

SUBMITTAL DATA

Aston Series 3D

GEOSTAR

R-454B
60Hz

SDW5-0017G



Contractor: _____ P.O.: _____

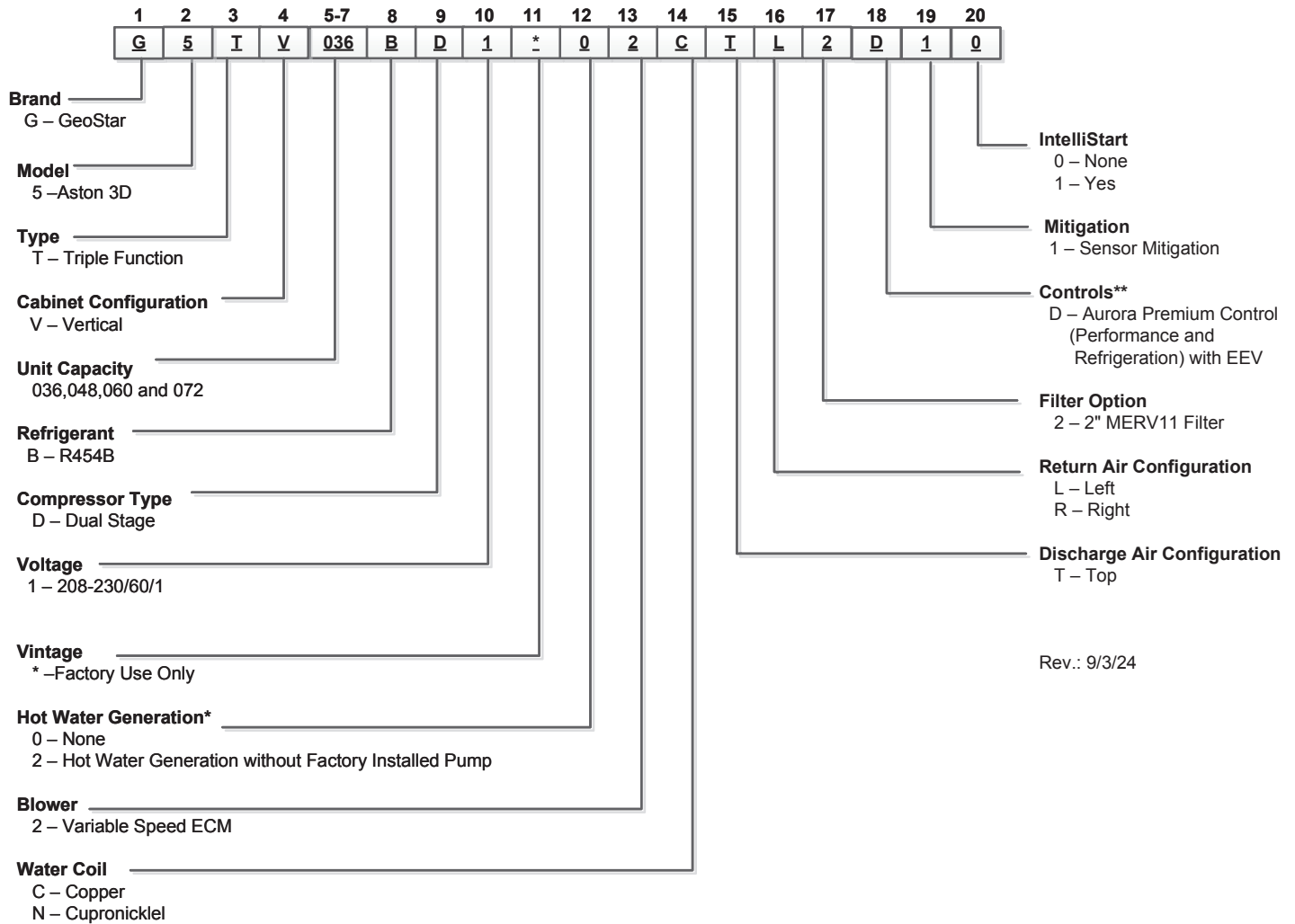
Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series 3D
3 - 6 Tons 60Hz



Nomenclature



Rev.: 9/3/24

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Aston Series 3D
3 - 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
036	Full	9	1200	41,400	26.90	35,700	5.10	38,000	20.10	29,300	4.30
	Part	8	1000	30,800	33.60	25,400	5.20	29,600	27.80	23,500	4.70
048	Full	12	1600	52,500	24.50	47,400	4.70	49,100	18.50	38,400	4.10
	Part	11	1400	39,200	32.60	34,100	5.20	37,600	26.40	30,400	4.60
060	Full	16	1800	67,900	23.90	56,000	4.60	63,700	17.90	47,300	4.00
	Part	14	1500	48,900	31.00	38,400	4.80	47,900	25.60	35,100	4.30
072	Full	18	2000	77,700	23.00	70,700	4.50	71,500	17.80	56,100	3.90
	Part	16	1500	58,000	29.50	52,300	4.50	55,300	25.00	46,600	4.10

8/1/24

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AHRI/ISO 13256-1 Performance Ratings

Energy Star Compliance Table

Model	Tier 3	
	Ground Water	Ground Loop
036	Yes	Yes
048	Yes	Yes
060	Yes	Yes
072	Yes	Yes

8/29/23

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
Water-to-Air		
Ground Loop	17.1	3.6
Ground Water	21.1	4.1
Water-to-Water		
Ground Loop	16.1	3.1
Ground Water	20.1	3.5



Contractor: _____ P.O.: _____

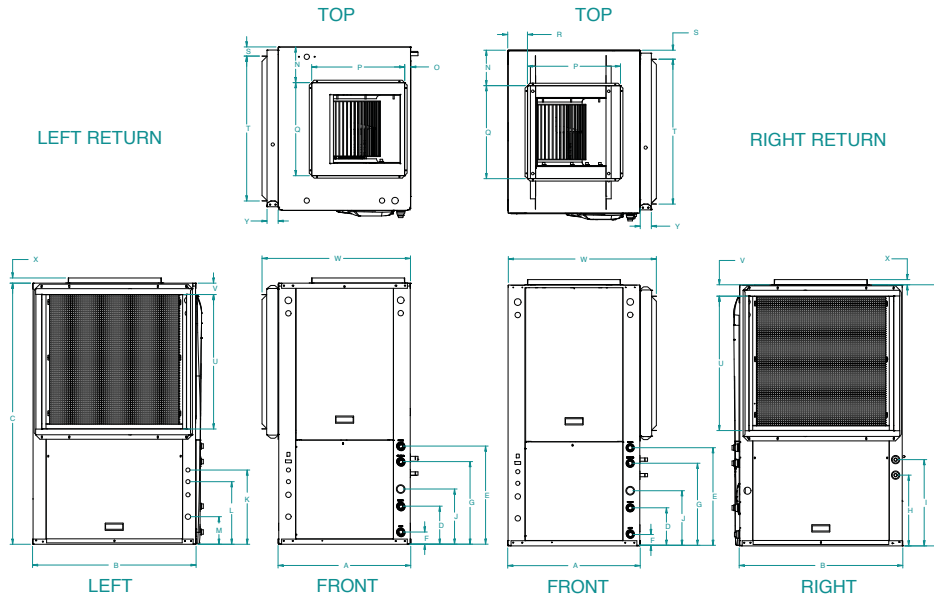
Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series 3D
3 - 6 Tons 60Hz



Dimensional Data



Vertical Topflow Model	Overall Cabinet			Water Connections										Electrical Connections			
	A	B	C	D	E	F	G	H	I	J	Loop Water FPT	Hydronic Water FPT	HWG (O.D.)	K	L	M	
	Width	Depth	Height	Loop In	Hydronic Out	Hydronic In	Loop Out	HWG In	HWG Out	Condensate				1/2" cond Low Voltage	1/2" cond Ext Pump	3/4" cond Power Supply	
036	in.	25.6	31.6	50.4	7.3	18.9	2.3	15.9	13.6	16.6	10.6	1" Swivel	1" Swivel	1/2" Stub	14.4	12.1	5.3
	cm.	65.0	80.3	128.0	18.5	48.0	5.8	40.4	34.5	42.2	26.9				36.6	30.7	13.5
048	in.	25.6	31.6	54.4	7.3	18.9	2.3	15.9	15.9	18.9	10.6	1" Swivel	1" Swivel	1/2" Stub	14.4	12.1	5.3
	cm.	65.0	80.3	138.2	18.5	48.0	5.8	40.4	40.4	48.0	26.9				36.6	30.7	13.5
060	in.	25.6	31.6	58.4	7.3	18.9	2.3	15.9	15.9	18.9	10.6	1" Swivel	1" Swivel	1/2" Stub	14.4	12.1	5.3
	cm.	65.0	80.3	148.3	18.5	48.0	5.8	40.4	40.4	48.0	26.9				36.6	30.7	13.5
072	in.	25.6	31.6	58.4	7.3	18.9	2.3	15.9	15.9	18.9	10.6	1" Swivel	1" Swivel	1/2" Stub	14.4	12.1	5.3
	cm.	65.0	80.3	148.3	18.5	48.0	5.8	40.4	40.4	48.0	26.9				36.6	30.7	13.5

Vertical Topflow Model	Discharge Connection duct flange installed (±0.10 in)					Return Connection using std deluxe filter rack (±0.10 in)						Misc	
	N	O	P	Q	R	S	T	U	V	W	X	Y	
			Supply Width	Supply Depth		Return Depth	Return Height						
036	in.	6.9	1.1	18.0	18.0	3.8	1.7	28.1	26.0	1.7	28.7	1.0	2.1
	cm.	17.5	2.8	45.7	45.7	9.7	4.3	71.4	66.0	4.3	72.9	2.5	5.3
048	in.	6.9	1.1	18.0	18.0	3.8	1.7	28.1	30.0	1.7	28.7	1.0	2.1
	cm.	17.5	2.8	45.7	45.7	9.7	4.3	71.4	76.2	4.3	72.9	2.5	5.3
060	in.	6.9	1.1	18.0	18.0	3.8	1.7	28.1	34.0	1.7	28.7	1.0	2.1
	cm.	17.5	2.8	45.7	45.7	9.7	4.3	71.4	86.4	4.3	72.9	2.5	5.3
072	in.	6.9	1.1	18.0	18.0	3.8	1.7	28.1	34.0	1.7	28.7	1.0	2.1
	cm.	17.5	2.8	45.7	45.7	9.7	4.3	71.4	86.4	4.3	72.9	2.5	5.3

Condensate is 3/4" PVC female glue socket and is switchable from side to front 11/14/23
 Unit shipped with deluxe 2" (field adjustable to 1") duct collar/filter rack extending from unit 3.25" and is suitable for duct connection.
 Discharge flange is field installed and extends 1" [25.4mm] from cabinet
 Decorative molding and water connections extend 1.2" [30.5mm] beyond front of cabinet.

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Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series 3D
3 - 6 Tons 60Hz



Physical Data

Model	036	048	060	072
Compressor (1 each) Factory Charge R-454B, oz [kg]	Copeland Scroll			
	62 [1.75]	76 [2.15]	98 [2.77]	98 [2.77]
ECM Fan Motor & Blower				
Fan Motor Type/Speeds	ECM Variable Speed			
Fan Motor- hp [W]	1/2 [373]	1/2 [373]	1 [746]	1 [746]
Blower Wheel Size (Dia x W), in. [mm]	11 x 10 [279 x 254]	11 x 10 [279 x 254]	11 x 10 [279 x 254]	11 x 10 [279 x 254]
Coax and Water Piping				
Loop Water Connections Size - Swivel - in [mm]	1" [25.4]	1" [25.4]	1" [25.4]	1" [25.4]
Hydronic Water Connections Size - Swivel - in [mm]	1" [25.4]	1" [25.4]	1" [25.4]	1" [25.4]
HWG Connection Size - Stub - in [mm]	1/2" [12.7]	1/2" [12.7]	1/2" [12.7]	1/2" [12.7]
Coax & Piping Water Volume - gal [l]	1.3 [4.9]	1.6 [6.1]	1.6 [6.1]	1.6 [6.1]
Vertical				
Air Coil Dimensions (H x W), in. [mm]	28 x 25 [711 x 635]	32 x 25 [813 x 635]	36 x 25 [914 x 635]	36 x 25 [914 x 635]
Air Coil Total Face Area, ft2 [m2]	4.9 [0.451]	5.6 [0.570]	6.3 [0.641]	6.3 [0.641]
Air Coil Tube Size, in [mm]	3/8 [9.5]	3/8 [9.5]	3/8 [9.5]	3/8 [9.5]
Air Coil Number of rows	3	3	4	4
Filter Standard - 2" [51mm] Pleated MERV11 Disposable, in [mm]	28 x 30 [712 x 762]	32 x 30 [813 x 762]	36 x 30 [914 x 762]	36 x 30 [914 x 762]
Weight - Operating, lb [kg]	425	530	540	540
Weight - Packaged, lb [kg]	445	550	560	560

11/2/23

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Aston Series 3D
3 - 6 Tons 60Hz



Auxiliary Heat Ratings

Model	KW		Stages	BTU/HR		Min CFM		
	208V	230V		208V	230V		036	048 - 072
EAL10B	7.2	9.6	2	24,600	32,700	1100	•	•
EAL15B	10.8	14.4	2	36,900	49,100	1250	•	•
EAL20B	14.4	19.2	2	49,200	65,500	1500		•

Air flow level for auxiliary heat (Aux) must be equal to or above the minimum CFM in this table

Auxiliary Heat Electrical Data

Model	Supply	Heater Amps		Min Circuit Amp		Max Fuse (USA)		Max Fuse (CAN)		Max CKT BRK	
	Circuit	208 V	240 V	208 V	240 V	208 V	240 V	208 V	240 V	208 V	240 V
EAL10	Single	34.7	40	53.3	60	60	60	60	60	60	60
EAL15	Single	52.0	60	75.0	85	80	90	80	90	70	100
	L1/L2	34.7	40	53.3	60	60	60	60	60	60	60
	L3/L4	17.3	20	21.7	25	25	25	25	25	20	30
EAL20	Single	69.3	80	96.7	110	100	110	100	110	100	100
	L1/L2	34.7	40	53.3	60	60	60	60	60	60	60
	L3/L4	34.7	40	43.3	50	45	50	45	50	40	50

All heaters rated single phase 60 cycle and include unit fan load

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

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3 - 6 Tons 60Hz



Electrical Data

Model	Rated Voltage	Voltage Min/Max	Compressor				Int Pump FLA	Ext Loop FLA	Fan Motor FLA	Total Unit FLA	Min Circ Amp	Max Fuse/HACR
			MCC	RLA	LRA	LRA**						
036	208-230/60/1	187/253	22.7	14.6	90.0	32.4	1.07	5.4	4.0	25.1	28.7	40
048	208-230/60/1	187/253	28.6	18.3	138.0	49.7	1.07	5.4	4.0	28.8	33.3	50
060	208-230/60/1	187/253	39.3	25.2	147.3	51.5	1.07	5.4	7.0	38.7	45.0	70
072	208-230/60/1	187/253	43.7	28.0	160.0	56.0	1.07	5.4	7.0	41.5	48.5	70

Rated Voltage of 208-230/60/1.

HACR circuit breaker in USA only.

Local electrical codes overrule any wiring recommendations.

* With optional 1 HP ECM motor

**With optional IntelliStart

11/29/23

Min/Max Voltage of 187/254.

All fuses Class RK-5.

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Aston Series 3D
3 - 6 Tons 60Hz



Blower Performance Data

MODEL	MAX ESP	AIR FLOW SPEED SETTINGS											
		1	2	3	4	5	6	7	8	9	10	11	12
036	0.50	650	750 G	850	1000	1100 L	1200	1300 H	1400	1500	1550 Aux		
048	0.50	650	800 G	900	1050	1150	1250	1350 L	1450	1550 H	1575 Aux		
060	0.75	800	950 G	1100	1300	1500 L	1750	1950 H	2100	2300	2325 Aux		
072	0.75	800	950 G	1100	1300	1500	1750 L	1950	2100 H	2300	2325 Aux		

8/29/23

Factory settings are at recommended G-L-H-Aux speed settings

L-H settings MUST be located within boldface CFM range

"Aux" is factory setting for auxiliary heat and must be equal to or above the "H" setting as well as at least the minimum required for the auxiliary heat package

"G" may be located anywhere within the airflow table

CFM is controlled within ±5% up to the maximum ESP

Max ESP includes allowance for wet coil and standard filter

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Operating Limits

Operating Limits	Cooling		Heating	
	°F	°C	°F	°C
Air Limits				
Minimum Ambient Air	45	7.2	45	7.2
Rated Ambient Air	80	26.7	70	21.1
Max. Ambient Air	100	37.8	85	29.4
Minimum Entering Air	50	10.0	40	4.4
Rated Entering Air db/wb	80.6/66.2	27/19	68	20.0
Maximum Entering Air db/wb	110/83	43/28.3	80	26.7
Water Limits				
Minimum Entering Water	30	-1.1	20	-6.7
Normal Entering Water	50-110	10-43.3	30-70	-1.1
Maximum Entering Water	120	48.9	90	32.2

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 dependant 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

HWR = Hot Water Return
 HWS = Hot Water Supply
 CWR = Cold Water Return
 CWS = Cold Water Supply
 HVR = Heat Recovery Return
 HVS = Heat Recovery Supply
 HVP = High Voltage Panel
 LVP = Low Voltage Panel
 TC = Total Cooling Capacity in MBTUH
 MBTUH = Thousands of British Thermal Units per hour
 LWT = Leaving Water Temperature

EWT = Entering Water Temperature
 EER = Energy Efficiency Ratio (TC/kW)
 COP = Coefficient of Performance (HC/kW x 3.413)
 PSI = Pressure drop in pounds per square inch
 HC = Heating Capacity in MBTUH
 HE = Heat of Extraction in MBTUH
 kW = kilowatt
 ft hd = pressure drop in feet of head
 HR = Heat of Rejection

Reference Calculations

Heating Calculations: $LWT = EWT - \frac{HE}{GPM \times 500^*}$	Cooling Calculations: $LWT = EWT + \frac{HR}{GPM \times 500^*}$
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NOTE: * When using water.

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Engineer: _____

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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

5/30/06

Air Flow Corrections (Dual Capacity Full 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	0.786	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

5/30/06

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	*	*	*	*	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.

3/28/12

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

11/10/09

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Engineer: _____

Project Name: _____ Unit Tag: _____



Antifreeze Corrections

Catalog performance can be corrected for antifreeze use. Please use the following table and note the example given.

Antifreeze Type	Antifreeze % by wt	Heating	Cooling	Pressure Drop
EWT - °F [°C]		30 [-1.1]	90 [32.2]	30 [-1.1]
Water	0	1.000	1.000	1.000
Ethylene Glycol	10	0.973	0.991	1.075
	20	0.943	0.979	1.163
	30	0.917	0.965	1.225
	40	0.890	0.955	1.324
	50	0.865	0.943	1.419
Propylene Glycol	10	0.958	0.981	1.130
	20	0.913	0.969	1.270
	30	0.854	0.950	1.433
	40	0.813	0.937	1.614
	50	0.770	0.922	1.816
Ethanol	10	0.927	0.991	1.242
	20	0.887	0.972	1.343
	30	0.856	0.947	1.383
	40	0.815	0.930	1.523
	50	0.779	0.911	1.639
Methanol	10	0.957	0.986	1.127
	20	0.924	0.970	1.197
	30	0.895	0.951	1.235
	40	0.863	0.936	1.323
	50	0.833	0.920	1.399

WARNING: Gray area represents antifreeze concentrations greater than 35% by weight and should be avoided due to the extreme performance penalty they represent.

Antifreeze Correction Example

Antifreeze solution is Propylene Glycol 20% by weight. Determine the corrected heating and cooling performance at 30°F and 90°F respectively as well as pressure drop at 30°F for NS*O22-ECM.

The corrected cooling capacity at 90°F would be: 22,400 MBtu/h x 0.969 = 21,706 MBtu/h

The corrected heating capacity at 30°F would be: 14,500 MBtu/h x 0.913 = 13,239 MBtu/h

The corrected pressure drop at 30°F and 6 gpm would be: 6.6 feet of head x 1.270 = 8.38 feet of head

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Pressure Drop

Model	GPM	Pressure Drop (psi)				
		30°F	50°F	70°F	90°F	110°F
036 full load	5	2.5	2.3	2.2	2.0	1.9
	7	3.9	3.6	3.4	3.2	2.9
	9	5.3	5.0	4.7	4.5	4.1
	11	6.7	6.5	6.0	5.8	5.3
036 part load	4	2.0	1.9	1.8	1.6	1.5
	6	3.1	2.9	2.7	2.5	2.3
	8	4.5	4.2	3.9	3.7	3.4
	10	5.9	5.5	5.1	4.9	4.5
048 full load	6	1.8	1.7	1.6	1.5	1.4
	9	3.2	3.0	2.8	2.6	2.4
	12	4.8	4.5	4.2	3.9	3.6
	15	6.4	6.0	5.6	5.2	4.8
048 part load	5	1.5	1.4	1.3	1.2	1.1
	8	2.8	2.6	2.5	2.3	2.1
	11	4.2	3.9	3.7	3.4	3.2
	14	5.6	5.2	4.9	4.5	4.3
060 full load	8	2.3	2.2	2.0	1.9	1.7
	12	4.8	4.5	4.2	3.9	3.6
	16	7.3	6.8	6.4	6.0	5.5
	20	9.8	9.1	8.6	8.1	7.4
060 part load	6	1.6	1.5	1.4	1.3	1.2
	10	3.6	3.4	3.2	3.0	2.8
	14	5.8	5.4	5.1	4.8	4.4
	18	8.0	7.4	7.0	6.6	6.0
072 full load	12	4.5	4.3	4.0	3.7	3.5
	15	7.0	6.6	6.2	5.8	5.4
	18	9.4	8.9	8.3	7.5	7.2
	21	11.6	11.2	10.4	9.2	9.0
072 part load	10	3.1	2.9	2.7	2.5	2.3
	13	5.0	4.7	4.4	4.1	3.8
	16	7.2	6.8	6.3	5.9	5.5
	19	9.5	9.0	8.4	7.7	7.3

11/28/23

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series 3D
3 - 6 Tons 60Hz



Performance Data

036 High Speed

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT	Airflow cfm	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC MBtu/h	Airflow cfm	TC MBtu/h	SC MBtu/h	S/T Ratio	Power kW	HR MBtu/h	EER	HWC MBtu/h
20	5.0	2.6	5.9	Operation not recommended							Operation not recommended							
	7.0	4.0	9.2	Operation not recommended							Operation not recommended							
	9.0	5.5	12.7	1050 1250	25.0 25.4	2.21 2.19	17.4 17.9	92.0 88.8	3.31 3.40	2.8 2.5								
30	5.0	2.5	5.8	Operation not recommended							Operation not recommended							
	7.0	3.9	8.9	1050 1250	27.7 28.5	2.15 2.22	20.4 21.0	94.4 91.1	3.78 3.77	2.9 2.7	1050 1250	32.1 32.7	19.9 21.8	0.62 0.67	1.18 1.24	36.2 36.9	27.3 26.3	- -
	9.0	5.3	12.3	1050 1250	28.6 29.1	2.26 2.24	20.9 21.5	95.2 91.6	3.71 3.81	3.0 2.8	1050 1250	32.3 33.1	19.9 21.8	0.62 0.66	1.14 1.20	36.2 37.2	28.3 27.6	- -
40	5.0	2.4	5.6	Operation not recommended							Operation not recommended							
	7.0	3.7	8.7	1050 1250	31.7 32.7	2.25 2.29	24.1 24.9	98.0 94.2	4.14 4.18	3.4 3.1	1050 1250	36.5 37.2	24.0 26.2	0.66 0.70	1.39 1.46	41.3 42.2	26.2 25.4	- -
	9.0	5.2	12.0	1050 1250	32.4 33.4	2.27 2.32	24.6 25.5	98.5 94.7	4.19 4.23	3.5 3.1	1050 1250	36.8 37.6	24.0 26.2	0.65 0.70	1.35 1.42	41.4 42.4	27.2 26.6	- -
50	5.0	2.3	5.4	1050 1250	34.5 35.5	2.29 2.32	26.7 27.6	100.4 96.3	4.42 4.49	3.6 3.3	1050 1250	38.8 40.8	25.4 28.3	0.66 0.69	1.69 1.78	44.5 46.9	23.0 23.0	1.7 1.8
	7.0	3.6	8.4	1050 1250	35.8 36.9	2.34 2.37	27.8 28.8	101.5 97.3	4.48 4.56	3.7 3.4	1050 1250	39.6 41.6	25.7 28.6	0.65 0.69	1.59 1.67	45.0 47.3	24.9 24.9	1.6 1.8
	9.0	5.0	11.6	1050 1250	36.6 37.7	2.36 2.39	28.5 29.5	102.2 97.9	4.54 4.62	3.8 3.5	1050 1250	40.0 42.1	27.5 30.5	0.69 0.72	1.55 1.63	45.3 47.7	25.8 25.8	1.5 1.7
60	5.0	2.3	5.3	1050 1250	37.7 38.9	2.36 2.38	29.6 30.8	103.2 98.8	4.67 4.79	4.1 3.8	1050 1250	37.9 39.8	25.3 28.2	0.67 0.71	1.89 1.97	44.4 46.5	20.1 20.2	2.1 2.2
	7.0	3.5	8.1	1050 1250	39.4 40.6	2.43 2.44	31.1 32.3	104.7 100.1	4.75 4.87	4.2 3.9	1050 1250	38.8 40.7	25.6 28.4	0.66 0.70	1.80 1.87	45.0 47.1	21.6 21.8	2.0 2.1
	9.0	4.9	11.2	1050 1250	40.3 41.7	2.45 2.47	31.9 33.2	105.6 100.9	4.81 4.95	4.3 4.0	1050 1250	39.2 41.2	27.0 30.0	0.69 0.73	1.75 1.83	45.2 47.4	22.4 22.5	1.8 2.0
70	5.0	2.2	5.1	1050 1250	18.2 42.9	2.44 2.47	39.9 34.5	100.1 101.8	2.19 5.09	4.7 4.3	1050 1250	37.1 39.6	25.2 29.6	0.68 0.75	2.07 2.17	40.3 46.8	18.5 18.2	2.6 2.8
	7.0	3.4	7.9	1050 1250	43.0 44.4	2.52 2.52	34.4 35.8	107.9 102.9	5.00 5.16	4.8 4.4	1050 1250	38.1 39.7	25.5 28.3	0.67 0.71	2.00 2.07	44.9 47.0	19.0 19.2	2.4 2.6
	9.0	4.7	10.9	1050 1250	44.1 45.6	2.55 2.54	35.4 36.9	108.9 103.8	5.07 5.26	5.0 5.6	1050 1250	38.5 40.2	26.5 29.4	0.69 0.73	1.95 2.03	45.1 47.1	19.7 19.8	2.3 2.5
80	5.0	2.1	4.9	1050 1250	44.2 45.7	2.52 2.50	35.6 37.2	108.9 103.9	5.14 5.37	5.2 4.8	1050 1250	35.5 36.9	24.8 27.5	0.70 0.75	2.31 2.38	43.3 45.0	15.3 15.5	3.2 3.4
	7.0	3.3	7.6	1050 1250	46.7 48.3	2.61 2.59	37.8 39.5	111.2 105.8	5.23 5.47	5.3 4.9	1050 1250	36.4 37.9	25.1 27.8	0.69 0.73	2.23 2.30	44.0 45.7	16.3 16.5	3.0 3.3
	9.0	4.5	10.5	1050 1250	48.1 49.7	2.65 2.61	39.0 40.8	112.4 106.8	5.32 5.58	5.5 5.1	1050 1250	36.8 38.4	25.7 28.5	0.70 0.74	2.18 2.25	44.3 46.0	16.9 17.0	2.8 3.1
90	5.0	2.0	4.7	1050 1250	47.4 49.1	2.59 2.55	38.6 40.4	111.8 106.4	5.36 5.64	5.9 5.4	1050 1250	33.8 35.0	24.3 27.0	0.72 0.77	2.53 2.59	42.4 43.9	13.4 13.5	4.0 4.3
	7.0	3.2	7.3	1050 1250	50.4 52.2	2.71 2.66	41.2 43.1	114.5 108.7	5.45 5.75	6.0 5.6	1050 1250	34.8 36.1	24.6 27.3	0.71 0.76	2.46 2.52	43.2 44.7	14.2 14.3	3.7 4.1
	9.0	4.4	10.1	1050 1250	52.0 53.8	2.75 2.68	42.6 44.7	115.9 109.9	5.55 5.88	6.2 5.8	1050 1250	35.8 36.5	25.4 27.5	0.71 0.75	2.41 2.47	44.0 44.9	14.9 14.8	3.5 3.9
100	5.0	2.0	4.6	Operation not recommended							Operation not recommended							
	7.0	3.1	7.1	1050 1250	32.7 33.8	2.42 2.39	24.2 26.9	91.1 88.8	4.18 4.18	3.1 3.1	1050 1250	32.7 33.8	19.9 21.8	0.62 0.67	1.18 1.24	36.2 36.9	27.3 26.3	- -
	9.0	4.2	9.8	1050 1250	33.4 34.2	2.32 2.27	25.5 26.2	94.7 97.3	4.23 4.56	3.1 3.4	1050 1250	33.1 34.2	19.9 21.8	0.66 0.73	1.20 1.26	37.2 38.3	27.6 28.3	- -
110	5.0	1.9	4.4	Operation not recommended							Operation not recommended							
	7.0	2.9	6.8	Operation not recommended							Operation not recommended							
	9.0	4.1	9.4	Operation not recommended							Operation not recommended							
120	5.0	1.8	4.2	Operation not recommended							Operation not recommended							
	7.0	2.8	6.5	Operation not recommended							Operation not recommended							
	9.0	3.9	9.0	Operation not recommended							Operation not recommended							

11/28/23

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series 3D
3 - 6 Tons 60Hz



Performance Data cont.

036 Low Speed

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT	Airflow cfm	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC MBtu/h	Airflow cfm	TC MBtu/h	SC MBtu/h	S/T Ratio	Power kW	HR MBtu/h	EER	HWC MBtu/h
20	4.0	2.0	4.7	Operation not recommended							Operation not recommended							
	6.0	3.2	7.3	Operation not recommended							Operation not recommended							
	8.0	4.6	10.6	900 1050	17.0 17.5	1.73 1.70	11.1 11.7	87.5 85.4	2.88 3.02	2.4 2.2	Operation not recommended							
30	4.0	2.0	4.6	Operation not recommended							Operation not recommended							
	6.0	3.1	7.1	900 1050	19.5 20.1	1.64 1.69	13.9 14.3	90.1 87.7	3.48 3.48	2.3 2.1	900 1050	26.1 26.5	16.6 18.1	0.63 0.68	0.83 0.88	29.0 29.5	31.3 30.2	- -
	8.0	4.5	10.3	900 1050	19.9 20.5	1.74 1.71	14.0 14.7	90.5 88.1	3.35 3.51	2.4 2.2	900 1050	26.3 26.9	16.6 18.1	0.63 0.67	0.81 0.85	29.0 29.8	32.4 31.6	- -
40	4.0	1.9	4.5	Operation not recommended							Operation not recommended							
	6.0	3.0	6.9	900 1050	22.2 22.9	1.65 1.69	16.6 17.2	92.9 90.2	3.94 3.98	2.5 2.3	900 1050	28.4 29.0	19.3 21.1	0.68 0.73	0.92 0.96	31.6 32.2	31.0 30.1	- -
	8.0	4.3	10.0	900 1050	22.7 23.4	1.67 1.71	17.0 17.6	93.3 90.6	3.98 4.02	2.6 2.4	900 1050	28.7 29.3	19.3 21.1	0.67 0.72	0.89 0.93	31.7 32.5	32.2 31.5	- -
50	4.0	1.9	4.3	900 1050	24.1 24.8	1.63 1.65	18.5 19.2	94.8 91.9	4.34 4.41	2.6 2.4	900 1050	29.2 30.7	20.0 22.2	0.69 0.72	1.05 1.10	32.8 34.5	27.9 27.9	0.9 1.0
	6.0	2.9	6.7	900 1050	24.9 25.7	1.66 1.69	19.3 20.0	95.7 92.7	4.40 4.48	2.7 2.5	900 1050	29.8 31.4	20.2 22.5	0.68 0.72	0.99 1.03	33.2 34.9	30.2 30.3	0.9 1.0
	8.0	4.2	9.7	900 1050	25.5 26.3	1.68 1.70	19.8 20.5	96.2 93.2	4.45 4.53	2.8 2.5	900 1050	30.1 31.7	21.6 24.0	0.72 0.76	0.96 1.01	33.4 35.1	31.3 31.4	0.8 0.9
60	4.0	1.8	4.2	900 1050	26.5 27.3	1.62 1.63	20.9 21.7	97.2 94.1	4.77 4.90	2.9 2.6	900 1050	28.1 29.4	19.8 22.0	0.70 0.75	1.20 1.26	32.2 33.7	23.3 23.4	1.3 1.3
	6.0	2.8	6.5	900 1050	27.6 28.5	1.67 1.68	21.9 22.8	98.4 95.2	4.85 4.98	3.0 2.7	900 1050	28.7 30.1	20.0 22.2	0.70 0.74	1.14 1.19	32.6 34.2	25.1 25.3	1.2 1.3
	8.0	4.1	9.4	900 1050	28.3 29.3	1.69 1.70	22.6 23.5	99.1 95.8	4.92 5.06	3.0 2.8	900 1050	29.0 30.5	21.1 23.4	0.73 0.77	1.11 1.17	32.8 34.4	26.0 26.1	1.1 1.2
70	4.0	1.8	4.0	900 1050	18.2 30.2	1.62 1.70	22.7 24.4	98.7 96.6	3.29 5.21	3.2 2.9	900 1050	27.0 28.6	19.6 22.6	0.73 0.79	1.39 1.46	30.2 33.4	28.7 19.6	1.7 1.8
	6.0	2.7	6.2	900 1050	30.4 31.4	1.68 1.68	24.6 25.6	101.2 97.6	5.31 5.48	3.3 3.0	900 1050	27.7 28.9	19.8 21.9	0.72 0.76	1.30 1.35	32.1 33.6	21.3 21.4	1.6 1.8
	8.0	3.9	9.1	900 1050	31.1 32.2	1.70 1.69	25.3 26.4	102.0 98.4	5.38 5.58	3.4 3.1	900 1050	27.9 29.2	20.6 22.8	0.74 0.78	1.27 1.32	32.3 33.7	22.0 22.1	1.5 1.7
80	4.0	1.7	3.9	900 1050	31.1 32.2	1.61 1.60	25.7 26.8	102.0 98.4	5.67 5.92	3.6 3.3	900 1050	25.5 26.5	19.4 21.5	0.76 0.81	1.57 1.62	30.9 32.1	16.2 16.4	2.4 2.6
	6.0	2.6	6.0	900 1050	32.9 34.1	1.67 1.66	27.2 28.4	103.9 100.0	5.77 6.02	3.7 3.4	900 1050	26.2 27.3	19.6 21.7	0.75 0.80	1.52 1.56	31.4 32.6	17.3 17.5	2.3 2.5
	8.0	3.8	8.8	900 1050	33.9 35.1	1.70 1.67	28.1 29.4	104.9 100.9	5.86 6.15	3.8 3.5	900 1050	26.5 27.6	20.1 22.3	0.76 0.81	1.49 1.53	31.6 32.8	17.8 18.0	2.1 2.3
90	4.0	1.6	3.8	900 1050	33.4 34.6	1.60 1.57	28.0 29.2	104.4 100.5	6.14 6.45	4.0 3.7	900 1050	24.1 24.9	19.2 21.3	0.80 0.85	1.78 1.83	30.2 31.2	13.5 13.6	3.2 3.4
	6.0	2.5	5.8	900 1050	35.5 36.8	1.67 1.64	29.8 31.2	106.5 102.4	6.24 6.58	4.2 3.8	900 1050	24.8 25.7	19.4 21.5	0.78 0.84	1.73 1.78	30.7 31.8	14.3 14.5	3.0 3.3
	8.0	3.7	8.5	900 1050	36.6 37.9	1.69 1.65	30.9 32.3	107.7 103.4	6.35 6.73	4.3 4.0	900 1050	25.8 26.0	19.7 21.7	0.76 0.83	1.71 1.74	31.6 31.9	15.1 14.9	2.8 3.1
100	4.0	1.6	3.6	Operation not recommended							Operation not recommended							
	6.0	2.4	5.6	Operation not recommended							Operation not recommended							
	8.0	3.5	8.2	900 1050	23.2 23.9	18.8 20.8	0.81 0.87	1.99 2.02	30.0 30.9	11.6 11.8	3.9 4.2	900 1050	23.4 24.2	18.7 20.7	0.80 0.86	1.96 1.99	30.1 31.0	12.0 12.2
110	4.0	1.5	3.5	Operation not recommended							Operation not recommended							
	6.0	2.3	5.4	Operation not recommended							Operation not recommended							
	8.0	3.4	7.8	900 1050	21.6 22.2	18.1 20.1	0.84 0.91	2.26 2.27	29.3 29.9	9.6 9.8	5.0 5.4	900 1050	21.8 22.4	17.9 19.7	0.82 0.88	2.22 2.24	29.4 30.0	9.8 10.0
120	4.0	1.5	3.4	Operation not recommended							Operation not recommended							
	6.0	2.2	5.2	Operation not recommended							Operation not recommended							
	8.0	3.3	7.5	900 1050	20.0 20.4	17.2 18.7	0.86 0.92	2.54 2.60	28.6 29.2	7.9 7.8	5.9 6.4	900 1050	20.2 20.6	17.2 18.7	0.85 0.91	2.45 2.53	28.5 29.2	8.2 8.1

11/14/23

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Performance Data

036 Water Heating Data

ELT	EST	LGPM	SOURCE 5.0 GPM						SWPD		HWC kBtu/h	SOURCE 7.0 GPM						SWPD		HWC kBtu/h	SOURCE 9.0 GPM						SWPD		HWC kBtu/h
			LLT	HC	KW	HE	COP	LST	PSI	FT HD		LLT	HC	KW	HE	COP	LST	PSI	FT HD		LLT	HC	KW	HE	COP	LST	PSI	FT HD	
80	30	5.0	Operation Not Recommended																										
		7.0	87.9	25.0	1.88	10.8	4.0	22.3	2.8	6.5	2.5	88.0	25.7	1.91	15.8	4.1	23.9	4.5	10.3	2.7	88.2	26.3	1.95	20.8	4.2	25.4	6.1	14.1	2.8
		9.0	85.7	25.2	1.86	19.6	4.1	22.2	2.8	6.5	2.4	85.9	25.9	1.90	20.4	4.2	23.8	4.5	10.3	2.5	86.0	26.6	1.94	21.1	4.3	25.3	6.1	14.1	2.6
80	40	5.0	Operation Not Recommended																										
		7.0	88.9	28.3	1.89	16.1	4.5	30.9	2.7	6.1	2.5	89.1	29.1	1.92	20.1	4.6	32.8	4.2	9.7	2.7	89.3	29.8	1.96	24.1	4.7	34.6	5.7	13.3	2.8
		9.0	86.4	28.5	1.87	22.8	4.6	30.8	2.7	6.1	2.4	86.6	29.2	1.91	23.6	4.7	32.7	4.2	9.7	2.5	86.8	30.0	1.95	24.4	4.8	34.5	5.7	13.2	2.6
80	50	5.0	92.7	31.7	1.93	17.1	4.9	39.6	2.5	5.8	2.7	93.0	32.4	1.96	22.1	5.0	41.8	4.0	9.1	2.8	93.3	33.1	1.99	27.2	5.1	44.0	5.4	12.5	2.9
		7.0	89.9	31.7	1.91	21.5	5.0	39.5	2.5	5.8	2.6	90.2	32.5	1.94	24.5	5.1	41.7	3.9	9.1	2.7	90.4	33.3	1.97	27.5	5.2	43.8	5.4	12.4	2.8
		9.0	87.2	31.7	1.88	26.0	5.1	39.4	2.5	5.8	2.5	87.4	32.6	1.92	26.9	5.2	41.6	3.9	9.1	2.5	87.6	33.5	1.95	27.8	5.3	43.7	5.4	12.4	2.6
80	60	5.0	94.1	35.1	1.95	24.7	5.3	48.1	2.4	5.4	2.7	94.4	35.8	1.98	27.6	5.4	50.7	3.7	8.5	2.8	94.7	36.6	2.01	30.5	5.5	53.2	5.1	11.7	2.9
		7.0	91.0	35.0	1.92	26.9	5.5	48.1	2.4	5.4	2.6	91.2	35.9	1.95	28.9	5.6	50.6	3.7	8.5	2.7	91.5	36.7	1.98	30.8	5.7	53.0	5.0	11.6	2.7
		9.0	87.9	35.0	1.89	29.1	5.6	48.0	2.4	5.4	2.5	88.1	35.9	1.92	30.1	5.7	50.5	3.7	8.5	2.5	88.3	36.9	1.96	31.1	5.9	52.9	5.0	11.5	2.6
80	70	5.0	95.4	38.5	1.97	32.3	5.8	56.7	2.2	5.1	2.7	95.8	39.3	2.00	33.1	5.9	59.6	3.5	8.0	2.8	96.1	40.1	2.03	33.9	6.0	62.4	4.7	10.9	2.8
		7.0	92.0	38.4	1.94	32.3	6.0	56.7	2.2	5.1	2.6	92.3	39.3	1.97	33.2	6.1	59.5	3.4	7.9	2.7	92.6	40.2	2.00	34.2	6.2	62.3	4.7	10.7	2.7
		9.0	88.6	38.2	1.90	32.3	6.1	56.6	2.2	5.1	2.5	88.9	39.3	1.93	33.4	6.2	59.4	3.4	7.9	2.6	89.1	40.3	1.96	34.4	6.4	62.1	4.6	10.6	2.6
100	30	5.0	Operation Not Recommended																										
		7.0	107.3	24.3	2.39	12.2	3.1	23.6	2.8	6.5	2.6	107.4	24.8	2.42	14.8	3.2	24.9	4.5	10.3	2.7	107.5	25.3	2.45	17.5	3.2	26.3	6.1	14.1	2.8
		9.0	105.3	24.2	2.37	16.5	3.2	23.6	2.8	6.5	2.5	105.4	24.8	2.41	17.1	3.2	24.9	4.5	10.3	2.5	105.5	25.4	2.44	17.6	3.3	26.2	6.1	14.1	2.6
100	40	5.0	Operation Not Recommended																										
		7.0	108.2	27.1	2.39	16.0	3.5	32.5	2.7	6.1	2.7	108.3	27.6	2.42	18.2	3.5	34.1	4.2	9.7	2.8	108.4	28.2	2.45	20.4	3.6	35.6	5.7	13.2	2.9
		9.0	105.9	27.0	2.37	19.2	3.5	32.5	2.7	6.1	2.6	106.0	27.6	2.40	19.8	3.6	34.0	4.2	9.7	2.7	106.1	28.2	2.44	20.4	3.7	35.6	5.7	13.2	2.7
100	50	5.0	111.5	30.0	2.43	17.7	3.7	41.4	2.5	5.8	3.0	111.7	30.6	2.46	20.4	3.8	43.2	3.9	9.1	3.1	111.9	31.2	2.49	23.2	3.8	45.1	5.4	12.4	3.2
		7.0	109.0	29.9	2.40	19.8	3.8	41.4	2.5	5.8	2.9	109.1	30.5	2.43	21.5	3.9	43.2	3.9	9.1	2.9	109.3	31.1	2.46	23.2	3.9	45.0	5.4	12.4	3.0
		9.0	106.5	29.8	2.37	21.9	3.9	41.4	2.5	5.8	2.7	106.6	30.5	2.40	22.6	3.9	43.2	3.9	9.1	2.8	106.7	31.1	2.43	23.3	4.0	44.9	5.4	12.4	2.9
100	60	5.0	112.6	32.8	2.44	22.6	4.1	50.3	2.4	5.4	3.1	112.8	33.4	2.47	24.4	4.1	52.3	3.7	8.5	3.2	113.0	34.1	2.50	26.1	4.2	54.4	5.0	11.6	3.3
		7.0	109.8	32.7	2.41	23.6	4.2	50.3	2.4	5.4	3.0	110.0	33.4	2.43	24.8	4.2	52.3	3.7	8.5	3.0	110.1	34.0	2.46	26.1	4.3	54.3	5.0	11.5	3.1
		9.0	107.0	32.6	2.37	24.6	4.2	50.3	2.4	5.4	2.8	107.1	33.3	2.40	25.3	4.3	52.3	3.7	8.5	2.9	107.3	34.0	2.43	26.1	4.4	54.3	5.0	11.5	3.0
100	70	5.0	113.7	35.7	2.46	27.5	4.4	59.2	2.2	5.1	3.2	113.9	36.3	2.48	28.3	4.5	61.5	3.4	7.9	3.3	114.2	37.0	2.51	29.1	4.5	63.8	4.7	10.7	3.4
		7.0	110.6	35.5	2.42	27.4	4.5	59.2	2.2	5.1	3.1	110.8	36.2	2.44	28.2	4.6	61.5	3.4	7.9	3.2	111.0	37.0	2.47	29.0	4.6	63.7	4.6	10.7	3.2
		9.0	107.6	35.4	2.38	27.3	4.6	59.3	2.2	5.1	3.0	107.7	36.1	2.40	28.1	4.7	61.4	3.4	7.9	3.0	107.9	36.9	2.42	28.9	4.7	63.6	4.6	10.6	3.1
120	30	5.0	Operation Not Recommended																										
		7.0	126.8	23.5	2.90	13.6	2.2	24.9	2.8	6.5	2.8	126.8	23.9	2.93	13.9	2.2	26.0	4.5	10.3	2.8	126.9	24.4	2.96	14.3	2.3	27.1	6.1	14.1	2.9
		9.0	124.9	23.2	2.88	13.4	2.2	25.0	2.8	6.5	2.5	124.9	23.7	2.91	13.8	2.3	26.1	4.5	10.3	2.6	124.9	24.1	2.94	14.1	2.3	27.1	6.1	14.1	2.6
120	40	5.0	Operation Not Recommended																										
		7.0	127.4	25.8	2.90	15.8	2.4	34.1	2.7	6.1	3.0	127.5	26.2	2.92	16.2	2.4	35.4	4.2	9.7	3.0	127.5	26.7	2.95	16.6	2.5	36.6	5.7	13.2	3.1
		9.0	125.3	25.5	2.87	15.6	2.4	34.2	2.7	6.1	2.7	125.3	26.0	2.90	16.0	2.5	35.4	4.2	9.7	2.8	125.3	26.5	2.93	16.4	2.5	36.6	5.7	13.2	2.9
120	50	5.0	130.3	28.3	2.93	18.2	2.6	43.2	2.5	5.8	3.4	130.4	28.8	2.96	18.8	2.6	44.7	3.9	9.1	3.4	130.5	29.3	2.98	19.3	2.6	46.2	5.4	12.4	3.5
		7.0	128.0	28.1	2.90	18.0	2.6	43.3	2.5	5.8	3.2	128.1	28.6	2.92	18.5	2.6	44.7	3.9	9.1	3.2	128.1	29.0	2.95	19.0	2.7	46.1	5.4	12.4	3.3
		9.0	125.8	27.9	2.87	17.9	2.7	43.5	2.5	5.8	3.0	125.8	28.3	2.89	18.3	2.7	44.8	3.9	9.1	3.0	125.8	28.8	2.91	18.8	2.7	46.1	5.4	12.4	3.1
120	60	5.0	131.1	30.6	2.94	20.5	2.8	52.4	2.4	5.4	3.5	131.2	31.1	2.96	21.1	2.8	54.0	3.7	8.5	3.6	131.4	31.6	2.99	21.8	2.8	55.7	5.0	11.5	3.7
		7.0	128.6	30.4	2.90	20.3	2.8	52.5	2.4	5.4	3.4	128.7	30.9	2.92	20.8	2.8	54.1	3.7	8.5	3.4	128.8	31.4	2.94	21.4	2.9	55.6	5.0	11.5	3.5
		9.0	126.2	30.2	2.86	20.1	2.9	52.7	2.4	5.4	3.2	126.2	30.7	2.88	20.6	2.9	54.1	3.7	8.5	3.3	126.2	31.2	2.90	21.1	2.9	55.6	5.0	11.5	3.4
120	70	5.0	131.9	32.8	2.94	22.7	3.0	61.6	2.2	5.1	3.7	132.1	33.4	2.97	23.5	3.0	63.4	3.4	7.9	3.8	132.2	33.9	2.99	24.2	3.0	65.2	4.6	10.6	3.9
		7.0	129.3	32.7	2.90	22.5	3.1	61.8	2.2	5.1	3.6	129.3	33.2	2.92	23.2	3.1	63.5	3.4	7.9	3.7	129.4	33.7	2.94	23.8	3.1	65.2	4.6	10.6	3.8
		9.0	126.6	32.5	2.85	22.3	3.1	61.9	2.2	5.1	3.4	126.6	33.0	2.87	22.9	3.1	63.5	3.4	7.9	3.5	126.6	33.5	2.88	23.4	3.1	65.1	4.6	10.6	3.6

*Water heating mode only allows high compressor capacity operation.

ELT = entering load fluid temperature to heat pump

LLT = leaving load fluid temperature from heat pump

LGPM = load flow in gallons per minute

LWPD = load coax water pressure drop

EST = entering source fluid temperature to heat pump

LST = leaving source fluid temperature from heat pump

HWC = desuperheater capacity

SWPD = source coax water pressure drop

PSI = pressure drop in pounds per square inch

FT HD = pressure drop in feet of head

KW = kilowatts

HE = heat extracted in BTUH

HC = total heating capacity in BTUH

COP = coefficient of performance [HC/(KW x 3.413)]

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series 3D
3 - 6 Tons 60Hz



Performance Data cont.

048 High Speed

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT	Airflow cfm	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC MBtu/h	Airflow cfm	TC MBtu/h	SC MBtu/h	S/T Ratio	Power kW	HR MBtu/h	EER	HWC MBtu/h
20	6.0	1.9	4.3	Operation not recommended							Operation not recommended							
	9.0	3.3	7.6	Operation not recommended							Operation not recommended							
	12.0	4.9	11.4	1350 1550	33.3 33.4	2.92 2.85	23.4 23.7	92.8 90.0	3.35 3.43	4.7 4.2	Operation not recommended							
30	6.0	1.8	4.2	Operation not recommended							Operation not recommended							
	9.0	3.2	7.4	1350 1550	36.6 37.6	2.82 2.91	26.9 27.7	95.1 92.5	3.80 3.79	4.9 4.5	1350 1550	43.5 44.2	26.1 28.5	0.60 0.64	1.86 1.95	49.8 50.9	23.4 22.6	- -
	12.0	4.8	11.0	1350 1550	38.3 38.4	3.01 2.94	28.0 28.4	96.3 92.9	3.73 3.83	5.0 4.6	1350 1550	43.7 44.8	26.1 28.5	0.60 0.64	1.80 1.89	49.9 51.2	24.3 23.7	- -
40	6.0	1.8	4.1	Operation not recommended							Operation not recommended							
	9.0	3.1	7.1	1350 1550	41.8 43.1	2.94 3.00	31.8 32.9	98.7 95.7	4.17 4.21	5.6 5.2	1350 1550	47.8 48.6	30.4 33.2	0.64 0.68	2.01 2.11	54.6 55.8	23.8 23.1	- -
	12.0	4.6	10.7	1350 1550	42.6 44.0	2.97 3.03	32.5 33.7	99.2 96.3	4.21 4.26	5.8 5.3	1350 1550	48.1 49.2	30.4 33.2	0.63 0.67	1.95 2.04	54.8 56.2	24.7 24.1	- -
50	6.0	1.7	3.9	1350 1550	45.4 46.7	2.98 3.02	35.2 36.4	101.1 97.9	4.46 4.53	6.1 5.6	1350 1550	49.4 52.0	31.5 35.0	0.64 0.67	2.27 2.39	57.1 60.1	21.8 21.8	2.7 2.9
	9.0	3.0	6.9	1350 1550	47.0 48.5	3.05 3.09	36.6 38.0	102.3 99.0	4.52 4.60	6.3 5.8	1350 1550	50.4 53.0	31.9 35.4	0.63 0.67	2.14 2.24	57.7 60.7	23.6 23.6	2.5 2.7
	12.0	4.5	10.4	1350 1550	48.1 49.6	3.08 3.12	37.6 39.0	103.0 99.6	4.58 4.66	6.5 5.9	1350 1550	50.9 53.6	34.0 37.8	0.67 0.71	2.09 2.19	58.0 61.1	24.4 24.5	2.3 2.6
60	6.0	1.7	3.8	1350 1550	49.9 51.5	3.11 3.13	39.3 40.8	104.2 100.8	4.71 4.83	6.9 6.4	1350 1550	48.2 50.5	31.7 35.2	0.66 0.70	2.49 2.60	56.7 59.4	19.3 19.4	3.2 3.4
	9.0	2.9	6.7	1350 1550	52.1 53.8	3.19 3.21	41.2 42.9	105.8 102.1	4.78 4.91	7.1 6.6	1350 1550	49.3 51.7	32.0 35.5	0.65 0.69	2.37 2.47	57.4 60.1	20.8 20.9	3.0 3.2
	12.0	4.3	10.0	1350 1550	53.4 55.2	3.23 3.24	42.4 44.1	106.6 102.9	4.85 4.99	7.3 6.7	1350 1550	49.8 52.3	33.8 37.5	0.68 0.72	2.31 2.42	57.7 60.5	21.5 21.6	2.7 3.1
70	6.0	1.6	3.7	1350 1550	18.2 56.2	3.23 3.27	44.1 45.0	104.5 103.6	1.65 5.04	7.9 7.3	1350 1550	47.0 49.8	31.8 36.8	0.68 0.74	2.75 2.87	50.2 59.2	17.5 17.4	3.9 4.2
	9.0	2.8	6.5	1350 1550	57.2 59.1	3.33 3.33	45.9 47.7	109.3 105.3	5.03 5.20	8.1 7.5	1350 1550	48.2 50.3	32.2 35.7	0.67 0.71	2.60 2.69	57.1 59.5	18.5 18.7	3.7 4.0
	12.0	4.2	9.7	1350 1550	58.7 60.7	3.37 3.36	47.2 49.2	110.3 106.3	5.10 5.29	8.4 7.7	1350 1550	48.7 50.9	33.5 37.1	0.69 0.73	2.54 2.64	57.4 59.9	19.2 19.3	3.4 3.8
80	6.0	1.5	3.6	1350 1550	57.4 59.4	3.32 3.29	46.1 48.2	109.4 105.5	5.07 5.29	8.7 8.1	1350 1550	44.9 46.7	32.0 35.6	0.71 0.76	3.01 3.11	55.2 57.3	14.9 15.0	5.1 5.4
	9.0	2.7	6.3	1350 1550	60.7 62.8	3.45 3.42	48.9 51.1	111.6 107.5	5.15 5.38	9.0 8.3	1350 1550	46.1 48.0	32.4 35.9	0.70 0.75	2.91 2.99	56.1 58.2	15.9 16.0	4.7 5.1
	12.0	4.1	9.4	1350 1550	62.5 64.6	3.50 3.45	50.5 52.8	112.8 108.6	5.23 5.50	9.3 8.6	1350 1550	46.6 48.6	33.2 36.8	0.71 0.76	2.85 2.94	56.4 58.6	16.4 16.5	4.4 4.9
90	6.0	1.5	3.4	1350 1550	60.4 62.5	3.41 3.36	48.7 51.1	111.4 107.4	5.18 5.45	9.7 9.0	1350 1550	42.8 44.3	32.2 35.8	0.75 0.81	3.31 3.39	54.1 55.9	12.9 13.1	6.3 6.7
	9.0	2.6	6.0	1350 1550	64.2 66.5	3.57 3.50	52.0 54.5	114.0 109.7	5.27 5.56	10.0 9.3	1350 1550	44.1 45.7	32.7 36.2	0.74 0.79	3.22 3.30	55.0 56.9	13.7 13.9	5.9 6.4
	12.0	3.9	9.0	1350 1550	66.2 68.5	3.62 3.53	53.9 56.5	115.4 110.9	5.36 5.69	10.3 9.6	1350 1550	45.2 46.2	33.3 36.5	0.74 0.79	3.20 3.23	56.1 57.2	14.1 14.3	5.5 6.1
100	6.0	1.4	3.3	Operation not recommended							Operation not recommended							
	9.0	2.5	5.8	Operation not recommended							Operation not recommended							
	12.0	3.8	8.7	Operation not recommended							Operation not recommended							
110	6.0	1.4	3.2	Operation not recommended							Operation not recommended							
	9.0	2.4	5.6	Operation not recommended							Operation not recommended							
	12.0	3.6	8.4	Operation not recommended							Operation not recommended							
120	6.0	1.3	3.1	Operation not recommended							Operation not recommended							
	9.0	2.3	5.4	Operation not recommended							Operation not recommended							
	12.0	3.5	8.1	Operation not recommended							Operation not recommended							

11/14/23

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series 3D
3 - 6 Tons 60Hz



Performance Data cont.

048 Low Speed

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F															
		PSI	FT	Airflow cfm	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC MBtu/h	Airflow cfm	TC MBtu/h	SC MBtu/h	S/T Ratio	Power kW	HR MBtu/h	EER	HWC MBtu/h								
20	5.0	1.5	3.5	Operation not recommended							Operation not recommended															
	8.0	2.9	6.8	Operation not recommended							Operation not recommended															
	11.0	4.3	10.0	1150	22.4	2.19	14.9	88.0	2.99	4.1	1350	22.8	2.20	15.3	85.6	3.04	3.7									
30	5.0	1.5	3.4	Operation not recommended							Operation not recommended															
	8.0	2.8	6.6	1150	24.0	2.09	16.9	89.3	3.36	4.2	1350	25.0	2.15	17.7	87.1	3.41	3.8	1150	32.9	18.8	0.57	1.13	36.8	29.2	-	
	11.0	4.2	9.7	1150	26.1	2.19	18.6	91.0	3.49	4.3	1350	26.6	2.20	19.1	88.2	3.54	3.9	1150	33.1	18.8	0.57	1.10	36.8	30.2	-	
40	5.0	1.4	3.3	Operation not recommended							Operation not recommended															
	8.0	2.8	6.4	1150	28.1	2.12	20.9	92.6	3.89	4.5	1350	29.1	2.16	21.7	90.0	3.95	4.2	1150	35.3	22.6	0.64	1.22	39.5	28.9	-	
	11.0	4.1	9.4	1150	29.6	2.17	22.2	93.9	4.00	4.7	1350	30.7	2.21	23.1	91.0	4.06	4.2	1150	35.6	22.6	0.63	1.19	39.6	30.0	-	
50	5.0	1.4	3.2	1150	31.1	2.14	23.8	95.0	4.25	4.8	1350	32.1	2.17	24.7	92.0	4.33	4.4	1150	36.9	25.2	0.68	1.35	41.5	27.3	1.6	
	8.0	2.7	6.2	1150	32.2	2.14	24.9	95.9	4.40	4.9	1350	33.2	2.17	25.8	92.7	4.48	4.5	1150	37.2	25.4	0.68	1.32	41.7	28.3	1.5	
	11.0	3.9	9.1	1150	33.7	2.19	26.2	97.1	4.50	5.1	1350	34.7	2.22	27.1	93.8	4.58	4.6	1150	38.3	28.1	0.73	1.34	42.8	28.5	1.6	
60	5.0	1.3	3.1	1150	34.8	2.16	27.4	98.0	4.72	5.2	1350	35.7	2.18	28.2	94.5	4.81	4.8	1150	37.8	26.0	0.69	1.30	42.3	29.0	1.4	
	8.0	2.6	6.0	1150	36.2	2.16	28.8	99.1	4.92	5.4	1350	37.0	2.17	29.6	95.4	5.01	5.0	1150	38.9	28.8	0.74	1.33	43.4	29.2	1.5	
	11.0	3.8	8.8	1150	37.5	2.20	29.9	100.2	4.98	5.5	1350	38.3	2.22	30.7	96.3	5.07	5.1	1150	36.6	25.2	0.71	1.53	40.8	23.3	2.3	
70	5.0	1.3	3.0	1150	38.5	2.18	31.0	101.0	5.18	5.8	1350	39.1	2.20	31.6	96.8	5.21	5.4	1150	35.6	25.2	0.70	1.49	41.0	24.1	2.1	
	8.0	2.5	5.8	1150	40.1	2.17	32.7	102.3	5.43	6.0	1350	40.9	2.17	33.5	98.0	5.53	5.5	1150	36.9	26.0	0.71	1.48	41.6	24.7	1.9	
	11.0	3.7	8.5	1150	41.2	2.21	33.6	103.2	5.45	6.1	1350	41.9	2.21	34.4	98.7	5.56	5.7	1150	36.9	26.0	0.71	1.48	41.6	24.7	1.9	
80	5.0	1.3	2.9	1150	41.9	2.17	34.5	103.7	5.66	6.5	1350	42.4	2.16	35.1	99.1	5.77	6.0	1150	34.3	25.1	0.73	1.71	40.2	20.1	3.0	
	8.0	2.4	5.6	1150	43.9	2.15	36.5	105.3	5.97	6.7	1350	44.4	2.14	37.1	100.4	6.08	6.1	1150	35.6	28.5	0.80	1.88	41.4	18.9	3.1	
	11.0	3.6	8.2	1150	44.5	2.20	37.0	105.8	5.93	6.9	1350	45.0	2.18	37.5	100.8	6.04	6.3	1150	32.6	24.8	0.82	2.01	40.4	16.6	4.2	
90	5.0	1.2	2.8	1150	45.2	2.16	37.9	106.4	6.14	7.2	1350	45.6	2.13	38.3	101.3	6.26	6.7	1150	32.6	24.8	0.82	1.95	41.0	17.7	4.0	
	8.0	2.3	5.4	1150	47.6	2.14	40.3	108.3	6.51	7.4	1350	47.9	2.11	40.7	102.8	6.64	6.9	1150	33.4	25.6	0.77	1.91	39.9	17.5	3.6	
	11.0	3.4	7.9	1150	47.8	2.18	40.3	108.5	6.41	7.7	1350	48.0	2.15	40.7	102.9	6.54	7.1	1150	34.4	28.3	0.82	1.95	41.0	17.7	4.0	
100	5.0	1.2	2.7	Operation not recommended							Operation not recommended															
	8.0	2.2	5.2	Operation not recommended							Operation not recommended															
	11.0	3.3	7.6	1150	29.1	23.9	0.82	2.50	37.6	11.6	3.6	1350	29.9	26.5	0.89	2.55	38.6	11.7	3.9	1150	29.5	24.5	0.83	2.48	38.0	11.9
110	5.0	1.1	2.6	Operation not recommended							Operation not recommended															
	8.0	2.2	5.0	Operation not recommended							Operation not recommended															
	11.0	3.2	7.3	1150	27.0	23.3	0.86	2.81	36.6	9.6	4.4	1350	27.7	25.7	0.93	2.87	37.5	9.7	4.7	1150	27.4	23.9	0.87	2.79	36.9	9.8
120	5.0	1.1	2.5	Operation not recommended							Operation not recommended															
	8.0	2.1	4.8	Operation not recommended							Operation not recommended															
	11.0	3.1	7.1	1150	24.4	22.9	0.94	3.24	35.4	7.5	5.3	1350	24.8	24.9	1.00	3.32	36.1	7.5	5.7	1150	24.6	22.9	0.93	3.13	35.3	7.8

11/14/23

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Performance Data cont.

048 Water Heating Data

ELT	EST	LGPM	SOURCE 6.0 GPM							SWPD		HWC kBtu/h	SOURCE 9.0 GPM							SWPD		HWC kBtu/h	SOURCE 12.0 GPM							SWPD		HWC kBtu/h
			LLT	HC	KW	HE	COP	LST	PSI	FT HD	LLT		HC	KW	HE	COP	LST	PSI	FT HD	LLT	HC		KW	HE	COP	LST	PSI	FT HD				
80	30	6.0	Operation Not Recommended																													
		9.0	88.7	34.6	2.50	27.3	23.4	21.1	1.7	3.9	4.8	88.9	36.0	2.54	29.1	14.0	23.0	3.2	7.3	4.9	89.2	37.5	2.57	30.9	4.5	25.0	4.6	10.6	5.1			
		12.0	85.6	34.7	2.47	27.6	42.8	21.0	1.7	3.9	4.6	85.9	36.2	2.51	29.5	23.7	23.1	3.2	7.3	4.8	86.2	37.7	2.54	31.4	4.6	25.1	4.6	10.6	4.9			
80	40	6.0	Operation Not Recommended																													
		9.0	90.0	39.8	2.53	32.4	19.1	29.2	1.7	3.9	5.6	90.4	41.5	2.57	34.4	12.1	31.6	3.1	7.1	5.7	90.7	43.2	2.61	36.3	5.1	34.0	4.5	10.3	5.9			
		12.0	86.6	40.0	2.49	32.8	33.8	29.1	1.7	3.9	5.4	86.9	41.8	2.53	34.9	19.5	31.6	3.1	7.1	5.6	87.2	43.6	2.57	37.0	5.3	34.1	4.5	10.3	5.7			
80	50	6.0	95.2	44.7	2.61	37.0	5.0	37.5	1.7	3.8	6.7	95.7	46.6	2.65	39.0	5.2	40.3	3.0	6.9	6.7	96.3	48.5	2.70	41.0	5.4	43.1	4.4	10.0	6.8			
		9.0	91.4	45.0	2.56	37.5	14.9	37.3	1.7	3.8	6.5	91.8	47.0	2.60	39.7	10.3	40.2	3.0	6.9	6.6	92.3	49.0	2.64	41.8	5.7	43.0	4.4	10.0	6.7			
		12.0	87.6	45.3	2.52	38.1	24.7	37.2	1.7	3.8	6.3	87.9	47.4	2.55	40.3	15.3	40.1	3.0	6.9	6.4	88.3	49.5	2.59	42.6	5.9	43.0	4.4	10.0	6.5			
80	60	6.0	96.9	49.8	2.65	42.1	5.5	45.7	1.6	3.8	7.5	97.6	51.9	2.70	44.2	5.7	48.9	2.9	6.8	7.6	98.3	54.1	2.74	46.4	5.9	52.1	4.2	9.8	7.6			
		9.0	92.7	50.2	2.59	42.7	10.6	45.5	1.6	3.8	7.3	93.3	52.4	2.64	45.0	8.4	48.8	2.9	6.8	7.4	93.8	54.7	2.68	47.3	6.2	52.0	4.2	9.8	7.5			
		12.0	88.6	50.6	2.54	43.3	15.7	45.2	1.6	3.8	7.1	88.9	53.0	2.58	45.7	11.1	48.6	2.9	6.8	7.2	89.3	55.3	2.62	48.2	6.6	52.0	4.2	9.8	7.3			
80	70	6.0	98.6	54.9	2.69	47.1	6.0	53.9	1.6	3.7	8.4	99.5	57.3	2.74	49.4	6.2	57.6	2.9	6.6	8.4	100.3	59.7	2.79	51.7	6.5	61.2	4.1	9.5	8.4			
		9.0	94.1	55.4	2.63	47.8	6.3	53.6	1.6	3.7	8.2	94.7	57.9	2.67	50.3	6.6	57.3	2.9	6.6	8.2	95.3	60.5	2.72	52.8	6.8	61.1	4.1	9.5	8.3			
		12.0	89.6	55.9	2.56	48.5	6.6	53.3	1.6	3.7	7.9	90.0	58.6	2.60	51.2	6.9	57.1	2.9	6.6	8.0	90.3	61.2	2.64	53.8	7.2	60.9	4.1	9.5	8.1			
100	30	6.0	Operation Not Recommended																													
		9.0	108.0	32.5	3.18	23.3	12.9	22.4	1.7	3.9	4.5	108.3	33.7	3.22	24.8	8.2	24.1	3.1	7.2	4.6	108.6	35.0	3.26	26.3	3.5	25.7	4.6	10.6	4.8			
		12.0	105.4	32.6	3.14	23.6	22.6	22.4	1.7	3.9	4.4	105.6	33.8	3.18	25.2	13.1	24.1	3.2	7.3	4.5	105.9	35.1	3.22	26.7	3.6	25.8	4.6	10.6	4.6			
100	40	6.0	Operation Not Recommended																													
		9.0	109.2	37.1	3.21	27.8	10.9	30.8	1.7	3.9	5.3	109.5	38.4	3.25	29.3	7.4	32.8	3.1	7.1	5.4	109.9	39.8	3.29	30.8	3.9	34.9	4.5	10.3	5.5			
		12.0	106.2	37.3	3.17	28.3	18.2	30.7	1.7	3.9	5.1	106.5	38.7	3.20	29.9	11.1	32.8	3.1	7.1	5.2	106.7	40.2	3.24	31.5	4.1	34.9	4.5	10.3	5.3			
100	50	6.0	113.8	41.3	3.29	31.8	3.9	39.4	1.7	3.8	6.2	114.2	42.6	3.33	33.1	4.0	41.8	3.0	6.9	6.3	114.6	43.9	3.37	34.5	4.2	44.2	4.3	10.0	6.4			
		9.0	110.5	41.7	3.24	32.4	8.9	39.2	1.7	3.8	6.0	110.8	43.1	3.28	33.9	6.6	41.6	3.0	6.9	6.1	111.1	44.6	3.31	35.4	4.3	44.1	4.3	10.0	6.2			
		12.0	107.1	42.1	3.19	33.0	13.9	39.0	1.7	3.8	5.8	107.3	43.6	3.23	34.7	9.2	41.5	3.0	6.9	5.9	107.6	45.2	3.26	36.4	4.5	44.0	4.4	10.0	6.1			
100	60	6.0	115.4	45.8	3.33	36.2	4.3	47.8	1.6	3.8	7.0	115.8	47.2	3.36	37.5	4.4	50.6	2.9	6.7	7.0	116.2	48.5	3.40	38.9	4.5	53.5	4.2	9.7	7.1			
		9.0	111.7	46.3	3.27	36.9	6.9	47.6	1.6	3.8	6.8	112.0	47.8	3.31	38.5	5.8	50.4	2.9	6.7	6.9	112.3	49.4	3.34	40.0	4.8	53.3	4.2	9.7	6.9			
		12.0	107.9	46.8	3.22	37.6	9.5	47.3	1.6	3.8	6.6	108.2	48.5	3.25	39.4	7.3	50.2	2.9	6.8	6.7	108.5	50.3	3.28	41.2	5.0	53.1	4.2	9.8	6.8			
100	70	6.0	117.0	50.3	3.37	40.6	4.7	56.3	1.6	3.7	7.8	117.4	51.7	3.40	41.9	4.8	59.5	2.9	6.6	7.8	117.8	53.1	3.43	43.2	4.9	62.7	4.1	9.5	7.8			
		9.0	112.9	50.9	3.30	41.5	4.9	56.0	1.6	3.7	7.5	113.2	52.6	3.34	43.0	5.1	59.2	2.9	6.6	7.6	113.6	54.2	3.37	44.6	5.2	62.5	4.1	9.5	7.7			
		12.0	108.8	51.6	3.24	42.3	5.1	55.6	1.6	3.7	7.3	109.1	53.5	3.27	44.2	4.3	58.9	2.9	6.6	7.4	109.4	55.4	3.31	46.1	5.5	62.2	4.1	9.5	7.5			
120	30	6.0	Operation Not Recommended																													
		9.0	127.4	30.4	3.86	19.3	2.3	23.8	1.7	3.9	4.3	127.7	31.4	3.90	20.5	2.4	25.1	3.1	7.2	4.4	128.1	32.5	3.95	21.7	2.5	26.5	4.6	10.5	4.5			
		12.0	125.1	30.4	3.81	19.6	2.4	23.7	1.7	3.9	4.1	125.3	31.5	3.86	20.8	2.5	25.1	3.2	7.3	4.2	125.5	32.5	3.90	22.0	2.5	26.4	4.6	10.6	4.3			
120	40	6.0	Operation Not Recommended																													
		9.0	128.5	34.4	3.89	23.3	2.6	32.4	1.7	3.9	4.9	128.7	35.4	3.93	24.3	2.7	34.1	3.1	7.1	5.0	129.0	36.3	3.97	25.4	2.8	35.8	4.4	10.3	5.1			
		12.0	125.8	34.6	3.84	23.7	2.7	32.3	1.7	3.9	4.8	126.0	35.7	3.88	24.9	2.8	34.0	3.1	7.1	4.9	126.2	36.8	3.92	26.1	2.8	35.7	4.5	10.3	5.0			
120	50	6.0	132.5	38.0	3.97	26.6	2.8	41.3	1.7	3.8	5.8	132.7	38.7	4.00	27.3	2.9	43.3	3.0	6.9	5.9	132.9	39.4	4.04	28.0	2.9	45.4	4.3	9.9	6.0			
		9.0	129.5	38.4	3.92	27.2	2.9	41.0	1.7	3.8	5.6	129.7	39.3	3.95	28.1	3.0	43.1	3.0	6.9	5.7	129.9	40.2	3.99	29.1	3.0	45.2	4.3	10.0	5.8			
		12.0	126.6	38.8	3.87	27.9	3.0	40.8	1.7	3.8	5.4	126.8	39.9	3.90	29.0	3.1	42.9	3.0	6.9	5.5	127.0	41.0	3.94	30.2	3.2	45.0	4.4	10.0	5.6			
120	60	6.0	133.9	41.9	4.01	30.3	3.1	50.0	1.6	3.8	6.4	134.0	42.4	4.03	30.8	3.1	52.4	2.9	6.7	6.5	134.1	42.9	4.05	31.4	3.2	54.8	4.2	9.7	6.6			
		9.0	130.6	42.4	3.95	31.2	3.2	49.7	1.6	3.8	6.2	130.7	43.3	3.98	32.0	3.3	52.1	2.9	6.7	6.3	130.9	44.1	4.00	32.8	3.3	54.5	4.2	9.7	6.4			
		12.0	127.3	43.0	3.89	32.0	3.3	49.4	1.6	3.8	6.1	127.5	44.1	3.92	33.1	3.4	51.8	2.9	6.8	6.2	127.7	45.3	3.95	34.2	3.5	54.2	4.2	9.8	6.3			
120	70	6.0	135.3	45.7	4.04	34.1	3.3	58.7	1.6	3.7	7.1	135.3	46.1	4.06	34.4	3.4	61.5	2.9	6.6	7.2	135.2	46.4	4.07	34.7	3.4	64.2	4.1	9.5	7.2			
		9.0	131.7	46.5	3.98	35.1	3.5	58.3	1.6	3.7	6.9	131.7	47.2	4.00	35.8	3.5	61.1	2.9	6.6	7.0	131.8	48.0	4.02	36.5	3.6	63.9	4.1	9.5	7.1			
		12.0	128.0	47.2	3.92	36.1	3.6	57.9	1.6	3.7	6.7	128.2	48.4	3.95	37.2	3.7	60.7	2.9	6.6	6.8	128.4	49.5	3.97	38.3	3.8	63.5	4.1	9.5	6.9			

*Water heating mode only allows high compressor capacity operation.

- ELT = entering load fluid temperature to heat pump
- LLT = leaving load fluid temperature from heat pump
- LGPM = load flow in gallons per minute
- LWPD = load coax water pressure drop
- EST = entering source fluid temperature to heat pump
- LST = leaving source fluid temperature from heat pump
- HWC = desuperheater capacity
- SWPD = source coax water pressure drop
- PSI = pressure drop in pounds per square inch
- FT HD = pressure drop in feet of head
- KW = kilowatts
- HE = heat extracted in BTUH
- HC = total heating capacity in BTUH
- COP = coefficient of performance [HC/(KW x 3.413)]

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series 3D
3 - 6 Tons 60Hz



Performance Data cont.

060 High Speed

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F																							
		PSI	FT	Airflow cfm	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC MBtu/h	Airflow cfm	TC MBtu/h	SC MBtu/h	S/T Ratio	Power kW	HR MBtu/h	EER	HWC MBtu/h																
20	8.0	2.3	5.4	Operation not recommended							Operation not recommended																							
	12.0	4.9	11.4	Operation not recommended							Operation not recommended																							
	16.0	7.5	17.3	1500	42.0	3.74	29.3	95.9	3.29	5.7	1800	42.8	3.70	30.2	92.0	3.39	5.7																	
30	8.0	2.3	5.3	Operation not recommended							Operation not recommended																							
	12.0	4.8	11.0	1500	44.7	3.67	32.2	97.6	3.57	6.1	1500	55.1	39.2	0.71	2.09	62.2	26.3	-	1800	46.6	3.77	33.8	94.0	3.63	5.6	1800	56.0	42.8	0.76	2.20	63.5	25.4	-	
	16.0	7.3	16.8	1500	48.7	3.90	35.4	100.1	3.66	6.3	1500	55.3	39.2	0.71	2.03	62.3	27.3	-	1800	49.6	3.86	36.4	95.5	3.77	5.7	1800	56.7	42.8	0.75	2.13	64.0	26.6	-	
40	8.0	2.2	5.1	Operation not recommended							Operation not recommended																							
	12.0	4.6	10.7	1500	52.2	3.86	39.0	102.2	3.96	6.6	1500	62.5	41.6	0.67	2.48	71.0	25.2	-	1800	54.0	3.93	40.5	97.8	4.02	6.3	1800	63.7	45.4	0.71	2.60	72.5	24.5	-	
	16.0	7.1	16.3	1500	55.0	3.95	41.5	103.9	4.08	7.1	1500	63.0	41.6	0.66	2.40	71.2	26.2	-	1800	56.9	4.03	43.1	99.2	4.14	6.5	1800	64.4	45.4	0.70	2.52	73.0	25.6	-	
50	8.0	2.1	4.9	1500	57.4	4.04	43.6	105.5	4.16	7.4	1500	68.4	42.0	0.61	2.95	78.5	23.2	3.8	1800	59.2	4.10	45.3	100.5	4.24	6.9	1800	70.3	46.5	0.66	1.00	73.7	23.3	4.0	
	12.0	4.5	10.4	1500	59.5	4.05	45.7	106.7	4.31	7.7	1500	69.0	42.3	0.61	2.87	78.8	24.0	3.6	1800	61.3	4.10	47.3	101.5	4.38	7.1	1800	70.9	46.8	0.66	2.93	80.9	24.2	3.9	
	16.0	6.8	15.8	1500	62.3	4.14	48.1	108.4	4.41	7.9	1500	70.2	43.4	0.62	2.84	79.9	24.7	3.3	1800	64.1	4.19	49.8	103.0	4.48	7.2	1800	72.1	48.0	0.67	2.90	82.0	24.9	3.7	
60	8.0	2.1	4.8	1500	65.1	4.27	50.6	110.2	4.48	8.3	1500	66.8	41.5	0.62	3.24	77.8	20.6	4.6	1800	66.8	4.30	52.1	104.3	4.55	7.7	1800	68.6	45.9	0.67	3.30	79.9	20.8	4.9	
	12.0	4.3	10.0	1500	67.8	4.26	53.2	111.8	4.66	8.6	1500	67.4	41.7	0.62	3.15	78.1	21.4	4.3	1800	69.4	4.28	54.7	105.7	4.75	7.9	1800	69.3	46.2	0.67	3.21	80.2	21.6	4.7	
	16.0	6.6	15.3	1500	70.1	4.35	55.3	113.3	4.72	8.9	1500	68.5	42.8	0.62	3.12	79.2	21.9	4.0	1800	71.7	4.38	56.8	106.9	4.80	8.1	1800	70.4	47.4	0.67	3.19	81.3	22.1	4.4	
70	8.0	2.0	4.6	1500	72.8	4.49	57.5	114.9	4.75	9.4	1500	65.2	40.9	0.63	3.53	77.2	18.5	5.6	1800	73.7	4.41	58.7	107.9	4.90	8.7	1800	67.9	46.6	0.69	3.78	79.4	18.0	6.0	
	12.0	4.2	9.7	1500	76.0	4.47	60.7	116.9	4.98	9.7	1500	65.8	41.1	0.63	3.43	77.5	19.1	5.3	1800	77.4	4.47	62.1	109.8	5.07	8.9	1800	67.6	45.5	0.67	3.50	80.1	19.3	5.7	
	16.0	6.4	14.8	1500	78.0	4.57	62.4	118.1	5.00	10.0	1500	66.8	42.2	0.63	3.40	78.5	19.6	4.9	1800	79.3	4.56	63.7	110.8	5.10	9.2	1800	68.7	46.7	0.68	3.47	80.5	19.8	5.4	
80	8.0	1.9	4.5	1500	80.0	4.72	63.9	119.4	4.96	10.3	1500	62.5	39.9	0.64	3.91	75.8	16.0	7.3	1800	81.1	4.70	65.1	111.7	5.06	9.6	1800	64.3	44.1	0.69	3.98	77.8	16.1	7.7	
	12.0	4.1	9.4	1500	83.8	4.70	67.8	121.8	5.23	10.7	1500	63.1	40.1	0.64	3.81	76.1	16.6	6.8	1800	84.8	4.66	68.9	113.6	5.33	9.9	1800	64.8	44.4	0.68	3.88	78.1	16.7	7.4	
	16.0	6.2	14.3	1500	85.0	4.79	68.7	122.5	5.20	11.0	1500	64.1	41.1	0.64	3.77	77.0	17.0	6.3	1800	85.9	4.75	69.7	114.2	5.30	10.1	1800	65.9	45.5	0.69	3.85	79.0	17.1	7.0	
90	8.0	1.9	4.3	1500	87.2	4.96	70.2	123.8	5.15	11.4	1500	59.9	38.8	0.65	4.29	74.5	14.0	9.3	1800	87.9	4.90	71.2	115.2	5.25	10.5	1800	61.5	42.9	0.70	4.37	76.4	14.1	9.8	
	12.0	3.9	9.0	1500	91.7	4.92	74.9	126.6	5.46	11.7	1500	60.4	39.0	0.65	4.18	74.7	14.5	8.6	1800	92.3	4.85	75.7	117.5	5.57	10.9	1800	62.1	43.2	0.70	4.26	76.6	14.6	9.4	
	16.0	6.0	13.8	1500	92.1	5.02	75.0	126.8	5.38	12.1	1500	61.0	40.8	0.67	4.09	75.0	14.9	8.0	1800	92.5	4.94	75.6	117.6	5.49	11.2	1800	63.1	44.3	0.70	4.22	77.5	15.0	8.9	
100	8.0	1.8	4.2	Operation not recommended							Operation not recommended																							
	12.0	3.8	8.7	Operation not recommended							Operation not recommended																							
	16.0	5.7	13.3	1500	57.3	38.1	0.66	4.67	73.2	12.3	10.5	1800	58.9	42.1	0.72	4.76	75.1	12.4	11.4	1500	58.2	39.0	0.67	4.63	74.0	12.6	9.8	1800	59.9	43.2	0.72	4.72	75.9	12.7
110	8.0	1.7	4.0	Operation not recommended							Operation not recommended																							
	12.0	3.6	8.4	Operation not recommended							Operation not recommended																							
	16.0	5.5	12.8	1500	54.2	37.1	0.68	5.16	71.8	10.5	13.6	1800	55.7	41.1	0.74	5.26	73.6	10.6	14.8	1500	55.1	38.0	0.69	5.11	72.5	10.8	12.7	1800	56.6	42.1	0.74	5.21	74.4	10.9
120	8.0	1.7	3.8	Operation not recommended							Operation not recommended																							
	12.0	3.5	8.1	Operation not recommended							Operation not recommended																							
	16.0	5.3	12.3	1500	51.1	37.4	0.73	5.81	71.0	8.8	16.5	1800	52.1	40.6	0.78	5.96	72.4	8.7	17.9	1500	51.6	37.4	0.72	5.62	70.8	9.2	15.3	1800	52.7	40.6	0.77	5.80	72.5	9.1

11/29/23

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Performance Data cont.

060 Low Speed

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F																						
		PSI	FT	Airflow cfm	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC MBtu/h	Airflow cfm	TC MBtu/h	SC MBtu/h	S/T Ratio	Power kW	HR MBtu/h	EER	HWC MBtu/h															
20	6.0	1.6	3.8	Operation not recommended							Operation not recommended																						
	10.0	3.7	8.7	Operation not recommended							Operation not recommended																						
	14.0	6.0	13.8	1250	25.6	2.78	16.1	89.0	2.70	4.6	1500	26.2	2.76	16.8	86.2	2.78	4.2																
30	6.0	1.6	3.7	Operation not recommended							Operation not recommended																						
	10.0	3.6	8.4	1250	28.0	2.63	19.1	90.8	3.12	4.6	1500	29.2	2.70	20.0	88.0	3.17	4.2	1250	40.6	28.8	0.71	1.31	45.1	31.1	-								
	14.0	5.8	13.4	1250	30.4	2.79	20.9	92.5	3.19	4.7	1500	31.1	2.77	21.6	89.2	3.29	4.3	1250	40.8	28.8	0.71	1.27	45.1	32.2	-								
	1500			1500	41.8	31.5	0.75	1.33	46.3	31.4	-	1500	41.8	31.5	0.75	1.33	46.3	31.4	-														
40	6.0	1.5	3.6	Operation not recommended							Operation not recommended																						
	10.0	3.5	8.2	1250	34.0	2.69	24.8	95.2	3.71	5.1	1500	35.2	2.74	25.8	91.7	3.76	4.6	1250	46.4	31.8	0.69	1.46	51.4	31.7	-								
	14.0	5.6	13.0	1250	35.8	2.75	26.4	96.5	3.81	5.2	1500	37.1	2.81	27.5	92.9	3.87	4.8	1250	46.8	31.8	0.68	1.42	51.6	32.9	-								
	1500			1500	47.8	34.8	0.73	1.49	52.9	32.2	-	1500	47.8	34.8	0.73	1.49	52.9	32.2	-														
50	6.0	1.5	3.5	1250	38.5	2.74	29.2	98.5	4.12	5.3	1500	39.7	2.78	30.3	94.5	4.19	4.9	1250	51.0	33.3	0.65	1.67	56.7	30.6	1.9								
	10.0	3.4	7.9	1250	39.9	2.74	30.5	99.6	4.26	5.5	1500	41.1	2.78	31.6	95.4	4.34	5.1	1250	51.5	33.5	0.65	1.62	57.0	31.7	1.8								
	14.0	5.4	12.6	1250	41.8	2.81	32.2	100.9	4.36	5.7	1500	43.0	2.84	33.3	96.5	4.44	5.2	1250	52.9	34.1	0.70	1.65	58.6	32.0	1.9								
	1500			1500	43.0	2.84	33.3	96.5	4.44	5.2	1500	53.8	38.0	0.71	1.64	59.4	32.8	1.8	1500	53.8	38.0	0.71	1.64	59.4	32.8	1.8							
60	6.0	1.4	3.3	1250	44.4	2.81	34.8	102.9	4.63	6.0	1500	45.5	2.83	35.8	98.1	4.71	5.5	1250	48.7	32.5	0.67	1.95	55.4	25.0	2.6								
	10.0	3.3	7.6	1250	46.2	2.81	36.6	104.2	4.82	6.1	1500	47.2	2.82	37.6	99.2	4.90	5.7	1250	49.2	32.7	0.66	1.90	55.6	25.9	2.5								
	14.0	5.3	12.2	1250	47.8	2.87	38.0	105.4	4.88	6.3	1500	48.9	2.89	39.0	100.2	4.96	5.8	1250	50.0	33.5	0.67	1.88	56.4	26.6	2.3								
	1500			1500	48.9	2.89	39.0	100.2	4.96	5.8	1500	51.4	37.1	0.72	1.92	57.9	26.8	2.5	1500	51.4	37.1	0.72	1.92	57.9	26.8	2.5							
70	6.0	1.4	3.2	1250	50.2	2.88	40.4	107.2	5.10	6.7	1500	50.5	2.91	40.6	101.2	5.09	6.2	1250	46.4	31.7	0.68	2.22	54.0	20.9	3.7								
	10.0	3.2	7.4	1250	52.4	2.87	42.6	108.8	5.35	7.0	1500	53.4	2.87	43.6	102.9	5.45	6.4	1250	47.6	32.7	0.69	2.15	54.9	22.1	3.2								
	14.0	5.1	11.8	1250	53.8	2.94	43.8	109.8	5.37	7.2	1500	54.7	2.93	44.7	103.8	5.47	6.6	1250	48.9	36.2	0.74	2.19	56.4	22.3	3.5								
	1500			1500	54.7	2.93	44.7	103.8	5.47	6.6	1500	48.9	36.2	0.74	2.19	56.4	22.3	3.5	1500	48.9	36.2	0.74	2.19	56.4	22.3	3.5							
80	6.0	1.4	3.1	1250	56.3	2.96	46.2	111.7	5.58	7.4	1500	57.1	2.94	47.1	105.3	5.69	6.9	1250	44.0	30.8	0.70	2.58	52.8	17.0	5.1								
	10.0	3.1	7.1	1250	59.1	2.94	49.0	113.7	5.89	7.7	1500	59.7	2.92	49.8	106.9	6.00	7.1	1250	45.2	34.1	0.76	2.63	54.2	17.2	5.4								
	14.0	4.9	11.4	1250	59.9	3.00	49.6	114.4	5.85	7.9	1500	60.5	2.98	50.3	107.3	5.96	7.3	1250	44.4	31.0	0.70	2.51	52.9	17.6	4.8								
	1500			1500	60.5	2.98	50.3	107.3	5.96	7.3	1500	45.6	34.3	0.75	2.56	54.3	17.8	5.2	1500	45.6	34.3	0.75	2.56	54.3	17.8	5.2							
90	6.0	1.3	3.0	1250	62.5	3.03	52.1	116.3	6.04	8.3	1500	63.0	3.00	52.8	108.9	6.16	7.7	1250	41.6	30.0	0.72	2.94	51.6	14.2	6.8								
	10.0	3.0	6.9	1250	65.7	3.01	55.4	118.7	6.40	8.6	1500	66.1	2.97	56.0	110.8	6.53	7.9	1250	42.7	33.2	0.78	2.99	52.9	14.3	7.2								
	14.0	4.8	11.0	1250	66.0	3.07	55.5	118.9	6.30	8.8	1500	66.3	3.02	56.0	110.9	6.43	8.2	1250	41.9	30.1	0.72	2.86	51.7	14.7	6.4								
	1500			1500	66.3	3.02	56.0	110.9	6.43	8.2	1500	43.8	34.2	0.78	2.89	53.7	15.2	6.6	1500	43.8	34.2	0.78	2.89	53.7	15.2	6.6							
100	6.0	1.3	2.9	Operation not recommended							Operation not recommended																						
	10.0	2.9	6.6	Operation not recommended							Operation not recommended																						
	14.0	4.6	10.6	1250	38.1	28.9	0.76	3.28	49.3	11.6	8.3	1500	39.2	31.9	0.81	3.34	50.6	11.7	8.9	1250	38.8	29.6	0.76	3.25	49.9	11.9	7.7						
	1500			1500	39.9	32.8	0.82	3.32	51.2	12.0	8.5	1500	39.9	32.8	0.82	3.32	51.2	12.0	8.5														
110	6.0	1.2	2.8	Operation not recommended							Operation not recommended																						
	10.0	2.8	6.4	Operation not recommended							Operation not recommended																						
	14.0	4.4	10.2	1250	34.4	27.6	0.80	3.70	47.0	9.3	10.4	1500	35.3	30.5	0.86	3.77	48.2	9.4	11.3	1250	34.9	28.3	0.81	3.67	47.4	9.5	9.7						
	1500			1500	35.9	31.3	0.87	3.74	48.7	9.6	10.7	1500	35.9	31.3	0.87	3.74	48.7	9.6	10.7														
120	6.0	1.2	2.7	Operation not recommended							Operation not recommended																						
	10.0	2.7	6.1	Operation not recommended							Operation not recommended																						
	14.0	4.2	9.8	1250	30.9	27.0	0.87	4.22	45.3	7.3	12.6	1500	31.4	29.3	0.93	4.33	46.2	7.3	13.6	1250	31.1	27.0	0.87	4.08	45.1	7.6	11.7						
	1500			1500	31.8	29.3	0.92	4.21	46.2	7.6	12.9	1500	31.8	29.3	0.92	4.21	46.2	7.6	12.9														

11/29/23

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Performance Data cont.

060 Water Heating Data

ELT	EST	LGPM	SOURCE 8.0 GPM						SWPD		HWC kBtu/h	SOURCE 12.0 GPM						SWPD		HWC kBtu/h	SOURCE 16.0 GPM						SWPD		HWC kBtu/h
			LLT	HC	KW	HE	COP	LST	PSI	FT HD		LLT	HC	KW	HE	COP	LST	PSI	FT HD		LLT	HC	KW	HE	COP	LST	PSI	FT HD	
80	30	8.0	Operation Not Recommended																										
		12.0	88.8	45.8	3.26	35.5	23.0	21.0	2.3	5.2	5.7	88.5	45.9	3.34	37.1	13.7	23.0	4.7	10.8	5.8	88.2	46.0	3.42	38.6	4.5	25.1	7.1	16.4	5.9
		16.0	85.8	45.8	3.24	35.8	4.4	20.9	2.3	5.2	5.5	86.0	45.9	3.32	37.3	4.5	23.0	4.7	10.8	5.6	86.2	46.0	3.39	38.8	4.7	25.1	7.1	16.4	5.7
80	40	8.0	Operation Not Recommended																										
		12.0	90.1	52.3	3.30	42.4	26.5	29.2	2.2	5.1	6.6	90.1	53.5	3.38	44.4	15.8	31.6	4.6	10.6	6.7	90.0	54.6	3.46	46.4	5.2	34.1	7.0	16.1	6.8
		16.0	86.7	52.5	3.27	42.8	20.4	29.1	2.2	5.1	6.3	87.0	53.6	3.35	44.7	12.9	31.6	4.6	10.6	6.5	87.3	54.7	3.42	46.7	5.4	34.1	7.0	16.1	6.6
80	50	8.0	95.3	58.6	3.39	49.0	23.9	37.5	2.2	5.0	7.7	95.3	60.9	3.48	51.4	14.7	40.3	4.5	10.4	7.9	95.4	63.2	3.57	53.9	5.5	43.1	6.8	15.7	8.0
		12.0	91.5	58.9	3.35	49.4	30.1	37.4	2.2	5.0	7.4	91.6	61.1	3.43	51.8	17.9	40.2	4.5	10.4	7.6	91.8	63.3	3.51	54.2	5.8	43.1	6.8	15.7	7.7
		16.0	87.7	59.2	3.30	49.8	36.4	37.3	2.2	5.0	7.2	88.0	61.3	3.38	52.2	21.2	40.2	4.5	10.4	7.3	88.3	63.4	3.46	54.6	6.0	43.0	6.8	15.7	7.5
80	60	8.0	97.0	65.1	3.45	55.9	15.0	45.7	2.1	4.9	8.6	97.5	68.4	3.54	58.7	10.6	48.9	4.4	10.2	8.8	97.9	71.8	3.64	61.6	6.1	52.1	6.7	15.4	9.0
		12.0	92.8	65.5	3.39	56.3	33.7	45.6	2.1	4.9	8.3	93.2	68.7	3.48	59.2	20.0	48.8	4.4	10.2	8.5	93.6	71.9	3.56	62.0	6.4	52.0	6.7	15.4	8.6
		16.0	88.6	65.9	3.33	56.7	52.3	45.5	2.1	4.9	8.0	89.0	69.0	3.41	59.6	29.5	48.7	4.4	10.1	8.2	89.4	72.0	3.49	62.4	6.7	52.0	6.7	15.4	8.3
80	70	8.0	98.8	71.5	3.51	62.8	6.2	53.9	2.1	4.9	9.5	99.7	76.0	3.61	66.1	6.5	57.5	4.3	9.9	9.7	100.5	80.4	3.70	69.3	6.7	61.1	6.5	15.0	9.6
		12.0	94.2	72.1	3.44	63.3	37.3	53.8	2.1	4.9	9.2	94.8	76.3	3.52	66.5	22.1	57.4	4.3	9.9	9.4	95.5	80.6	3.61	69.8	7.0	61.0	6.5	15.0	9.9
		16.0	89.5	72.6	3.36	63.7	68.3	53.7	2.1	4.9	8.8	90.0	76.7	3.44	67.0	37.8	57.3	4.3	9.9	9.0	90.4	80.7	3.52	70.3	7.4	60.9	6.5	15.0	9.2
100	30	8.0	Operation Not Recommended																										
		12.0	108.5	44.4	4.38	31.2	12.7	22.1	2.3	5.3	5.6	108.4	45.0	4.38	32.8	8.1	23.9	4.7	10.8	5.6	108.4	45.6	4.38	33.8	3.6	25.7	7.1	16.4	5.7
		16.0	105.7	44.6	4.20	31.5	3.5	22.1	2.3	5.3	5.4	105.9	45.1	4.27	32.5	3.6	23.9	4.7	10.8	5.4	106.0	45.7	4.34	34.1	3.7	25.7	7.1	16.4	5.5
100	40	8.0	Operation Not Recommended																										
		12.0	109.8	50.5	4.38	37.8	14.7	30.4	2.2	5.2	6.4	109.9	51.9	4.41	39.4	9.4	32.6	4.6	10.6	6.4	110.0	53.3	4.43	41.1	4.1	34.8	7.0	16.1	6.5
		16.0	106.6	50.7	4.23	38.1	11.6	30.3	2.2	5.2	6.1	106.8	52.0	4.30	39.7	7.9	32.5	4.6	10.6	6.2	107.0	53.4	4.37	41.4	4.2	34.7	7.0	16.1	6.3
100	50	8.0	114.7	56.5	4.53	44.0	13.5	38.8	2.2	5.1	7.5	114.9	58.7	4.54	46.0	8.9	41.3	4.5	10.4	7.5	115.2	61.0	4.55	48.0	4.4	43.9	6.8	15.7	7.6
		12.0	111.1	56.6	4.39	44.3	16.6	38.7	2.2	5.1	7.2	111.3	58.8	4.43	46.3	10.6	41.2	4.5	10.4	7.2	111.6	61.0	4.48	48.3	4.5	43.8	6.8	15.7	7.3
		16.0	107.4	56.8	4.25	44.7	19.8	38.6	2.2	5.1	6.9	107.7	58.9	4.33	46.7	12.3	41.2	4.5	10.4	7.0	107.9	61.1	4.40	48.7	4.7	43.8	6.8	15.7	7.1
100	60	8.0	116.4	62.6	4.52	50.5	9.2	47.1	2.1	5.0	8.3	116.9	65.6	4.57	52.8	7.0	50.0	4.4	10.2	8.4	117.4	68.7	4.62	55.2	4.8	52.9	6.7	15.4	8.4
		12.0	112.4	62.7	4.40	50.9	18.6	47.0	2.1	5.0	8.0	112.7	65.7	4.46	53.2	11.8	49.9	4.4	10.2	8.0	113.1	68.7	4.52	55.6	5.0	52.9	6.7	15.4	8.1
		16.0	108.3	62.9	4.28	51.3	28.0	46.9	2.1	5.0	7.6	108.6	65.9	4.35	53.6	16.6	49.8	4.4	10.2	7.7	108.9	68.8	4.43	56.0	5.2	52.8	6.7	15.4	7.9
100	70	8.0	118.2	68.7	4.51	57.0	4.9	55.4	2.1	4.9	9.2	118.9	72.5	4.60	59.7	5.1	58.7	4.3	9.9	9.2	119.6	76.4	4.69	62.4	5.3	62.0	6.5	15.0	9.3
		12.0	113.7	68.9	4.41	57.5	20.5	55.3	2.1	4.9	8.8	114.2	72.7	4.49	60.1	13.0	58.6	4.3	9.9	8.9	114.7	76.5	4.57	62.8	5.5	61.9	6.5	15.0	9.0
		16.0	109.2	69.0	4.31	57.9	36.1	55.2	2.1	4.9	8.4	109.5	72.8	4.38	60.6	20.9	58.5	4.3	9.9	8.5	109.9	76.6	4.46	63.3	5.8	61.8	6.5	15.0	8.7
120	30	8.0	Operation Not Recommended																										
		12.0	128.2	43.1	5.50	27.0	2.5	23.3	2.3	5.3	5.4	128.4	44.1	5.42	28.0	2.5	24.8	4.7	10.9	5.5	128.6	45.2	5.35	29.1	2.6	26.4	7.1	16.4	5.5
		16.0	125.6	43.3	5.16	27.2	2.5	23.2	2.3	5.3	5.2	125.7	44.3	5.23	28.3	2.6	24.8	4.7	10.9	5.3	125.8	45.3	5.29	29.3	2.7	26.3	7.1	16.4	5.3
120	40	8.0	Operation Not Recommended																										
		12.0	129.4	48.7	5.47	33.1	2.8	31.6	2.3	5.2	6.1	129.7	50.3	5.43	34.4	2.9	33.5	4.6	10.6	6.2	129.9	52.0	5.39	35.8	3.0	35.5	7.0	16.1	6.2
		16.0	126.4	48.8	5.18	33.4	2.9	31.6	2.3	5.2	5.9	126.5	50.5	5.25	34.7	3.0	33.5	4.6	10.6	5.9	126.7	52.1	5.32	36.1	3.0	35.4	7.0	16.1	6.0
120	50	8.0	134.2	54.4	5.67	39.0	3.0	40.1	2.2	5.1	7.2	134.6	56.5	5.60	40.5	3.1	42.4	4.5	10.4	7.2	135.0	58.7	5.54	42.1	3.2	44.7	6.8	15.7	7.2
		12.0	130.7	54.4	5.44	39.3	3.1	40.0	2.2	5.1	6.9	131.0	56.6	5.44	40.9	3.2	42.3	4.5	10.4	6.9	131.3	58.8	5.44	42.5	3.3	44.6	6.8	15.7	6.9
		16.0	127.2	54.4	5.21	39.7	3.2	39.9	2.2	5.1	6.6	127.4	56.6	5.27	41.2	3.3	42.2	4.5	10.4	6.6	127.6	58.9	5.34	42.8	3.4	44.5	6.8	15.7	6.7
120	60	8.0	135.8	60.1	5.59	45.1	3.3	48.4	2.2	5.0	8.0	136.3	62.8	5.60	46.9	3.4	51.1	4.4	10.2	7.9	136.8	65.5	5.60	48.8	3.5	53.8	6.7	15.4	7.9
		12.0	131.9	60.0	5.41	45.5	3.5	48.3	2.2	5.0	7.6	132.3	62.8	5.45	47.3	3.6	51.0	4.4	10.2	7.6	132.6	65.6	5.48	49.2	3.7	53.7	6.7	15.4	7.6
		16.0	128.0	59.9	5.23	45.9	3.6	48.3	2.2	5.0	7.2	128.2	62.8	5.30	47.7	3.7	50.9	4.4	10.2	7.3	128.4	65.6	5.37	49.6	3.8	53.6	6.7	15.4	7.4
120	70	8.0	137.5	65.9	5.51	51.2	3.7	56.8	2.1	4.9	8.8	138.1	69.1	5.59	53.3	3.8	59.9	4.3	9.9	8.7	138.6	72.3	5.67	55.4	3.9	62.9	6.5	15.0	8.6
		12.0	133.2	65.7	5.38	51.7	3.8	56.7	2.1	4.9	8.4	133.6	69.0	5.46	53.8	3.9	59.8	4.3	9.9	8.4	134.0	72.4	5.53	55.9	4.0	62.8	6.5	15.0	8.4
		16.0	128.8	65.4	5.25	52.1	3.9	56.6	2.1	4.9	7.9	129.1	68.9	5.32	54.2	4.0	59.7	4.3	9.9	8.0	129.3	72.4	5.39	56.3	4.2	62.7	6.5	15.0	8.1

*Water heating mode only allows high compressor capacity operation.

ELT = entering load fluid temperature to heat pump
 LLT = leaving load fluid temperature from heat pump
 LGPM = load flow in gallons per minute
 LWPD = load coax water pressure drop
 EST = entering source fluid temperature to heat pump
 LST = leaving source fluid temperature from heat pump
 HWC = desuperheater capacity

SWPD = source coax water pressure drop
 PSI = pressure drop in pounds per square inch
 FT HD = pressure drop in feet of head
 KW = kilowatts
 HE = heat extracted in BTUH
 HC = total heating capacity in BTUH
 COP = coefficient of performance [HC/(KW x 3.413)]

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series 3D
3 - 6 Tons 60Hz



Performance Data cont.

072 Low Speed

EWT °F	Flow gpm	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F															
		PSI	FT	Airflow cfm	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC MBtu/h	Airflow cfm	TC MBtu/h	SC MBtu/h	S/T Ratio	Power kW	HR MBtu/h	EER	HWC MBtu/h								
20	10.0	3.2	7.4	Operation not recommended							Operation not recommended															
	13.0	5.1	11.9	Operation not recommended							Operation not recommended															
	16.0	7.4	17.1	1400	35.9	3.53	23.9	93.8	2.98	5.9	1700	36.8	3.48	24.9	90.0	3.10	5.3									
30	10.0	3.1	7.1	Operation not recommended							Operation not recommended															
	13.0	5.0	11.6	1400	38.7	3.35	27.2	95.6	3.38	5.5	1700	40.3	3.44	28.6	92.0	3.43	0.7	1400	55.6	38.6	0.69	1.72	61.5	32.4	-	
	16.0	7.2	16.6	1400	41.9	3.58	29.7	97.7	3.43	5.0	1700	42.9	3.53	30.9	93.4	3.56	5.7	1400	55.9	38.6	0.69	1.67	61.6	33.6	-	
	1700	57.3	42.2	0.74	1.75	63.3	32.7	-																		
40	10.0	3.0	6.9	Operation not recommended							Operation not recommended															
	13.0	4.8	11.2	1400	45.3	3.45	33.5	100.0	3.85	6.5	1700	46.9	3.52	34.9	95.5	3.90	5.9	1400	59.6	40.3	0.68	1.92	66.2	31.0	-	
	16.0	7.0	16.1	1400	47.8	3.54	35.7	101.6	3.96	6.7	1700	49.4	3.61	37.1	96.9	4.02	6.1	1400	60.1	40.3	0.67	1.86	66.4	32.2	-	
	1700	61.4	44.0	0.72	1.95	68.1	31.5	-																		
50	10.0	2.9	6.7	1400	50.1	3.55	38.0	103.1	4.13	6.8	1700	51.7	3.60	39.4	98.1	4.21	6.3	1400	62.1	40.0	0.64	2.18	69.6	28.4	2.3	
	13.0	4.7	10.9	1400	51.9	3.55	39.7	104.3	4.28	7.0	1700	53.4	3.60	41.1	99.1	4.35	6.4	1400	62.7	40.3	0.64	2.13	70.0	29.5	2.1	
	16.0	6.8	15.6	1400	54.3	3.64	41.9	105.9	4.38	7.2	1700	55.9	3.68	43.3	100.4	4.45	6.6	1400	63.7	41.3	0.65	2.11	70.9	30.2	2.0	
	1700	65.5	45.7	0.70	2.15	72.8	30.5	2.2																		
60	10.0	2.8	6.5	1400	57.7	3.68	45.1	108.2	4.59	7.5	1700	59.1	3.71	46.5	102.2	4.67	6.9	1400	59.3	39.2	0.66	2.52	68.0	23.5	3.2	
	13.0	4.5	10.5	1400	60.0	3.67	47.5	109.7	4.79	7.7	1700	61.4	3.70	48.8	103.5	4.87	7.1	1400	59.9	39.4	0.66	2.46	68.3	24.3	3.0	
	16.0	6.6	15.1	1400	62.1	3.76	49.3	111.1	4.84	7.9	1700	63.5	3.78	50.6	104.6	4.93	7.3	1400	60.9	40.4	0.66	2.44	69.2	25.0	2.8	
	1700	62.6	44.8	0.72	2.49	71.0	25.2	3.1																		
70	10.0	2.7	6.3	1400	65.3	3.81	52.3	113.2	5.02	8.3	1700	68.1	3.85	55.0	107.1	5.18	7.7	1400	56.5	38.4	0.68	2.86	66.3	19.7	4.4	
	13.0	4.4	10.2	1400	68.1	3.80	55.2	115.1	5.26	8.5	1700	69.4	3.79	56.4	107.8	5.36	7.9	1400	58.5	43.5	0.74	2.98	68.3	19.6	4.6	
	16.0	6.3	14.7	1400	69.4	3.79	56.4	107.8	5.36	7.9	1700	69.4	3.79	56.4	107.8	5.36	7.9	1400	57.1	38.6	0.68	2.79	66.6	20.4	4.1	
	1700	58.6	42.7	0.73	2.85	68.7	20.6	4.4																		
80	10.0	2.6	6.1	1400	72.5	3.95	59.1	118.0	5.38	9.2	1700	73.5	3.93	60.1	110.0	5.49	8.5	1400	58.0	39.6	0.68	2.77	67.4	21.0	3.8	
	13.0	4.3	9.8	1400	76.0	3.92	62.6	120.3	5.68	9.5	1700	76.9	3.89	63.6	111.9	5.79	8.8	1400	59.6	43.8	0.73	2.82	69.2	21.1	4.2	
	16.0	6.1	14.2	1400	77.1	4.01	63.4	121.0	5.64	9.8	1700	77.9	3.97	64.4	112.4	5.75	9.1	1400	58.0	39.6	0.68	2.77	67.4	21.0	3.8	
	1700	59.6	43.8	0.73	2.82	69.2	21.1	4.2																		
90	10.0	2.5	5.9	1400	79.8	4.09	65.9	122.8	5.72	10.3	1700	80.5	4.04	66.7	113.8	5.84	9.5	1400	52.0	36.2	0.70	3.74	64.7	13.9	8.0	
	13.0	4.1	9.5	1400	84.0	4.05	70.1	125.5	6.07	10.6	1700	84.5	4.00	70.8	116.0	6.19	9.8	1400	53.4	40.0	0.75	3.81	66.4	14.0	8.5	
	16.0	5.9	13.6	1400	84.3	4.14	70.2	125.8	5.98	11.0	1700	84.7	4.07	70.8	116.1	6.10	10.2	1400	52.5	36.4	0.69	3.64	64.9	14.4	7.5	
	1700	54.8	41.3	0.75	3.68	67.4	14.9	7.7																		
100	10.0	2.4	5.6	Operation not recommended							Operation not recommended															
	13.0	4.0	9.1	Operation not recommended							Operation not recommended															
	16.0	5.7	13.2	1400	48.9	35.4	0.72	4.18	63.1	11.7	10.0	1700	50.2	39.2	0.78	4.26	64.7	11.8	10.9	1400	49.7	36.3	0.73	4.14	63.8	12.0
	1700	51.1	40.2	0.79	4.22	65.4	12.1	10.4																		
110	10.0	2.3	5.4	Operation not recommended							Operation not recommended															
	13.0	3.8	8.8	Operation not recommended							Operation not recommended															
	16.0	5.5	12.7	1400	45.3	34.4	0.76	4.71	61.4	9.6	12.7	1700	46.5	38.1	0.82	4.80	62.9	9.7	13.8	1400	46.0	35.3	0.77	4.67	62.0	9.9
	1700	47.3	39.1	0.83	4.76	63.5	9.9	13.1																		
120	10.0	2.3	5.2	Operation not recommended							Operation not recommended															
	13.0	3.7	8.4	Operation not recommended							Operation not recommended															
	16.0	5.3	12.2	1400	42.4	34.8	0.82	5.38	60.8	7.9	15.8	1700	43.2	37.8	0.88	5.52	62.0	7.8	17.1	1400	42.8	34.8	0.81	5.21	60.6	8.2
	1700	43.7	37.8	0.86	5.37	62.0	8.1	16.3																		

11/29/23

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Performance Data cont.

072 Water Heating Data

ELT	EST	LGPM	SOURCE 12.0 GPM							SWPD		HWC kBtu/h	SOURCE 15.0 GPM						SWPD		HWC kBtu/h	SOURCE 18.0 GPM						SWPD		HWC kBtu/h
			LLT	HC	KW	HE	COP	LST	PSI	FT HD	LLT		HC	KW	HE	COP	LST	PSI	FT HD	LLT		HC	KW	HE	COP	LST	PSI	FT HD		
80	30	12.0	Operation Not Recommended																											
		15.0	87.7	54.7	3.89	42.5	4.4	22.7	4.4	10.2	7.6	87.8	55.6	3.97	43.6	4.4	23.8	6.8	15.7	7.8	88.0	56.6	4.06	44.7	4.5	24.9	9.2	21.3	8.0	
		18.0	86.0	54.5	3.89	42.7	4.4	22.7	4.4	10.2	7.4	86.2	55.5	3.98	43.7	4.5	23.8	6.9	15.9	7.4	86.3	56.4	4.06	44.7	4.5	24.9	9.4	21.7	7.4	
80	40	12.0	Operation Not Recommended																											
		15.0	88.9	63.2	3.93	50.9	5.0	31.3	4.3	9.9	8.8	89.1	64.5	4.01	52.3	5.0	32.6	6.6	15.3	9.0	89.3	65.7	4.10	53.6	5.1	33.9	9.0	20.7	9.2	
		18.0	87.0	63.1	3.92	51.1	5.0	31.3	4.3	9.9	8.5	87.2	64.4	4.01	52.4	5.1	32.6	6.7	15.5	8.6	87.4	65.6	4.09	53.7	5.2	33.9	9.1	21.0	8.6	
80	50	12.0	92.2	71.9	3.98	59.2	5.5	39.8	4.2	9.6	10.3	92.5	73.4	4.06	60.8	5.5	41.4	6.4	14.8	10.6	92.8	75.0	4.15	62.4	5.6	42.9	8.6	19.9	10.9	
		15.0	90.1	71.8	3.97	59.4	5.6	39.8	4.2	9.6	9.9	90.3	73.3	4.05	60.9	5.7	41.3	6.4	14.9	10.2	90.6	74.9	4.14	62.5	5.7	42.9	8.7	20.2	10.4	
		18.0	88.0	71.7	3.96	59.6	5.7	39.8	4.2	9.6	9.6	88.2	73.3	4.04	61.1	5.8	41.3	6.5	15.0	9.7	88.4	74.9	4.13	62.7	5.9	42.9	8.8	20.4	9.9	
80	60	12.0	93.6	80.4	4.02	67.6	6.0	48.4	4.0	9.3	11.5	94.0	82.2	4.11	69.4	6.1	50.1	6.2	14.4	11.8	94.3	84.1	4.20	71.3	6.3	51.9	8.4	19.5	12.1	
		15.0	91.3	80.3	4.01	67.8	6.2	48.4	4.0	9.3	11.1	91.6	82.2	4.09	69.6	6.3	50.1	6.3	14.5	11.3	91.9	84.1	4.18	71.4	6.4	51.9	8.5	19.6	11.6	
		18.0	89.0	80.2	3.99	68.0	6.3	48.4	4.0	9.3	10.7	89.2	82.2	4.07	69.8	6.4	50.1	6.3	14.5	10.9	89.5	84.1	4.16	71.6	6.5	51.8	8.5	19.7	11.1	
80	70	12.0	95.0	88.9	4.07	76.0	6.6	56.9	3.9	9.0	12.7	95.5	91.1	4.16	78.1	6.7	58.9	6.1	14.0	13.0	95.9	93.2	4.25	80.1	6.9	60.9	8.3	19.1	13.2	
		15.0	92.5	88.9	4.05	76.2	6.8	56.9	3.9	9.0	12.3	92.9	91.1	4.13	78.3	6.9	58.9	6.1	14.0	12.5	93.2	93.3	4.22	80.4	7.0	60.9	8.2	19.0	12.8	
		18.0	90.0	88.8	4.02	76.4	6.9	56.9	3.9	9.0	11.8	90.3	91.1	4.11	78.5	7.1	58.9	6.1	14.0	12.1	90.5	93.3	4.19	80.6	7.2	60.8	8.2	19.0	12.3	
100	30	12.0	Operation Not Recommended																											
		15.0	107.4	53.2	5.06	37.9	3.4	23.5	4.3	10.0	7.3	107.5	54.0	5.02	38.8	3.5	24.5	6.7	15.4	7.5	107.6	54.9	4.98	39.7	3.5	25.5	9.0	20.8	7.6	
		18.0	105.9	53.1	5.04	38.1	3.5	23.6	4.3	10.0	7.1	106.0	53.9	5.13	38.9	3.5	24.5	6.7	15.5	7.1	106.0	54.8	5.23	39.8	3.6	25.5	9.1	21.0	7.1	
100	40	12.0	Operation Not Recommended																											
		15.0	108.6	61.0	5.11	45.8	3.9	32.4	4.5	10.4	8.3	108.5	62.0	5.08	46.1	4.0	33.4	6.5	15.0	8.5	108.5	63.0	5.06	47.8	4.0	34.4	8.5	19.7	8.6	
		18.0	106.8	60.9	5.10	46.2	4.0	32.6	4.7	11.0	8.1	106.9	61.9	5.17	47.1	4.0	33.6	6.8	15.7	8.1	107.0	62.9	5.25	48.0	4.1	34.6	8.8	20.4	8.2	
100	50	12.0	111.6	68.8	5.17	53.3	4.3	40.8	4.1	9.5	9.7	111.2	69.9	5.08	54.4	4.4	41.8	5.8	13.4	9.9	110.8	71.0	5.00	55.5	4.4	42.8	7.5	17.3	10.1	
		15.0	109.7	68.8	5.17	53.8	4.4	41.3	4.6	10.7	9.4	109.6	69.9	5.15	54.8	4.4	42.3	6.3	14.6	9.5	109.4	71.1	5.13	55.9	4.5	43.2	8.0	18.6	9.7	
		18.0	107.8	68.8	5.17	54.3	4.4	41.7	5.1	11.9	9.1	107.9	69.9	5.22	55.3	4.5	42.7	6.9	15.9	9.1	108.0	71.1	5.27	56.3	4.6	43.7	8.6	19.9	9.2	
100	60	12.0	113.0	76.5	5.21	61.1	4.7	49.5	4.0	9.3	10.8	112.3	77.7	5.17	62.2	4.8	50.5	5.4	12.5	10.9	111.7	79.0	5.13	63.4	4.9	51.4	6.8	15.7	11.1	
		15.0	110.8	76.5	5.22	61.7	4.8	50.2	4.8	11.0	10.4	110.6	77.8	5.21	62.8	4.9	51.1	6.2	14.3	10.6	110.4	79.1	5.21	64.0	5.0	52.1	7.6	17.5	10.7	
		18.0	108.7	76.6	5.23	62.4	4.9	50.8	5.6	12.8	10.1	108.9	78.0	5.26	63.5	5.0	51.8	7.0	16.1	10.2	109.0	79.3	5.29	64.6	5.1	52.8	8.4	19.3	10.3	
100	70	12.0	114.3	84.2	5.25	68.9	5.2	58.2	3.9	9.0	11.9	113.4	85.6	5.26	70.1	5.3	59.1	5.0	11.5	12.0	112.5	87.0	5.26	71.3	5.4	60.1	6.1	14.0	12.1	
		15.0	112.0	84.3	5.27	69.7	5.3	59.0	4.9	11.4	11.5	111.6	85.8	5.28	70.9	5.4	60.0	6.0	13.9	11.6	111.3	87.2	5.28	72.1	5.5	61.0	7.1	16.4	11.7	
		18.0	109.6	84.5	5.30	70.5	5.4	59.9	6.0	13.8	11.1	109.8	86.0	5.30	71.7	5.5	60.9	7.0	16.3	11.2	110.1	87.5	5.31	72.9	5.6	61.9	8.1	18.8	11.4	
120	30	12.0	Operation Not Recommended																											
		15.0	127.2	51.8	6.23	33.3	2.5	24.4	4.3	9.9	7.0	127.2	52.5	6.07	34.0	2.5	25.2	6.5	15.1	7.1	127.2	53.2	5.91	34.7	2.6	26.1	8.8	20.2	7.2	
		18.0	125.8	51.6	6.18	33.5	2.6	24.4	4.3	9.9	6.7	125.8	52.4	6.29	34.2	2.6	25.3	6.5	15.0	6.8	125.7	53.1	6.39	34.8	2.6	26.1	8.8	20.2	6.8	
120	40	12.0	Operation Not Recommended																											
		15.0	128.3	58.8	6.30	40.8	2.8	33.6	4.7	10.9	7.9	128.0	59.5	6.16	41.4	2.9	34.2	6.4	14.7	8.0	127.7	60.2	6.02	42.0	2.9	34.8	8.1	18.6	8.1	
		18.0	126.7	58.7	6.28	41.3	2.9	34.0	5.2	12.0	7.6	126.7	59.5	6.34	41.8	2.9	34.7	6.9	15.9	7.7	126.7	60.3	6.40	42.4	3.0	35.3	8.6	19.8	7.7	
120	50	12.0	131.1	65.7	6.36	47.5	3.1	41.9	4.1	9.4	9.2	130.0	66.4	6.10	48.0	3.2	42.3	5.2	12.1	9.2	128.9	67.0	5.85	48.5	3.2	42.7	6.3	14.7	9.3	
		15.0	129.3	65.8	6.37	48.2	3.2	42.8	5.1	11.8	8.9	128.8	66.5	6.25	48.7	3.2	43.2	6.2	14.4	8.9	128.3	67.2	6.13	49.2	3.3	43.6	7.4	17.0	8.9	
		18.0	127.5	65.9	6.38	49.0	3.2	43.7	6.1	14.2	8.5	127.6	66.6	6.39	49.5	3.3	44.1	7.3	16.8	8.6	127.7	67.4	6.41	50.0	3.3	44.5	8.4	19.4	8.6	
120	60	12.0	132.4	72.6	6.39	54.6	3.4	50.6	4.0	9.2	10.2	130.7	73.2	6.23	55.0	3.5	50.8	4.6	10.5	10.1	129.0	73.9	6.06	55.5	3.6	51.0	5.1	11.8	10.1	
		15.0	130.4	72.8	6.43	55.7	3.5	52.0	5.5	12.8	9.8	129.6	73.5	6.33	56.1	3.6	52.1	6.1	14.1	9.8	128.8	74.2	6.24	56.5	3.6	52.3	6.7	15.4	9.8	
		18.0	128.4	73.0	6.47	56.8	3.5	53.3	7.1	16.3	9.4	128.5	73.8	6.44	57.1	3.6	53.5	7.6	17.7	9.5	128.6	74.6	6.41	57.5	3.7	53.7	8.2	19.0	9.5	
120	70	12.0	133.6	79.5	6.43	61.8	3.7	59.4	3.9	9.0	11.1	131.4	80.1	6.35	62.1	3.8	59.4	3.9	9.0	11.0	129.1	80.7	6.27	62.4	3.9	59.3	3.9	9.0	10.9	
		15.0	131.4	79.8	6.50	63.2	3.8	61.2	6.0	13.8	10.7	130.4	80.5	6.42	63.5	3.9	61.1	6.0	13.8	10.7	129.4	81.2	6.35	63.8	4.0	61.1	6.0	13.8	10.7	
		18.0	129.2	80.1	6.57	64.5	3.9	62.9	8.0	18.5	10.3	129.4	80.9	6.50	64.8	4.0	62.9	8.0	18.5	10.4	129.6	81.7	6.42	65.1	4.1	62.9	8.0	18.5	10.4	

*Water heating mode only allows high compressor capacity operation.

- ELT = entering load fluid temperature to heat pump
- LLT = leaving load fluid temperature from heat pump
- LGPM = load flow in gallons per minute
- LWPD = load coax water pressure drop
- EST = entering source fluid temperature to heat pump
- LST = leaving source fluid temperature from heat pump
- HWC = desuperheater capacity
- SWPD = source coax water pressure drop
- PSI = pressure drop in pounds per square inch
- FT HD = pressure drop in feet of head
- KW = kilowatts
- HE = heat extracted in BTUH
- HC = total heating capacity in BTUH
- COP = coefficient of performance [HC/(KW x 3.413)]

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series 3D
3 - 6 Tons 60Hz



Revision Guide

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