended							Operation not recommended														
	14.0	4.9	11.4	1200	25.0	2.74	15.6	89.3	2.67	4.8	1500	26.9	2.76	17.5	86.6	2.86	4.5								
30	6.0	0.8	1.3	Operation not recommended							Operation not recommended														
	10.0	2.6	6.0	1200	30.6	2.77	21.1	93.6	3.24	5.0	1500	31.9	2.84	22.2	89.7	3.29	4.6	1200	40.7	33.2	0.82	1.69	46.5	24.1	-
	14.0	4.8	11.0	1200	31.5	2.89	21.6	94.3	3.19	5.1	1500	33.9	2.91	24.0	90.9	3.41	4.7	1200	40.9	33.2	0.81	1.64	46.5	25.0	-
40	6.0	0.7	1.3	Operation not recommended							Operation not recommended														
	10.0	2.5	5.9	1200	36.0	2.83	26.4	97.8	3.73	5.3	1500	37.3	2.88	27.4	93.0	3.79	4.9	1200	44.5	32.9	0.74	1.76	50.5	25.2	-
	14.0	4.6	10.7	1200	37.9	2.90	28.1	99.3	3.84	5.5	1500	39.3	2.95	29.2	94.2	3.90	5.0	1200	44.8	32.9	0.73	1.71	50.7	26.2	-
50	6.0	0.7	1.2	1200	40.0	2.89	30.1	100.8	4.06	5.7	1500	41.2	2.93	31.2	95.4	4.13	5.3	1200	47.2	31.2	0.66	1.90	53.7	24.9	1.9
	10.0	2.5	5.7	1200	41.4	2.89	31.5	101.9	4.20	5.8	1500	42.6	2.92	32.7	96.3	4.27	5.4	1200	47.7	31.4	0.66	1.85	54.0	25.8	1.8
	14.0	4.5	10.4	1200	43.3	2.95	33.2	103.4	4.30	6.0	1500	44.6	2.99	34.4	97.5	4.37	5.5	1200	48.5	32.2	0.66	1.83	54.7	26.4	1.6
60	6.0	0.5	1.2	1200	44.5	2.95	34.4	104.4	4.42	6.2	1500	45.6	2.98	35.5	98.2	4.49	5.8	1200	45.9	31.0	0.68	2.10	53.1	21.9	2.6
	10.0	2.4	5.5	1200	46.3	2.95	36.3	105.7	4.60	6.4	1500	47.4	2.97	37.3	99.3	4.68	5.9	1200	46.3	31.2	0.67	2.04	53.3	22.7	2.5
	14.0	4.3	10.0	1200	47.9	3.02	37.6	107.0	4.66	6.6	1500	49.0	3.03	38.7	100.2	4.74	6.1	1200	47.2	34.3	0.73	2.14	54.5	22.1	2.8
70	6.0	0.5	1.2	1200	49.0	3.02	38.7	107.8	4.75	6.9	1500	49.3	3.04	38.9	100.4	4.75	6.4	1200	44.6	30.8	0.69	2.30	52.4	19.4	3.7
	10.0	2.3	5.3	1200	51.2	3.01	40.9	109.5	4.98	7.1	1500	52.1	3.01	41.8	102.2	5.08	6.6	1200	45.0	31.0	0.69	2.24	52.6	20.1	3.4
	14.0	4.2	9.7	1200	52.5	3.08	42.0	110.5	5.00	7.2	1500	53.4	3.07	42.9	103.0	5.10	6.6	1200	46.2	34.3	0.74	2.28	54.7	20.3	3.7
80	6.0	0.5	1.1	1200	54.2	3.11	43.6	111.8	5.10	7.7	1500	54.9	3.10	44.4	103.9	5.20	7.1	1200	45.7	31.8	0.70	2.22	53.3	20.6	3.2
	10.0	2.2	5.1	1200	56.8	3.09	46.3	113.8	5.38	7.9	1500	57.5	3.07	47.0	105.5	5.49	7.3	1200	47.0	35.2	0.75	2.26	54.8	20.8	3.5
	14.0	4.1	9.4	1200	57.6	3.16	46.8	114.4	5.35	8.1	1500	58.2	3.13	47.5	105.9	5.45	7.5	1200	47.0	35.2	0.75	2.26	54.8	20.8	3.5
90	6.0	0.5	1.1	1200	59.4	3.21	48.4	115.8	5.43	8.6	1500	59.9	3.17	49.1	107.0	5.54	7.9	1200	41.6	29.4	0.71	3.00	51.9	13.9	7.5
	10.0	2.1	5.0	1200	62.4	3.18	51.6	118.2	5.76	8.8	1500	62.8	3.13	52.1	108.8	5.88	8.2	1200	42.8	32.6	0.76	3.06	53.2	14.0	7.9
	14.0	3.9	9.0	1200	62.7	3.24	51.7	118.4	5.67	9.1	1500	63.0	3.19	52.1	108.9	5.79	8.4	1200	42.0	29.6	0.70	2.92	52.0	14.4	6.9
100	6.0	0.4	1.0	Operation not recommended							Operation not recommended														
	10.0	2.1	4.8	Operation not recommended							Operation not recommended														
	14.0	3.8	8.7	1200	59.4	3.21	48.4	115.8	5.43	8.6	1500	59.9	3.17	49.1	107.0	5.54	7.9	1200	38.8	29.3	0.75	3.34	50.2	11.6	9.1
110	6.0	0.4	1.0	Operation not recommended							Operation not recommended														
	10.0	2.0	4.6	Operation not recommended							Operation not recommended														
	14.0	3.6	8.4	1200	59.9	3.17	49.1	107.0	5.54	7.9	1500	62.4	3.18	51.6	118.2	5.76	8.8	1200	39.5	30.0	0.76	3.31	50.7	11.9	8.4
120	6.0	0.4	1.0	Operation not recommended							Operation not recommended														
	10.0	1.9	4.4	Operation not recommended							Operation not recommended														
	14.0	3.5	8.1	1200	57.6	3.16	46.8	114.4	5.35	8.1	1500	58.2	3.13	47.5	105.9	5.45	7.5	1200	35.7	28.1	0.85	4.29	50.3	8.3	14.7

Performance capacities shown in thousands of Btuh.

8/9/24

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Performance Data cont.

060 Full Load

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F																						
		PSI	FT	Airflow cfm	HC kBTuh	Power kW	HE kBTuh	LAT °F	COP	HWC kBTuh	Airflow cfm	TC kBTuh	SC kBTuh	S/T Ratio	Power kW	HR kBTuh	EER	HWC kBTuh															
20	8.0	1.4	3.2	Operation not recommended							Operation not recommended																						
	12.0	3.9	8.9	Operation not recommended							Operation not recommended																						
	16.0	6.3	14.6	1500	37.8	3.67	25.3	93.3	3.02	6.1	1800	38.5	3.55	26.4	89.8	3.18	5.6																
30	8.0	1.4	3.2	Operation not recommended							Operation not recommended																						
	12.0	3.7	8.7	1500	44.9	3.85	31.8	97.7	3.42	6.4	1500	53.0	37.7	0.71	2.56	61.8	20.7	-	1800	46.8	3.95	33.3	94.1	3.47	6.0	1800	53.9	41.2	0.76	2.70	63.1	20.0	-
	16.0	6.1	14.2	1500	48.9	4.19	34.6	100.2	3.42	6.6	1500	53.3	37.7	0.71	2.49	61.8	21.4	-	1800	49.8	4.05	36.0	95.6	3.60	6.2	1800	54.6	41.2	0.75	2.61	63.5	20.9	-
40	8.0	1.3	3.1	Operation not recommended							Operation not recommended																						
	12.0	3.6	8.4	1500	51.0	3.99	37.4	101.5	3.75	7.3	1500	58.2	38.8	0.67	2.79	67.7	20.8	-	1800	52.7	4.06	38.9	97.1	3.80	6.7	1800	59.3	42.4	0.71	2.93	69.3	20.2	-
	16.0	6.0	13.8	1500	53.7	4.08	39.8	103.2	3.85	7.4	1500	58.6	38.8	0.66	2.71	67.9	21.6	-	1800	55.6	4.16	41.4	98.6	3.91	6.8	1800	60.0	42.4	0.71	2.84	69.6	21.1	-
50	8.0	1.3	3.0	1500	54.9	4.12	40.9	103.9	3.91	7.8	1500	61.9	38.1	0.62	3.11	72.6	19.9	4.1	1800	56.7	4.18	42.4	99.1	3.97	7.3	1800	63.7	42.2	0.66	3.05	74.1	23.3	4.2
	12.0	3.5	8.1	1500	56.9	4.12	42.8	105.1	4.04	8.1	1500	62.5	38.3	0.61	3.03	72.8	20.6	3.7	1800	58.6	4.18	44.3	100.1	4.11	7.4	1800	64.2	42.4	0.66	3.09	74.8	20.8	4.0
	16.0	5.8	13.3	1500	59.5	4.22	45.1	106.8	4.14	8.2	1500	63.5	39.3	0.62	3.00	73.8	21.2	3.6	1800	61.3	4.27	46.7	101.5	4.21	7.5	1800	65.3	43.5	0.67	3.06	75.7	21.3	3.9
60	8.0	1.2	2.9	1500	61.6	4.43	46.4	108.0	4.07	8.7	1500	61.2	38.1	0.62	3.38	72.7	18.1	4.9	1800	63.1	4.46	47.9	102.5	4.14	8.1	1800	62.9	42.2	0.67	3.45	74.7	18.2	5.1
	12.0	3.4	7.9	1500	64.0	4.42	48.9	109.5	4.24	8.9	1500	61.7	38.3	0.62	3.30	73.0	18.7	4.6	1800	65.5	4.45	50.4	103.7	4.32	8.4	1800	63.5	42.4	0.67	3.36	74.9	18.9	4.9
	16.0	5.6	12.9	1500	66.3	4.52	50.8	110.9	4.29	9.1	1500	62.8	39.3	0.63	3.27	73.9	19.2	4.2	1800	67.8	4.55	52.2	104.9	4.37	8.5	1800	64.5	43.5	0.67	3.33	75.9	19.4	4.7
70	8.0	1.2	2.8	1500	68.1	4.75	51.9	112.0	4.21	9.8	1500	60.4	38.1	0.63	3.66	72.9	16.5	5.9	1800	69.7	4.52	54.3	105.9	4.52	9.1	1800	62.3	42.3	0.68	3.83	75.1	16.3	6.2
	12.0	3.3	7.6	1500	71.1	4.73	55.0	113.9	4.41	10.0	1500	61.0	38.3	0.63	3.56	73.1	17.1	5.5	1800	72.4	4.72	56.3	107.2	4.49	9.3	1800	62.7	42.4	0.68	3.63	75.4	17.3	5.9
	16.0	5.4	12.5	1500	72.9	4.83	56.5	115.0	4.43	10.3	1500	62.0	39.3	0.63	3.53	74.0	17.6	5.2	1800	74.2	4.82	57.8	108.2	4.51	9.7	1800	63.7	43.5	0.68	3.60	76.0	17.7	5.7
80	8.0	1.2	2.7	1500	73.9	5.01	56.8	115.6	4.32	11.0	1500	58.9	37.7	0.64	4.04	72.6	14.6	7.5	1800	74.9	4.98	57.9	108.5	4.41	10.3	1800	60.5	41.7	0.69	4.12	74.5	14.7	7.9
	12.0	3.2	7.4	1500	77.5	4.98	60.5	117.8	4.56	11.4	1500	59.4	37.9	0.64	3.93	72.8	15.1	7.0	1800	78.4	4.94	61.5	110.3	4.65	10.5	1800	61.0	42.0	0.69	4.01	74.7	15.2	7.5
	16.0	5.2	12.1	1500	78.5	5.08	61.2	118.5	4.53	11.7	1500	60.4	38.9	0.64	3.90	73.7	15.5	6.5	1800	79.4	5.04	62.2	110.8	4.62	10.9	1800	62.1	43.1	0.69	3.98	75.6	15.6	7.2
90	8.0	1.1	2.6	1500	79.6	5.28	61.6	119.2	4.43	12.4	1500	57.3	37.3	0.65	4.42	72.4	13.0	9.6	1800	80.3	5.21	62.5	111.3	4.52	11.5	1800	58.9	41.3	0.70	4.50	74.3	13.1	10.3
	12.0	3.1	7.1	1500	83.8	5.23	65.9	121.7	4.69	12.8	1500	57.8	37.5	0.65	4.31	72.5	13.4	9.0	1800	84.3	5.16	66.6	113.4	4.79	11.9	1800	59.4	41.5	0.70	4.39	74.4	13.5	9.7
	16.0	5.0	11.6	1500	84.1	5.33	65.9	121.9	4.62	13.1	1500	58.1	39.4	0.68	4.17	72.3	13.9	8.4	1800	84.5	5.25	66.7	113.5	4.72	12.5	1800	60.4	42.6	0.71	4.35	75.2	13.9	9.3
100	8.0	1.1	2.5	Operation not recommended							Operation not recommended																						
	12.0	3.0	6.8	Operation not recommended							Operation not recommended																						
	16.0	4.8	11.2	Operation not recommended							Operation not recommended																						
110	8.0	1.0	2.4	Operation not recommended							Operation not recommended																						
	12.0	2.9	6.6	Operation not recommended							Operation not recommended																						
	16.0	4.7	10.8	Operation not recommended							Operation not recommended																						
120	8.0	1.0	2.3	Operation not recommended							Operation not recommended																						
	12.0	2.7	6.3	Operation not recommended							Operation not recommended																						
	16.0	4.5	10.4	Operation not recommended							Operation not recommended																						

Performance capacities shown in thousands of Btuh.

8/9/24

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



Performance Data cont.

066 Part Load

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F														
		PSI	FT	Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh							
20	10.0	1.6	3.8	Operation not recommended							Operation not recommended														
	13.0	3.2	7.3	Operation not recommended							Operation not recommended														
	16.0	4.7	10.8	1400	34.9	3.55	22.8	93.1	2.88	4.2	1600	34.1	3.51	22.1	89.7	2.85	4.9								
30	10.0	1.6	3.7	Operation not recommended							Operation not recommended														
	13.0	3.1	7.1	1400	35.6	3.40	24.0	93.6	3.07	5.3	1600	37.1	3.49	25.2	91.5	3.11	4.5	1400	49.5	34.4	0.69	2.00	56.4	24.7	-
	16.0	4.5	10.5	1400	40.4	3.62	28.0	96.7	3.27	4.8	1600	39.5	3.58	27.3	92.9	3.23	5.5	1400	49.8	34.4	0.69	1.94	56.4	25.6	-
1600	49.8	34.4	0.69	1.94	56.4	25.6	-																		
40	10.0	1.5	3.6	Operation not recommended							Operation not recommended														
	13.0	3.0	6.9	1400	42.6	3.51	30.6	98.2	3.56	6.3	1600	44.1	3.57	31.9	95.5	3.61	5.7	1400	52.0	34.9	0.67	2.08	59.1	24.9	-
	16.0	4.4	10.2	1400	44.9	3.59	32.6	99.7	3.66	6.5	1600	46.5	3.66	34.0	96.9	3.72	5.9	1400	52.4	34.9	0.67	2.02	59.3	25.9	-
1600	53.6	38.1	0.71	2.12	60.8	25.3	-																		
50	10.0	1.5	3.5	1400	47.9	3.61	35.5	101.6	3.89	6.6	1600	49.4	3.66	36.9	98.6	3.95	6.1	1400	53.2	33.8	0.64	2.22	60.8	23.9	2.0
	13.0	2.9	6.7	1400	49.5	3.61	37.2	102.8	4.02	6.8	1600	51.0	3.66	38.6	99.5	4.09	6.2	1400	53.7	34.0	0.63	2.17	61.1	24.8	1.8
	16.0	4.3	9.9	1400	51.9	3.70	39.3	104.3	4.11	7.0	1600	53.4	3.74	40.6	100.9	4.18	6.4	1400	54.6	34.9	0.64	2.15	61.9	25.4	1.7
1600	56.1	38.6	0.69	2.19	63.9	25.6	1.9																		
60	10.0	1.4	3.3	1400	53.7	3.73	40.9	105.5	4.22	7.3	1600	55.0	3.76	42.2	101.8	4.29	6.7	1400	51.7	33.7	0.65	2.55	60.4	20.3	2.9
	13.0	2.8	6.5	1400	55.8	3.72	43.1	106.9	4.39	7.5	1600	57.1	3.74	44.3	103.1	4.47	6.9	1400	53.1	33.9	0.65	2.48	60.6	21.0	2.7
	16.0	4.1	9.6	1400	57.8	3.81	44.8	108.2	4.45	7.7	1600	59.1	3.83	46.0	104.2	4.52	7.1	1400	53.6	37.5	0.70	2.53	62.2	21.2	2.9
1600	54.5	38.5	0.71	2.51	63.0	21.7	2.8																		
70	10.0	1.4	3.2	1400	59.4	3.85	46.3	109.3	4.52	8.1	1600	61.8	3.83	48.7	105.8	4.73	7.5	1400	50.1	33.5	0.67	2.88	59.9	17.4	4.1
	13.0	2.7	6.2	1400	62.0	3.83	48.9	111.0	4.74	8.3	1600	63.1	3.83	50.1	106.5	4.83	7.7	1400	50.5	33.7	0.67	2.80	60.1	18.0	3.8
	16.0	4.0	9.2	1400	63.6	3.92	50.2	112.1	4.76	8.5	1600	64.7	3.91	51.4	107.4	4.85	7.9	1400	51.4	34.6	0.67	2.78	60.8	18.5	3.5
1600	52.8	38.3	0.73	2.83	62.5	18.7	3.9																		
80	10.0	1.4	3.1	1400	63.8	3.94	50.4	112.2	4.75	8.0	1600	64.7	3.92	51.3	107.4	4.84	8.3	1400	47.9	33.0	0.69	3.24	58.9	14.8	6.1
	13.0	2.6	6.0	1400	66.9	3.91	53.6	114.3	5.01	9.3	1600	67.7	3.89	54.4	109.2	5.11	8.6	1400	49.2	36.5	0.74	3.30	60.5	14.9	5.9
	16.0	3.9	8.9	1400	67.8	4.00	54.2	114.9	4.98	9.6	1600	68.6	3.96	55.0	109.7	5.07	8.9	1400	49.6	36.8	0.74	3.22	60.6	15.4	5.6
1600	50.5	37.7	0.75	3.19	61.3	15.8	5.8																		
90	10.0	1.3	3.0	1400	68.2	4.03	54.5	115.1	4.96	10.1	1600	68.8	3.98	55.2	109.8	5.06	9.3	1400	45.6	32.5	0.71	3.61	57.9	12.7	8.5
	13.0	2.5	5.8	1400	71.8	3.99	58.1	117.5	5.26	10.4	1600	72.2	3.94	58.7	111.8	5.37	9.8	1400	46.0	32.7	0.71	3.51	58.0	13.1	8.0
	16.0	3.7	8.6	1400	72.1	4.07	58.2	117.7	5.18	10.8	1600	72.4	4.01	58.8	111.9	5.29	10.0	1400	47.3	36.2	0.76	3.58	59.5	13.2	8.6
1600	50.2	35.9	0.72	3.55	62.3	14.1	7.4																		
100	10.0	1.3	2.9	Operation not recommended							Operation not recommended														
	13.0	2.4	5.6	Operation not recommended							Operation not recommended														
	16.0	3.6	8.3	1400	45.3	33.4	0.74	4.21	59.6	10.8	10.2	1600	46.5	37.0	0.79	4.29	61.2	10.9	11.3						
1600	46.0	34.2	0.74	4.17	60.2	11.0	9.5																		
110	10.0	1.2	2.8	Operation not recommended							Operation not recommended														
	13.0	2.3	5.4	Operation not recommended							Operation not recommended														
	16.0	3.5	8.0	1400	44.5	34.1	0.77	4.90	61.2	9.1	13.0	1600	45.7	37.7	0.82	4.99	62.8	9.2	14.1						
1600	45.2	35.0	0.77	4.86	61.8	9.3	12.1																		
120	10.0	1.2	2.7	Operation not recommended							Operation not recommended														
	13.0	2.2	5.2	Operation not recommended							Operation not recommended														
	16.0	3.3	7.7	1400	38.1	30.0	0.79	5.26	56.1	7.3	15.9	1600	38.8	32.6	0.84	5.40	57.2	7.2	16.9						
1600	38.5	30.0	0.78	5.09	55.8	7.6	14.6																		
1600	39.3	32.6	0.83	5.25	57.2	7.5	16.4																		

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Performance Data cont.

066 Full Load

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT	Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
20	12.0	2.7	6.2	Operation not recommended							Operation not recommended							
	15.0	4.4	10.3	Operation not recommended							Operation not recommended							
	18.0	6.2	14.3	1800 2000	43.9 43.7	4.43 4.49	28.8 28.4	92.6 90.2	2.90 2.85	7.9 7.1								
30	12.0	2.6	6.0	Operation not recommended							Operation not recommended							
	15.0	4.3	10.0	1800 2000	52.7 54.2	4.64 4.78	36.9 37.9	97.1 95.1	3.33 3.32	8.3 7.6	1800 2000	60.5 61.5	36.8 40.2	0.61 0.65	3.13 3.30	71.2 72.7	19.3 18.6	- -
	18.0	6.0	13.9	1800 2000	55.6 55.3	4.77 4.83	39.3 38.8	98.6 95.6	3.42 3.36	8.5 7.7	1800 2000	60.8 62.3	36.8 40.2	0.60 0.65	3.04 3.19	71.2 73.2	20.0 19.5	- -
40	12.0	2.5	5.9	Operation not recommended							Operation not recommended							
	15.0	4.2	9.7	1800 2000	59.6 61.5	4.76 4.86	43.4 44.9	100.7 98.5	3.67 3.71	9.2 8.4	1800 2000	65.0 66.2	40.2 43.9	0.62 0.66	3.37 3.53	76.5 78.2	19.3 18.8	- -
	18.0	5.8	13.5	1800 2000	60.8 62.8	4.80 4.91	44.4 46.0	101.3 99.1	3.71 3.75	9.5 8.6	1800 2000	65.5 67.0	40.2 43.9	0.61 0.66	3.27 3.42	76.6 78.6	20.1 19.6	- -
50	12.0	2.5	5.7	1800 2000	64.2 66.1	4.76 4.83	48.0 49.7	103.0 100.6	3.95 4.02	9.9 9.2	1800 2000	65.9 69.4	39.7 44.1	0.60 0.64	3.77 3.97	78.8 82.9	17.5 17.5	4.3 4.5
	15.0	4.1	9.4	1800 2000	66.6 68.7	4.87 4.94	50.0 51.9	104.2 101.8	4.01 4.08	10.2 9.4	1800 2000	67.4 70.8	40.1 44.6	0.60 0.63	3.55 3.73	79.5 83.5	19.0 19.0	4.0 4.3
	18.0	5.7	13.1	1800 2000	68.1 70.2	4.91 4.98	51.3 53.2	105.0 102.5	4.06 4.13	10.5 9.6	1800 2000	68.0 71.6	42.8 47.6	0.63 0.66	3.47 3.64	79.8 84.0	19.6 19.7	3.7 4.1
60	12.0	2.4	5.5	1800 2000	69.6 71.8	5.05 5.08	52.4 54.5	105.8 103.3	4.04 4.15	11.1 10.3	1800 2000	64.5 67.6	40.6 45.1	0.63 0.67	4.07 4.25	78.4 82.1	15.9 15.9	5.5 5.5
	15.0	3.9	9.1	1800 2000	72.7 75.1	5.19 5.22	55.0 57.3	107.4 104.8	4.11 4.21	11.5 10.6	1800 2000	66.0 69.1	41.1 45.6	0.62 0.66	3.87 4.02	79.2 82.9	17.1 17.2	4.9 5.3
	18.0	5.5	12.7	1800 2000	74.5 77.0	5.24 5.27	56.6 59.0	108.3 105.6	4.16 4.28	11.8 10.9	1800 2000	66.7 70.0	43.3 48.0	0.65 0.69	3.77 3.94	79.5 83.4	17.7 17.8	4.5 5.0
70	12.0	2.3	5.3	1800 2000	75.1 81.8	5.33 5.41	56.9 62.7	108.6 107.9	4.13 4.43	12.5 11.6	1800 2000	63.1 67.9	41.5 48.1	0.66 0.71	4.36 4.34	78.0 82.2	17.5 15.6	6.6 6.9
	15.0	3.8	8.8	1800 2000	78.9 81.5	5.51 5.51	60.1 63.3	110.6 107.7	4.20 4.34	12.9 11.9	1800 2000	64.7 67.5	42.0 46.6	0.65 0.69	4.18 4.32	79.0 82.7	15.5 15.6	6.1 6.6
	18.0	5.3	12.2	1800 2000	80.9 83.7	5.57 5.55	61.9 64.8	111.6 108.8	4.26 4.42	13.3 12.3	1800 2000	65.4 68.3	43.7 48.4	0.67 0.71	4.07 4.24	79.3 82.8	16.0 16.1	5.7 6.3
80	12.0	2.2	5.1	1800 2000	78.1 80.8	5.48 5.43	59.4 62.3	110.2 107.4	4.18 4.36	13.9 12.8	1800 2000	59.9 62.3	41.4 46.0	0.69 0.74	4.74 4.89	76.1 78.9	12.6 12.7	8.4 8.9
	15.0	3.7	8.5	1800 2000	82.6 85.4	5.69 5.64	63.1 66.1	112.5 109.5	4.25 4.44	14.3 13.2	1800 2000	61.5 64.0	41.9 46.4	0.68 0.73	4.57 4.71	77.1 80.1	13.5 13.6	7.8 8.4
	18.0	5.1	11.8	1800 2000	84.9 87.9	5.77 5.68	65.3 68.5	113.7 110.7	4.32 4.53	14.7 13.6	1800 2000	62.2 64.8	42.9 47.6	0.69 0.73	4.48 4.62	77.5 80.5	13.9 14.0	7.2 8.0
90	12.0	2.1	5.0	1800 2000	81.1 84.0	5.62 5.54	61.9 65.1	111.7 108.9	4.23 4.45	15.4 14.3	1800 2000	56.7 58.7	41.3 45.8	0.73 0.78	5.12 5.24	74.1 76.6	11.1 11.2	10.5 11.1
	15.0	3.5	8.2	1800 2000	86.2 89.3	5.87 5.77	66.2 69.6	114.4 111.3	4.30 4.54	15.9 14.7	1800 2000	58.4 60.5	41.8 46.3	0.72 0.77	4.97 5.09	75.3 77.9	11.7 11.9	9.8 10.6
	18.0	4.9	11.4	1800 2000	88.9 92.0	5.96 5.81	68.6 72.2	115.8 112.6	4.38 4.64	16.4 15.2	1800 2000	68.5 61.2	47.7 46.7	0.70 0.76	4.96 4.99	85.4 78.2	13.8 12.3	9.1 10.1
100	12.0	2.1	4.8	Operation not recommended							Operation not recommended							
	15.0	3.4	7.9	Operation not recommended							Operation not recommended							
	18.0	4.8	11.0	Operation not recommended							Operation not recommended							
110	12.0	2.0	4.6	Operation not recommended							Operation not recommended							
	15.0	3.3	7.6	Operation not recommended							Operation not recommended							
	18.0	4.6	10.6	Operation not recommended							Operation not recommended							
120	12.0	1.9	4.4	Operation not recommended							Operation not recommended							
	15.0	3.2	7.3	Operation not recommended							Operation not recommended							
	18.0	4.4	10.2	Operation not recommended							Operation not recommended							

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

**Affinity - Outdoor Split
2 - 6 Tons 60Hz**



Revision Guide

Pages:	Description:	Date:	By:
	Guide Creation	17 Sept, 2024	SW/MA