Aston Series Indoor Split

GEOTHERMAL HEAT PUMPS
SINGLE SPEED: 2 TO 6 TONS
DUAL CAPACITY: 2 TO 6 TONS

Submittal Data
English Language
IP/Metric Units
SD1003SG 02/11

GEOSTAR

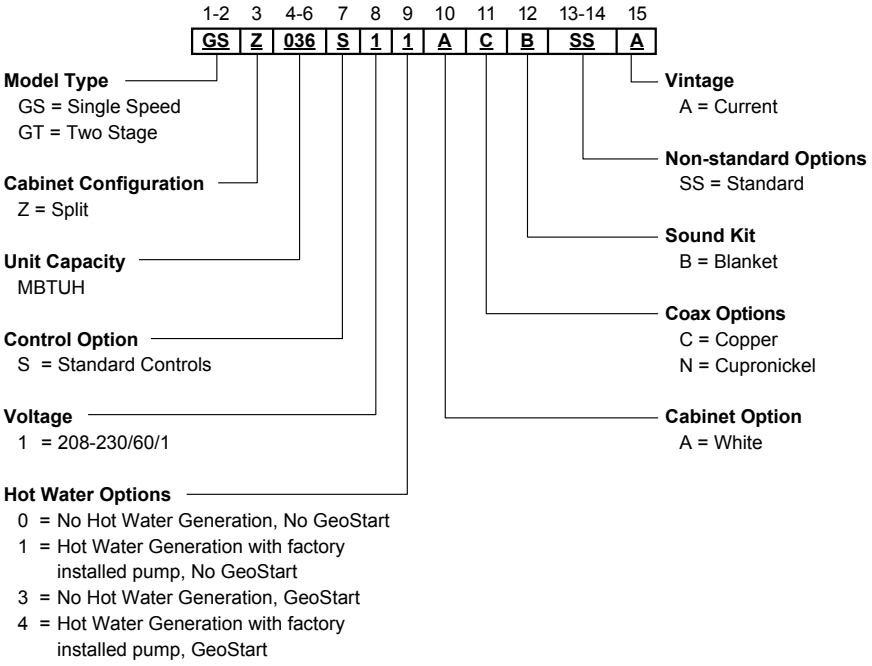
Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

Model Nomenclature



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Aston Series Indoor Split
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GEOSTAR

AHRI Data

AHRI/ASHRAE/ISO 13256-1
English (IP) Units

Model	Capacity Modulation	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
				Cooling Brine EWT 86°F		Heating Brine EWT 68°F		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	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
026	Full	8	900	25,000	14.6	30,500	5.1	27,800	21.8	25,000	4.6	26,200	17.0	19,500	3.9
	Part	7	700	18,500	16.6	22,000	5.6	21,300	28.4	17,700	4.8	21,000	24.5	16,200	4.4
038	Full	9	1200	34,000	14.6	40,100	5.0	34,300	20.4	33,100	4.5	35,000	17.1	25,700	3.8
	Part	8	800	25,000	16.6	30,000	5.3	25,200	27.0	24,400	4.4	27,000	25.3	22,100	4.2
049	Full	12	1500	45,900	14.0	56,800	4.7	50,500	20.2	46,700	4.4	47,700	16.1	37,000	3.8
	Part	11	1300	35,000	16.2	43,000	5.5	37,300	25.8	33,000	4.7	38,000	22.9	30,500	4.3
064	Full	16	1800	56,300	14.7	67,100	4.6	63,800	19.2	55,800	4.3	59,100	15.5	43,200	3.6
	Part	14	1500	42,900	15.7	49,500	5.1	50,000	24.9	41,000	4.3	47,900	22.2	36,800	3.9
072	Full	18	1800	60,400	13.3	80,600	4.6	67,900	17.8	63,100	3.9	62,700	15.0	50,300	3.4
	Part	16	1600	49,700	14.6	60,200	4.8	57,200	22.8	48,400	4.0	53,800	20.0	42,800	3.8
022	Single	8	800	19,700	16.3	23,500	5.3	23,300	27.9	18,900	4.5	21,800	19.5	14,000	3.7
030	Single	8	1000	25,800	17.3	32,000	5.5	28,500	24.9	25,300	4.9	26,800	19.8	19,700	4.0
036	Single	9	1200	31,400	17.6	37,600	5.5	33,900	27.0	30,000	4.7	31,900	19.8	24,000	4.0
042	Single	10	1400	39,000	17.3	41,400	5.3	42,900	25.3	33,000	4.5	39,900	19.9	25,300	3.7
048	Single	12	1500	44,200	15.5	55,400	5.2	48,900	23.8	45,100	4.5	46,200	18.1	35,300	3.8
060	Single	15	1800	54,600	14.4	66,300	4.6	62,300	21.1	52,900	4.1	57,000	17.0	44,500	3.6
070	Single	18	1800	60,200	13.2	76,000	4.2	68,500	19.2	63,000	3.7	63,200	15.1	50,800	3.3

11/12/10

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 compatibility table for matching air handler.

Energy Star Compliance Table

Model	Tier 1		Tier 2	
	Ground Water	Ground Loop	Ground Water	Ground Loop
026	Yes	Yes	Yes	Yes
038	Yes	Yes	Yes	Yes
049	Yes	Yes	Yes	Yes
064	Yes	Yes	Yes	Yes
072	Yes	Yes	Yes	Yes
022	Yes	Yes	Yes	Yes
030	Yes	Yes	Yes	Yes
036	Yes	Yes	Yes	Yes
042	Yes	Yes	Yes	Yes
048	Yes	Yes	Yes	Yes
060	Yes	Yes	Yes	Yes
070	Yes	No	Yes	No

11/12/10

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. Please note there are 3 Tier levels that dictate minimum efficiency for water source heat pumps. Only one tier level is active at a given moment.

Tier 1: 12/1/2009 – 12/31/2010

	EER	COP
Closed loop water-to-air	14.1	3.3
Open loop water-to-air	16.2	3.6
Closed loop water-to-water	15.1	3.0
Open loop water-to-water	19.1	3.4

Tier 2: 1/1/2011 – 12/31/2011

	EER	COP
Closed loop water-to-air	16.1	3.5
Open loop water-to-air	18.2	3.8
Closed loop water-to-water	15.1	3.0
Open loop water-to-water	19.1	3.4

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

ENERGY STAR

AHRI CERTIFIED www.ahridirectory.org Water Source HP ANSI/AHRI/ASHRAE/ISO13256-1

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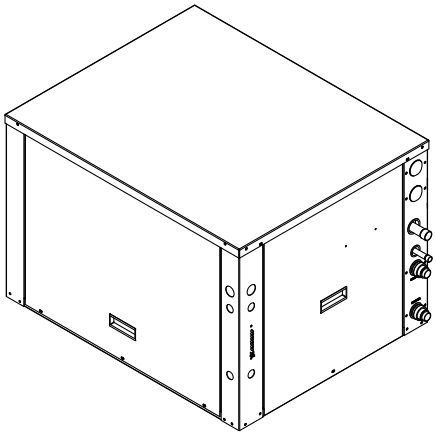
Engineer: _____

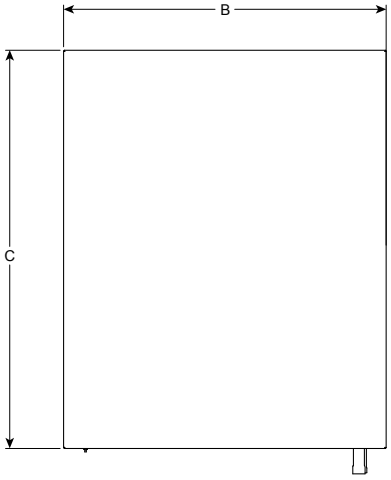
Project Name: _____ Unit Tag: _____

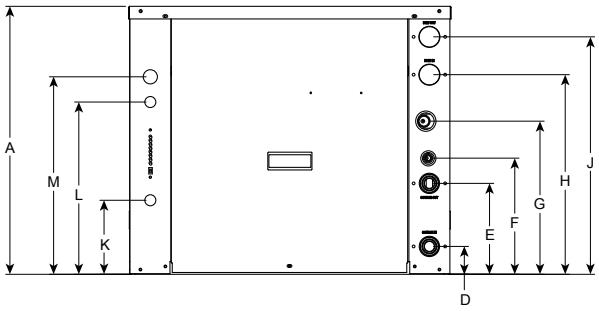
Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

Dimensional Data







Models		Height	Width	Depth	Water In	Water Out	Service Valve		HWG In	HWG Out	Low Voltage	External Pump	Line Voltage
							Liquid	Gas					
		A	B	C	D	E	F	G	H	J	K	L	M
022-030	in.	19.50	22.50	26.50	1.93	6.93	8.44	11.55	13.43	16.43	5.87	13.66	15.66
	cm.	48.90	57.15	67.31	4.90	17.60	21.44	29.34	34.11	41.73	14.91	34.70	39.78
038-072	in.	21.25	25.50	31.50	2.21	7.21	9.21	12.14	15.83	18.83	5.87	13.66	15.66
	cm.	54.00	57.15	80.01	5.61	18.31	23.39	30.84	40.21	47.83	14.91	34.70	39.78

Dimensions are in inches. 7/27/10

Refrigerant line connections extend 2 in. [50.8 mm] beyond the front of the cabinet.

Water lines extend 1.2 in. [30.5 mm] beyond the front of the cabinet.

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Physical Data

Model	022	030	036	042	048	060	070	026	038	049	064	72
Compressor (1 each)	Single Speed Scroll							Dual Capacity Scroll				
Factory Charge R410a, oz [kg]	56 [1.59]	56 [1.59]	56 [1.59]	74 [2.1]	90 [2.55]	92 [2.61]	108 [3.06]	52 [1.47]	56 [1.59]	90 [2.55]	92 [2.61]	104 [2.95]
Coax and Water Piping												
Water Connections Size - Swivel- in [mm]	1 [25.4]							1 [25.4]				
HWG Connection Size - Sweat (I.D.) - in [mm]	1/2 [12.7]							1/2 [12.7]				
Brass Service Valve - Liquid Line - in [mm]	3/8" [9.525]					1/2" [12.7]		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]		5/8" [15.875]	3/4" [19.05]		7/8" [22.225]	
Coax & Piping Water Volume - gal [l]	0.7 [2.6]	1.0 [3.8]	1.3 [4.9]	1.3 [4.9]	1.6 [6.1]	1.6 [6.1]	2.3 [8.7]	0.7 [2.6]	1.3 [4.9]	1.6 [6.1]	1.6 [6.1]	2.3 [8.7]
Weight - Operating, lb [kg]	164 [74]	174 [79]	212 [96]	213 [97]	246 [112]	251 [114]	292 [132]	189 [186]	236 [107]	250 [113]	271 [123]	290 [132]
Weight - Packaged, lb [kg]	184 [83]	194 [88]	232 [105]	233 [106]	266 [121]	271 [123]	312 [142]	209 [95]	256 [116]	270 [122]	291 [132]	310 [141]

1/19/11

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

Electrical Data

Model	Rated Voltage	Voltage Min/Max	Compressor				HWA Pump FLA	Ext Loop FLA	Total Unit FLA	Min Circ Amp	Max Fuse/ HACR
			MCC	RLA	LRA	LRA*					
022	208-230/60/1	197/253	14.0	9.0	48.0	17.0	0.4	5.4	14.8	17.1	25
030	208-230/60/1	197/253	20.0	12.8	58.3	21.0	0.4	5.4	18.6	21.8	30
036	208-230/60/1	197/253	22.0	14.1	73.0	26.0	0.4	5.4	19.9	23.4	35
042	208-230/60/1	197/253	26.0	16.6	79.0	28.0	0.4	5.4	22.4	26.6	40
048	208-230/60/1	197/253	31.0	19.8	109.0	38.0	0.4	5.4	25.6	30.6	50
060	208-230/60/1	197/253	41.2	26.4	134.0	47.0	0.4	5.4	32.2	38.8	60
070	208-230/60/1	197/253	47.0	30.1	158.0	55.0	0.4	5.4	35.9	43.4	70
026	208-230/60/1	197/253	16.0	10.2	52.0	18.0	0.4	5.4	16.0	18.6	25
038	208-230/60/1	197/253	26.0	16.6	82.0	29.0	0.4	5.4	22.4	26.6	40
049	208-230/60/1	197/253	33.0	21.1	96.0	34.0	0.4	5.4	26.9	32.2	50
064	208-230/60/1	197/253	40.0	25.6	118.0	41.0	0.4	5.4	31.4	37.8	60
072	208-230/60/1	197/253	42.5	27.2	150.0	53.0	0.4	5.4	33.0	39.8	60

5/6/09

Rated voltage of 208-230/60/1
HACR circuit breaker in USA only
Min/Max Voltage of 197/253
All fuses Class RK-5
* With optional GeoStart

Contractor: _____ P.O.: _____

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Reference Calculations

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

Legend

ABBREVIATIONS AND DEFINITIONS:

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

Operating Limits

Operating Limits	Cooling		Heating	
	(°F)	(°C)	(°F)	(°C)
Air Limits				
Min. 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
Min. Entering Air	50	10.0	40	4.4
Rated Entering Air db/wb	80.6/66.2	27/19	68	20.0
Max. Entering Air db/wb	110/83	43/28.3	80	26.7
Water Limits				
Min. Entering Water	30	-1.1	20	-6.7
Normal Entering Water	50-110	10-43.3	30-70	-1.1
Max. Entering Water	120	48.9	90	32.2

NOTE: 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.

Contractor: _____ P.O.: _____

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Pressure Drop

Single Speed

Model	GPM	Pressure Drop (psi)				
		30°F	50°F	70°F	90°F	110°F
022	3	0.9	0.9	0.8	0.7	0.7
	4.5	1.7	1.6	1.5	1.4	1.3
	6	2.8	2.7	2.5	2.3	2.2
	8	4.7	4.4	4.1	3.9	3.6
030	4	1.5	1.4	1.3	1.2	1.1
	6	3.0	2.8	2.7	2.5	2.3
	8	5.1	4.8	4.5	4.2	3.9
	10	7.7	7.2	6.8	6.3	5.8
036	5	1.0	1.0	0.9	0.8	0.8
	7	2.1	1.9	1.8	1.7	1.6
	9	3.6	3.3	3.0	2.8	2.6
	12	6.3	5.9	5.5	5.1	4.8
042	5	0.8	0.7	0.7	0.7	0.6
	8	2.1	2.1	1.9	1.8	1.7
	11	4.2	4.1	3.8	3.5	3.3
	14	7.6	6.7	6.3	5.8	5.4
048	6	1.1	1.0	1.0	0.9	0.8
	9	2.3	2.1	2.0	1.9	1.7
	12	3.9	3.7	3.4	3.2	3.0
	16	6.7	6.3	5.9	5.5	5.1
060	9	2.4	2.2	2.1	2.0	1.8
	12	3.9	3.6	3.4	3.2	2.9
	15	5.7	5.3	5.0	4.7	4.3
	20	9.5	8.9	8.3	7.8	7.2
070	12	3.0	2.8	2.6	2.4	2.2
	15	4.4	4.0	3.8	3.5	3.3
	18	6.0	5.5	5.1	4.8	4.4
	24	9.7	9.1	8.5	7.9	7.3

5/30/06

Dual Capacity

Model	GPM	Pressure Drop (psi)				
		30°F	50°F	70°F	90°F	110°F
026 full load	4	1.4	1.3	1.2	1.1	1.0
	6	2.8	2.6	2.4	2.3	2.1
	8	4.7	4.4	4.1	3.8	3.5
	10	7.0	6.6	6.2	5.8	5.3
026 part load	3	0.8	0.7	0.7	0.7	0.6
	5	2.0	1.8	1.7	1.6	1.5
	7	3.6	3.4	3.2	3.0	2.8
	9	5.8	5.5	5.1	4.8	4.4
038 full load	5	1.2	1.2	1.1	1.0	1.0
	7	2.2	2.1	1.9	1.8	1.7
	9	3.4	3.2	3.0	2.8	2.6
	11	4.9	4.6	4.3	4	3.7
038 part load	4	0.9	0.8	0.8	0.7	0.7
	6	1.7	1.6	1.5	1.4	1.3
	8	2.8	2.6	2.5	2.3	2.1
	10	4.2	3.9	3.7	3.4	3.2
049 full load	6	1.2	1.2	1.1	1.0	1.0
	9	2.4	2.2	2.1	2.0	1.8
	12	3.9	3.6	3.4	3.2	2.9
	15	5.7	5.3	5	4.7	4.3
049 part load	5	0.9	0.9	0.8	0.8	0.7
	8	2.0	1.8	1.7	1.6	1.5
	11	3.4	3.1	2.9	2.8	2.5
	14	5.0	4.7	4.4	4.1	3.8
064 full load	8	1.8	1.7	1.6	1.4	1.3
	12	3.8	3.5	3.3	3.0	2.8
	16	6.5	6.0	5.6	5.2	4.8
	20	9.7	9.1	8.5	8.0	7.4
064 part load	6	1.0	0.9	0.9	0.8	0.8
	10	2.6	2.5	2.3	2.1	2.0
	14	5.0	4.7	4.4	4.1	3.8
	18	8.1	7.6	7.1	6.6	6.1
072 full load	12	3.2	3.0	2.8	2.6	2.4
	15	4.5	4.2	4.0	3.7	3.4
	18	6.0	5.7	5.3	4.9	4.6
	21	7.8	7.3	6.8	6.4	5.9
072 part load	10	2.3	2.1	2.0	1.9	1.7
	13	3.6	3.3	3.0	2.8	2.6
	16	5.0	4.6	4.3	4.0	3.7
	19	6.5	6.2	5.8	5.4	5.0

5/30/06

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GEOSTAR

GSZ022 - Performance Data

700 CFM Rated Airflow

EWT °F	Flow gpm	WPD PSI	WPD FT	HEATING - EAT 70°F Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	COOLING - EAT 80/67 °F Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
20	3.0	0.9	2.2	Operation not recommended							Operation not recommended							
	4.5	1.8	4.2															
	6.0	2.9	6.8	600	12.0	1.17	8.0	88.5	2.99	1.6								
				700	12.1	1.18	8.1	86.1	3.00	1.5								
30	3.0	0.9	2.1	Operation not recommended							Operation not recommended							
	4.5	1.7	4.0	600	14.1	1.17	10.0	91.7	3.51	1.7	600	21.2	14.3	0.68	0.63	23.3	33.8	-
				700	14.3	1.18	10.3	89.0	3.55	1.6	700	21.5	15.6	0.73	0.66	23.8	32.6	-
	6.0	2.8	6.6	600	14.3	1.18	10.3	92.1	3.55	1.8	600	21.3	14.3	0.67	0.61	23.4	35.0	-
				700	14.5	1.19	10.5	89.2	3.57	1.6	700	21.8	15.6	0.72	0.64	24.0	34.1	-
40	3.0	0.9	2.0	Operation not recommended							Operation not recommended							
	4.5	1.7	3.9	600	16.6	1.19	12.5	95.6	4.07	1.9	600	21.9	14.3	0.65	0.7	24.2	31.9	-
				700	16.9	1.20	12.8	92.3	4.14	1.8	700	22.3	15.6	0.70	0.7	24.7	31.0	-
	6.0	2.8	6.4	600	16.8	1.21	12.7	96.0	4.09	2.0	600	22.1	14.3	0.65	0.7	24.3	33.2	-
				700	17.2	1.21	13.1	92.7	4.17	1.8	700	22.5	15.6	0.69	0.7	24.9	32.4	-
50	3.0	0.9	2.0	600	18.0	1.21	13.9	97.8	4.37	2.1	600	22.3	14.0	0.63	0.8	25.1	27.8	1.0
				700	18.4	1.21	14.2	94.3	4.45	1.9	700	22.8	15.3	0.67	0.8	25.6	27.2	1.1
	4.5	1.6	3.8	600	18.9	1.23	14.7	99.2	4.49	2.2	600	22.5	14.2	0.63	0.8	25.2	29.5	0.9
				700	19.3	1.23	15.1	95.5	4.57	2.0	700	23.0	15.5	0.67	0.8	25.7	28.9	1.0
	6.0	2.7	6.2	600	19.2	1.25	14.9	99.6	4.49	2.2	600	22.8	14.2	0.62	0.7	25.3	30.8	0.9
				700	19.6	1.24	15.4	96.0	4.63	2.0	700	23.2	15.5	0.67	0.8	25.9	30.1	1.0
60	3.0	0.8	1.9	600	20.3	1.24	16.1	101.3	4.78	2.3	600	21.6	14.0	0.65	0.9	24.7	23.9	1.2
				700	20.8	1.23	16.6	97.5	4.94	2.2	700	22.0	15.2	0.69	0.9	25.2	23.5	1.3
	4.5	1.6	3.7	600	21.3	1.27	16.9	102.8	4.90	2.4	600	21.8	14.1	0.65	0.9	24.7	25.5	1.1
				700	21.8	1.26	17.5	98.8	5.06	2.2	700	22.3	15.3	0.69	0.9	25.3	25.0	1.2
	6.0	2.6	6.0	600	21.6	1.29	17.2	103.4	4.92	2.5	600	22.0	14.1	0.64	0.8	24.9	26.5	1.0
				700	22.2	1.27	17.8	99.3	5.11	2.3	700	22.5	15.3	0.68	0.9	25.4	26.1	1.1
70	3.0	0.8	1.8	600	22.7	1.31	18.2	105.0	5.09	2.6	600	21.3	13.9	0.65	1.0	24.8	20.9	1.5
				700	23.2	1.28	18.8	100.7	5.31	2.4	700	21.7	15.0	0.69	1.1	25.4	20.5	1.6
	4.5	1.5	3.6	600	23.7	1.33	19.1	106.5	5.21	2.7	600	21.5	13.9	0.65	1.0	24.8	22.3	1.4
				700	24.4	1.31	19.9	102.2	5.44	2.5	700	22.0	15.2	0.69	1.0	25.4	21.9	1.5
	6.0	2.5	5.8	600	24.1	1.35	19.5	107.2	5.24	2.8	600	21.7	13.9	0.64	0.9	24.9	23.1	1.3
				700	24.7	1.32	20.2	102.7	5.48	2.6	700	22.2	15.2	0.69	1.0	25.5	22.8	1.4
80	3.0	0.8	1.8	600	24.7	1.35	20.0	108.0	5.35	2.9	600	20.4	13.5	0.66	1.2	24.4	17.6	1.8
				700	25.4	1.31	20.9	103.6	5.65	2.7	700	20.8	14.7	0.70	1.2	24.9	17.4	2.0
	4.5	1.5	3.4	600	25.7	1.38	21.0	109.7	5.47	3.0	600	20.6	13.6	0.66	1.1	24.3	18.8	1.7
				700	26.6	1.34	22.0	105.2	5.79	2.8	700	21.0	14.8	0.71	1.1	24.9	18.6	1.9
	6.0	2.4	5.6	600	26.2	1.40	21.4	110.4	5.50	3.1	600	20.8	13.6	0.65	1.1	24.5	19.6	1.6
				700	27.0	1.36	22.4	105.7	5.83	2.9	700	21.2	14.8	0.70	1.1	25.0	19.3	1.8
90	3.0	0.7	1.7	600	26.7	1.42	21.8	111.2	5.50	3.3	600	18.9	13.2	0.70	1.3	23.3	14.3	2.3
				700	27.6	1.38	22.9	106.5	5.86	3.0	700	19.3	14.3	0.74	1.4	23.9	14.2	2.4
	4.5	1.4	3.3	600	27.8	1.46	22.9	113.0	5.61	3.4	600	19.0	13.3	0.70	1.2	23.3	15.2	2.1
				700	28.8	1.40	24.0	108.1	6.02	3.1	700	19.5	14.5	0.74	1.3	23.8	15.2	2.3
	6.0	2.3	5.4	600	28.3	1.47	23.3	113.6	5.63	3.5	600	19.3	13.3	0.69	1.2	23.4	16.0	2.0
				700	29.4	1.42	24.5	108.8	6.05	3.2	700	19.6	14.5	0.74	1.2	23.9	15.7	2.2
100	3.0	0.7	1.7	Operation not recommended							Operation not recommended							
	4.5	1.4	3.2								600	18.3	13.0	0.71	1.41	23.1	12.9	2.6
											700	18.6	14.1	0.76	1.45	23.6	12.8	2.9
	6.0	2.2	5.2								600	18.5	13.0	0.70	1.37	23.1	13.5	2.5
											700	18.8	14.1	0.75	1.41	23.6	13.3	2.7
110	3.0	0.7	1.6								Operation not recommended							
	4.5	1.3	3.1	Operation not recommended							600	16.4	12.5	0.76	1.59	21.8	10.3	3.2
											700	16.7	13.6	0.81	1.64	22.3	10.2	3.5
	6.0	2.2	5.0								600	16.6	12.5	0.75	1.54	21.8	10.7	3.0
											700	16.9	13.6	0.80	1.59	22.3	10.6	3.3
120	3.0	0.7	1.5								Operation not recommended							
	4.5	1.3	2.9								600	15.2	12.1	0.80	1.80	21.3	8.4	3.9
											700	15.5	13.1	0.85	1.85	21.8	8.4	4.2
	6.0	2.1	4.8								600	15.3	12.1	0.79	1.75	21.3	8.8	3.6
											700	15.6	13.1	0.84	1.80	21.8	8.7	4.0

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GSZ030 - Performance Data

900 CFM Rated Airflow

EWT °F	Flow gpm	WPD PSI	WPD FT	HEATING - EAT 70°F Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	COOLING - EAT 80/67 °F Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
20	4.0	1.5	3.5	Operation not recommended							Operation not recommended							
	6.0	3.1	7.2															
	8.0	5.2	12.1	700	16.5	1.54	11.3	91.9	3.15	2.1								
				900	16.8	1.57	11.5	87.3	3.14	1.9								
30	4.0	1.5	3.4	Operation not recommended							Operation not recommended							
	6.0	3.0	7.0	700	19.0	1.53	13.7	95.1	3.64	2.3	700	23.6	15.1	0.64	0.83	26.5	28.6	-
				900	19.4	1.56	14.1	89.9	3.64	2.1	900	24.3	17.0	0.70	0.90	27.4	27.2	-
	8.0	5.1	11.8	700	19.5	1.54	14.2	95.7	3.69	2.4	700	23.8	15.1	0.63	0.81	26.6	29.3	-
				900	19.8	1.57	14.4	90.3	3.68	2.1	900	24.7	16.9	0.68	0.86	27.6	28.6	-
40	4.0	1.4	3.3	Operation not recommended							Operation not recommended							
	6.0	2.9	6.8	700	22.2	1.58	16.8	99.4	4.12	2.6	700	25.6	16.3	0.64	0.91	28.7	28.3	-
				900	22.7	1.60	17.3	93.4	4.16	2.3	900	26.4	18.3	0.70	0.97	29.7	27.1	-
	8.0	4.9	11.4	700	22.7	1.60	17.3	100.1	4.17	2.6	700	25.8	16.3	0.63	0.89	28.9	29.1	-
				900	23.2	1.62	17.7	93.9	4.21	2.4	900	26.7	18.3	0.68	0.94	29.9	28.3	-
50	4.0	1.4	3.2	700	24.3	1.62	18.8	102.2	4.39	2.8	700	27.4	17.5	0.64	1.05	30.9	26.1	1.3
				900	24.9	1.64	19.3	95.6	4.45	2.6	900	28.2	19.7	0.70	1.11	32.0	25.3	1.4
	6.0	2.8	6.6	700	25.1	1.63	19.6	103.2	4.52	2.9	700	27.4	17.6	0.64	1.01	30.9	27.3	1.2
				900	25.8	1.64	20.2	96.5	4.59	2.6	900	28.2	19.8	0.70	1.07	31.9	26.3	1.3
	8.0	4.8	11.1	700	25.7	1.65	20.1	104.0	4.56	3.0	700	27.7	17.6	0.64	0.99	31.1	28.1	1.1
				900	26.3	1.66	20.7	97.1	4.65	2.7	900	28.6	19.8	0.69	1.05	32.2	27.3	1.2
60	4.0	1.4	3.1	700	27.3	1.69	21.5	106.1	4.73	3.1	700	26.7	17.2	0.64	1.15	30.6	23.3	1.5
				900	28.0	1.69	22.2	98.8	4.85	2.9	900	27.5	19.3	0.70	1.22	31.7	22.6	1.6
	6.0	2.8	6.4	700	28.2	1.71	22.4	107.3	4.84	3.2	700	26.8	17.3	0.65	1.11	30.5	24.2	1.4
				900	29.0	1.70	23.2	99.9	4.99	3.0	900	27.6	19.3	0.70	1.17	31.6	23.6	1.6
	8.0	4.6	10.7	700	28.8	1.73	22.9	108.1	4.87	3.3	700	27.1	17.3	0.64	1.08	30.7	25.0	1.3
				900	29.6	1.72	23.7	100.4	5.03	3.0	900	27.9	19.4	0.69	1.14	31.8	24.4	1.5
70	4.0	1.3	3.0	700	30.4	1.78	24.3	110.2	5.01	3.5	700	26.9	17.4	0.65	1.28	31.2	21.0	1.9
				900	31.2	1.77	25.2	102.1	5.17	3.2	900	27.7	19.5	0.71	1.35	32.3	20.4	2.0
	6.0	2.7	6.2	700	31.4	1.80	25.2	111.5	5.10	3.6	700	26.9	17.5	0.65	1.24	31.1	21.8	1.8
				900	32.3	1.78	26.3	103.3	5.31	3.3	900	27.7	19.5	0.70	1.30	32.2	21.3	1.9
	8.0	4.5	10.4	700	31.9	1.83	25.7	112.3	5.13	3.7	700	27.2	17.5	0.64	1.21	31.4	22.5	1.7
				900	32.9	1.80	26.7	103.9	5.34	3.4	900	28.0	19.6	0.70	1.28	32.4	22.0	1.8
80	4.0	1.3	2.9	700	32.8	1.86	26.5	113.4	5.17	3.9	700	25.7	17.2	0.67	1.43	30.6	18.0	2.4
				900	33.9	1.83	27.6	104.9	5.42	3.6	900	26.5	19.3	0.73	1.50	31.7	17.7	2.5
	6.0	2.6	5.9	700	34.0	1.89	27.6	115.0	5.28	4.1	700	25.9	17.3	0.67	1.38	30.6	18.7	2.2
				900	35.1	1.85	28.8	106.2	5.55	3.7	900	26.7	19.3	0.72	1.44	31.6	18.5	2.4
	8.0	4.3	10.0	700	34.5	1.91	28.0	115.6	5.29	4.2	700	26.1	17.3	0.66	1.35	30.7	19.3	2.1
				900	35.7	1.88	29.3	106.7	5.57	3.9	900	26.9	19.4	0.72	1.42	31.8	19.0	2.3
90	4.0	1.2	2.8	700	35.3	1.96	28.7	116.7	5.28	4.4	700	23.8	16.3	0.68	1.60	29.3	14.9	3.0
				900	36.6	1.91	30.1	107.7	5.60	4.1	900	24.6	18.2	0.74	1.67	30.3	14.8	3.1
	6.0	2.5	5.7	700	36.7	1.99	29.9	118.5	5.40	4.5	700	24.0	16.3	0.68	1.54	29.2	15.6	2.8
				900	38.0	1.94	31.4	109.1	5.73	4.2	900	24.7	18.2	0.74	1.60	30.2	15.5	3.0
	8.0	4.2	9.6	700	37.1	2.02	30.3	119.1	5.39	4.7	700	24.2	16.4	0.68	1.50	29.3	16.1	2.6
				900	38.6	1.97	31.9	109.7	5.75	4.3	900	25.0	18.3	0.73	1.57	30.3	15.9	2.9
100	4.0	1.2	2.7	Operation not recommended							Operation not recommended							
	6.0	2.4	5.5								700	22.9	16.3	0.71	1.74	28.8	13.2	3.4
											900	23.6	18.2	0.77	1.80	29.7	13.1	3.7
	8.0	4.0	9.3								700	23.1	16.4	0.71	1.70	28.9	13.6	3.2
											900	23.8	18.3	0.77	1.76	29.8	13.5	3.5
110	4.0	1.1	2.6	Operation not recommended							Operation not recommended							
	6.0	2.3	5.3								700	19.5	15.3	0.79	1.94	26.1	10.0	4.2
											900	20.1	17.0	0.85	2.00	26.9	10.0	4.5
	8.0	3.9	8.9								700	19.6	15.4	0.78	1.90	26.1	10.4	3.9
											900	20.3	17.1	0.84	1.95	26.9	10.4	4.3
120	4.0	1.1	2.5	Operation not recommended							Operation not recommended							
	6.0	2.2	5.1								700	18.9	14.8	0.78	2.18	26.3	8.6	5.0
											900	19.4	16.4	0.85	2.24	27.1	8.7	5.4
	8.0	3.7	8.6								700	19.0	14.9	0.78	2.14	26.3	8.9	4.6
											900	19.6	16.5	0.84	2.18	27.1	9.0	5.2

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GSZ036 - Performance Data

1250 CFM Rated Airflow

EWT °F	Flow gpm	WPD PSI	WPD FT	HEATING - EAT 70°F Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	COOLING - EAT 80/67 °F Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
20	5.0	1.0	2.4	Operation not recommended							Operation not recommended							
	7.0	2.1	4.9															
	9.0	3.6	8.2	1050	20.1	1.81	14.0	87.7	3.27	2.6								
				1250	20.5	1.84	14.2	85.2	3.26	2.3								
30	5.0	1.0	2.3	Operation not recommended							Operation not recommended							
	7.0	2.1	4.7	1050	22.7	1.83	16.5	90.0	3.65	2.8	1050	27.1	17.5	0.65	1.02	30.6	26.5	-
				1250	23.2	1.86	16.9	87.2	3.65	2.5	1250	27.9	19.6	0.70	1.11	31.6	25.2	-
	9.0	3.5	8.0	1050	23.3	1.84	17.0	90.6	3.71	2.9	1050	27.3	17.4	0.64	1.00	30.7	27.2	-
				1250	23.7	1.88	17.3	87.6	3.69	2.6	1250	28.3	19.5	0.69	1.07	31.9	26.5	-
40	5.0	1.0	2.3	Operation not recommended							Operation not recommended							
	7.0	2.0	4.6	1050	26.9	1.88	20.5	93.7	4.19	3.1	1050	29.7	19.5	0.66	1.12	33.5	26.5	-
				1250	27.5	1.91	21.0	90.4	4.23	2.8	1250	30.5	21.8	0.71	1.20	34.6	25.4	-
	9.0	3.4	7.8	1050	27.5	1.90	21.0	94.3	4.24	3.2	1050	30.0	19.4	0.65	1.10	33.7	27.3	-
				1250	28.1	1.93	21.6	90.8	4.28	2.9	1250	31.0	21.8	0.70	1.17	34.9	26.5	-
50	5.0	1.0	2.2	1050	28.7	1.91	22.2	95.3	4.41	3.4	1050	32.0	21.0	0.66	1.29	36.4	24.8	1.5
				1250	29.4	1.93	22.8	91.8	4.47	3.1	1250	32.9	23.6	0.72	1.37	37.6	24.0	1.6
	7.0	1.9	4.5	1050	29.7	1.92	23.1	96.2	4.54	3.5	1050	32.1	21.2	0.66	1.24	36.3	25.8	1.4
				1250	30.4	1.93	23.8	92.5	4.61	3.2	1250	33.0	23.7	0.72	1.32	37.5	25.0	1.5
	9.0	3.3	7.5	1050	30.3	1.94	23.7	96.8	4.58	3.6	1050	32.4	21.2	0.65	1.22	36.5	26.6	1.3
				1250	31.1	1.95	24.4	93.0	4.67	3.3	1250	33.4	23.7	0.71	1.29	37.8	25.9	1.5
60	5.0	0.9	2.1	1050	32.9	1.98	26.1	99.0	4.86	3.8	1050	31.7	21.5	0.68	1.41	36.5	22.5	1.8
				1250	33.8	1.99	27.0	95.0	4.98	3.5	1250	32.7	24.2	0.74	1.49	37.8	21.9	1.9
	7.0	1.9	4.3	1050	34.0	2.00	27.2	100.0	4.97	3.9	1050	31.8	21.6	0.68	1.36	36.4	23.5	1.7
				1250	35.0	2.00	28.1	95.9	5.12	3.6	1250	32.8	24.2	0.74	1.43	37.7	22.8	1.8
	9.0	3.1	7.3	1050	34.7	2.03	27.8	100.6	5.01	4.0	1050	32.1	21.6	0.67	1.33	36.7	24.2	1.6
				1250	35.6	2.02	28.7	96.4	5.17	3.7	1250	33.2	24.3	0.73	1.40	37.9	23.6	1.8
70	5.0	0.9	2.1	1050	35.8	2.02	28.9	101.6	5.19	4.2	1050	32.2	22.4	0.69	1.56	37.5	20.6	2.3
				1250	36.8	2.01	30.0	97.3	5.36	3.9	1250	33.2	25.1	0.76	1.65	38.8	20.1	2.4
	7.0	1.8	4.2	1050	37.0	2.05	30.0	102.7	5.28	4.4	1050	32.3	22.5	0.70	1.50	37.4	21.5	2.1
				1250	38.2	2.03	31.2	98.3	5.51	4.0	1250	33.2	25.1	0.75	1.58	38.7	21.0	2.3
	9.0	3.0	7.0	1050	37.7	2.08	30.6	103.2	5.31	4.5	1050	32.6	22.5	0.69	1.47	37.6	22.2	2.0
				1250	38.8	2.05	31.8	98.8	5.54	4.2	1250	33.6	25.2	0.75	1.55	38.9	21.7	2.2
80	5.0	0.9	2.0	1050	39.5	2.11	32.3	104.9	5.50	4.8	1050	31.4	22.3	0.71	1.73	37.3	18.1	2.8
				1250	40.8	2.08	33.7	100.2	5.76	4.4	1250	32.4	25.0	0.77	1.81	38.5	17.8	3.0
	7.0	1.7	4.0	1050	41.0	2.14	33.7	106.1	5.61	4.9	1050	31.5	22.3	0.71	1.67	37.2	18.9	2.6
				1250	42.3	2.10	35.2	101.4	5.90	4.5	1250	32.5	25.0	0.77	1.74	38.4	18.6	2.9
	9.0	2.9	6.8	1050	41.6	2.17	34.2	106.7	5.62	5.1	1050	31.8	22.4	0.70	1.63	37.4	19.5	2.4
				1250	43.0	2.13	35.7	101.9	5.93	4.7	1250	32.8	25.1	0.76	1.71	38.7	19.2	2.7
90	5.0	0.8	1.9	1050	41.8	2.15	34.4	106.8	5.69	5.3	1050	29.4	21.7	0.74	2.06	36.4	14.3	3.5
				1250	43.3	2.10	36.1	102.0	6.03	4.9	1250	30.3	24.2	0.80	2.14	37.7	14.2	3.7
	7.0	1.7	3.9	1050	43.4	2.18	35.9	108.2	5.82	5.5	1050	29.6	21.7	0.73	1.98	36.4	15.0	3.3
				1250	44.9	2.13	37.6	103.3	6.17	5.1	1250	30.5	24.2	0.79	2.06	37.5	14.9	3.5
	9.0	2.8	6.6	1050	43.9	2.22	36.3	108.7	5.80	5.7	1050	29.9	21.8	0.73	1.94	36.5	15.4	3.0
				1250	45.6	2.16	38.2	103.8	6.19	5.2	1250	30.8	24.3	0.79	2.02	37.7	15.2	3.4
100	5.0	0.8	1.8	Operation not recommended							Operation not recommended							
	7.0	1.6	3.8								1050	28.8	21.5	0.75	2.06	35.8	14.0	4.0
											1250	29.7	24.0	0.81	2.13	36.9	13.9	4.4
	9.0	2.7	6.3								1050	29.0	21.6	0.75	2.02	35.9	14.4	3.7
											1250	30.0	24.1	0.81	2.09	37.1	14.3	4.2
110	5.0	0.8	1.8								Operation not recommended							
	7.0	1.6	3.6	Operation not recommended							1050	25.9	20.0	0.77	2.28	33.7	11.4	4.9
											1250	26.7	22.3	0.84	2.35	34.7	11.4	5.3
	9.0	2.6	6.1								1050	26.1	20.1	0.77	2.23	33.7	11.7	4.6
											1250	27.0	22.4	0.83	2.30	34.8	11.8	5.1
120	5.0	0.7	1.7								Operation not recommended							
	7.0	1.5	3.5								1050	24.3	19.8	0.81	2.56	33.1	9.5	5.9
											1250	25.1	22.0	0.88	2.62	34.0	9.6	6.4
	9.0	2.5	5.8								1050	24.5	19.9	0.81	2.50	33.0	9.8	5.5
											1250	25.3	22.1	0.87	2.56	34.1	9.9	6.1

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GSZ042 - Performance Data

1350 CFM Rated Airflow

EWT °F	Flow gpm	WPD PSI	WPD FT	HEATING - EAT 70°F Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	COOLING - EAT 80/67 °F Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
20	5.0	0.8	1.9	Operation not recommended							Operation not recommended							
	8.0	2.3	5.3															
	11.0	4.4	10.3	1150	23.3	2.22	15.8	88.8	3.08	3.9								
				1350	23.6	2.20	16.1	86.2	3.14	3.6								
30	5.0	0.8	1.8	Operation not recommended							Operation not recommended							
	8.0	2.2	5.1	1150	27.1	2.26	19.4	91.8	3.52	4.2	1150	37.2	23.1	0.62	1.40	42.0	26.6	-
				1350	27.4	2.24	19.8	88.8	3.59	3.8	1350	39.0	26.0	0.67	1.48	44.0	26.3	-
	11.0	4.3	10.0	1150	27.5	2.26	19.8	92.1	3.57	4.3	1150	37.6	23.1	0.62	1.36	42.2	27.6	-
				1350	27.8	2.24	20.2	89.1	3.64	3.9	1350	39.4	26.0	0.66	1.44	44.3	27.3	-
40	5.0	0.8	1.8	Operation not recommended							Operation not recommended							
	8.0	2.1	4.9	1150	30.9	2.35	22.9	94.9	3.85	4.6	1150	38.8	24.7	0.64	1.49	43.9	26.0	-
				1350	31.3	2.31	23.5	91.5	3.97	4.2	1350	40.5	27.8	0.68	1.57	45.9	25.7	-
	11.0	4.2	9.7	1150	31.4	2.36	23.4	95.3	3.90	4.7	1150	39.2	24.7	0.63	1.45	44.2	27.1	-
				1350	31.9	2.32	24.0	91.9	4.03	4.3	1350	41.0	27.8	0.68	1.53	46.2	26.8	-
50	5.0	0.7	1.7	1150	33.2	2.36	25.2	96.7	4.12	5.0	1150	39.5	25.5	0.65	1.69	45.2	23.4	2.3
				1350	33.8	2.32	25.9	93.2	4.27	4.6	1350	41.1	28.7	0.70	1.78	47.2	23.1	2.4
	8.0	2.1	4.8	1150	34.6	2.42	26.3	97.8	4.19	5.1	1150	39.9	25.8	0.65	1.61	45.4	24.8	2.1
				1350	35.2	2.36	27.1	94.1	4.36	4.7	1350	41.6	29.0	0.70	1.70	47.3	24.5	2.3
	11.0	4.1	9.4	1150	35.3	2.43	27.0	98.4	4.25	5.3	1150	40.3	25.8	0.64	1.56	45.6	25.8	2.0
				1350	35.9	2.38	27.8	94.6	4.43	4.8	1350	42.0	29.0	0.69	1.65	47.6	25.5	2.2
60	5.0	0.7	1.7	1150	36.4	2.43	28.1	99.3	4.39	5.6	1150	39.4	26.2	0.66	1.86	45.7	21.2	2.8
				1350	37.1	2.37	29.1	95.5	4.60	5.1	1350	40.9	29.4	0.72	1.95	47.5	21.0	3.0
	8.0	2.0	4.6	1150	38.0	2.50	29.5	100.6	4.45	5.7	1150	39.9	26.4	0.66	1.77	45.9	22.5	2.6
				1350	38.9	2.43	30.6	96.6	4.69	5.3	1350	41.4	29.7	0.72	1.86	47.7	22.3	2.8
	11.0	3.9	9.1	1150	38.9	2.53	30.3	101.4	4.51	5.9	1150	40.3	26.4	0.66	1.72	46.1	23.5	2.4
				1350	39.8	2.45	31.5	97.3	4.76	5.4	1350	41.8	29.7	0.71	1.80	48.0	23.2	2.7
70	5.0	0.7	1.6	1150	39.5	2.51	31.0	101.8	4.61	6.2	1150	39.5	27.0	0.68	2.05	46.5	19.2	3.5
				1350	40.4	2.43	32.1	97.7	4.88	5.8	1350	40.9	30.3	0.74	2.15	48.3	19.0	3.7
	8.0	1.9	4.5	1150	41.4	2.60	32.6	103.3	4.67	6.4	1150	40.1	27.3	0.68	1.95	46.8	20.6	3.3
				1350	42.4	2.50	33.9	99.1	4.96	5.9	1350	41.6	30.7	0.74	2.04	48.5	20.4	3.5
	11.0	3.8	8.8	1150	42.5	2.63	33.5	104.2	4.73	6.6	1150	40.5	27.3	0.67	1.89	47.0	21.4	3.0
				1350	43.6	2.53	34.9	99.9	5.05	6.1	1350	42.0	30.7	0.73	1.98	48.7	21.2	3.4
80	5.0	0.7	1.6	1150	42.5	2.55	33.8	104.2	4.88	7.0	1150	38.0	26.4	0.69	2.29	45.8	16.6	4.4
				1350	43.6	2.45	35.2	99.9	5.22	6.5	1350	39.3	29.6	0.75	2.39	47.4	16.5	4.7
	8.0	1.9	4.3	1150	44.7	2.66	35.6	106.0	4.93	7.2	1150	38.7	26.7	0.69	2.17	46.1	17.9	4.1
				1350	45.9	2.54	37.3	101.5	5.30	6.7	1350	40.0	29.9	0.75	2.26	47.7	17.7	4.5
	11.0	3.7	8.5	1150	45.9	2.69	36.8	107.0	5.00	7.5	1150	39.1	26.7	0.68	2.10	46.3	18.6	3.8
				1350	47.3	2.57	38.5	102.4	5.39	6.9	1350	40.4	29.9	0.74	2.20	47.9	18.4	4.3
90	5.0	0.7	1.5	1150	45.3	2.60	36.4	106.5	5.11	7.9	1150	36.0	25.6	0.71	2.55	44.7	14.1	5.6
				1350	46.6	2.48	38.2	102.0	5.51	7.3	1350	37.1	28.8	0.78	2.66	46.2	14.0	5.9
	8.0	1.8	4.2	1150	47.8	2.72	38.5	108.5	5.15	8.1	1150	36.7	25.9	0.70	2.41	45.0	15.2	5.2
				1350	49.3	2.58	40.5	103.8	5.59	7.5	1350	37.9	29.1	0.77	2.51	46.4	15.1	5.6
	11.0	3.5	8.2	1150	49.3	2.77	39.9	109.7	5.22	8.4	1150	37.1	25.9	0.70	2.34	45.1	15.8	4.8
				1350	50.9	2.62	42.0	104.9	5.69	7.8	1350	38.3	29.1	0.76	2.44	46.6	15.7	5.3
100	5.0	0.6	1.5	Operation not recommended							Operation not recommended							
	8.0	1.7	4.0								1150	35.4	25.4	0.72	2.69	44.5	13.1	6.4
											1350	36.4	28.5	0.78	2.79	45.9	13.0	7.0
	11.0	3.4	7.9								1150	35.7	25.4	0.71	2.61	44.6	13.7	6.0
											1350	36.7	28.5	0.78	2.71	46.0	13.5	6.6
110	5.0	0.6	1.4								Operation not recommended							
	8.0	1.7	3.9								1150	32.2	23.5	0.73	3.00	42.5	10.7	7.9
											1350	33.1	26.4	0.80	3.11	43.7	10.6	8.5
	11.0	3.3	7.6								1150	32.6	23.5	0.72	2.91	42.5	11.2	7.3
											1350	33.4	26.4	0.79	3.02	43.7	11.1	8.1
120	5.0	0.6	1.3								Operation not recommended							
	8.0	1.6	3.7								1150	30.4	23.2	0.76	3.34	41.8	9.1	9.5
											1350	31.1	26.1	0.84	3.45	42.8	9.0	10.3
	11.0	3.2	7.3								1150	30.7	23.2	0.76	3.24	41.7	9.5	8.8
											1350	31.4	26.1	0.83	3.35	42.8	9.4	9.8

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GSZ048 - Performance Data

1500 CFM Rated Airflow

EWT °F	Flow gpm	WPD PSI	WPD FT	HEATING - EAT 70°F Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	COOLING - EAT 80/67 °F Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
20	6.0	1.1	2.6	Operation not recommended							Operation not recommended							
	9.0	2.3	5.4															
	12.0	4.0	9.2	1300	31.6	2.84	21.9	92.5	3.26	5.3								
				1500	32.0	2.82	22.4	89.7	3.33	4.8								
30	6.0	1.1	2.5	Operation not recommended							Operation not recommended							
	9.0	2.3	5.3	1300	36.3	2.92	26.3	95.8	3.63	5.6	1300	47.5	29.7	0.63	1.61	53.0	29.5	-
				1500	36.7	2.90	26.8	92.6	3.71	5.2	1500	49.7	33.4	0.67	1.71	55.6	29.2	-
	12.0	3.9	9.0	1300	36.8	2.93	26.8	96.2	3.68	5.8	1300	48.0	29.7	0.62	1.57	53.3	30.7	-
				1500	37.2	2.90	27.3	93.0	3.76	5.3	1500	50.3	33.4	0.66	1.66	55.9	30.3	-
40	6.0	1.1	2.5	Operation not recommended							Operation not recommended							
	9.0	2.2	5.1	1300	41.7	3.05	31.3	99.7	4.00	6.2	1300	49.4	31.4	0.64	1.77	55.4	27.9	-
				1500	42.2	3.00	32.0	96.1	4.13	5.7	1500	51.6	35.3	0.68	1.87	57.9	27.6	-
	12.0	3.8	8.7	1300	42.4	3.06	31.9	100.2	4.06	6.4	1300	49.9	31.4	0.63	1.72	55.7	29.0	-
				1500	43.0	3.01	32.7	96.5	4.19	5.8	1500	52.1	35.3	0.68	1.81	58.3	28.7	-
50	6.0	1.0	2.4	1300	44.7	3.09	34.1	101.8	4.24	6.7	1300	50.4	32.6	0.65	2.06	57.5	24.5	2.8
				1500	45.4	3.02	35.1	98.0	4.40	6.2	1500	52.5	36.6	0.70	2.17	59.9	24.2	3.0
	9.0	2.1	4.9	1300	46.5	3.16	35.7	103.1	4.31	6.9	1300	51.0	32.9	0.65	1.97	57.7	25.9	2.6
				1500	47.3	3.08	36.7	99.2	4.49	6.4	1500	53.1	37.0	0.70	2.07	60.1	25.7	2.9
	12.0	3.7	8.4	1300	47.4	3.18	36.6	103.8	4.37	7.2	1300	51.5	32.9	0.64	1.91	58.0	27.0	2.5
				1500	48.2	3.10	37.7	99.8	4.56	6.5	1500	53.6	37.0	0.69	2.01	60.5	26.7	2.7
60	6.0	1.0	2.3	1300	49.1	3.18	38.2	105.0	4.52	7.6	1300	49.2	32.2	0.65	2.29	57.0	21.5	3.5
				1500	50.0	3.10	39.5	100.9	4.74	7.0	1500	51.2	36.2	0.71	2.40	59.3	21.3	3.7
	9.0	2.1	4.8	1300	51.3	3.28	40.1	106.5	4.59	7.8	1300	49.9	32.5	0.65	2.18	57.3	22.9	3.2
				1500	52.3	3.18	41.5	102.3	4.83	7.2	1500	51.8	36.6	0.71	2.28	59.6	22.7	3.5
	12.0	3.5	8.2	1300	52.5	3.31	41.2	107.4	4.65	8.0	1300	50.4	32.5	0.65	2.11	57.6	23.8	3.0
				1500	53.6	3.20	42.7	103.1	4.90	7.4	1500	52.3	36.6	0.70	2.22	59.9	23.6	3.3
70	6.0	1.0	2.2	1300	53.6	3.29	42.4	108.2	4.78	8.5	1300	49.0	32.6	0.66	2.56	57.8	19.1	4.3
				1500	54.7	3.17	43.9	103.8	5.05	7.9	1500	50.8	36.6	0.72	2.68	59.9	18.9	4.6
	9.0	2.0	4.6	1300	56.1	3.40	44.5	110.0	4.84	8.8	1300	49.8	32.9	0.66	2.43	58.1	20.5	4.1
				1500	57.4	3.27	46.3	105.5	5.14	8.1	1500	51.6	37.0	0.72	2.55	60.3	20.3	4.4
	12.0	3.4	7.9	1300	57.6	3.44	45.8	111.0	4.90	9.0	1300	50.3	32.9	0.65	2.36	58.3	21.3	3.8
				1500	59.0	3.31	47.7	106.4	5.22	8.3	1500	52.1	37.0	0.71	2.47	60.5	21.1	4.2
80	6.0	0.9	2.1	1300	57.1	3.37	45.6	110.7	4.97	9.6	1300	47.0	31.9	0.68	2.87	56.8	16.4	5.5
				1500	58.6	3.23	47.5	106.2	5.31	8.8	1500	48.6	35.8	0.74	3.00	58.8	16.2	5.8
	9.0	1.9	4.5	1300	60.1	3.50	48.1	112.8	5.03	9.8	1300	47.8	32.2	0.67	2.72	57.1	17.6	5.1
				1500	61.7	3.35	50.3	108.1	5.40	9.1	1500	49.4	36.2	0.73	2.84	59.1	17.4	5.5
	12.0	3.3	7.6	1300	61.8	3.55	49.7	114.0	5.10	10.1	1300	48.3	32.2	0.67	2.64	57.3	18.3	4.8
				1500	63.5	3.39	51.9	109.2	5.49	9.4	1500	49.9	36.2	0.72	2.75	59.3	18.1	5.3
90	6.0	0.9	2.1	1300	60.7	3.45	48.9	113.2	5.15	10.7	1300	43.8	30.4	0.69	3.21	54.8	13.7	6.9
				1500	62.4	3.29	51.2	108.5	5.56	9.9	1500	45.2	34.1	0.76	3.34	56.6	13.5	7.3
	9.0	1.9	4.3	1300	64.1	3.61	51.7	115.6	5.20	11.1	1300	44.7	30.7	0.69	3.03	55.1	14.8	6.4
				1500	66.0	3.43	54.3	110.7	5.64	10.2	1500	46.1	34.5	0.75	3.16	56.9	14.6	7.0
	12.0	3.2	7.4	1300	66.1	3.67	53.5	117.0	5.27	11.4	1300	45.2	30.7	0.68	2.94	55.2	15.4	6.0
				1500	68.1	3.48	56.2	112.0	5.73	10.6	1500	46.6	34.5	0.74	3.06	57.0	15.2	6.6
100	6.0	0.9	2.0	Operation not recommended							Operation not recommended							
	9.0	1.8	4.2								1300	43.2	30.3	0.70	3.40	54.8	12.7	8.0
											1500	44.4	34.0	0.77	3.53	56.5	12.6	8.6
	12.0	3.1	7.1								1300	43.6	30.3	0.69	3.30	54.9	13.2	7.4
											1500	44.9	34.0	0.76	3.42	56.6	13.1	8.2
110	6.0	0.8	1.9	Operation not recommended							Operation not recommended							
	9.0	1.7	4.0								1300	39.1	28.1	0.72	3.78	52.0	10.3	9.8
											1500	40.1	31.6	0.79	3.92	53.4	10.2	10.6
	12.0	3.0	6.8								1300	39.5	28.1	0.71	3.67	52.0	10.8	9.1
											1500	40.5	31.6	0.78	3.80	53.5	10.6	10.1
120	6.0	0.8	1.8	Operation not recommended							Operation not recommended							
	9.0	1.7	3.8								1300	37.0	27.6	0.74	4.22	51.4	8.8	11.8
											1500	37.9	31.0	0.82	4.36	52.7	8.7	12.8
	12.0	2.8	6.6								1300	37.4	27.6	0.74	4.09	51.3	9.1	11.0
											1500	38.2	31.0	0.81	4.23	52.7	9.0	12.2

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GSZ060 - Performance Data

2000 CFM Rated Airflow

EWT °F	Flow gpm	WPD PSI	WPD FT	HEATING - EAT 70°F Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	COOLING - EAT 80/67 °F Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
20	9.0	2.5	5.7	Operation not recommended							Operation not recommended							
	12.0	4.0	9.2															
	15.0	5.9	13.5	1500	36.3	3.63	23.9	92.4	2.93	6.2								
				2000	37.0	3.69	24.4	87.1	2.93	5.7								
30	9.0	2.4	5.5	Operation not recommended							Operation not recommended							
	12.0	3.9	8.9	1500	40.9	3.63	28.5	95.2	3.30	6.7	1500	62.7	41.1	0.66	2.09	69.8	30.0	-
				2000	41.7	3.70	29.1	89.3	3.30	6.1	2000	60.7	42.3	0.70	2.53	69.3	24.0	-
	15.0	5.7	13.1	1500	42.1	3.72	29.4	96.0	3.31	6.9	1500	63.4	41.2	0.65	2.09	70.5	30.3	-
				2000	43.0	3.79	30.0	89.9	3.32	6.2	2000	61.7	41.9	0.68	2.37	69.8	26.1	-
40	9.0	2.3	5.3	Operation not recommended							Operation not recommended							
	12.0	3.7	8.7	1500	50.1	3.80	37.1	100.9	3.86	7.3	1500	62.5	41.6	0.66	2.32	70.4	26.9	-
				2000	51.3	3.88	38.0	93.7	3.87	6.7	2000	62.0	43.4	0.70	2.72	71.2	22.8	-
	15.0	5.5	12.7	1500	51.5	3.89	38.2	101.8	3.88	7.6	1500	63.2	41.7	0.66	2.32	71.1	27.3	-
				2000	52.5	3.95	39.0	94.3	3.89	6.9	2000	62.7	43.2	0.69	2.57	71.4	24.4	-
50	9.0	2.2	5.2	1500	53.8	3.94	40.4	103.2	4.00	7.9	1500	62.7	42.4	0.68	2.72	72.0	23.0	3.3
				2000	54.4	3.99	40.8	95.2	4.00	7.3	2000	62.9	44.0	0.70	3.05	73.3	20.7	3.5
	12.0	3.6	8.4	1500	54.4	3.93	41.0	103.6	4.05	8.2	1500	62.9	42.5	0.68	2.63	71.8	23.9	3.1
				2000	55.8	4.03	42.1	95.8	4.06	7.5	2000	62.9	44.5	0.71	2.99	73.1	21.1	3.3
	15.0	5.3	12.3	1500	55.8	4.01	42.1	104.4	4.07	8.4	1500	63.5	42.7	0.67	2.61	72.4	24.3	2.9
				2000	56.8	4.07	42.9	96.3	4.09	7.7	2000	63.6	44.5	0.70	2.85	73.3	22.3	3.2
60	9.0	2.2	5.0	1500	61.8	4.08	47.9	108.2	4.44	8.9	1500	59.5	40.5	0.68	2.95	69.6	20.2	4.0
				2000	62.8	4.11	48.8	99.1	4.48	8.2	2000	60.9	43.0	0.71	3.23	71.9	18.9	4.3
	12.0	3.5	8.1	1500	63.3	4.10	49.3	109.1	4.53	9.2	1500	59.7	40.7	0.68	2.84	69.4	21.0	3.8
				2000	64.2	4.15	50.0	99.7	4.53	8.5	2000	61.2	43.2	0.71	3.14	71.9	19.5	4.1
	15.0	5.2	11.9	1500	64.7	4.17	50.5	109.9	4.55	9.5	1500	60.3	40.9	0.68	2.81	69.9	21.5	3.5
				2000	66.0	4.22	51.6	100.6	4.59	8.7	2000	61.5	43.4	0.71	3.02	71.8	20.4	3.9
70	9.0	2.1	4.9	1500	65.1	4.24	50.7	110.2	4.50	10.0	1500	57.3	39.6	0.69	3.31	68.5	17.3	5.1
				2000	66.5	4.26	52.0	100.8	4.57	9.3	2000	59.8	43.0	0.72	3.56	71.9	16.8	5.4
	12.0	3.4	7.9	1500	67.4	4.28	52.8	111.6	4.61	10.3	1500	57.5	39.9	0.69	3.18	68.4	18.1	4.7
				2000	67.8	4.30	53.1	101.4	4.61	9.5	2000	60.4	43.0	0.71	3.43	72.1	17.6	5.1
	15.0	5.0	11.6	1500	68.7	4.35	53.9	112.4	4.63	10.6	1500	58.1	40.2	0.69	3.14	68.8	18.5	4.4
				2000	70.3	4.39	55.3	102.5	4.69	9.8	2000	60.4	43.5	0.72	3.33	71.7	18.2	4.9
80	9.0	2.0	4.7	1500	72.6	4.34	57.7	114.8	4.89	11.3	1500	55.7	39.1	0.70	3.69	68.3	15.1	6.4
				2000	73.9	4.35	59.0	104.2	4.98	10.4	2000	57.2	41.8	0.73	3.93	70.6	14.5	6.8
	12.0	3.3	7.6	1500	75.8	4.42	60.7	116.8	5.03	11.6	1500	56.0	39.4	0.70	3.54	68.1	15.8	6.0
				2000	76.5	4.37	61.6	105.4	5.12	10.7	2000	57.7	41.8	0.72	3.75	70.5	15.4	6.5
	15.0	4.8	11.2	1500	77.0	4.47	61.8	117.6	5.05	12.0	1500	56.6	39.8	0.70	3.49	68.5	16.2	5.5
				2000	78.6	4.51	63.2	106.4	5.11	11.0	2000	58.0	42.3	0.73	3.64	70.4	16.0	6.1
90	9.0	2.0	4.5	1500	74.6	4.50	59.3	116.1	4.85	12.7	1500	52.9	37.9	0.72	4.06	66.8	13.0	8.0
				2000	75.8	4.50	60.5	105.1	4.94	11.7	2000	53.3	39.9	0.75	4.30	68.0	12.4	8.5
	12.0	3.2	7.3	1500	78.6	4.61	62.9	118.5	5.00	13.0	1500	53.3	38.3	0.72	3.90	66.6	13.7	7.5
				2000	79.5	4.50	64.2	106.8	5.18	12.1	2000	53.8	39.9	0.74	4.07	67.7	13.2	8.1
	15.0	4.7	10.8	1500	79.6	4.66	63.8	119.2	5.01	13.4	1500	53.8	38.7	0.72	3.83	66.9	14.1	7.0
				2000	81.0	4.69	65.1	107.5	5.07	12.5	2000	54.4	40.3	0.74	3.95	67.8	13.8	7.7
100	9.0	1.9	4.4	Operation not recommended							Operation not recommended							
	12.0	3.1	7.1								1500	51.2	37.6	0.73	4.44	66.3	11.5	9.3
											2000	51.7	39.2	0.76	4.55	67.2	11.4	10.1
	15.0	4.5	10.4								1500	51.7	38.0	0.74	4.34	66.5	11.9	8.6
											2000	52.2	39.6	0.76	4.43	67.3	11.8	9.6
110	9.0	1.8	4.2								Operation not recommended							
	12.0	2.9	6.8	Operation not recommended							1500	46.8	34.9	0.75	4.92	63.6	9.5	11.4
											2000	47.3	36.4	0.77	4.97	64.2	9.5	12.3
	15.0	4.3	10.0								1500	47.3	35.4	0.75	4.80	63.6	9.9	10.6
											2000	47.8	36.8	0.77	4.85	64.3	9.9	11.7
120	9.0	1.7	4.0								Operation not recommended							
	12.0	2.8	6.5								1500	45.1	35.5	0.79	5.60	64.1	8.1	13.8
											2000	44.1	36.1	0.82	5.61	63.3	7.9	14.9
	15.0	4.2	9.6								1500	45.5	36.0	0.79	5.44	64.0	8.4	12.8
											2000	44.9	36.5	0.81	5.45	63.5	8.2	14.2

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GSZ070 - Performance Data

2200 CFM Rated Airflow

		WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
EWT °F	Flow gpm	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	3.0	7.0	Operation not recommended							Operation not recommended							
	15.0	4.4	10.2															
	18.0	6.0	13.9	1700	43.8	4.87	27.1	93.8	2.63	7.5								
				2200	44.8	4.97	27.9	88.9	2.64	6.8								
30	12.0	3.0	6.8	Operation not recommended							Operation not recommended							
	15.0	4.3	9.9	1700	50.5	4.98	33.5	97.5	2.97	7.9	1700	58.6	36.7	0.63	2.41	66.8	24.4	-
				2200	51.7	5.09	34.3	91.8	2.97	7.3	2200	62.4	41.9	0.67	2.81	72.0	22.2	-
	18.0	5.8	13.5	1700	50.7	5.00	33.6	97.6	2.97	8.2	1700	58.9	36.2	0.62	2.40	67.1	24.5	-
				2200	51.9	5.11	34.5	91.8	2.98	7.4	2200	62.8	41.4	0.66	2.80	72.3	22.4	-
40	12.0	2.9	6.6	Operation not recommended							Operation not recommended							
	15.0	4.1	9.6	1700	58.9	5.20	41.1	102.1	3.32	8.8	1700	61.8	38.9	0.63	2.64	70.8	23.4	-
				2200	60.3	5.26	42.4	95.4	3.36	8.0	2200	65.6	44.5	0.68	3.05	75.9	21.5	-
	18.0	5.7	13.1	1700	59.3	5.23	41.4	102.3	3.32	9.0	1700	62.3	38.8	0.62	2.63	71.2	23.7	-
				2200	60.7	5.28	42.7	95.6	3.37	8.2	2200	66.1	44.4	0.67	3.03	76.4	21.8	-
50	12.0	2.8	6.4	1700	64.9	5.36	46.6	105.4	3.55	9.5	1700	64.8	40.9	0.63	3.03	75.1	21.4	3.6
				2200	66.5	5.38	48.1	98.0	3.62	8.8	2200	68.5	46.8	0.68	3.45	80.2	19.8	3.8
	15.0	4.0	9.3	1700	66.2	5.41	47.8	106.1	3.59	9.8	1700	65.1	41.1	0.63	2.94	75.1	22.1	3.4
				2200	67.9	5.42	49.4	98.6	3.67	9.0	2200	68.8	47.0	0.68	3.35	80.2	20.5	3.6
	18.0	5.5	12.7	1700	66.8	5.45	48.2	106.4	3.59	10.1	1700	65.7	41.3	0.63	2.91	75.7	22.6	3.1
				2200	68.5	5.45	49.9	98.8	3.68	9.2	2200	69.5	47.3	0.68	3.32	80.8	21.0	3.5
60	12.0	2.7	6.2	1700	71.9	5.57	52.9	109.2	3.78	10.6	1700	62.3	39.6	0.64	3.33	73.6	18.7	4.4
				2200	73.8	5.54	54.9	101.1	3.90	9.8	2200	65.6	45.3	0.69	3.75	78.4	17.5	4.6
	15.0	3.9	9.0	1700	74.0	5.65	54.8	110.3	3.84	11.0	1700	62.6	39.7	0.63	3.24	73.6	19.3	4.1
				2200	76.0	5.61	56.8	102.0	3.97	10.1	2200	65.9	45.5	0.69	3.64	78.3	18.1	4.4
	18.0	5.3	12.3	1700	74.9	5.70	55.5	110.8	3.85	11.3	1700	63.3	40.2	0.64	3.19	74.2	19.8	3.8
				2200	76.8	5.64	57.6	102.3	3.99	10.4	2200	66.7	46.1	0.69	3.59	78.9	18.6	4.2
70	12.0	2.6	6.0	1700	79.3	5.80	59.5	113.2	4.00	12.0	1700	62.1	40.2	0.65	3.72	74.7	16.7	5.5
				2200	81.4	5.72	61.9	104.3	4.17	11.1	2200	65.1	46.0	0.71	4.14	79.2	15.7	5.8
	15.0	3.8	8.7	1700	82.2	5.91	62.1	114.8	4.08	12.3	1700	62.3	40.2	0.65	3.61	74.6	17.3	5.1
				2200	84.4	5.81	64.6	105.5	4.26	11.4	2200	65.3	46.1	0.70	4.02	79.0	16.3	5.6
	18.0	5.1	11.9	1700	83.4	5.96	63.0	115.4	4.10	12.7	1700	63.3	41.1	0.65	3.55	75.3	17.8	4.8
				2200	85.6	5.85	65.7	106.0	4.29	11.7	2200	66.3	47.1	0.71	3.95	79.8	16.8	5.3
80	12.0	2.5	5.8	1700	84.7	6.03	64.2	116.2	4.12	13.4	1700	59.5	38.4	0.65	4.15	73.7	14.4	6.9
				2200	87.1	5.88	67.0	106.7	4.34	12.4	2200	62.2	44.0	0.71	4.56	77.7	13.6	7.4
	15.0	3.6	8.4	1700	88.6	6.16	67.6	118.3	4.21	13.9	1700	59.7	38.4	0.64	4.03	73.5	14.8	6.5
				2200	91.1	6.00	70.7	108.3	4.45	12.8	2200	62.4	44.0	0.71	4.43	77.5	14.1	7.0
	18.0	5.0	11.5	1700	90.0	6.22	68.8	119.0	4.24	14.3	1700	60.8	39.6	0.65	3.95	74.2	15.4	6.0
				2200	92.7	6.04	72.1	109.0	4.49	13.2	2200	63.5	45.4	0.72	4.34	78.3	14.6	6.7
90	12.0	2.4	5.6	1700	90.5	6.26	69.2	119.3	4.23	15.1	1700	54.7	35.7	0.65	4.60	70.4	11.9	8.7
				2200	93.2	6.06	72.5	109.2	4.51	14.0	2200	56.9	40.9	0.72	5.01	73.9	11.4	9.2
	15.0	3.5	8.1	1700	95.3	6.43	73.4	121.9	4.35	15.6	1700	54.8	35.6	0.65	4.48	70.1	12.2	8.1
				2200	98.2	6.20	77.1	111.3	4.64	14.4	2200	57.0	40.8	0.72	4.88	73.6	11.7	8.8
	18.0	4.8	11.1	1700	97.0	6.50	74.8	122.8	4.37	16.0	1700	55.9	37.0	0.66	4.38	70.8	12.8	7.6
				2200	100.1	6.26	78.8	112.1	4.69	14.9	2200	58.2	42.5	0.73	4.76	74.4	12.2	8.4
100	12.0	2.3	5.4	Operation not recommended							Operation not recommended							
	15.0	3.4	7.8								1700	53.2	35.2	0.66	5.05	70.4	10.5	10.1
											2200	55.2	40.3	0.73	5.43	73.6	10.2	10.9
	18.0	4.6	10.7								1700	54.4	36.9	0.68	4.91	71.1	11.1	9.4
											2200	56.4	42.3	0.75	5.28	74.4	10.7	10.4
110	12.0	2.2	5.2	Operation not recommended							Operation not recommended							
	15.0	3.3	7.5								1700	47.2	31.2	0.66	5.62	66.4	8.4	12.4
											2200	48.7	35.8	0.74	5.98	69.1	8.1	13.4
	18.0	4.4	10.2								1700	48.4	33.1	0.68	5.45	66.9	8.9	11.5
											2200	49.9	37.9	0.76	5.80	69.7	8.6	12.8
120	12.0	2.2	5.0	Operation not recommended							Operation not recommended							
	15.0	3.1	7.2								1700	44.8	31.6	0.71	6.31	66.3	7.1	14.9
											2200	46.1	36.3	0.79	6.65	68.7	6.9	16.2
	18.0	4.3	9.8								1700	46.0	33.8	0.73	6.10	66.8	7.5	13.9
											2200	47.3	38.8	0.82	6.43	69.2	7.4	15.4

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GTZ026 High Speed - Performance Data

900 CFM Rated Airflow

		WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
EWT °F	Flow gpm	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	1.4	3.2	Operation not recommended							Operation not recommended							
	6.0	2.9	6.6															
	8.0	4.8	11.1	700	15.4	1.38	10.7	90.3	3.25	2.0								
				900	15.6	1.40	10.8	86.0	3.27	1.8								
30	4.0	1.4	3.2	Operation not recommended							Operation not recommended							
	6.0	2.8	6.4	700	17.6	1.42	12.8	93.3	3.63	2.1	700	25.6	16.9	0.66	0.93	28.7	27.5	-
				900	18.0	1.44	13.1	88.5	3.67	2.0	900	26.0	18.4	0.71	0.98	29.3	26.6	-
	8.0	4.7	10.8	700	18.0	1.44	13.1	93.8	3.67	2.2	700	25.7	16.9	0.66	0.90	28.8	28.5	-
				900	18.2	1.45	13.3	88.8	3.69	2.0	900	26.3	18.4	0.70	0.94	29.5	27.9	-
40	4.0	1.3	3.1	Operation not recommended							Operation not recommended							
	6.0	2.7	6.2	700	20.5	1.48	15.5	97.1	4.06	2.4	700	25.9	17.3	0.67	1.01	29.4	25.7	-
				900	20.9	1.49	15.9	91.5	4.12	2.2	900	26.4	18.9	0.72	1.06	30.0	25.0	-
	8.0	4.5	10.4	700	20.9	1.50	15.8	97.6	4.08	2.4	700	26.1	17.3	0.66	0.98	29.5	26.7	-
				900	21.3	1.50	16.2	91.9	4.16	2.2	900	26.7	18.9	0.71	1.02	30.2	26.1	-
50	4.0	1.3	3.0	700	22.1	1.52	17.0	99.3	4.27	2.6	700	25.7	17.5	0.68	1.18	29.8	21.9	1.2
				900	22.6	1.52	17.4	93.2	4.36	2.4	900	26.3	19.1	0.73	1.22	30.4	21.5	1.3
	6.0	2.6	6.0	700	23.3	1.55	18.0	100.8	4.39	2.7	700	26.0	17.7	0.68	1.12	29.8	23.3	1.1
				900	23.7	1.55	18.4	94.4	4.48	2.4	900	26.5	19.3	0.73	1.16	30.5	22.8	1.2
	8.0	4.4	10.1	700	23.6	1.57	18.2	101.2	4.40	2.7	700	26.3	17.7	0.67	1.08	30.0	24.3	1.0
				900	24.2	1.56	18.8	94.8	4.53	2.5	900	26.8	19.3	0.72	1.13	30.7	23.8	1.1
60	4.0	1.2	2.9	700	24.9	1.60	19.5	103.0	4.57	2.9	700	25.4	17.4	0.68	1.28	29.8	19.9	1.4
				900	25.5	1.58	20.1	96.2	4.72	2.7	900	26.0	19.0	0.73	1.33	30.5	19.5	1.5
	6.0	2.5	5.8	700	26.1	1.63	20.5	104.5	4.69	3.0	700	25.7	17.6	0.68	1.21	29.8	21.2	1.3
				900	26.7	1.62	21.2	97.5	4.84	2.7	900	26.2	19.2	0.73	1.26	30.5	20.8	1.4
	8.0	4.2	9.8	700	26.5	1.65	20.9	105.1	4.70	3.1	700	26.0	17.6	0.68	1.18	30.0	22.1	1.2
				900	27.2	1.63	21.6	98.0	4.89	2.8	900	26.5	19.2	0.72	1.22	30.6	21.7	1.4
70	4.0	1.2	2.8	700	27.8	1.68	22.1	106.8	4.84	3.3	700	25.1	17.4	0.69	1.42	30.0	17.7	1.8
				900	28.5	1.65	22.8	99.3	5.05	3.0	900	25.6	18.9	0.74	1.48	30.7	17.4	1.9
	6.0	2.4	5.6	700	29.0	1.72	23.2	108.4	4.95	3.4	700	25.3	17.5	0.69	1.34	29.9	18.9	1.6
				900	29.9	1.69	24.1	100.8	5.17	3.1	900	25.9	19.1	0.74	1.40	30.7	18.5	1.8
	8.0	4.1	9.5	700	29.6	1.74	23.6	109.1	4.99	3.5	700	25.6	17.5	0.68	1.31	30.1	19.6	1.5
				900	30.3	1.71	24.5	101.2	5.22	3.2	900	26.1	19.1	0.73	1.35	30.7	19.3	1.7
80	4.0	1.2	2.7	700	30.3	1.78	24.2	110.1	4.98	3.6	700	24.1	17.0	0.71	1.57	29.5	15.3	2.2
				900	31.2	1.74	25.3	102.1	5.25	3.4	900	24.6	18.5	0.75	1.63	30.2	15.1	2.3
	6.0	2.4	5.4	700	31.7	1.82	25.4	111.9	5.08	3.8	700	24.3	17.2	0.71	1.49	29.4	16.3	2.0
				900	32.7	1.78	26.6	103.6	5.38	3.5	900	24.9	18.7	0.75	1.54	30.1	16.2	2.2
	8.0	4.0	9.2	700	32.2	1.85	25.9	112.6	5.11	3.9	700	24.6	17.2	0.70	1.44	29.6	17.1	1.9
				900	33.2	1.80	27.1	104.2	5.42	3.6	900	25.1	18.7	0.75	1.49	30.2	16.8	2.1
90	4.0	1.1	2.6	700	33.0	1.89	26.5	113.6	5.10	4.1	700	22.9	16.5	0.72	1.74	28.8	13.2	2.7
				900	34.1	1.84	27.8	105.0	5.44	3.8	900	23.4	17.9	0.76	1.79	29.5	13.0	2.9
	6.0	2.3	5.2	700	34.4	1.94	27.8	115.5	5.20	4.2	700	23.1	16.7	0.72	1.65	28.7	14.0	2.5
				900	35.6	1.87	29.2	106.6	5.58	3.9	900	23.6	18.1	0.77	1.69	29.4	13.9	2.8
	8.0	3.8	8.8	700	34.9	1.96	28.3	116.2	5.22	4.3	700	23.4	16.7	0.71	1.59	28.8	14.7	2.4
				900	36.3	1.89	29.8	107.3	5.61	4.0	900	23.8	18.1	0.76	1.65	29.4	14.4	2.6
100	4.0	1.1	2.5	Operation not recommended							Operation not recommended							
	6.0	2.2	5.1								700	21.9	16.2	0.74	1.84	28.2	11.9	3.1
											900	22.4	17.6	0.78	1.90	28.9	11.8	3.4
	8.0	3.7	8.5								700	22.2	16.2	0.73	1.79	28.3	12.4	2.9
											900	22.6	17.6	0.78	1.84	28.9	12.2	3.2
110	4.0	1.0	2.4	Operation not recommended							Operation not recommended							
	6.0	2.1	4.9								700	20.1	15.2	0.76	2.04	27.1	9.9	3.8
											900	20.5	16.6	0.81	2.10	27.7	9.8	4.1
	8.0	3.5	8.2								700	20.3	15.2	0.75	1.98	27.1	10.3	3.6
											900	20.7	16.6	0.80	2.04	27.7	10.2	3.9
120	4.0	1.0	2.3	Operation not recommended							Operation not recommended							
	6.0	2.0	4.7								700	18.6	14.6	0.79	2.29	26.4	8.1	4.6
											900	18.9	15.9	0.84	2.35	26.9	8.1	5.0
	8.0	3.4	7.9								700	18.7	14.6	0.78	2.21	26.3	8.5	4.3
											900	19.1	15.9	0.83	2.28	26.9	8.4	4.8

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GTZ026 Low Speed - Performance Data

700 CFM Rated Airflow

		WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
EWT °F	Flow gpm	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	3.0	0.8	1.9	Operation not recommended							Operation not recommended							
	5.0	2.0	4.7															
	7.0	3.7	8.7	500	11.0	1.08	7.3	90.4	2.98	1.7								
				700	11.2	1.09	7.4	84.8	2.99	1.5								
30	3.0	0.8	1.8	Operation not recommended							Operation not recommended							
	5.0	2.0	4.5	500	12.7	1.10	8.9	93.5	3.38	1.6	500	18.9	12.6	0.66	0.56	20.8	33.9	-
				700	12.9	1.11	9.2	87.1	3.42	1.5	700	19.2	13.7	0.71	0.59	21.2	32.7	-
	7.0	3.6	8.4	500	12.9	1.11	9.2	93.9	3.42	1.7	500	19.0	12.6	0.66	0.54	20.9	35.1	-
				700	13.1	1.12	9.3	87.3	3.44	1.5	700	19.5	13.7	0.70	0.57	21.4	34.3	-
40	3.0	0.8	1.8	Operation not recommended							Operation not recommended							
	5.0	1.9	4.4	500	14.9	1.11	11.2	97.7	3.95	1.7	500	21.8	14.3	0.65	0.68	24.1	32.0	-
				700	15.2	1.11	11.4	90.2	4.01	1.5	700	22.2	15.6	0.70	0.71	24.7	31.1	-
	7.0	3.5	8.2	500	15.2	1.12	11.4	98.1	3.97	1.7	500	22.0	14.3	0.65	0.66	24.3	33.3	-
				700	15.5	1.12	11.7	90.5	4.05	1.6	700	22.5	15.6	0.69	0.69	24.8	32.5	-
50	3.0	0.7	1.7	500	16.2	1.10	12.4	99.9	4.29	1.7	500	23.2	14.6	0.63	0.87	26.2	26.7	1.1
				700	16.5	1.10	12.7	91.8	4.37	1.6	700	23.7	15.9	0.67	0.90	26.8	26.2	1.1
	5.0	1.8	4.3	500	17.0	1.13	13.1	101.4	4.41	1.8	500	23.4	14.8	0.63	0.83	26.3	28.4	1.0
				700	17.3	1.13	13.5	92.9	4.49	1.7	700	23.9	16.1	0.67	0.86	26.9	27.8	1.1
	7.0	3.4	7.9	500	17.2	1.14	13.3	101.9	4.41	1.9	500	23.7	14.8	0.62	0.80	26.4	29.6	0.9
				700	17.6	1.14	13.8	93.3	4.55	1.7	700	24.2	16.1	0.67	0.83	27.0	29.0	1.0
60	3.0	0.7	1.7	500	18.3	1.12	14.5	103.9	4.77	1.9	500	21.5	13.9	0.65	0.89	24.6	24.2	1.3
				700	18.7	1.11	14.9	94.7	4.93	1.8	700	22.0	15.2	0.69	0.92	25.1	23.8	1.4
	5.0	1.8	4.1	500	19.1	1.15	15.2	105.4	4.89	2.0	500	21.7	14.1	0.65	0.84	24.6	25.8	1.2
				700	19.6	1.14	15.7	96.0	5.05	1.8	700	22.2	15.3	0.69	0.88	25.2	25.3	1.3
	7.0	3.3	7.6	500	19.5	1.16	15.5	106.0	4.91	2.0	500	22.0	14.1	0.64	0.82	24.8	26.8	1.1
				700	19.9	1.15	16.0	96.4	5.10	1.9	700	22.4	15.3	0.68	0.85	25.3	26.3	1.2
70	3.0	0.7	1.6	500	20.5	1.14	16.6	108.0	5.28	2.1	500	22.2	14.4	0.65	1.10	26.0	20.2	1.6
				700	21.0	1.11	17.2	97.8	5.52	2.0	700	22.7	15.6	0.69	1.15	26.6	19.8	1.7
	5.0	1.7	4.0	500	21.4	1.16	17.4	109.6	5.41	2.2	500	22.4	14.5	0.65	1.04	26.0	21.5	1.5
				700	22.1	1.14	18.2	99.2	5.65	2.0	700	22.9	15.8	0.69	1.08	26.6	21.1	1.6
	7.0	3.2	7.4	500	21.8	1.17	17.8	110.4	5.44	2.2	500	22.7	14.5	0.64	1.02	26.1	22.3	1.4
				700	22.4	1.15	18.5	99.6	5.69	2.1	700	23.1	15.8	0.68	1.05	26.7	22.0	1.5
80	3.0	0.7	1.6	500	22.3	1.17	18.3	111.2	5.59	2.4	500	20.4	13.5	0.66	1.15	24.3	17.7	2.0
				700	22.9	1.14	19.0	100.3	5.90	2.2	700	20.8	14.7	0.70	1.19	24.8	17.5	2.1
	5.0	1.7	3.9	500	23.2	1.19	19.2	113.0	5.70	2.4	500	20.5	13.6	0.66	1.09	24.2	18.9	1.9
				700	24.0	1.16	20.0	101.7	6.04	2.3	700	21.0	14.8	0.71	1.12	24.8	18.7	2.0
	7.0	3.1	7.1	500	23.6	1.21	19.5	113.8	5.73	2.5	500	20.8	13.6	0.66	1.06	24.4	19.7	1.7
				700	24.4	1.18	20.4	102.3	6.08	2.3	700	21.2	14.8	0.70	1.09	24.9	19.4	1.9
90	3.0	0.7	1.5	500	24.1	1.19	20.1	114.7	5.92	2.7	500	19.7	13.7	0.70	1.42	24.5	13.8	2.5
				700	24.9	1.16	21.0	103.0	6.31	2.5	700	20.1	14.9	0.74	1.47	25.1	13.7	2.6
	5.0	1.6	3.7	500	25.2	1.22	21.0	116.6	6.03	2.8	500	19.8	13.9	0.70	1.35	24.4	14.7	2.3
				700	26.1	1.18	22.0	104.5	6.47	2.6	700	20.3	15.1	0.74	1.39	25.0	14.6	2.5
	7.0	3.0	6.9	500	25.6	1.24	21.4	117.4	6.06	2.8	500	20.1	13.9	0.69	1.30	24.6	15.4	2.1
				700	26.5	1.19	22.5	105.1	6.51	2.6	700	20.5	15.1	0.74	1.35	25.1	15.2	2.4
100	3.0	0.6	1.5								Operation not recommended							
	5.0	1.6	3.6								500	18.2	13.0	0.71	1.42	23.0	12.9	2.8
											700	18.6	14.1	0.76	1.46	23.6	12.8	3.1
	7.0	2.9	6.6								500	18.4	13.0	0.70	1.37	23.1	13.4	2.6
											700	18.8	14.1	0.75	1.42	23.6	13.3	2.9
110	3.0	0.6	1.4								Operation not recommended							
	5.0	1.5	3.4								500	17.0	13.0	0.76	1.72	22.9	9.9	3.5
											700	17.4	14.1	0.81	1.77	23.4	9.8	3.8
	7.0	2.8	6.4								500	17.2	13.0	0.75	1.67	22.9	10.3	3.2
											700	17.6	14.1	0.80	1.72	23.4	10.2	3.6
120	3.0	0.6	1.3								Operation not recommended							
	5.0	1.4	3.3								500	15.8	12.6	0.79	1.95	22.5	8.1	4.2
											700	16.1	13.6	0.85	2.00	22.9	8.1	4.5
	7.0	2.7	6.1								500	16.0	12.6	0.79	1.89	22.4	8.5	3.9
											700	16.3	13.6	0.84	1.95	22.9	8.4	4.3

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GTZ038 High Speed - Performance Data

1250 CFM Rated Airflow

EWT °F	Flow gpm	WPD PSI	WPD FT	HEATING - EAT 70°F Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	COOLING - EAT 80/67 °F Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
20	5.0	1.3	3.0	Operation not recommended							Operation not recommended							
	7.0	2.3	5.2															
	9.0	3.5	8.1	1050	21.9	2.12	14.7	89.3	3.03	2.8								
				1250	22.6	2.18	15.2	86.7	3.04	2.5								
30	5.0	1.2	2.9	Operation not recommended							Operation not recommended							
	7.0	2.2	5.1	1050	25.2	2.16	17.9	92.2	3.43	3.0	1050	33.9	20.1	0.59	1.45	38.9	23.4	-
				1250	25.9	2.22	18.4	89.2	3.42	2.7	1250	35.9	22.4	0.63	1.54	41.1	23.3	-
	9.0	3.4	7.9	1050	25.6	2.18	18.2	92.6	3.45	3.1	1050	34.2	22.2	0.65	1.41	39.0	24.3	-
				1250	26.5	2.24	18.8	89.6	3.45	2.8	1250	36.2	24.6	0.68	1.50	41.3	24.1	-
40	5.0	1.2	2.8	Operation not recommended							Operation not recommended							
	7.0	2.1	4.9	1050	29.4	2.28	21.7	96.0	3.78	3.3	1050	35.3	21.6	0.61	1.60	40.7	22.0	-
				1250	30.3	2.33	22.4	92.5	3.81	3.0	1250	37.2	24.0	0.65	1.69	42.9	22.0	-
	9.0	3.3	7.6	1050	30.0	2.31	22.2	96.5	3.81	3.4	1050	35.5	23.4	0.66	1.56	40.9	22.8	-
				1250	31.0	2.36	23.0	92.9	3.85	3.1	1250	37.6	26.0	0.69	1.65	43.2	22.7	-
50	5.0	1.2	2.7	1050	31.9	2.34	23.9	98.1	3.99	3.6	1050	35.5	22.5	0.63	1.90	41.9	18.6	1.7
				1250	32.9	2.37	24.8	94.3	4.05	3.3	1250	37.3	25.0	0.67	2.00	44.1	18.6	1.8
	7.0	2.1	4.8	1050	33.1	2.40	24.9	99.2	4.04	3.7	1050	36.2	22.7	0.63	1.79	42.3	20.2	1.6
				1250	34.1	2.43	25.9	95.3	4.12	3.4	1250	38.1	25.2	0.66	1.88	44.5	20.2	1.7
	9.0	3.2	7.4	1050	33.8	2.42	25.6	99.8	4.10	3.8	1050	36.6	24.3	0.66	1.75	42.5	20.9	1.5
				1250	34.9	2.45	26.5	95.8	4.17	3.5	1250	38.5	27.0	0.70	1.84	44.8	21.0	1.7
60	5.0	1.1	2.6	1050	35.2	2.46	26.8	101.0	4.19	4.1	1050	35.1	23.0	0.66	2.03	42.0	17.3	2.1
				1250	36.3	2.47	27.9	96.9	4.30	3.7	1250	36.8	25.6	0.70	2.12	44.0	17.4	2.2
	7.0	2.0	4.6	1050	36.8	2.53	28.2	102.4	4.26	4.2	1050	35.9	23.3	0.65	1.93	42.5	18.6	1.9
				1250	38.0	2.54	29.3	98.1	4.37	3.8	1250	37.6	25.8	0.69	2.01	44.5	18.8	2.1
	9.0	3.1	7.2	1050	37.7	2.55	29.0	103.2	4.32	4.3	1050	36.3	24.5	0.68	1.88	42.7	19.3	1.8
				1250	38.9	2.56	30.2	98.8	4.44	3.9	1250	38.1	27.2	0.71	1.96	44.7	19.4	2.0
70	5.0	1.1	2.5	1050	38.5	2.59	29.7	104.0	4.36	4.5	1050	35.0	23.8	0.68	2.22	42.6	15.8	2.6
				1250	39.9	2.59	31.0	99.5	4.51	4.2	1250	36.6	26.5	0.72	2.31	44.5	15.9	2.7
	7.0	1.9	4.5	1050	40.5	2.68	31.4	105.7	4.44	4.7	1050	36.0	24.1	0.67	2.13	43.2	16.9	2.4
				1250	41.8	2.68	32.7	101.0	4.58	4.3	1250	37.5	26.7	0.71	2.20	45.0	17.0	2.6
	9.0	3.0	6.9	1050	41.6	2.71	32.3	106.6	4.50	4.8	1050	36.3	25.0	0.69	2.08	43.4	17.5	2.2
				1250	43.0	2.70	33.8	101.8	4.67	4.4	1250	38.0	27.7	0.73	2.16	45.3	17.6	2.5
80	5.0	1.1	2.5	1050	41.0	2.70	31.8	106.1	4.46	5.1	1050	33.8	23.5	0.69	2.42	42.0	14.0	3.2
				1250	42.4	2.67	33.3	101.4	4.65	4.7	1250	35.2	26.1	0.74	2.49	43.7	14.1	3.4
	7.0	1.9	4.3	1050	43.4	2.80	33.8	108.2	4.53	5.3	1050	34.7	23.7	0.68	2.33	42.7	14.9	3.0
				1250	44.8	2.78	35.4	103.2	4.73	4.9	1250	36.1	26.3	0.73	2.40	44.3	15.0	3.2
	9.0	2.9	6.7	1050	44.6	2.84	34.9	109.3	4.60	5.4	1050	35.1	24.3	0.69	2.28	42.9	15.4	2.8
				1250	46.1	2.80	36.6	104.2	4.83	5.0	1250	36.6	27.0	0.74	2.35	44.6	15.5	3.1
90	5.0	1.0	2.4	1050	43.5	2.82	33.9	108.4	4.52	5.7	1050	31.9	22.8	0.71	2.61	40.8	12.2	4.0
				1250	45.1	2.78	35.6	103.4	4.76	5.3	1250	33.1	25.4	0.77	2.67	42.2	12.4	4.2
	7.0	1.8	4.2	1050	46.2	2.94	36.2	110.8	4.60	5.9	1050	32.9	23.1	0.70	2.54	41.5	13.0	3.7
				1250	47.9	2.89	38.0	105.5	4.85	5.4	1250	34.1	25.7	0.75	2.60	43.0	13.1	4.0
	9.0	2.8	6.5	1050	47.7	2.99	37.5	112.1	4.68	6.1	1050	33.3	23.3	0.70	2.49	41.8	13.3	3.4
				1250	49.3	2.91	39.4	106.5	4.96	5.6	1250	34.5	25.8	0.75	2.55	43.2	13.5	3.8
100	5.0	1.0	2.3	Operation not recommended							Operation not recommended							
	7.0	1.7	4.0								1050	31.7	22.9	0.72	2.83	41.3	11.2	4.6
											1250	32.7	25.4	0.78	2.87	42.5	11.4	5.0
	9.0	2.7	6.2								1050	32.0	22.9	0.71	2.78	41.5	11.5	4.2
											1250	33.1	25.3	0.76	2.82	42.7	11.7	4.7
110	5.0	1.0	2.2	Operation not recommended							Operation not recommended							
	7.0	1.7	3.9								1050	29.0	21.5	0.74	3.09	39.5	9.4	5.6
											1250	29.8	23.9	0.80	3.11	40.4	9.6	6.0
	9.0	2.6	6.0								1050	29.3	21.2	0.73	3.03	39.6	9.7	5.2
											1250	30.1	23.4	0.78	3.07	40.5	9.8	5.8
120	5.0	0.9	2.1	Operation not recommended							Operation not recommended							
	7.0	1.6	3.7								1050	27.2	21.1	0.77	3.45	39.0	7.9	6.7
											1250	27.9	23.5	0.84	3.45	39.6	8.1	7.3
	9.0	2.5	5.8								1050	27.5	20.5	0.75	3.39	39.1	8.1	6.2
											1250	28.1	22.6	0.81	3.40	39.7	8.3	6.9

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GTZ038 Low Speed - Performance Data

1050 CFM Rated Airflow

EWT °F	Flow gpm	WPD PSI	WPD FT	HEATING - EAT 70°F Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	COOLING - EAT 80/67 °F Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
20	4.0	0.9	2.1	Operation not recommended							Operation not recommended							
	6.0	1.7	4.0															
	8.0	2.9	6.7	900	15.3	1.47	10.3	85.8	3.05	2.4								
				1050	16.0	1.51	10.8	84.1	3.09	2.2								
30	4.0	0.9	2.0	Operation not recommended							Operation not recommended							
	6.0	1.7	3.9	900	17.0	1.46	12.1	87.5	3.42	2.4	900	26.1	16.6	0.63	0.75	28.7	34.8	-
				1050	17.7	1.50	12.6	85.6	3.47	2.2	1050	26.9	18.3	0.68	0.77	29.5	35.1	-
	8.0	2.8	6.5	900	18.1	1.50	13.0	88.6	3.55	2.5	900	26.6	17.0	0.64	0.74	29.1	35.7	-
				1050	18.9	1.53	13.6	86.6	3.60	2.2	1050	27.3	18.8	0.69	0.76	29.9	36.0	-
40	4.0	0.8	1.9	Operation not recommended							Operation not recommended							
	6.0	1.6	3.8	900	20.1	1.49	15.1	90.7	3.97	2.5	900	21.8	14.3	0.65	0.68	24.1	32.0	-
				1050	20.8	1.51	15.7	88.4	4.03	2.3	1050	22.2	15.6	0.70	0.71	24.7	31.1	-
	8.0	2.7	6.3	900	21.2	1.52	16.0	91.8	4.08	2.5	900	22.0	14.3	0.65	0.66	24.3	33.3	-
				1050	21.9	1.55	16.6	89.3	4.14	2.3	1050	22.5	15.6	0.69	0.69	24.8	32.5	-
50	4.0	0.8	1.9	900	22.2	1.51	17.0	92.8	4.29	2.6	900	23.2	14.6	0.63	0.87	26.2	26.7	1.1
				1050	22.8	1.53	17.6	90.1	4.36	2.4	1050	23.7	15.9	0.67	0.90	26.8	26.2	1.1
	6.0	1.6	3.7	900	22.9	1.51	17.8	93.6	4.44	2.6	900	23.4	14.8	0.63	0.83	26.3	28.4	1.0
				1050	23.6	1.53	18.4	90.8	4.52	2.4	1050	23.9	16.1	0.67	0.86	26.9	27.8	1.1
	8.0	2.6	6.1	900	24.0	1.55	18.7	94.7	4.54	2.7	900	23.7	14.8	0.62	0.80	26.4	29.6	0.9
				1050	24.7	1.57	19.4	91.8	4.62	2.5	1050	24.2	16.1	0.67	0.83	27.0	29.0	1.0
60	4.0	0.8	1.8	900	25.0	1.54	19.7	95.7	4.75	2.8	900	21.5	13.9	0.65	0.89	24.6	24.2	1.3
				1050	25.6	1.55	20.3	92.6	4.83	2.6	1050	22.0	15.2	0.69	0.92	25.1	23.8	1.4
	6.0	1.5	3.6	900	26.0	1.54	20.7	96.7	4.95	2.9	900	21.7	14.1	0.65	0.84	24.6	25.8	1.2
				1050	26.6	1.55	21.3	93.5	5.03	2.6	1050	22.2	15.3	0.69	0.88	25.2	25.3	1.3
	8.0	2.5	5.9	900	26.9	1.57	21.5	97.7	5.01	3.0	900	22.0	14.1	0.64	0.82	24.8	26.8	1.1
				1050	27.5	1.58	22.1	94.2	5.09	2.7	1050	22.4	15.3	0.68	0.85	25.3	26.3	1.2
70	4.0	0.8	1.8	900	27.7	1.57	22.4	98.5	5.18	3.1	900	22.2	14.4	0.65	1.10	26.0	20.2	1.6
				1050	28.3	1.57	23.0	95.0	5.28	2.9	1050	22.7	15.6	0.69	1.15	26.6	19.8	1.7
	6.0	1.5	3.5	900	29.0	1.56	23.6	99.8	5.43	3.2	900	22.4	14.5	0.65	1.04	26.0	21.5	1.5
				1050	29.5	1.56	24.2	96.0	5.54	2.9	1050	22.9	15.8	0.69	1.08	26.6	21.1	1.6
	8.0	2.5	5.7	900	29.7	1.60	24.3	100.6	5.46	3.3	900	22.7	14.5	0.64	1.02	26.1	22.3	1.4
				1050	30.2	1.59	24.8	96.7	5.56	3.0	1050	23.1	15.8	0.68	1.05	26.7	22.0	1.5
80	4.0	0.7	1.7	900	30.4	1.60	24.9	101.2	5.57	3.5	900	20.4	13.5	0.66	1.15	24.3	17.7	2.0
				1050	30.8	1.59	25.4	97.1	5.68	3.2	1050	20.8	14.7	0.70	1.19	24.8	17.5	2.1
	6.0	1.4	3.3	900	31.8	1.59	26.4	102.7	5.87	3.6	900	20.5	13.6	0.66	1.09	24.2	18.9	1.9
				1050	32.2	1.58	26.8	98.4	5.99	3.3	1050	21.0	14.8	0.71	1.12	24.8	18.7	2.0
	8.0	2.4	5.5	900	32.3	1.62	26.8	103.2	5.84	3.7	900	20.8	13.6	0.66	1.06	24.4	19.7	1.7
				1050	32.6	1.61	27.1	98.8	5.95	3.4	1050	21.2	14.8	0.70	1.09	24.9	19.4	1.9
90	4.0	0.7	1.6	900	32.9	1.62	27.4	103.9	5.94	3.9	900	19.7	13.7	0.70	1.42	24.5	13.8	2.5
				1050	33.2	1.60	27.7	99.3	6.06	3.6	1050	20.1	14.9	0.74	1.47	25.1	13.7	2.6
	6.0	1.4	3.2	900	34.6	1.61	29.1	105.6	6.30	4.0	900	19.8	13.9	0.70	1.35	24.4	14.7	2.3
				1050	34.9	1.59	29.4	100.7	6.43	3.7	1050	20.3	15.1	0.74	1.39	25.0	14.6	2.5
	8.0	2.3	5.3	900	34.8	1.64	29.2	105.8	6.21	4.2	900	20.1	13.9	0.69	1.30	24.6	15.4	2.1
				1050	34.9	1.62	29.4	100.8	6.33	3.9	1050	20.5	15.1	0.74	1.35	25.1	15.2	2.4
100	4.0	0.7	1.6	Operation not recommended							Operation not recommended							
	6.0	1.3	3.1								900	18.2	13.0	0.71	1.42	23.0	12.9	2.8
											1050	18.6	14.1	0.76	1.46	23.6	12.8	3.1
	8.0	2.2	5.1								900	18.4	13.0	0.70	1.37	23.1	13.4	2.6
											1050	18.8	14.1	0.75	1.42	23.6	13.3	2.9
110	4.0	0.7	1.5								Operation not recommended							
	6.0	1.3	3.0	Operation not recommended							900	17.0	13.0	0.76	1.72	22.9	9.9	3.5
											1050	17.4	14.1	0.81	1.77	23.4	9.8	3.8
	8.0	2.1	4.9								900	17.2	13.0	0.75	1.67	22.9	10.3	3.2
											1050	17.6	14.1	0.80	1.72	23.4	10.2	3.6
120	4.0	0.6	1.5								Operation not recommended							
	6.0	1.2	2.9								900	15.8	12.6	0.79	1.95	22.5	8.1	4.2
											1050	16.1	13.6	0.85	2.00	22.9	8.1	4.5
	8.0	2.0	4.7								900	16.0	12.6	0.79	1.89	22.4	8.5	3.9
											1050	16.3	13.6	0.84	1.95	22.9	8.4	4.3

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GTZ049 High Speed - Performance Data

1550 CFM Rated Airflow

EWT °F	Flow gpm	WPD PSI	WPD FT	HEATING - EAT 70°F Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	COOLING - EAT 80/67 °F Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
20	6.0	1.3	3.0	Operation not recommended							Operation not recommended							
	9.0	2.5	5.7															
	12.0	4.0	9.2	1350	31.3	2.72	22.1	91.5	3.38	5.3								
				1550	32.4	2.80	22.8	89.3	3.38	4.8								
30	6.0	1.2	2.9	Operation not recommended							Operation not recommended							
	9.0	2.4	5.5	1350	35.8	2.85	26.1	94.5	3.68	5.6	1350	47.5	29.3	0.62	1.89	54.0	25.1	-
				1550	36.9	2.94	26.8	92.0	3.68	5.2	1550	50.4	32.6	0.65	2.02	57.3	25.0	-
	12.0	3.9	8.9	1350	36.3	2.88	26.5	94.9	3.70	5.8	1350	48.0	29.3	0.61	1.80	54.2	26.7	-
				1550	37.5	2.97	27.4	92.4	3.71	5.3	1550	50.8	32.5	0.64	1.92	57.4	26.4	-
40	6.0	1.2	2.8	Operation not recommended							Operation not recommended							
	9.0	2.3	5.3	1350	40.8	2.97	30.6	98.0	4.02	6.2	1350	49.3	31.0	0.63	2.09	56.4	23.6	-
				1550	42.0	3.04	31.6	95.1	4.04	5.7	1550	52.1	34.5	0.66	2.21	59.7	23.5	-
	12.0	3.7	8.7	1350	41.5	3.01	31.2	98.5	4.04	6.4	1350	49.8	31.0	0.62	2.00	56.7	24.9	-
				1550	42.9	3.07	32.4	95.6	4.09	5.8	1550	52.6	34.5	0.66	2.12	59.8	24.8	-
50	6.0	1.2	2.7	1350	43.6	3.08	33.1	99.9	4.15	6.7	1350	49.9	31.8	0.64	2.50	58.4	20.0	3.0
				1550	45.0	3.12	34.4	96.9	4.23	6.2	1550	52.5	35.3	0.67	2.63	61.5	20.0	3.2
	9.0	2.2	5.2	1350	45.3	3.14	34.6	101.1	4.23	6.9	1350	50.5	32.2	0.64	2.34	58.4	21.6	2.8
				1550	46.6	3.19	35.8	97.9	4.29	6.4	1550	53.2	35.8	0.67	2.46	61.6	21.7	3.0
	12.0	3.6	8.4	1350	46.2	3.18	35.4	101.7	4.27	7.2	1350	51.0	32.3	0.63	2.25	58.7	22.7	2.6
				1550	47.8	3.22	36.8	98.5	4.35	6.5	1550	53.6	35.9	0.67	2.37	61.7	22.7	2.9
60	6.0	1.1	2.6	1350	47.6	3.21	36.7	102.7	4.35	7.6	1350	49.3	32.1	0.65	2.65	58.4	18.6	3.6
				1550	49.1	3.22	38.1	99.3	4.47	7.0	1550	51.7	35.6	0.69	2.77	61.2	18.7	3.9
	9.0	2.2	5.0	1350	49.8	3.29	38.6	104.1	4.44	7.8	1350	50.1	32.5	0.65	2.50	58.7	20.0	3.4
				1550	51.3	3.30	40.0	100.6	4.55	7.2	1550	52.6	36.1	0.69	2.61	61.5	20.1	3.7
	12.0	3.5	8.1	1350	50.9	3.33	39.6	104.9	4.48	8.0	1350	50.7	32.7	0.65	2.42	58.9	20.9	3.2
				1550	52.6	3.34	41.2	101.4	4.62	7.4	1550	53.1	36.3	0.68	2.53	61.7	21.0	3.5
70	6.0	1.1	2.5	1350	51.5	3.32	40.2	105.4	4.55	8.5	1350	49.0	32.7	0.67	2.90	58.9	16.9	4.6
				1550	53.1	3.31	41.8	101.7	4.70	7.9	1550	51.2	36.3	0.71	3.00	61.5	17.0	4.9
	9.0	2.1	4.9	1350	54.1	3.42	42.4	107.1	4.63	8.8	1350	50.1	33.1	0.66	2.76	59.5	18.2	4.3
				1550	55.8	3.41	44.1	103.3	4.79	8.1	1550	52.3	36.7	0.70	2.86	62.1	18.3	4.6
	12.0	3.4	7.9	1350	55.5	3.47	43.7	108.1	4.69	9.0	1350	50.6	33.3	0.66	2.68	59.8	18.9	4.0
				1550	57.3	3.45	45.5	104.2	4.87	8.3	1550	52.9	37.0	0.70	2.79	62.4	19.0	4.4
80	6.0	1.1	2.5	1350	54.7	3.49	42.7	107.5	4.58	9.6	1350	47.0	32.0	0.68	3.14	57.7	15.0	5.8
				1550	56.4	3.45	44.7	103.7	4.79	8.8	1550	48.9	35.5	0.73	3.23	59.9	15.1	6.1
	9.0	2.0	4.7	1350	57.7	3.62	45.4	109.6	4.67	9.8	1350	48.2	32.3	0.67	3.02	58.5	16.0	5.4
				1550	59.6	3.58	47.4	105.6	4.88	9.1	1550	50.2	35.8	0.71	3.11	60.8	16.2	5.8
	12.0	3.3	7.6	1350	59.4	3.66	46.9	110.7	4.75	10.1	1350	48.7	32.6	0.67	2.95	58.8	16.5	5.0
				1550	61.3	3.62	49.0	106.6	4.97	9.4	1550	50.7	36.2	0.71	3.03	61.0	16.7	5.6
90	6.0	1.0	2.4	1350	57.7	3.66	45.2	109.6	4.62	10.7	1350	44.2	30.7	0.70	3.37	55.7	13.1	7.3
				1550	59.7	3.58	47.4	105.6	4.88	9.9	1550	45.8	34.0	0.74	3.45	57.5	13.3	7.7
	9.0	2.0	4.5	1350	61.3	3.81	48.3	112.0	4.71	11.1	1350	45.5	31.0	0.68	3.28	56.7	13.9	6.8
				1550	63.3	3.73	50.6	107.8	4.97	10.2	1550	47.2	34.4	0.73	3.34	58.6	14.1	7.3
	12.0	3.2	7.3	1350	63.1	3.85	50.0	113.3	4.81	11.4	1350	46.0	31.3	0.68	3.21	56.9	14.3	6.3
				1550	65.3	3.78	52.4	109.0	5.07	10.6	1550	47.6	34.8	0.73	3.28	58.8	14.5	7.0
100	6.0	1.0	2.3								Operation not recommended							
	9.0	1.9	4.4								1350	43.4	30.4	0.70	3.64	55.8	11.9	8.4
											1550	44.8	33.6	0.75	3.69	57.4	12.2	9.1
	12.0	3.1	7.1								1350	43.9	30.7	0.70	3.58	56.1	12.2	7.8
											1550	45.3	34.1	0.75	3.63	57.7	12.5	8.7
110	6.0	1.0	2.2								Operation not recommended							
	9.0	1.8	4.2								1350	39.2	28.3	0.72	3.96	52.7	9.9	10.3
				Operation not recommended							1550	40.3	31.3	0.78	3.99	53.9	10.1	11.2
	12.0	2.9	6.8								1350	39.6	28.7	0.72	3.91	53.0	10.1	9.6
											1550	40.7	31.8	0.78	3.94	54.2	10.3	10.6
120	6.0	0.9	2.1								Operation not recommended							
	9.0	1.7	4.0								1350	36.4	27.1	0.74	4.41	51.4	8.3	12.5
											1550	37.3	29.9	0.80	4.40	52.3	8.5	13.5
	12.0	2.8	6.5								1350	36.8	27.6	0.75	4.36	51.7	8.4	11.6
											1550	37.6	30.5	0.81	4.36	52.5	8.6	12.8

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GTZ049 Low Speed - Performance Data

1350 CFM Rated Airflow

EWT °F	Flow gpm	WPD PSI	WPD FT	HEATING - EAT 70°F Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	COOLING - EAT 80/67 °F Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
20	5.0	0.9	2.2	Operation not recommended							Operation not recommended							
	8.0	2.0	4.6															
	11.0	3.4	7.8	1150	22.5	2.07	15.4	88.1	3.18	4.2								
				1350	23.3	2.10	16.2	86.0	3.25	3.8								
30	5.0	0.9	2.1	Operation not recommended							Operation not recommended							
	8.0	1.9	4.4	1150	25.9	2.11	18.7	90.9	3.60	4.3	1150	35.9	21.1	0.59	1.19	40.0	30.2	-
				1350	26.7	2.13	19.5	88.3	3.68	3.9	1350	37.2	24.9	0.67	1.27	41.5	29.4	-
	11.0	3.3	7.6	1150	26.6	2.13	19.3	91.4	3.66	4.4	1150	36.0	21.0	0.58	1.11	39.8	32.4	-
				1350	27.5	2.16	20.2	88.9	3.74	4.0	1350	37.0	24.8	0.67	1.18	41.0	31.3	-
40	5.0	0.9	2.0	Operation not recommended							Operation not recommended							
	8.0	1.9	4.3	1150	29.8	2.19	22.3	94.0	3.99	4.5	1150	38.0	23.0	0.61	1.31	42.4	28.9	-
				1350	30.8	2.19	23.4	91.1	4.13	4.2	1350	39.2	27.1	0.69	1.38	44.0	28.3	-
	11.0	3.2	7.4	1150	30.8	2.20	23.2	94.8	4.09	4.7	1150	38.1	23.0	0.60	1.23	42.3	31.0	-
				1350	31.8	2.22	24.2	91.8	4.20	4.2	1350	39.2	27.1	0.69	1.30	43.6	30.2	-
50	5.0	0.9	2.0	1150	30.8	2.18	23.4	94.8	4.14	4.8	1150	38.7	24.6	0.64	1.69	44.5	22.9	1.6
				1350	31.8	2.18	24.4	91.8	4.27	4.4	1350	39.9	29.0	0.73	1.76	45.9	22.6	1.7
	8.0	1.8	4.2	1150	33.2	2.25	25.6	96.8	4.32	4.9	1150	39.6	24.7	0.62	1.47	44.6	27.0	1.5
				1350	34.5	2.24	26.9	93.7	4.52	4.5	1350	40.8	29.1	0.71	1.54	46.0	26.5	1.6
	11.0	3.1	7.2	1150	34.5	2.27	26.8	97.8	4.46	5.1	1150	39.8	24.7	0.62	1.38	44.5	28.8	1.4
				1350	35.7	2.27	27.9	94.5	4.61	4.6	1350	41.0	29.1	0.71	1.45	46.0	28.2	1.5
60	5.0	0.8	1.9	1150	33.7	2.27	26.0	97.1	4.36	5.2	1150	38.5	24.6	0.64	1.82	44.8	21.1	2.2
				1350	34.9	2.25	27.2	94.0	4.54	4.8	1350	39.7	28.9	0.73	1.91	46.2	20.9	2.4
	8.0	1.8	4.0	1150	36.5	2.32	28.6	99.4	4.60	5.4	1150	39.2	24.7	0.63	1.62	44.7	24.2	2.1
				1350	37.9	2.29	30.1	96.0	4.84	5.0	1350	40.4	29.1	0.72	1.69	46.1	23.8	2.3
	11.0	3.0	6.9	1150	38.0	2.34	30.0	100.6	4.76	5.5	1150	39.6	24.8	0.63	1.54	44.9	25.8	1.9
				1350	39.4	2.31	31.5	97.0	4.98	5.1	1350	40.8	29.2	0.72	1.61	46.3	25.4	2.2
70	5.0	0.8	1.8	1150	36.4	2.34	28.4	99.3	4.55	5.8	1150	38.7	25.8	0.67	2.01	45.6	19.3	3.2
				1350	37.9	2.32	30.0	96.0	4.79	5.4	1350	39.9	30.4	0.76	2.10	47.1	19.0	3.4
	8.0	1.7	3.9	1150	39.6	2.39	31.4	101.8	4.86	6.0	1150	39.1	26.1	0.67	1.82	45.3	21.5	3.0
				1350	41.1	2.34	33.1	98.2	5.14	5.5	1350	40.4	30.6	0.76	1.90	46.8	21.2	3.2
	11.0	2.9	6.7	1150	41.4	2.41	33.1	103.3	5.02	6.1	1150	39.8	26.2	0.66	1.74	45.7	22.9	2.7
				1350	42.9	2.36	34.9	99.4	5.33	5.7	1350	41.0	30.8	0.75	1.81	47.2	22.7	3.0
80	5.0	0.8	1.8	1150	38.7	2.40	30.5	101.2	4.72	6.5	1150	37.5	24.7	0.66	2.19	45.0	17.1	4.4
				1350	40.2	2.36	32.2	97.6	4.99	6.0	1350	38.7	29.0	0.75	2.29	46.5	16.9	4.6
	8.0	1.6	3.8	1150	42.0	2.43	33.8	103.8	5.07	6.7	1150	37.7	25.0	0.66	2.04	44.7	18.5	4.1
				1350	43.7	2.37	35.7	100.0	5.41	6.1	1350	38.8	29.4	0.76	2.12	46.1	18.3	4.4
	11.0	2.8	6.5	1150	44.2	2.46	35.8	105.6	5.27	6.9	1150	38.6	25.2	0.65	1.95	45.2	19.8	3.8
				1350	45.9	2.39	37.8	101.5	5.64	6.3	1350	39.7	29.6	0.74	2.03	46.7	19.6	4.2
90	5.0	0.7	1.7	1150	40.8	2.46	32.5	102.9	4.87	7.2	1150	35.4	22.8	0.64	2.40	43.6	14.8	5.8
				1350	42.4	2.40	34.2	99.1	5.18	6.7	1350	36.5	26.7	0.73	2.49	45.0	14.6	6.2
	8.0	1.6	3.6	1150	44.4	2.47	36.0	105.7	5.27	7.4	1150	35.4	23.0	0.65	2.27	43.1	15.6	5.5
				1350	46.2	2.39	38.1	101.7	5.67	6.9	1350	36.4	27.1	0.75	2.35	44.4	15.4	5.9
	11.0	2.7	6.2	1150	46.8	2.50	38.3	107.7	5.50	7.7	1150	36.4	23.3	0.64	2.18	43.8	16.7	5.1
				1350	48.8	2.42	40.6	103.5	5.92	7.1	1350	37.5	27.4	0.73	2.27	45.2	16.5	5.6
100	5.0	0.7	1.7	Operation not recommended							Operation not recommended							
	8.0	1.5	3.5								1150	33.7	23.7	0.70	2.55	42.4	13.2	7.1
											1350	34.8	27.9	0.80	2.65	43.8	13.1	7.7
	11.0	2.6	6.0								1150	35.0	24.1	0.69	2.46	43.4	14.2	6.6
											1350	36.0	28.3	0.79	2.57	44.8	14.0	7.3
110	5.0	0.7	1.6	Operation not recommended							Operation not recommended							
	8.0	1.5	3.4								1150	30.2	22.3	0.74	2.84	39.9	10.6	9.0
											1350	31.3	26.3	0.84	2.96	41.4	10.6	9.7
	11.0	2.5	5.8								1150	31.7	22.8	0.72	2.76	41.1	11.5	8.3
											1350	32.6	26.7	0.82	2.87	42.4	11.3	9.2
120	5.0	0.7	1.5	Operation not recommended							Operation not recommended							
	8.0	1.4	3.3								1150	27.9	21.7	0.78	3.18	38.7	8.8	11.1
											1350	28.9	25.6	0.89	3.31	40.2	8.7	12.0
	11.0	2.4	5.6								1150	29.5	22.2	0.75	3.08	40.0	9.6	10.3
											1350	30.3	26.0	0.86	3.23	41.3	9.4	11.5

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GTZ064 High Speed - Performance Data

1800 CFM Rated Airflow

		WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
EWT °F	Flow gpm	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	1.8	4.2	Operation not recommended							Operation not recommended							
	12.0	3.8	8.8															
	16.0	6.5	15.1	1500	38.6	3.49	26.7	93.8	3.24	6.0								
				1800	39.5	3.65	27.1	90.3	3.17	5.5								
30	8.0	1.8	4.1	Operation not recommended							Operation not recommended							
	12.0	3.7	8.6	1500	44.5	3.50	32.6	97.5	3.72	6.4	1500	66.4	42.5	0.64	2.35	74.4	28.3	-
				1800	45.7	3.73	33.0	93.5	3.59	5.8	1800	67.1	46.3	0.69	2.49	75.6	26.9	-
	16.0	6.4	14.7	1500	45.1	3.59	32.9	97.8	3.68	6.6	1500	67.1	42.9	0.64	2.31	75.0	29.1	-
				1800	46.2	3.76	33.4	93.8	3.60	6.0	1800	67.6	46.6	0.69	2.45	76.0	27.5	-
40	8.0	1.7	4.0	Operation not recommended							Operation not recommended							
	12.0	3.6	8.3	1500	51.2	3.74	38.5	101.6	4.02	7.0	1500	69.0	43.6	0.63	2.70	78.2	25.6	-
				1800	52.4	3.90	39.1	96.9	3.94	6.5	1800	70.1	47.5	0.68	2.87	79.8	24.4	-
	16.0	6.2	14.2	1500	52.0	3.80	39.0	102.1	4.01	7.3	1500	69.7	44.1	0.63	2.65	78.8	26.3	-
				1800	53.2	3.93	39.7	97.4	3.96	6.6	1800	70.7	47.9	0.68	2.82	80.3	25.1	-
50	8.0	1.7	3.8	1500	54.6	3.89	41.3	103.7	4.11	7.6	1500	70.2	44.0	0.63	3.16	80.9	22.2	3.9
				1800	55.8	4.01	42.1	98.7	4.08	7.0	1800	71.6	47.8	0.67	3.36	83.1	21.3	4.2
	12.0	3.5	8.1	1500	57.8	3.97	44.2	105.7	4.27	7.8	1500	70.9	44.4	0.63	3.09	81.4	22.9	3.7
				1800	58.9	4.06	45.1	100.3	4.25	7.2	1800	72.3	48.3	0.67	3.28	83.5	22.0	4.0
	16.0	6.0	13.8	1500	58.7	4.01	45.1	106.3	4.29	8.1	1500	71.6	44.9	0.63	3.04	82.0	23.6	3.4
				1800	60.0	4.11	46.0	100.9	4.28	7.4	1800	73.0	48.7	0.67	3.23	84.0	22.6	3.8
60	8.0	1.6	3.7	1500	61.3	4.15	47.1	107.8	4.32	8.5	1500	68.6	43.6	0.64	3.41	80.2	20.1	4.8
				1800	62.6	4.22	48.2	102.2	4.34	7.9	1800	70.3	47.4	0.67	3.62	82.7	19.4	5.1
	12.0	3.4	7.8	1500	64.1	4.22	49.7	109.6	4.44	8.8	1500	69.2	44.0	0.64	3.34	80.6	20.7	4.5
				1800	65.5	4.28	50.9	103.7	4.48	8.1	1800	71.0	47.8	0.67	3.55	83.1	20.0	4.8
	16.0	5.8	13.4	1500	65.5	4.27	50.9	110.4	4.49	9.1	1500	69.9	44.5	0.64	3.28	81.1	21.3	4.1
				1800	66.9	4.32	52.2	104.4	4.54	8.3	1800	71.7	48.3	0.67	3.49	83.6	20.6	4.6
70	8.0	1.6	3.6	1500	68.0	4.45	52.8	112.0	4.47	9.6	1500	69.1	44.0	0.64	3.79	82.1	18.3	6.0
				1800	69.5	4.47	54.2	105.7	4.55	8.9	1800	71.3	47.8	0.67	4.03	85.0	17.7	6.4
	12.0	3.3	7.5	1500	70.5	4.51	55.1	113.5	4.57	9.9	1500	69.8	44.4	0.64	3.71	82.5	18.8	5.6
				1800	72.1	4.52	56.6	107.1	4.67	9.1	1800	72.1	48.2	0.67	3.95	85.5	18.3	6.1
	16.0	5.6	12.9	1500	72.3	4.57	56.7	114.6	4.64	10.2	1500	70.5	44.8	0.64	3.65	82.9	19.3	5.2
				1800	73.9	4.57	58.4	108.0	4.74	9.4	1800	72.7	48.7	0.67	3.88	86.0	18.7	5.8
80	8.0	1.5	3.5	1500	74.7	4.74	58.5	116.1	4.62	10.8	1500	65.1	42.5	0.65	4.11	79.1	15.8	7.6
				1800	76.4	4.71	60.3	109.3	4.75	10.0	1800	67.5	46.2	0.68	4.38	82.5	15.4	8.0
	12.0	3.2	7.3	1500	76.5	4.80	60.1	117.2	4.67	11.1	1500	65.8	42.9	0.65	4.03	79.6	16.3	7.1
				1800	78.3	4.75	62.1	110.3	4.83	10.3	1800	68.2	46.6	0.68	4.28	82.8	15.9	7.7
	16.0	5.4	12.5	1500	78.8	4.86	62.2	118.6	4.75	11.5	1500	66.4	43.3	0.65	3.96	79.9	16.8	6.6
				1800	80.7	4.80	64.4	111.5	4.93	10.6	1800	68.9	47.1	0.68	4.22	83.3	16.3	7.3
90	8.0	1.4	3.3	1500	81.5	5.06	64.2	120.3	4.71	12.1	1500	59.9	40.9	0.68	4.40	74.9	13.6	9.5
				1800	83.4	4.99	66.4	112.9	4.90	11.2	1800	62.6	44.5	0.71	4.69	78.6	13.3	10.1
	12.0	3.0	7.0	1500	82.5	5.12	65.1	120.9	4.72	12.5	1500	60.6	41.3	0.68	4.32	75.3	14.0	8.9
				1800	84.6	5.01	67.5	113.5	4.95	11.6	1800	63.1	44.9	0.71	4.59	78.8	13.7	9.6
	16.0	5.2	12.0	1500	85.4	5.18	67.7	122.7	4.83	12.9	1500	61.2	41.8	0.68	4.24	75.6	14.4	8.2
				1800	87.6	5.06	70.3	115.1	5.07	11.9	1800	63.8	45.3	0.71	4.52	79.3	14.1	9.2
100	8.0	1.4	3.2	Operation not recommended							Operation not recommended							
	12.0	2.9	6.8								1500	58.9	40.2	0.68	4.77	75.2	12.3	11.0
											1800	61.7	43.7	0.71	5.08	79.0	12.1	12.0
	16.0	5.0	11.6								1500	59.4	40.7	0.68	4.68	75.4	12.7	10.2
											1800	62.3	44.2	0.71	5.00	79.3	12.5	11.4
110	8.0	1.3	3.1	Operation not recommended							Operation not recommended							
	12.0	2.8	6.5								1500	52.1	36.8	0.71	5.10	69.5	10.2	13.5
											1800	54.9	39.9	0.73	5.44	73.4	10.1	14.6
	16.0	4.8	11.2								1500	52.6	37.2	0.71	5.01	69.6	10.5	12.5
											1800	55.3	40.4	0.73	5.35	73.6	10.3	13.9
120	8.0	1.3	3.0	Operation not recommended							Operation not recommended							
	12.0	2.7	6.3								1500	50.7	37.4	0.74	5.63	69.9	9.0	16.3
											1800	53.6	40.7	0.76	6.01	74.1	8.9	17.7
	16.0	4.6	10.7								1500	51.1	37.8	0.74	5.52	70.0	9.3	15.2
											1800	54.1	41.1	0.76	5.91	74.3	9.2	16.8

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GTZ064 Low Speed - Performance Data

1500 CFM Rated Airflow

		WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
EWT °F	Flow gpm	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	6.0	1.0	2.4	Operation not recommended							Operation not recommended							
	10.0	2.7	6.2															
	14.0	5.1	11.8	1250	25.6	2.55	16.9	89.0	2.95	4.8								
				1500	26.5	2.58	17.7	86.4	3.01	4.4								
30	6.0	1.0	2.3	Operation not recommended							Operation not recommended							
	10.0	2.6	6.0	1250	29.7	2.63	20.8	92.0	3.32	4.9	1250	50.7	29.8	0.59	1.43	55.6	35.4	-
				1500	30.8	2.66	21.7	89.0	3.39	4.5	1500	52.2	34.0	0.65	1.50	57.3	34.9	-
	14.0	5.0	11.5	1250	30.8	2.63	21.8	92.8	3.44	5.0	1250	50.8	29.7	0.59	1.40	55.6	36.4	-
				1500	31.9	2.66	22.8	89.7	3.51	4.6	1500	52.1	33.9	0.65	1.47	57.1	35.4	-
40	6.0	1.0	2.3	Operation not recommended							Operation not recommended							
	10.0	2.5	5.9	1250	35.1	2.72	25.8	96.0	3.78	5.2	1250	52.2	30.5	0.59	1.57	57.5	33.2	-
				1500	36.1	2.73	26.8	92.3	3.87	4.8	1500	53.7	34.7	0.65	1.64	59.3	32.7	-
	14.0	4.8	11.1	1250	36.2	2.73	26.9	96.8	3.89	5.3	1250	52.3	30.5	0.58	1.54	57.6	34.1	-
				1500	37.2	2.74	27.9	93.0	3.98	4.9	1500	53.7	34.7	0.65	1.62	59.2	33.3	-
50	6.0	0.9	2.2	1250	39.5	2.76	30.1	99.3	4.19	5.4	1250	53.4	31.0	0.58	1.82	59.6	29.4	2.0
				1500	40.6	2.76	31.1	95.0	4.30	5.0	1500	55.0	35.2	0.64	1.92	61.6	28.7	2.1
	10.0	2.5	5.7	1250	40.1	2.81	30.5	99.7	4.18	5.6	1250	53.6	31.2	0.58	1.75	59.6	30.6	1.8
				1500	41.0	2.79	31.5	95.3	4.30	5.2	1500	55.1	35.4	0.64	1.84	61.4	30.0	2.0
	14.0	4.7	10.8	1250	41.3	2.83	31.7	100.6	4.28	5.8	1250	53.7	31.2	0.58	1.72	59.6	31.2	1.7
				1500	42.2	2.81	32.6	96.1	4.40	5.3	1500	55.3	35.4	0.64	1.80	61.4	30.7	1.9
60	6.0	0.9	2.1	1250	44.0	2.85	34.2	102.6	4.52	6.0	1250	51.5	30.3	0.59	2.03	58.5	25.4	2.8
				1500	44.9	2.83	35.2	97.7	4.65	5.5	1500	53.1	34.2	0.64	2.13	60.3	24.9	2.9
	10.0	2.4	5.5	1250	45.3	2.90	35.4	103.6	4.58	6.2	1250	51.7	30.6	0.59	1.97	58.5	26.3	2.6
				1500	46.0	2.86	36.3	98.4	4.72	5.7	1500	53.3	34.5	0.65	2.06	60.3	25.9	2.8
	14.0	4.5	10.4	1250	46.4	2.93	36.4	104.4	4.64	6.4	1250	52.0	30.6	0.59	1.93	58.5	27.0	2.4
				1500	47.1	2.89	37.3	99.1	4.78	5.8	1500	53.5	34.6	0.65	2.01	60.4	26.6	2.7
70	6.0	0.9	2.0	1250	48.3	2.94	38.3	105.8	4.81	6.6	1250	50.6	30.6	0.61	2.29	58.5	22.1	3.9
				1500	49.1	2.89	39.2	100.3	4.98	6.1	1500	52.2	34.3	0.66	2.39	60.3	21.8	4.2
	10.0	2.3	5.3	1250	50.3	2.99	40.1	107.3	4.93	6.8	1250	50.9	30.9	0.61	2.23	58.5	22.8	3.7
				1500	50.9	2.93	40.9	101.4	5.10	6.3	1500	52.5	34.8	0.66	2.33	60.4	22.6	4.0
	14.0	4.4	10.1	1250	51.3	3.02	41.0	108.0	4.97	7.0	1250	51.3	31.0	0.61	2.18	58.7	23.5	3.4
				1500	51.9	2.96	41.8	102.0	5.14	6.5	1500	52.8	34.9	0.66	2.28	60.6	23.2	3.8
80	6.0	0.9	2.0	1250	52.4	3.03	42.0	108.8	5.06	7.4	1250	48.4	29.6	0.61	2.59	57.3	18.7	5.4
				1500	52.9	2.97	42.7	102.6	5.22	6.8	1500	49.9	33.0	0.66	2.68	59.0	18.6	5.7
	10.0	2.2	5.1	1250	55.3	3.08	44.8	111.0	5.26	7.6	1250	48.8	29.9	0.61	2.53	57.5	19.3	5.1
				1500	55.6	2.99	45.4	104.3	5.45	7.0	1500	50.3	33.4	0.66	2.63	59.3	19.1	5.5
	14.0	4.2	9.8	1250	56.0	3.12	45.3	111.5	5.25	7.9	1250	49.2	30.1	0.61	2.49	57.6	19.7	4.7
				1500	56.2	3.03	45.8	104.7	5.43	7.3	1500	50.7	33.6	0.66	2.58	59.5	19.7	5.2
90	6.0	0.8	1.9	1250	56.3	3.12	45.7	111.7	5.29	8.3	1250	44.9	28.1	0.63	2.93	54.9	15.3	7.2
				1500	56.5	3.04	46.1	104.8	5.44	7.6	1500	46.2	31.2	0.67	3.01	56.5	15.3	7.7
	10.0	2.1	5.0	1250	60.1	3.17	49.3	114.5	5.55	8.5	1250	45.4	28.3	0.62	2.86	55.1	15.8	6.8
				1500	60.1	3.06	49.7	107.1	5.76	7.9	1500	46.7	31.6	0.68	2.96	56.8	15.8	7.3
	14.0	4.1	9.4	1250	60.5	3.22	49.5	114.8	5.51	8.8	1250	45.7	28.6	0.63	2.83	55.3	16.1	6.3
				1500	60.4	3.11	49.8	107.3	5.70	8.1	1500	47.2	31.8	0.67	2.91	57.1	16.2	7.0
100	6.0	0.8	1.8	Operation not recommended							Operation not recommended							
	10.0	2.1	4.8								1250	43.5	28.4	0.65	3.27	54.6	13.3	8.8
											1500	44.8	31.4	0.70	3.36	56.2	13.3	9.5
	14.0	3.9	9.1								1250	43.9	28.8	0.66	3.23	54.9	13.6	8.2
											1500	45.3	31.8	0.70	3.31	56.6	13.7	9.1
110	6.0	0.8	1.8	Operation not recommended							Operation not recommended							
	10.0	2.0	4.6								1250	39.1	26.8	0.69	3.71	51.8	10.6	11.1
											1500	40.4	29.5	0.73	3.78	53.3	10.7	12.1
	14.0	3.8	8.7								1250	39.7	27.3	0.69	3.65	52.1	10.9	10.3
											1500	40.9	29.9	0.73	3.73	53.6	11.0	11.5
120	6.0	0.7	1.7								Operation not recommended							
	10.0	1.9	4.4								1250	36.6	27.0	0.74	4.20	50.9	8.7	13.8
											1500	37.7	29.4	0.78	4.25	52.2	8.9	14.9
	14.0	3.6	8.4								1250	37.1	27.5	0.74	4.15	51.3	8.9	12.8
											1500	38.3	29.9	0.78	4.20	52.6	9.1	14.2

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GTZ072 High Speed - Performance Data

2200 CFM Rated Airflow

EWT °F	Flow gpm	WPD PSI	WPD FT	HEATING - EAT 70°F Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	COP	HWC kBtuh	COOLING - EAT 80/67 °F Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
20	12.0	3.3	7.6	Operation not recommended							Operation not recommended							
	15.0	4.6	10.7															
	18.0	6.2	14.3	1850	44.9	4.15	30.8	92.5	3.17	7.8								
				2200	46.6	4.42	31.5	89.6	3.09	7.1								
30	12.0	3.2	7.4	Operation not recommended							Operation not recommended							
	15.0	4.5	10.4	1850	52.1	4.31	37.4	96.1	3.54	8.2	1850	71.7	43.7	0.61	2.55	80.4	28.1	-
				2200	53.9	4.59	38.3	92.7	3.44	7.6	2200	73.0	47.6	0.65	2.71	82.3	27.0	-
	18.0	6.0	13.9	1850	52.5	4.35	37.7	96.3	3.54	8.5	1850	72.4	44.5	0.61	2.51	81.0	28.9	-
				2200	54.5	4.63	38.7	92.9	3.45	7.7	2200	73.8	47.9	0.65	2.66	82.8	27.7	-
40	12.0	3.1	7.1	Operation not recommended							Operation not recommended							
	15.0	4.4	10.1	1850	60.4	4.58	44.8	100.2	3.87	9.1	1850	74.6	46.6	0.62	3.08	85.1	24.2	-
				2200	62.5	4.79	46.1	96.3	3.82	8.4	2200	76.0	50.6	0.67	3.27	87.1	23.3	-
	18.0	5.8	13.5	1850	61.2	4.63	45.4	100.7	3.88	9.4	1850	75.3	47.4	0.63	3.02	85.6	24.9	-
				2200	63.4	4.84	46.8	96.7	3.84	8.5	2200	76.8	51.0	0.66	3.22	87.7	23.9	-
50	12.0	3.0	6.9	1850	64.3	4.77	48.0	102.2	3.95	9.8	1850	75.9	48.4	0.64	3.74	88.7	20.3	4.3
				2200	66.5	4.94	49.6	98.0	3.94	9.1	2200	77.5	52.6	0.68	3.97	91.1	19.5	4.6
	15.0	4.2	9.8	1850	67.9	4.86	51.3	104.0	4.09	10.1	1850	76.7	48.9	0.64	3.66	89.2	21.0	4.0
				2200	70.2	5.02	53.0	99.5	4.10	9.3	2200	78.2	53.2	0.68	3.89	91.5	20.1	4.4
	18.0	5.7	13.1	1850	69.1	4.92	52.3	104.6	4.12	10.5	1850	77.5	49.9	0.64	3.60	89.8	21.5	3.7
				2200	71.4	5.07	54.1	100.0	4.13	9.6	2200	79.0	53.7	0.68	3.83	92.1	20.6	4.1
60	12.0	2.9	6.7	1850	72.3	5.08	54.9	106.2	4.17	11.0	1850	74.6	48.5	0.65	3.97	88.1	18.8	5.3
				2200	74.6	5.18	56.9	101.4	4.22	10.2	2200	76.1	52.4	0.69	4.22	90.6	18.0	5.6
	15.0	4.1	9.5	1850	75.5	5.17	57.8	107.8	4.28	11.4	1850	75.3	49.0	0.65	3.89	88.6	19.4	4.9
				2200	77.9	5.25	60.0	102.8	4.35	10.5	2200	76.9	53.0	0.69	4.13	91.0	18.6	5.3
	18.0	5.5	12.7	1850	77.2	5.23	59.3	108.6	4.32	11.7	1850	76.1	49.8	0.65	3.82	89.2	19.9	4.5
				2200	79.7	5.31	61.6	103.5	4.40	10.8	2200	77.7	53.6	0.69	4.07	91.6	19.1	5.1
70	12.0	2.8	6.5	1850	80.3	5.40	61.9	110.2	4.36	12.4	1850	74.5	49.5	0.66	4.42	89.6	16.9	6.6
				2200	82.9	5.44	64.3	104.9	4.47	11.5	2200	76.1	53.2	0.70	4.70	92.1	16.2	7.0
	15.0	4.0	9.1	1850	83.2	5.48	64.5	111.6	4.44	12.8	1850	75.3	50.0	0.66	4.33	90.0	17.4	6.1
				2200	85.8	5.49	67.1	106.1	4.58	11.8	2200	76.8	53.7	0.70	4.60	92.5	16.7	6.7
	18.0	5.3	12.2	1850	85.3	5.55	66.4	112.7	4.50	13.2	1850	76.1	50.5	0.66	4.25	90.6	17.9	5.7
				2200	88.1	5.55	69.2	107.1	4.65	12.1	2200	77.6	54.4	0.70	4.53	93.1	17.1	6.3
80	12.0	2.7	6.3	1850	87.5	5.76	67.8	113.8	4.45	14.0	1850	71.3	48.2	0.68	4.75	87.5	15.0	8.3
				2200	90.3	5.72	70.8	108.0	4.63	12.9	2200	72.8	52.1	0.72	5.05	90.0	14.4	8.8
	15.0	3.8	8.8	1850	89.5	5.83	69.6	114.8	4.50	14.4	1850	72.0	48.6	0.68	4.65	87.9	15.5	7.8
				2200	92.4	5.76	72.7	108.9	4.70	13.3	2200	73.5	52.5	0.71	4.95	90.3	14.9	8.4
	18.0	5.1	11.8	1850	92.2	5.91	72.1	116.2	4.57	14.8	1850	72.8	49.4	0.68	4.57	88.4	15.9	7.2
				2200	95.3	5.82	75.4	110.1	4.80	13.7	2200	74.3	53.1	0.71	4.87	90.9	15.3	8.0
90	12.0	2.6	6.0	1850	94.7	6.13	73.8	117.4	4.53	15.7	1850	66.7	45.8	0.69	4.96	83.6	13.4	10.5
				2200	97.8	6.00	77.3	111.2	4.77	14.5	2200	68.0	49.7	0.73	5.28	86.1	12.9	11.1
	15.0	3.7	8.5	1850	96.0	6.19	74.9	118.0	4.54	16.2	1850	67.3	46.2	0.69	4.86	83.9	13.9	9.8
				2200	99.1	6.03	78.5	111.7	4.81	15.0	2200	68.7	50.2	0.73	5.18	86.3	13.3	10.6
	18.0	4.9	11.4	1850	99.3	6.28	77.9	119.7	4.63	16.7	1850	68.0	47.1	0.69	4.78	84.4	14.2	9.1
				2200	102.6	6.10	81.8	113.2	4.93	15.4	2200	69.4	50.7	0.73	5.09	86.8	13.6	10.1
100	12.0	2.5	5.8								Operation not recommended							
	15.0	3.6	8.2								1850	64.5	45.5	0.71	5.36	82.8	12.0	12.1
											2200	65.8	49.2	0.75	5.71	85.3	11.5	13.1
	18.0	4.8	11.0								1850	65.2	46.2	0.71	5.27	83.2	12.4	11.2
											2200	66.6	49.7	0.75	5.61	85.7	11.9	12.5
110	12.0	2.4	5.6								Operation not recommended							
	15.0	3.4	7.9	Operation not recommended							1850	57.6	42.1	0.73	5.60	76.7	10.3	14.8
											2200	58.8	45.4	0.77	5.96	79.1	9.9	16.1
	18.0	4.6	10.6								1850	58.2	42.6	0.73	5.51	77.0	10.6	13.8
											2200	59.4	45.8	0.77	5.86	79.4	10.2	15.3
120	12.0	2.3	5.4								Operation not recommended							
	15.0	3.3	7.6								1850	54.5	40.9	0.75	6.15	75.5	8.9	17.9
											2200	55.7	44.1	0.79	6.54	78.0	8.5	19.4
	18.0	4.4	10.2								1850	55.2	41.3	0.75	6.04	75.8	9.1	16.6
											2200	56.3	44.5	0.79	6.42	78.2	8.8	18.5

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

GTZ072 Low Speed - Performance Data

1700 CFM Rated Airflow

		WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
EWT °F	Flow gpm	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	2.3	5.4	Operation not recommended							Operation not recommended							
	13.0	3.6	8.2															
	16.0	5.0	11.6	1400	32.1	3.40	20.5	91.2	2.76	6.0								
				1700	33.6	3.44	21.9	88.3	2.86	5.4								
30	10.0	2.3	5.3	Operation not recommended							Operation not recommended							
	13.0	3.5	8.0	1400	35.8	3.43	24.1	93.7	3.06	6.0	1400	54.9	33.6	0.61	1.81	61.1	30.3	-
				1700	37.6	3.47	25.8	90.5	3.17	5.5	1700	56.8	38.6	0.68	1.93	63.4	29.4	-
	16.0	4.9	11.3	1400	37.4	3.43	25.7	94.7	3.20	6.2	1400	55.0	33.5	0.61	1.74	61.0	31.6	-
				1700	39.2	3.47	27.3	91.3	3.31	5.6	1700	56.6	38.5	0.68	1.87	63.0	30.2	-
40	10.0	2.2	5.1	Operation not recommended							Operation not recommended							
	13.0	3.4	7.8	1400	42.1	3.53	30.1	97.9	3.50	6.4	1400	57.5	35.5	0.62	1.99	64.2	28.9	-
				1700	44.0	3.54	31.9	94.0	3.64	5.9	1700	59.3	40.6	0.68	2.11	66.5	28.1	-
	16.0	4.7	11.0	1400	43.6	3.54	31.5	98.8	3.61	6.6	1400	57.6	35.5	0.62	1.93	64.1	29.9	-
				1700	45.6	3.55	33.4	94.8	3.76	6.0	1700	59.3	40.6	0.68	2.05	66.3	28.9	-
50	10.0	2.1	4.9	1400	47.1	3.57	34.9	101.2	3.87	6.7	1400	59.5	37.1	0.62	2.29	67.3	25.9	2.2
				1700	49.2	3.53	37.2	96.8	4.08	6.2	1700	61.3	42.1	0.69	2.41	69.6	25.4	2.4
	13.0	3.3	7.5	1400	47.8	3.61	35.5	101.6	3.88	6.9	1400	59.7	37.4	0.63	2.22	67.2	26.9	2.1
				1700	49.7	3.59	37.5	97.1	4.06	6.4	1700	61.5	42.5	0.69	2.33	69.5	26.4	2.3
	16.0	4.6	10.6	1400	49.2	3.63	36.8	102.5	3.97	7.1	1400	59.8	37.4	0.63	2.16	67.2	27.7	1.9
				1700	51.3	3.61	39.0	97.9	4.16	6.5	1700	61.6	42.5	0.69	2.27	69.4	27.1	2.2
60	10.0	2.1	4.8	1400	52.4	3.68	39.8	104.6	4.16	7.4	1400	57.8	36.6	0.63	2.52	66.4	22.9	3.2
				1700	54.6	3.61	42.3	99.7	4.43	6.8	1700	59.5	41.4	0.70	2.63	68.5	22.6	3.4
	13.0	3.2	7.3	1400	53.8	3.72	41.1	105.6	4.24	7.6	1400	58.0	37.0	0.64	2.44	66.4	23.8	3.0
				1700	56.0	3.66	43.5	100.5	4.49	7.0	1700	59.8	41.8	0.70	2.55	68.5	23.4	3.2
	16.0	4.4	10.3	1400	55.1	3.76	42.2	106.4	4.29	7.9	1400	58.3	37.1	0.64	2.39	66.4	24.4	2.7
				1700	57.3	3.69	44.7	101.2	4.54	7.2	1700	60.1	41.9	0.70	2.49	68.6	24.1	3.0
70	10.0	2.0	4.6	1400	57.8	3.82	44.7	108.2	4.43	8.2	1400	57.4	37.2	0.65	2.82	67.0	20.4	4.5
				1700	60.1	3.70	47.5	102.7	4.76	7.6	1700	59.0	41.9	0.71	2.93	69.0	20.2	4.7
	13.0	3.0	7.0	1400	60.0	3.85	46.8	109.7	4.56	8.4	1400	57.7	37.7	0.65	2.73	67.0	21.2	4.2
				1700	62.3	3.74	49.5	103.9	4.88	7.8	1700	59.4	42.4	0.71	2.84	69.1	20.9	4.5
	16.0	4.3	9.9	1400	61.0	3.91	47.7	110.4	4.57	8.7	1400	58.0	37.8	0.65	2.69	67.2	21.6	3.9
				1700	63.4	3.80	50.4	104.5	4.89	8.0	1700	59.9	42.5	0.71	2.78	69.4	21.5	4.3
80	10.0	1.9	4.5	1400	62.2	3.91	48.9	111.2	4.66	9.1	1400	54.8	36.4	0.66	3.14	65.5	17.4	6.2
				1700	64.5	3.77	51.6	105.1	5.01	8.4	1700	56.4	40.7	0.72	3.23	67.4	17.5	6.5
	13.0	2.9	6.8	1400	65.5	3.96	52.0	113.3	4.85	9.4	1400	55.2	36.8	0.67	3.06	65.6	18.0	5.8
				1700	67.9	3.80	54.9	107.0	5.23	8.7	1700	56.8	41.1	0.72	3.15	67.6	18.0	6.2
	16.0	4.2	9.6	1400	66.3	4.02	52.6	113.8	4.83	9.7	1400	55.6	37.0	0.67	3.01	65.9	18.5	5.3
				1700	68.5	3.87	55.3	107.3	5.19	9.0	1700	57.4	41.4	0.72	3.10	67.9	18.5	5.9
90	10.0	1.9	4.3	1400	66.8	4.03	53.1	114.2	4.86	10.2	1400	50.5	34.6	0.68	3.49	62.4	14.5	8.3
				1700	69.0	3.86	55.9	107.6	5.24	9.4	1700	52.1	38.3	0.74	3.56	64.3	14.6	8.8
	13.0	2.8	6.6	1400	71.1	4.09	57.2	117.0	5.10	10.5	1400	51.1	34.9	0.68	3.42	62.7	14.9	7.7
				1700	73.5	3.88	60.3	110.0	5.55	9.8	1700	52.6	38.8	0.74	3.49	64.6	15.1	8.4
	16.0	4.0	9.3	1400	71.6	4.14	57.5	117.3	5.06	10.8	1400	51.6	35.2	0.68	3.36	63.1	15.3	7.2
				1700	73.8	3.96	60.3	110.2	5.47	10.1	1700	53.2	39.1	0.74	3.44	64.9	15.5	7.9
100	10.0	1.8	4.2	Operation not recommended							Operation not recommended							
	13.0	2.7	6.3								1400	49.0	34.8	0.71	3.86	62.1	12.7	10.0
											1700	50.6	38.5	0.76	3.91	63.9	12.9	10.8
	16.0	3.9	8.9								1400	49.6	35.2	0.71	3.80	62.6	13.0	9.3
											1700	51.1	38.9	0.76	3.85	64.3	13.3	10.3
110	10.0	1.7	4.0	Operation not recommended							Operation not recommended							
	13.0	2.6	6.1								1400	43.5	32.6	0.75	4.31	58.2	10.1	12.7
											1700	45.0	35.9	0.80	4.33	59.8	10.4	13.7
	16.0	3.7	8.6								1400	44.3	33.1	0.75	4.26	58.8	10.4	11.8
											1700	45.6	36.4	0.80	4.28	60.2	10.7	13.1
120	10.0	1.7	3.8	Operation not recommended							Operation not recommended							
	13.0	2.5	5.8								1400	40.7	31.8	0.78	4.87	57.3	8.4	15.7
											1700	42.2	34.8	0.83	4.84	58.7	8.7	17.0
	16.0	3.6	8.2								1400	41.5	32.3	0.78	4.78	57.8	8.7	14.6
											1700	42.7	35.4	0.83	4.78	59.0	8.9	16.2

Contractor: _____ P.O.: _____

Engineer: _____

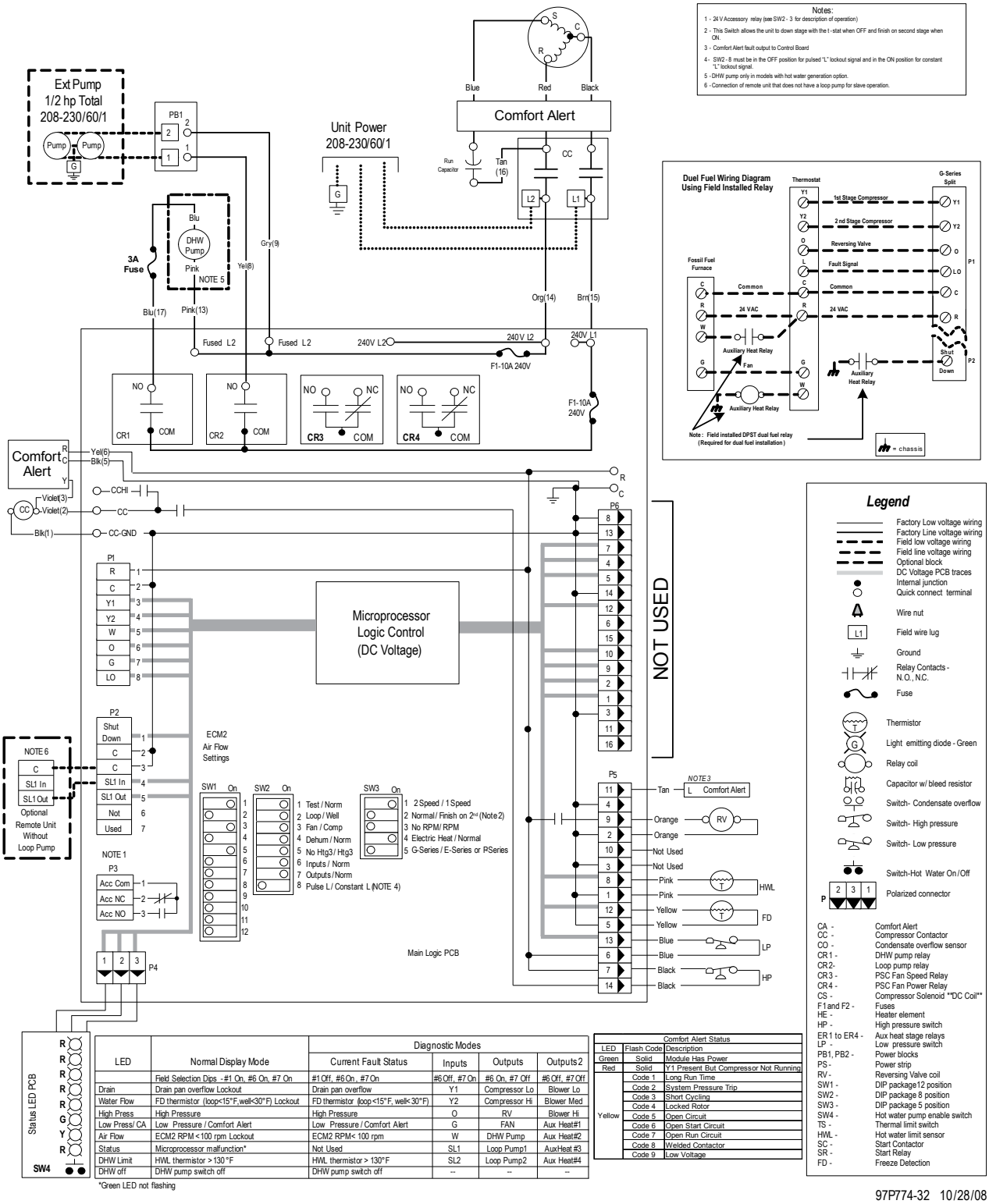
Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

Wiring Schematics

Single Speed Split - 208-230/60/1



LED	Normal Display Mode	Diagnostic Modes			
		Current Fault Status	Inputs	Outputs	Outputs2
	Field Selection Dips - #1 On, #6 On, #7 On	#1 Off, #6 On, #7 On	#6 Off, #7 On	#6 On, #7 Off	#6 Off, #7 Off
Drain	Drain pan overflow Lockout	Drain pan overflow	Y1	Compressor Lo	Blower Lo
Water Flow	FD thermistor (loop<15°F, well<30°F) Lockout	FD thermistor (loop <15°F, well< 30°F)	Y2	Compressor Hi	Blower Med
High Press	High Pressure	High Pressure	O	RV	Blower Hi
Low Press/ CA	Low Pressure / Comfort Alert	Low Pressure / Comfort Alert	G	FAN	Aux Heat#1
Air Flow	ECM2 RPM < 100 rpm Lockout	ECM2 RPM< 100 rpm	W	DHW Pump	Aux Heat#2
Status	Microprocessor malfunction*	Not Used	SL1	Loop Pump1	AuxHeat #3
DHW Limit	HWL thermistor > 130 °F	HWL thermistor > 130°F	SL2	Loop Pump2	Aux Heat#4
DHW off	DHW pump switch off	DHW pump switch off	--	--	--

*Green LED not flashing

Comfort Alert Status		
LED	Flash Code	Description
Green	Solid	Module Has Power
Red	Solid	Y1 Present But Compressor Not Running
Yellow	Code 1	Long Run Time
	Code 2	System Pressure Trip
	Code 3	Short Cycling
	Code 4	Locked Rotor
	Code 5	Open Circuit
	Code 6	Open Start Circuit
	Code 7	Open Run Circuit
	Code 8	Welded Contactor
	Code 9	Low Voltage

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Contractor: _____ P.O.: _____

Engineer: _____

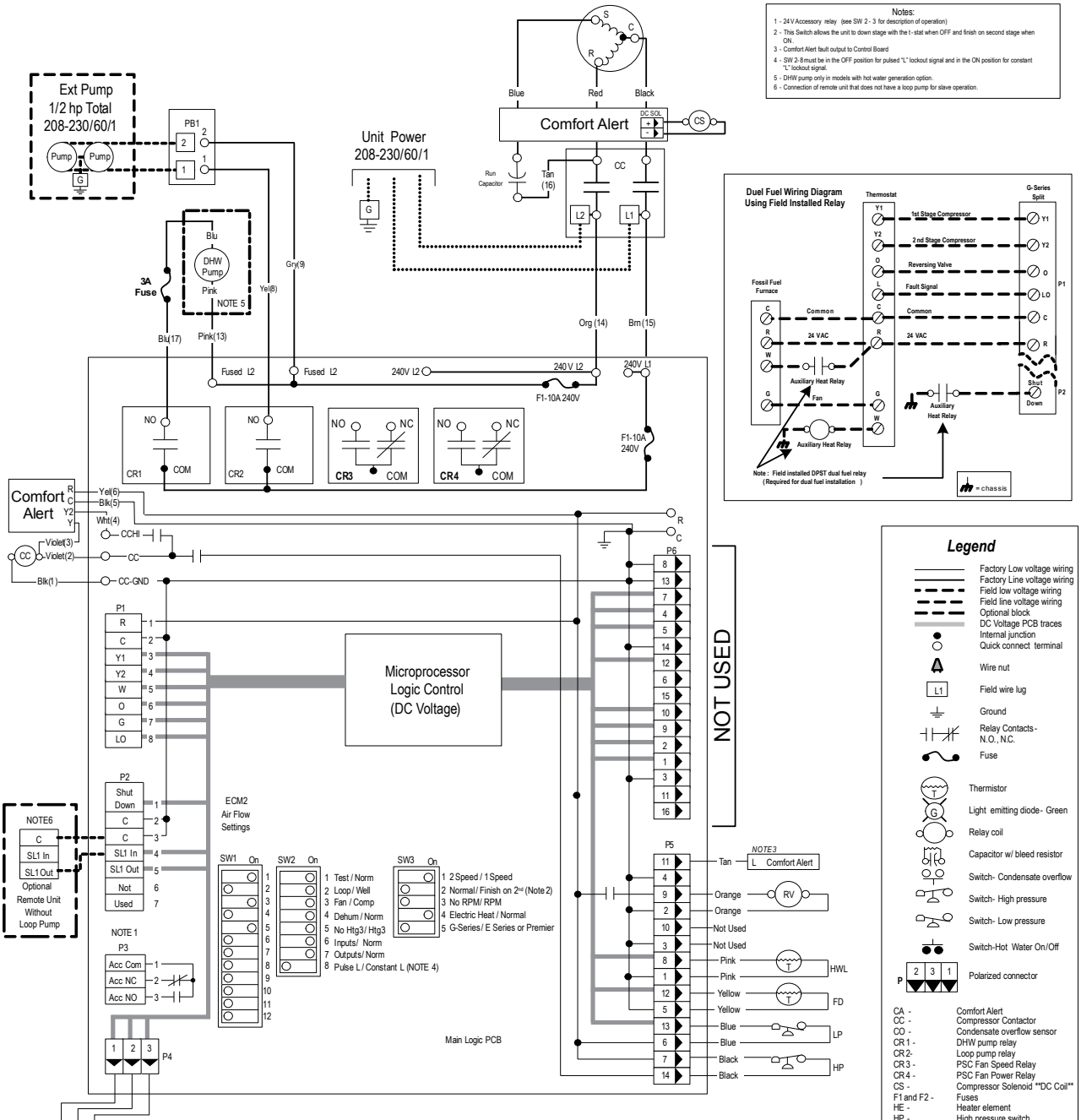
Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

Wiring Schematics cont.

Dual Capacity Split - 208-230/60/1



Status LED PCB

SW4

LED	Normal Display Mode	Diagnostic Modes			
		Current Fault Status	Inputs	Outputs	Outputs 2
	Field Selection Dips- #1 On, #6 On, #7 On	#1 Off, #6 On, #7 On	#6 Off, #7 On	#6 On, #7 Off	#6 Off, #7 Off
Drain	Drain pan overflow Lockout	Drain pan overflow	Y1	Compressor Lo	Blower Lo
Water Flow	FD thermistor (loop<15°F, well<30°F) Lockout	FD thermistor (loop<15°F, well <30°F)	Y2	Compressor Hi	Blower Med
High Press	High Pressure	High Pressure	O	RV	Blower Hi
Low Press/ CA	Low Pressure / Comfort Alert	Low Pressure / Comfort Alert	G	FAN	Aux Heat #1
Air Flow	ECM2 RPM < 100 rpm Lockout	ECM2 RPM< 100 rpm	W	DHW Pump	Aux Heat #2
Status	Microprocessor malfunction*	Not Used	SL1	Loop Pump1	Aux Heat #3
DHW Limit	HWL thermistor > 130°F	HWL thermistor > 130°F	SL2	Loop Pump2	Aux Heat #4
DHW off	DHW pump switch off	DHW pump switch off	--	--	--

*Green LED not flashing

Comfort Alert Status		
LED	Flash Code	Description
Green	Solid	Module Has Power
Red	Solid	Y1 Present But Compressor Not Running
Yellow	Code 1	Long Run Time
	Code 2	System Pressure Trip
	Code 3	Short Cycling
	Code 4	Locked Rotor
	Code 5	Open Circuit
	Code 6	Open Start Circuit
	Code 7	Open Run Circuit
	Code 8	Welded Contactor
	Code 9	Low Voltage

97P774-33 10/28/08

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Aston Series Indoor Split
Single Speed: 2 - 6 Tons
Dual Capcity: 2 - 6 Tons 60Hz

GEOSTAR

Engineering Guide Specifications

General

The geothermal heating/cooling units shall be reverse cycle split system configuration designed for use with DX heating and cooling coils. Units shall be AHRI/ISO Standard 13256-1 performance certified and listed by a nationally recognized safety-testing laboratory or agency, such as ETL Testing Laboratory. Each unit shall be computer run-tested at the factory using water and performance verified. Each unit shall be mounted on a pallet and stretch-wrapped for shipping protection. The geothermal units shall be designed to operate with entering liquid temperature between 25°F and 110°F as manufactured.

Casing and Cabinet

The cabinet shall be fabricated from heavy-gauge steel and finished with corrosion-resistant epoxy/polyester powder coating. The interior shall be insulated with 1/2-inch thick, multi-density, coated glass fiber. The cabinet shall have three access panels for ease of installation and servicing. The internal layout shall provide for major component servicing through front service panel in restricted access installations.

Refrigerant Circuit

All units shall contain an environmentally friendly R410A sealed refrigerant circuit including a hermetic motor-compressor, thermostatic expansion valve, reversing valve, coaxial tube water-to-refrigerant heat exchanger, and service ports. Compressors shall be high-efficiency scroll dual capacity or single speed type designed for heat pump duty and mounted on double, rubber vibration isolators on a metal core. Compressor motors shall be heat pump rated single-phase PSC with internal overload protection. The coaxial water-to-refrigerant heat exchanger shall be designed for low water pressure drop and constructed of a convoluted copper (cupronickel optional) inner tube and a steel outer tube. The bidirectional thermostatic expansion valve shall provide proper superheat over the entire liquid temperature range with minimal “hunting”. The refrigerant suction lines shall be insulated to prevent condensation at low liquid temperatures. An optional ThermaShield coated hot water generator coil shall be provided with integral internal pump and limit controls. All units shall have the source coaxial tube refrigerant-to-water heat exchanger ThermaShield coated.

Electrical

The microprocessor control shall provide operational sequencing, high and low-pressure switch monitoring, thermistor based freeze detection temperature limit, current sensing compressor monitoring, compressor lockout mode control and hot water generator and loop pump control. A removable terminal connector with screw terminals shall be provided for field control wiring on the board. The control shall provide water valve control, test mode, diagnostic mode, short cycle protection, random startup, pump slaving, fault LEDs, status LEDs, and intelligent fault retry.

Quick attach wiring harnesses shall be employed throughout to aid in troubleshooting or parts replacement. Line voltage box lugs shall be provided for both field power wiring connections for unit and the fused external loop pumps. All units shall have knockouts for entrance of low and line voltage wiring.

Optional GeoStart™

GeoStart is a single phase soft starter which reduces the normal start current (LRA) by 60-70%. This allows the heat pump to more easily go "off grid." Using GeoStart will also provide a substantial reduction in light flicker, reduce start-up noise, and improve the compressor's start behavior. GeoStart is available as a factory option or field retrofit kit for all G Series split units.

Piping

Supply and return water as well as hot water generator connections shall be 1” FPT brass swivel fittings which provide a union and eliminate the need for backup wrenches or sealants when making field connections. All water piping shall be insulated to prevent condensation at low entering liquid temperatures.

Accessories and Options

Hot Water Generator

An optional hot water assist generator coil shall be provided with integral factory-mounted internal pump. The coil shall be of convoluted double construction and suitable for potable water. Limit controls shall monitor the compressor hot gas temperature and hot water temperature and disable operation during low compressor hot gas temperatures to prevent thermosiphoning from the water heater and limit high water temperatures to prevent scalding.

Thermostat (field-installed)

A multi-stage auto-changeover electronic digital thermostat shall be provided. The thermostat shall offer three heating and two cooling stages with precise temperature control. An OFF-HEAT-AUTO-COOL-EMERG system switch, OFF-AUTO blower switch, and indicating LEDs shall be provided. The thermostat shall display in °F or °C. An optional remote outdoor sensor shall be available.

Flow Center (field installed)

A self contained Flow Center shall provide all pumping, flushing and filling operations needed for residential geothermal earth loops up to 20 gpm. Two corrosion resistant composite 3-way valves shall be employed for loop valving. The flow center shall provide 1˝ FPT or special 'GL' composite union fittings for easy adaptation to connection options. The GL flow controller shall be encased in a corrosion proof polystyrene case (FPT case is powder coated metal) and fully insulated with urethane foam to prevent condensation.