

SUBMITTAL SET
LX SERIES
GEOTHERMAL HEAT PUMPS
DUAL CAPACITY

MODELS: YLF026 - 072 (2 THRU 6 NOMINAL TONS)









Due to continuous product improvement, specifications are subject to change without notice.

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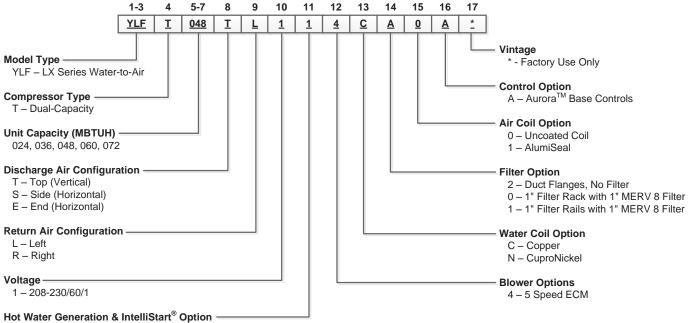
LX Dual	Capacity	Series
	2 - 6 Ton	s 60Hz

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



Rev.: 12 June 2014D

### **Model Nomenclature**



- 0 No Hot Water Generation, No IntelliStart
- 1 Hot Water Generation with Factory Installed Pump, No IntelliStart
- 3 No Hot Water Generation, IntelliStart
- 4 Hot Water Generation with Factory Installed Pump, IntelliStart

LX Dual	Capa	city S	Series
	2 - 6	Tons	60Hz

Contractor:	P.O.:	
Engineer:		
Proiect Name:	Unit Taa:	



# AHRI/ISO 13256-1 Performance Ratings cont.

### 5 Speed ECM motor AHRI/ASHRAE/ISO 13256-1

English (IP) Units

				Wa	ter Loop H	eat Pump		Grou	ınd Water	Heat Pump		Ground Loop Heat Pump				
Model	Capacity Modulation	' '		Cool EWT	•		Heating EWT 68°F		Cooling EWT 59°F		ig 0°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	' I I ' 'ICOPI '		. TOOP I		EER Btuh/W	Capacity Btuh	СОР	Capacity Btuh	EER Btuh/W	Capacity Btuh	СОР	
024	Full	8	800	22,000	13.9	28,300	4.9	25,100	20.6	23,500	4.4	23,100	15.6	18,900	3.8	
024	Part	7	600	16,300	14.7	20,800	5.3	18,800	24.4	17,000	4.5	18,200	20.6	14,900	4.1	
036	Full	9	1200	33,700	13.5	42,500	4.7	38,000	19.7	35,500	4.2	35,100	15.5	26,000	3.6	
030	Part	8	1000	25,300	15.4	30,500	5.3	28,900	25.5	25,200	4.5	27,600	21.5	21,000	4.1	
048	Full	12	1600	46,500	14.8	53,900	4.8	52,300	21.8	45,000	4.3	49,000	16.1	36,000	3.7	
046	Part	11	1400	34,800	16.5	39,700	5.4	39,800	27.3	32,800	4.5	38,200	22.1	28,500	4.1	
060	Full	16	1800	57,200	14.3	69,000	4.5	64,100	20.7	56,500	4.0	59,900	16.5	45,300	3.4	
000	Part	14	1500	43,000	15.9	51,000	4.9	49,100	26.2	42,400	4.2	47,200	22.3	36,000	3.9	
072	Full	18	1900	64,400	14.4	82,800	4.5	71,800	20.8	68,500	4.1	67,000	16.4	52,000	3.5	
0/2	Part	16	1550	50,400	15.7	63,600	4.8	56,800	25.3	52,800	4.1	54,200	21.9	42,500	3.7	

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 208V operation

3/24/17

### 5 Speed ECM motor ARI/ASHRAE/ISO 13256-1

Metric (SI) Units

				Wa	ter Loop H	eat Pump		Grou	ınd Water	Heat Pump		Ground Loop Heat Pump				
Model	Canacity		Flow Rate Coolin			• 1 • 1			ing 15°C	Heatir EWT 10	•	Cooling Full Loa Part Loa	d 25°C	Heating Brine Full Load 0°C Part Load 5°C		
		water L/S	air L/S	Capacity Watts	· · · · · · · · · · · · · · · · · · ·		. , I COP I		EER (W/W)	Capacity Watts	СОР	Capacity Watts	EER (W/W)	Capacity Watts	СОР	
024	Full	0.5	377.6	6,448	4.1	8,294	4.9	7,356	6.0	6,887	4.4	6,770	4.6	5,539	3.8	
024	Part	0.4	283.2	4,777	4.3	6,096	5.3	5,510	7.2	4,982	4.5	5,334	6.0	4,367	4.1	
036	Full	0.6	566.4	9,877	4.0	12,456	4.7	11,137	5.8	10,404	4.2	10,287	4.5	7,620	3.6	
030	Part	0.5	472.0	7,415	4.5	8,939	5.3	8,470	7.5	7,386	4.5	8,089	6.3	6,155	4.1	
048	Full	0.8	755.2	13,628	4.3	15,797	4.8	15,328	6.4	13,189	4.3	14,361	4.7	10,551	3.7	
046	Part	0.7	660.8	10,199	4.8	11,635	5.4	11,665	8.0	9,613	4.5	11,196	6.5	8,353	4.1	
000	Full	1.0	849.6	16,764	4.2	20,223	4.5	18,787	6.1	16,559	4.0	17,556	4.8	13,277	3.4	
060	Part	0.9	708.0	12,603	4.7	14,947	4.9	14,390	7.7	12,427	4.2	13,834	6.5	10,551	3.9	
072	Full	1.1	896.8	18,875	4.2	24,267	4.5	21,043	6.1	20,076	4.1	19,637	4.8	15,240	3.5	
	Part	1.0	731.6	14,771	4.6	18,640	4.8	16,647	7.4	15,475	4.1	15,885	6.4	12,456	3.7	

Cooling capacities based upon 27°C DB, 19°C WB entering air temperature Heating capacities based upon 20°C DB, 15°C WB entering air temperature All ratings based upon 208V operation cfm\*0.472 = I/s gpm\*0.0631 = I/s in wg\*249 = pascals ft of hd \*2990 = pascals

3/24/17

The manufacturer works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice. Purchaser's approval of this data set signifies that the equipment is acceptable under the provisions of the job specification. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely the manufacturer's opinion or commendation of its products. York and Affinity are registered trademarks of Johnson Controls, Inc., and are used with permission.

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

LX Dual Capacity Series 2 - 6 Tons 60Hz



# AHRI/ISO 13256-1 Performance Ratings cont.

#### **Energy Star Compliance Table**

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

12/14/2016

#### Energy Star Rating Criteria

In order for water-source heat pumps to be Energy Star rated they must meet or exceed the minimum efficiency requirements listed below. Tier 3 represents the current minimum efficiency water source heat pumps must have in order to be Energy Start rated.

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

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

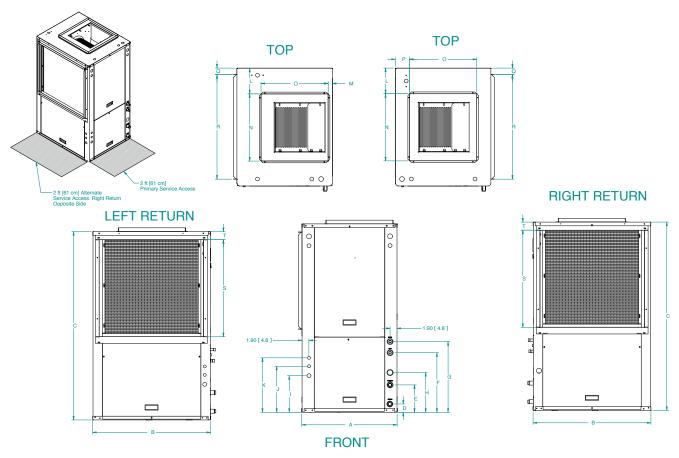




Contractor:	P.O.:	_
Engineer:		
Proiect Name:	Unit Tag:	



### **Vertical Dimensional Data**



		0,40	rall Cal	hinot			Wat	or Col	nectio	26		_	lectrica nnection			isch	arge Co	nnection	1	Re	eturn Co	onnectio	on
Verti	ical	Ove	Overall Cabinet				vvai	ei coi	mechoi	15		1	J	К		Duct	Flange I	nstalled		Re	eturn Du	ct Flang	es
Top F		Α	В	С	D	E	F	G	н	Loop	HWG	3/4" cond	1/2" cond	1/2" cond	L	М	N	0	Р	Q	R	s	Т
		Width	Depth	Height	Loop In	Loop Out	HWG In	HWG Out	Cond- ensate	Water FPT	Sweat (I.D.)	Power Supply	Ext Pump	Low Votage			Supply Width	Supply Depth			Return Depth	Return Height	
024	in.	22.5	26.5	39.4	2.3	5.3	13.4	16.4	9.6	1"	1/2"	8.9	11.4	13.7	6.3	0.7	14.0	14.0	2.7	2.3	22.0	18.0	1.8
024	cm.	57.2	67.3	100.1	5.8	13.5	34.0	41.7	24.4	Swivel	female	22.6	29.0	34.8	16.0	1.8	35.6	35.6	6.9	5.8	55.9	45.7	4.6
026	in.	22.5	26.5	44.5	2.0	7.0	13.5	16.5	10.2	1"	1/2"	9.5	12.1	14.3	6.1	0.8	14.0	14.0	4.4	2.4	22.0	22.0	2.0
036	cm.	57.2	67.3	113.0	5.1	17.8	34.3	41.9	25.9	Swivel	female	24.1	30.7	36.3	15.5	2.0	35.6	35.6	11.2	6.1	55.9	55.9	5.1
048-	in.	25.6	31.6	50.4	2.3	7.3	15.9	18.9	10.6	1"	1/2"	9.8	12.3	14.6	6.9	1.1	18.0	18.0	3.8	1.7	28.0	26.0	1.7
060	cm.	65.0	80.3	128.0	5.8	18.5	40.4	48.0	26.9	Swivel	female	24.9	31.2	37.1	17.5	2.8	45.7	45.7	9.7	4.3	71.1	66.0	4.3
070	in.	25.6	31.6	54.4	2.3	7.3	15.9	18.9	10.6	1"	1/2"	9.8	12.3	14.6	6.9	1.1	18.0	18.0	3.8	1.7	28.1	30.0	2.2
072	cm.	65.0	80.3	138.2	5.8	18.5	40.4	48.0	26.9	Swivel	female	24.9	31.2	37.1	17.5	2.8	45.7	45.7	9.7	4.3	71.4	76.2	5.6

Condensate is 3/4" PVC female glue socket and is switchable from side to front

Unit shipped with 1" [25.4mm] return duct flanges and are suitable for duct connection.

Discharge flange is field installed and extends 1" [25.4mm] from cabinet

Water connections extend 1.2" [30.5mm] beyond front of cabinet.

The optional 1" filter rack (not shown) has the same return opening connection size as the duct flanges shown in the drawing. The filter rack extends 2.25"(57.1 mm) from the unit.

The optional 1" filter rack is suitable for duct connection.

The optional filter rails (not shown) extend 1.25" (31.75 mm) from cabinet.

The manufacturer works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice. Purchaser's approval of this data set signifies that the equipment is acceptable under the provisions of the job specification. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely the manufacturer's opinion or commendation of its products. York and Affinity are registered trademarks of Johnson Controls, Inc., and are used with permission.

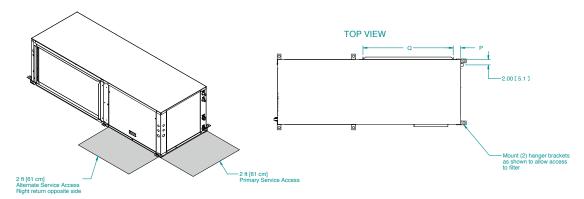
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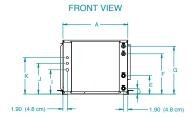
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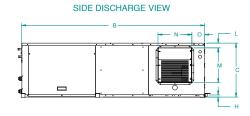
Contractor:	P.O.:
Engineer:	
Proiect Name:	Unit Tag:



### **Horizontal Dimensional Data**









		Ove	erall Ca	binet	Water Connections						Electrical Connections			Discharge Connection			tion	Return Connection			n	
Horiz	ontal	"	run ou									1	J	<b>K</b> 1/2"	D	Duct Flange Installed			R	eturn Du	ict Flange	es e
Model		Α	В	С	D	Е	F	G	Н	Loop	HWG	3/4" cond	.   .		L*	М	N	0*	Р	Q	R	s
		Width	Depth	Height	In	Out	HWG In	HWG Out	Cond- ensate	Water FPT	Sweat (I.D.)	Power Supply	Ext Pump	Low Votage		Supply Height	Supply Depth			Return Depth	Return Height	
024	in.	22.5	53.0	19.3	2.3	5.3	13.8	16.8	0.8	1"	1/2"	8.9	11.5	13.7	1.7	10.5	9.5	8.2	2.2	21.8	16.5	1.5
024	cm.	57.2	134.6	49.0	5.8	13.5	35.1	42.7	2.0	Swivel	female	22.6	29.2	34.8	4.3	26.7	24.1	20.8	5.6	55.4	41.9	3.8
036	in.	22.5	63.0	19.3	2.3	7.3	13.5	16.5	0.8	1"	1/2"	9.5	12.1	14.3	2.3	10.5	9.5	5.7	2.8	30.5	16.7	1.3
036	cm.	57.2	160.0	49.0	5.8	18.5	34.3	41.9	2.0	Swivel	female	24.1	30.7	36.3	5.8	26.7	24.1	14.5	7.1	77.5	42.4	3.3
048-	in.	25.6	72.0	21.3	2.3	7.3	15.9	18.9	0.8	1"	1/2"	9.5	12.1	14.3	1.9	13.6	13.2	5.0	2.9	35.5	18.6	1.3
060	cm.	65.0	182.9	54.1	5.8	18.5	40.4	48.0	2.0	Swivel	female	24.1	30.7	36.3	4.8	34.5	33.5	12.7	7.4	90.2	47.2	3.3
072	in.	25.6	77.0	21.3	2.3	7.3	15.9	18.9	0.8	1"	1/2"	9.5	12.1	14.3	1.9	13.6	13.2	5.0	2.8	40.4	18.7	1.5
0/2	cm.	65.0	195.6	54.1	5.8	18.5	40.4	48.0	2.0	Swivel	female	24.1	30.7	36.3	4.8	34.5	33.5	12.7	7.1	102.6	47.5	3.8

\* Dimensions shown are for left return side discharge other configurations shown in tables below

Condensate is 3/4" PVC female glue socket and is switchable from side to front

Unit shipped with 1" [25.4mm] return duct flanges suitable for duct connection.

Discharge flange is field installed and extends 1" [25.4mm] from cabinet

Water connections extend 1.2" [30.5mm] beyond front of cabinet.

The optional 1" filter rack (not shown) has the same return opening connection size as the duct flanges shown in the drawing. The filter rack extends 2.25"(57.1 mm) from the unit.

The optional 1" filter rack is suitable for duct connection.

The optional filter rack is suitable for duct connection.

The optional filter rails (not shown) extend 1.25" (31.75 mm) from cabinet.

The 024 model is not field convertible changing from end to side discharge. It requires an additional discharge panel (not supplied).

024 Model		L	0
Right Return End	in	2.2	5.7
Discharge	cm	5.6	14.5
Right Return Side	in	6.9	8.3
Discharge	cm	17.5	21.1
Left Return End	in	6.5	7.3
Discharge	cm	16.5	18.5

036 Model		L	0
Right Return End	in	6.5	6.6
Discharge	cm	16.5	16.8
Right Return Side	in	2.3	5.7
Discharge	cm	5.8	14.5
Left Return End	in	6.5	6.6
Discharge	cm	16.5	16.8

048-060 Mode	L	0	
Right Return End	in	1.9	5.0
Discharge	cm	4.8	12.7
Right Return Side	in	5.7	5.0
Discharge	cm	14.5	12.7
Left Return End	in	5.7	4.9
Discharge	cm	14.5	12.4

072 Model		L	0
Right Return End	in	1.9	5.0
Discharge	cm	4.8	12.7
Right Return Side	in	5.7	5.0
Discharge	cm	14.5	12.7
Left Return End	in	5.7	5.0
Discharge	cm	14.5	12.7

7/17/14

Contractor:	P.O.:	
Engineer:		
Proiect Name:	Unit Tag:	



# Physical Data cont.

Madal		Dual Capacity								
Model		024	036	048	060	072				
Compressor (1 each)			Copeland	Ultra Tech, Dua	l Capacity Scroll					
Factory Charge R410a, oz [kg]	Vertical	39 [1.05]	52 [1.47]	68 [1.93]	76 [2.15]	88 [2.49]				
Factory Charge R410a, oz [kg]	Horizontal	38 [1.08]	52 [1.47]	68 [1.93]	72 [2.04]	85 [2.41]				
ECM Blower Motor & Blower	•		•							
Blower Motor Type/Speeds	ECM	5 Speed ECM								
Blower Motor- hp [W]	ECM	1/2 [373]	1/2 [373]	1 [746]	1 [746]	1 [746]				
Blower Wheel Size (Dia x W), in. [mm]	ECM	9 x 7	9 x 7	11 x 10	11 x 10	11 x 10				
blower writeer Size (Dia x w), iii. [iiiiii]	ECIVI	[229 x 178]	[229 x 178]	[279 x 254]	[279 x 254]	[279 x 254]				
Coax and Water Piping										
Water Connections Size - Swivel - in [mm]		1" [25.4]	1" [25.4]	1" [25.4]	1" [25.4]	1" [25.4]				
HWG Connection Size - Female Sweat I.D in [mm]		1/2" [12.7]	1/2" [12.7]	1/2" [12.7]	1/2" [12.7]	1/2" [12.7]				
Coax & Piping Water Volume - gal [I]		.35 [1.3]	.7 [2.6]	.7 [2.6]	1.3 [4.9]	1.6 [6.1]				
Vertical										
Air Coil Dimensions (H x W), in. [mm]		19 x 20	24 x 20	28 x 25	28 x 25	32 x 25				
7 til 30 ii 2 ii 10 ii 30 ii 3 (17 x vv), ii 1. [ii ii i]		[483 x 508]	[610 x 508]	[711 x 635]	[711 x 635]	[813 x 635]				
Air Coil Total Face Area, ft2 [m2]		2.6 [0.245]	3.3 [0.310]	4.9 [0.452]	4.9 [0.452]	5.6 [0.516]				
Air Coil Tube Size, in [mm]		3/8 [9.5]	3/8 [9.5]	3/8 [9.5]	3/8 [9.5]	3/8 [9.5]				
Air Coil Number of rows		3	3	3	3	3				
Optional Filter - 1" [25mm] Pleated MERV8 Throwaway, in [m	ml	20 x 24	24 x 24	28 x 30	28 x 30	30 x 32				
optional rittor in [250mm] ribated in 2000 miles ve in tenantaly, in [mi	''']	[508 x 610]	[610 x 610]	[711 x 762]	[711 x 762]	[762 x 813]				
Weight - Operating, lb [kg]		198 [90]	221 [100]	303 [137]	329 [149]	350 [159]				
Weight - Packaged, lb [kg]		218 [99]	241 [109]	323 [147]	349 [158]	370 [168]				
Horizontal										
Air Coil Dimensions (H x W), in. [mm]		18 x 21	18 x 27	20 x 35	20 x 35	20 x 40				
, , , , ,		[457 x 533]	[457 x 686]	[508 x 889]	[508 x 889]	[508 x 1016]				
Air Coil Total Face Area, ft2 [m2]		2.6 [.244]	3.4 [0.314]	4.9 [0.452]	4.9 [0.452]	5.6 [0.516]				
Air Coil Tube Size, in [mm]		3/8 [9.5]	3/8 [9.5]	3/8 [9.5]	3/8 [9.5]	3/8 [9.5]				
Air Coil Number of rows		3	3	3	3	3				
					1 - 20 x 20					
Optional Filter - 1" [25mm] Pleated MERV8 Throwaway, in [mm]		1 - 18 x 24	1 - 18 x 32	1 - 20 x 37	1 - 20 x 37	[508 x 508]				
		[457 x 610]	[457 x 813]	[508 x 940]	[508 x 940]	1 - 20 x 22 [508 x 559]				
Weight - Operating, lb [kg]	228 [103]	250 [113]	325 [147]	358 [162]	369 [167]					
Weight - Packaged, lb [kg]		248 [112]	270 [122]	345 [156]	378 [171]	389 [176]				

12/14/2016

Contractor:	P.O.:	
Engineer:		
Proiect Name:	Unit Tag:	



## **Auxiliary Heat Ratings**

Madal	KW		04	вти	I/HR	Min OFM			
Model	208V	230V	Stages	208V	230V	Min CFM	024	036	048 - 072
EAM(H)5*	3.6	4.8	1	12,300	16,300	450	•	•	
EAM(H)8*	5.7	7.6	2	19,400	25,900	550	•	•	
EAM(H)10*	7.2	9.6	2	24,600	32,700	650	•	•	
EAL(H)10*	7.2	9.6	2	24,600	32,700	1100			•
EAL(H)15*	10.8	14.4	2	36,900	49,100	1250			•
EAL(H)20*	14.4	19.2	2	49,200	65,500	1500			•

Order the "H" part number when installed on horizontal units Air flow level for auxiliary heat (Aux) must be equal to or above the minimum CFM in this table 6/9/2014

# **Auxiliary Heat Electrical Data**

Model	Supply	Heater Amps		Min Circ	uit Amp	Fuse	(USA)	Fuse (	CAN)	CKT BRK	
Model	Circuit	208 V	240 V	208 V	240 V	208 V	240 V	208 V	240 V	208 V	240 V
EAM(H)5*	Single	17.3	20.0	26.7	30.0	30	30	30	30	30	30
EAM(H)8*	Single	27.5	31.7	39.3	44.6	40	45	40	45	40	45
EAM(H)10*	Single	34.7	40.0	48.3	55.0	50	60	50	60	50	60
EAL(H)10*	Single	34.7	40.0	53.3	60.0	60	60	60	60	60	60
	Single	52.0	60.0	75.0	85.0	80	90	80	90	70	100
EAL(H)15*	L1/L2	34.7	40.0	53.3	60.0	60	60	60	60	60	60
	L3/L4	17.3	20.0	21.7	25.0	25	25	25	25	20	30
	Single	69.3	80.0	96.7	110.0	100	110	100	110	100	100
EAL(H)20*	L1/L2	34.7	40.0	53.3	60.0	60	60	60	60	60	60
	L3/L4	34.7	40.0	43.3	50.0	45	50	45	50	40	50

All heaters rated single phase 60 cycle and include unit fan load All fuses type "D" time delay (or HACR circuit breaker in USA) Supply wire size to be determined by local codes

3/10/14

## **Electrical Data**

### **Dual Capacity Unit with 5 Speed ECM Motor**

Model	Rated	Voltage Min/Max		Comp	ressor		HWG	Ext	Blower	Total	Min	Max
	Voltage		MCC	RLA	LRA	LRA**	Pump FLA	Loop FLA	Motor FLA	Unit FLA	Circ Amp	Fuse/ HACR
024	208-230/60/1	187/253	18.2	11.6	58.3	21.0	0.4	5.4	4.1	21.5	24.5	35
036	208-230/60/1	187/253	23.8	15.2	83.0	30.0	0.4	5.4	4.1	25.1	28.9	40
048	208-230/60/1	187/253	33.0	21.1	104.0	37.0	0.4	5.4	7.6	34.5	39.8	60
060	208-230/60/1	187/253	42.3	27.1	152.9	54.0	0.4	5.4	7.6	40.5	47.2	70
072	208-230/60/1	187/253	46.3	29.6	179.2	63.0	0.4	5.4	7.6	43.0	50.4	80

\*\*With optional IntelliStart Rated Voltage of 208/230/60/1 HACR circuit breaker in USA only All fuses Class RK-5 6/9/14

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



### **Blower Performance Data**

#### **Dual Capacity with 5-Speed ECM**

Model	Motor	Motor	T'stat	Blower	Motor					Airflo	w (cfm	) at Ex	ternal	Static	Pressu	ıre (in	wg)										
wodei	Speed	Тар	Cnct.	Size	HP	0	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.6	0.7	0.8	0.9	1.00						
	High	5	W			1024	1013	1002	988	974	963	951	940	929	901	872	785	691	-	-	-						
	Med High	4	Y2	]		932	917	902	892	882	867	851	842	832	817	802	756	661	-	-	-						
024	Med	3		9 x 7	1/2	835	826	816	801	785	772	759	749	738	719	700	677	636	-	-	-						
	Med Low	2	Y1			765	747	729	720	710	696	681	662	643	627	611	581	515	-	-	-						
	Low	1	G			665	656	647	626	605	593	580	561	541	519	496	443	392	-	-	-						
	High	5	W			1325	1319	1313	1293	1272	1242	1212	1158	1103	1058	1013	930	839	-	-	-						
	Med High	4	Y2			1279	1267	1254	1238	1222	1203	1184	1137	1089	1049	1008	926	836	-	-	-						
036	Med	3		9 x 7	1/2	1229	1218	1206	1187	1167	1154	1140	1110	1079	1044	1008	929	829	-	-	-						
	Med Low	2	Y1			1201	1184	1167	1156	1145	1129	1113	1086	1058	1028	997	914	808	-	-	-						
	Low	1	G						1007	989	971	958	945	925	904	889	873	862	850	818	778	-	-	-			
	High	5	W	11 x 10			ļ	ļ	ļ	ļ		1890	1874	1857	1845	1833	1809	1784	1769	1754	1736	1718	1672	1629	1601	1562	1522
	Med High	4	Y2			1769	1754	1739	1721	1703	1685	1666	1645	1623	1604	1585	1539	1499	1463	1432	1376						
048	Med	3			10 1	1671	1652	1632	1614	1595	1576	1557	1536	1514	1494	1474	1430	1387	1351	1313	1173						
	Med Low	2	Y1			1574	1555	1535	1514	1492	1472	1452	1431	1410	1387	1363	1330	1284	1236	1108	1014						
	Low	1	G			1388	1370	1352	1322	1292	1264	1236	1216	1195	1178	1161	1095	984	916	842	787						
	High	5	W			2077	2066	2055	2044	2033	2017	2000	1966	1931	1904	1877	1841	1810	1791	1740	1653						
	Med High	4	Y2			1948	1937	1925	1910	1895	1880	1865	1831	1797	_	1759	1720	1707	1680	1660	1612						
060	Med	3		11 x 10	1	1810	1794	1778	1739	1700	1684	1667	1657	1646	1629	1612	1576	1583	1547	1510	1480						
	Med Low	2	Y1			1680	1667	1653	1618	1583	1562	1540	1522	1503	1488	1473	1465	1449	1410	1369	1319						
	Low	1	G			1594	1572	1550	1512	1474	1450	1426	1410	1393	1385	1376	1351	1325	1290	1168	1085						
	High	5	W			2402	2388	2373	2358	2343	2334	2325	2307	2289	2274	2258	2215	2177	2125	2052	1933						
	Med High	4	Y2			2209	2193	2177	2164	2151	2135	2118	2105	2092	2072	2052	2017	1982	1954	1925	1844						
072	Med	3		11 x 10	1	2085	2072	2058	2045	2031	2010	1989	1972	1954	1936	1918	1881	1852	1821	1790	1751						
	Med Low	2	Y1			1961	1951	1940	1926	1911	1885	1859	1844	1829	1814	1798	1759	1727	1703	1670	1636						
	Low	1	G			1767	1751	1735	1715	1694	1678	1661	1640	1619	1602	1584	1548	1512	1475	1426	1397						
-actory s	speed setting	s are in	Bold																	7.	/30/14						

Air flow values are with dry coil and standard filter

For wet coil performance first calculate the face velocity of the air coil (Face Velocity [fpm] = Airflow [cfm] / Face Area [sq ft]).

Then for velocities of 200 fpm reduce the static capability by 0.03 in. wg, 300 fpm by 0.08 in. wg, 400 fpm by 0.12in. wg., and 500 fpm by 0.16 in. wg.

Highest setting is for auxiliary heat (W) and lowest setting is for constant blower (G). The "Y1" and "Y2" settings must be between the "G" and "W" settings.

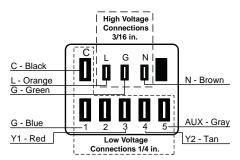
### Setting Blower Speed - 5-Speed ECM

5-Speed ECM blower motors have five (5) speeds of which four (4) are selectable on dual capacity.



CAUTION: Disconnect all power before performing this operation.

5-Speed ECM Motor Connections - Dual Capacity



Contractor:	P.O.:	LX Dual Capacity Series 2 - 6 Tons 60Hz
Engineer:		
Project Name:	Unit Tag:	

**YORK®** 

## **Operating Limits**

Operating Limits	Cool	ing	Hea	iting
	(°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

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

### **Definitions**

ΗE

#### **Abbreviations and Definitions**

cfm = airflow, cubic feet/minute HWC = hot water generator capacity, MBtu/h EWT = entering water temperature, Fahrenheit EER = Energy Efficient Ratio

gpm = water flow in gallons/minute = Btu output/Watt input

WPD = water pressure drop, psi and feet of water COP = Coefficient of Performance

EAT = entering air temperature, Fahrenheit (dry bulb/wet bulb) = Btu output/Btu input

= air heating capacity, MBtu/h LWT = leaving water temperature, °F = total cooling capacity, MBtu/h LAT = leaving air temperature, °F = sensible cooling capacity, MBtu/h = total heating capacity, MBtu/h = total power unit input, kilowatts LC = latent cooling capacity, MBtu/h = total heat of rejection, MBtu/h S/T = sensible to total cooling ratio

**Notes to Performance Data Tables** 

= total heat of extraction, MBtu/h

The following notes apply to all performance data tables:

- Performance ratings are based on 80°F DB/67°F WB EAT for cooling and 70°F DB EAT for heating.
- Three flow rates are shown for each unit. The lowest flow rate shown is used for geothermal open loop/well water systems with a minimum of 50°F EWT. The middle flow rate shown is the minimum geothermal closed loop flow rate. The highest flow rate shown is optimum for geothermal closed loop systems and the suggested flow rate for boiler/tower applications.
- The hot water generator numbers are based on a flow rate of 0.4 gpm/ton of rated capacity with an EWT of 90°F.
- Entering water temperatures below 40°F assumes 15% antifreeze solution.
- For non-standard EAT conditions, apply the appropriate Correction Factor tables.
- Interpolation between EWT, gpm, and cfm data is permissible, extrapolation is not.

Contractor:	P.O.:	
Engineer:		
Proiect Name:	Unit Tag:	



# **Correction Factor Tables**

Air Flow Corrections (Dual Capacity Part Load)

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

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

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

#### **Cooling Capacity Corrections**

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

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

3/28/12

### **Heating Capacity Corrections**

3 - 4									
Ent Air DB °F	Heating Corrections								
EIILAII DB F	Htg Cap	Power	Heat of Ext						
45	1.062	0.739	1.158						
50	1.050	0.790	1.130						
55	1.037	0.842	1.096						
60	1.025	0.893	1.064						
65	1.012	0.945	1.030						
68	1.005	0.976	1.012						
70	1.000	1.000	1.000						
75	0.987	1.048	0.970						
80	0.975	1.099	0.930						

11/10/09

Contractor:	P.O.:	LX Dual Capacity Series 2 - 6 Tons 60Hz
Engineer:		
Project Name:	Unit Tag:	

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# **Antifreeze Corrections**

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

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



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

### **Antifreeze Correction Example**

Antifreeze solution is Propylene Glycol 20% by weight. Determine the corrected heating and cooling performance at 30°F and 90°F respectively as well as pressure drop at 30°F for a 036.

The corrected cooling capacity at 90°F would be: 34,800 Btu/h x 0.969 = 33,721 Btu/h

The corrected heating capacity at 30°F would be: 29,300 Btu/h x 0.913 = 26,750 Btu/h

The corrected pressure drop at 30°F and 9 gpm would be: 13.4 feet of head x 1.270 = 17.02 feet of head

LX Dual	Capacity	Series
	2 - 6 Ton	s 60Hz

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



# **Pressure Drop**

Model	GPM	Pressure Drop (psi)												
Wodei	GPIVI	30°F	50°F	70°F	90°F	110°F								
	4	2.3	2.1	2.0	1.9	1.7								
024 Full	6	4.5	4.3	4.0	3.7	3.5								
Load	8	7.5	7.0	6.6	6.1	5.7								
	10	10.5	9.7	9.9	8.5	7.9								
	3	1.5	1.4	1.3	1.2	1.1								
024 Part	5	3.3	3.1	2.9	2.7	2.5								
Load	7	5.9	5.6	5.2	4.8	4.5								
	9	8.5	8.1	8.2	6.9	6.5								
	5	1.9	1.8	1.7	1.6	1.5								
036 Full	7	3.6	3.4	3.2	3.0	2.9								
Load	9	5.8	5.4	5.1	4.8	4.6								
	11	8.0	7.4	7.4	6.6	6.3								
	4	1.4	1.3	1.2	1.2	1.0								
036 Part	6	2.7	2.6	2.4	2.3	2.1								
Load	8	4.7	4.4	4.1	4.0	3.5								
	10	6.7	6.2	6.2	5.7	4.9								
	6	1.7	1.6	1.5	1.4	1.3								
048 Full	9	3.9	3.6	3.4	3.2	3.1								
Load	12	7.0	6.6	6.2	5.8	5.6								
	15	10.1	9.6	9.8	8.4	8.1								
	5	1.1	1.1	1.0	0.9	0.9								
048 Part	8	3.1	2.9	2.7	2.5	2.3								
Load	11	5.9	5.6	5.2	4.8	4.5								
	14	8.7	8.3	8.5	7.1	6.7								
	8	2.8	2.7	2.5	2.3	2.2								
060 Full	12	5.8	5.4	5.1	4.8	4.4								
Load	16	9.8	9.2	8.6	8.0	7.4								
	20	13.8	13.0	13.0	11.2	10.4								
	6	1.7	1.6	1.5	1.4	1.3								
060 Part	10	4.2	4.0	3.7	3.4	3.2								
Load	14	7.6	7.2	6.7	6.2	5.8								
	18	11.0	10.4	10.7	9.0	8.4								
	12	3.8	3.6	3.4	3.1	2.9								
072 Full	15	5.7	5.3	5.0	4.7	4.3								
Load	18	7.8	7.4	6.9	6.4	6.0								
	21	9.9	9.5	9.1	8.1	7.7								
	10	2.8	2.7	2.5	2.3	2.2								
072 Part	13	4.4	4.2	3.9	3.6	3.4								
Load	16	6.4	6.0	5.6	5.2	4.8								
	19	8.4	7.8	7.6	6.8	6.2								

7/18/14

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



Fig.	024 -	Full	Load	Dual	Capac	ity witl	h 5-Sp	eed E0	CM (8	00 cf	m)								
Fr	E)A/T		WI	PD			HEATIN	IG - EAT	70°F					coo	LING - E	AT 80/67	°F		
20			PSI	FT						СОР								EER	
20		4.0	2.3	5.4															
4.0   2.3   5.3   Control   5.5   5.1   1.3   8.0   1.3   9.1   3.1   9.1   3.1	20	6.0	4.7	10.8			peration r	not recom	mended					Opera	tion not i	recommen	ided		
80		8.0	7.7	17.8						!									
80		4.0	2.3	5.3		0	peration r	not recom	mended	1				Opera	tion not i	recommen	ided		
80	20	6.0	4.5	10.5															
4.0   2.2   5.1	30																		
40					800						2.2	800	25.4	18.6	0.73	1.02	28.9	25.0	-
40   0.0   4.4   10.2   800   21.5   1.62   16.0   94.9   3.90   2.3   800   25.4   18.8   0.74   1.15   29.4   22.1		4.0	2.2	5.1															
8.0	40	6.0	4.4	10.2															
10	40			-	-														
4.0		8.0	7.3	16.8															
SO   SO   SO   SO   SO   SO   SO   SO		4.0	2.4	4.0						-	•	-	-				-		1.1
6.0		4.0	2.1	4.9	800	23.3				4.15		800	25.2	17.6	0.70	1.32	29.8	19.1	1.2
8.0   7.0   16.3   800   24.2   1.68   18.4   98.0   4.20   2.9   600   22.8   17.8   0.99   1.16   22.7   21.4   1.0	50	6.0	4.3	9.9						!			<del></del>						
8.0   7.0   16.3   800   24.7   1.69   18.9   98.6   4.27   2.6   800   26.0   19.0   0.73   1.22   30.2   21.4   1.1																			
4.0		8.0	7.0	16.3						!		!							
60		<del>                                     </del>		<del>                                     </del>	-						-		-						
60		4.0	2.1	4.8															
8.0 6.8 15.8 600 26.5 1.7.4 20.5 110.8 4.45 3.2 600 25.1 17.7 0.70 1.36 29.8 18.5 1.4 18.0 6.0 6.0 6.0 1.27 28.6 19.0 1.1 1.3 1.4 11.5 1.5 1.5 1.2 1.2 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	-		4.4	0.0	600	25.8	1.73	20.0	109.9	4.39	3.0	600	24.0	15.9	0.66	1.30	28.4	18.4	1.2
8.0	60	6.0	4.1	9.6	800	26.7	1.74	20.8	100.9	4.50		800	25.1	17.7	0.70	1.36	29.8	18.5	1.4
## According to the composition of the composition		8.0	6.8	15.8							-								
10				1															
70         6.0         4.0         9.2         600         28.3         1.79         22.1         113.6         4.62         3.4         600         23.5         15.8         0.67         1.42         28.4         16.5         1.5           8.0         6.6         15.3         600         29.2         1.79         23.1         103.8         4.77         3.1         800         24.5         11.5         0.72         1.47         29.5         16.6         1.7           8.0         6.6         15.3         600         29.0         1.82         22.8         114.7         4.68         3.5         600         24.8         18.2         0.74         1.45         29.7         17.2         1.6           80         3.9         8.9         6.00         28.9         1.80         22.8         114.6         4.71         3.6         600         21.9         15.5         0.71         1.63         22.7         17.2         1.6           80         3.9         8.9         600         30.6         1.87         22.3         10.6         4.91         3.3         800         22.8         17.2         0.75         1.6         2.0         4.0		4.0	2.0	4.6															
No.   Section																			
8.0   6.6   15.3   600   29.0   1.82   22.8   114.7   4.68   3.5   600   23.7   16.5   0.69   1.39   28.5   17.1   1.4	70	6.0	6.0 4.0	9.2															
## According to the companies of the com		0.0			45.0	600	29.0	1.82	22.8		4.68					0.69	1.39		17.1
80         4.0         1.9         4.5         800         29.9         1.78         23.8         104.6         4.91         3.3         800         22.8         17.2         0.75         1.68         28.5         13.5         2.1           8.0         3.9         8.9         600         30.6         1.87         24.2         117.1         4.79         3.7         600         22.5         15.7         0.70         1.58         27.9         14.3         1.9           8.0         6.4         14.7         600         31.4         1.89         25.0         118.5         4.87         3.9         600         22.8         16.1         0.70         1.54         28.0         14.8         1.8           4.0         1.9         4.3         600         30.9         1.86         24.6         11.7         4.87         3.9         600         22.8         16.1         0.70         1.54         28.0         14.8         1.8           4.0         1.9         4.3         600         32.0         1.88         25.8         107.0         5.12         3.7         800         21.7         17.0         0.78         1.82         27.9         11.9 <t< th=""><th></th><th>0.0</th><th>0.0</th><th>15.5</th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th></th></t<>		0.0	0.0	15.5							-		-						
80		4.0	1.9	4.5															
80				-															
8.0	80	6.0	3.9	8.9														_	
90       6.4       14.7       800       32.5       1.87       26.1       107.6       5.11       3.6       800       23.7       17.8       0.75       1.59       29.1       14.9       2.0         4.0       1.9       4.3       600       30.9       1.86       24.6       117.7       4.87       3.9       600       21.0       15.3       0.73       1.78       27.0       11.8       2.5         80       3.7       8.6       600       32.8       1.94       26.2       120.7       4.95       4.1       600       21.0       15.5       0.72       1.73       27.5       12.5       2.4         8.0       6.1       14.2       600       33.9       1.91       27.5       109.4       5.22       3.8       800       22.4       17.2       0.77       1.73       27.5       12.5       2.4         4.0       1.8       4.2       4.0       1.8       4.2       4.0       8.0       3.6       8.3       8.0       5.9       13.7       1.74       28.4       12.6       2.6         4.0       1.7       4.0       1.8       4.2       4.0       1.8       4.2       4.0       8.0 <th></th>																			
90   4.0   1.9   4.3   800   32.0   1.83   25.8   107.0   5.12   3.7   800   21.7   17.0   0.78   1.82   27.9   11.9   2.7		8.0	6.4	14.7															
90		4 0	19	4.3															
100   6.0   3.7   8.6   800   34.0   1.91   27.5   109.4   5.22   3.8   800   22.4   17.2   0.77   1.77   28.4   12.6   2.6				1															
100	90	6.0	3.7	8.6															
100   1.8   4.2   800   35.0   1.92   28.5   110.6   5.34   4.0   800   22.6   17.3   0.77   1.74   28.5   13.0   2.5																			
100   1.8   4.2		8.0	6.1	14.2															
100		4.0	1.8	4.2															
100   6.0   3.6   8.3   8.0   5.9   13.7   13.7   14.0   6.0   3.5   8.0   5.7   13.2   13.2   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   3.8   14.0   1.7   15.7   15.7   15.7   15.7   15.8   15.2   17.5				i	1							600	20.4					10.6	2.9
8.0 5.9 13.7  4.0 1.7 4.0  6.0 3.5 8.0 Operation not recommended  Operation not recommended  600 19.2 15.0 0.78 2.11 26.4 9.1 3.7  800 19.8 16.6 0.84 2.12 27.0 9.3 4.0  800 19.4 14.8 0.76 2.07 26.5 9.4 3.4  800 20.0 16.3 0.82 2.09 27.1 9.5 3.8  Operation not recommended  600 17.4 14.4 0.83 2.31 25.3 7.5 4.3  800 17.7 15.7 0.88 2.37 25.8 7.5 4.7  600 17.5 14.4 0.82 2.23 25.2 7.9 4.0	100	6.0	3.6	8.3								800	21.1	16.9	0.80	1.95	27.7	10.8	3.2
110 4.0 1.7 4.0   Operation not recommended   Operation no		8.0	5.9	13.7												<del> </del>			
110 6.0 3.5 8.0 Operation not recommended 600 19.2 15.0 0.78 2.11 26.4 9.1 3.7 800 19.8 16.6 0.84 2.12 27.0 9.3 4.0 800 19.4 14.8 0.76 2.07 26.5 9.4 3.4 800 20.0 16.3 0.82 2.09 27.1 9.5 3.8 800 20.0 16.3 0.82 2.09 27.1 9.5 3.8 800 20.0 16.3 0.82 2.09 27.1 9.5 3.8 800 20.0 16.3 0.82 2.09 27.1 9.5 3.8 800 20.0 17.4 14.4 0.83 2.31 25.3 7.5 4.3 800 17.7 15.7 0.88 2.37 25.8 7.5 4.7 800 17.5 14.4 0.82 2.23 25.2 7.9 4.0					-							800	21.3					11.1	3.0
110 6.0 3.5 8.0 Operation not recommended 800 19.8 16.6 0.84 2.12 27.0 9.3 4.0 600 19.4 14.8 0.76 2.07 26.5 9.4 3.4 800 20.0 16.3 0.82 2.09 27.1 9.5 3.8 Operation not recommended 800 17.7 15.7 0.88 2.37 25.8 7.5 4.7 600 17.5 14.4 0.82 2.23 25.2 7.9 4.0		4.0	1.7	4.0								600	10.2					0 1	3.7
8.0 5.7 13.2	110	6.0	3.5	8.0		0	peration r	not recom	mended										
4.0 1.7 3.8  6.0 3.3 7.7  8.0 5.5 12.7		8 0	5.7	122								600	19.4	14.8	0.76	2.07	26.5	9.4	3.4
6.0     3.3     7.7       8.0     5.5     12.7         600     17.4     14.4     0.83     2.31     25.3     7.5     4.3       800     17.7     15.7     0.88     2.37     25.8     7.5     4.7       600     17.5     14.4     0.82     2.23     25.2     7.9     4.0				_								800	20.0					9.5	3.8
800     17.7     15.7     0.88     2.37     25.8     7.5     4.7       800     17.7     15.7     0.88     2.37     25.8     7.5     4.7       800     17.5     14.4     0.82     2.23     25.2     7.9     4.0		4.0	1.7	3.8															
80 55 127	120	6.0	3.3	7.7															
	120			<u> </u>	1														
		8.0	5.5	12.7															

Performance capacities shown in thousands of Mbtu/h.

7/18/14

Contractor:	P.O.:	
Engineer:		
Proiect Name:	Unit Tag:	



### 024 - Part Load Dual Capacity with 5-Speed ECM (600 cfm)

024 - F	art L	_	_	I Capa	icity w				600 0	rm)	COOLING - EAT 80/67 °F							
EWT	Flow	WI	PD	A ! Cl	l 110		IG - EAT			LUMO	Aladiana	T-0						Luvo
°F	gpm	PSI	FT	Airflow cfm	HC Mbtu/h	Power kW	HE Mbtu/h	LAT °F	COP	HWC Mbtu/h	Airflow cfm	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
	3.0	1.5	3.5	<b>VIIII</b>														1111111111111
20	5.0	3.4	7.8		O	peration r	not recom	mended					Opera	tion not	recomme	ndod		
20	7.0	6.1	14.1	500	11.6	1.17	7.6	91.4	2.89	1.8			Opera	tion not	recomme	ilueu		
				600	12.0	1.20	7.9	88.6	2.93	1.7								
	3.0	1.5	3.4	500	12.7	peration r 1.16	8.8	mended 93.6	3.22	1.7	500	17.7	12.6	0.71	0.64	19.9	27.7	Ι -
30	5.0	3.3	7.6	600	13.3	1.19	9.2	90.5	3.27	1.6	600	18.0	13.7	0.71	0.67	20.3	26.7	-
			40.7	500	13.6	1.19	9.5	95.1	3.35	1.8	500	17.8	12.6	0.71	0.62	19.9	28.7	-
	7.0	5.9	13.7	600	14.1	1.22	10.0	91.8	3.40	1.7	600	18.2	13.7	0.75	0.65	20.5	28.0	-
	3.0	1.4	3.3			peration r									recomme			
	5.0	3.2	7.4	500	14.8	1.18	10.8	97.4	3.68	1.7	500	18.0	12.7	0.71	0.71	20.4	25.3	-
40				600 500	15.3	1.20 1.21	11.2 11.5	93.7 98.9	3.73	1.6	600 500	18.3	13.9 12.7	0.76 0.70	0.75 0.69	20.9	24.5 26.2	-
	7.0	5.7	13.2	600	15.6 16.1	1.23	11.5	98.9	3.78	1.8 1.7	600	18.1 18.5	13.9	0.70	0.69	21.0	25.7	-
	<del> </del>		<b>.</b>	500	16.3	1.20	12.2	100.2	3.97	1.8	500	17.8	12.3	0.69	0.80	20.6	22.2	0.5
	3.0	1.4	3.2	600	16.8	1.22	12.6	95.9	4.04	1.7	600	18.3	13.6	0.74	0.82	21.1	22.4	0.6
50	5.0	3.1	7.2	500	16.9	1.20	12.8	101.2	4.11	1.8	500	18.0	12.4	0.69	0.78	20.7	23.0	0.5
		J. 1	1.2	600	17.4	1.22	13.2	96.8	4.18	1.7	600	18.5	13.7	0.74	0.80	21.2	23.2	0.6
	7.0	5.6	12.8	500	17.7	1.23	13.5	102.7	4.20	2.0	500	18.3	12.7	0.69	0.78	21.0	23.6	0.5
	-			600 500	18.2 18.3	1.25 1.23	13.9 14.1	98.1	4.28	1.8 2.0	600 500	18.8 17.3	14.1 12.0	0.75 0.69	0.79	21.5 20.4	23.7 19.2	0.5 0.7
	3.0	1.3	3.1	600	18.8	1.24	14.6	99.0	4.45	1.8	600	17.8	13.3	0.74	0.92	21.0	19.3	0.7
				500	19.1	1.23	14.9	105.3	4.55	2.0	500	17.5	12.1	0.69	0.88	20.5	19.9	0.7
60	5.0	3.0	6.9	600	19.5	1.23	15.3	100.1	4.63	1.9	600	18.0	13.3	0.74	0.90	21.0	20.0	0.8
	7.0	5.4	12.4	500	19.7	1.26	15.5	106.5	4.61	2.1	500	17.8	12.4	0.70	0.87	20.8	20.4	0.6
				600	20.2	1.26	15.9	101.1	4.69	1.9	600	18.3	13.7	0.75	0.89	21.3	20.6	0.7
	3.0	1.3	3.0	500 600	20.4	1.26 1.26	16.1 16.5	107.7	4.75 4.84	2.2	500 600	16.8 17.3	11.7 12.9	0.69 0.75	1.00	20.3	16.8 16.9	1.0 1.1
	_	2.9	$\vdash$	500	21.2	1.25	17.0	102.0	4.97	2.2	500	17.0	11.7	0.73	0.98	20.8	17.4	0.9
70	5.0	2.9	6.7	600	21.6	1.25	17.4	103.4	5.07	2.0	600	17.5	13.0	0.74	1.00	20.9	17.5	1.0
	7.0	5.2	12.0	500	21.8	1.28	17.4	110.4	4.99	2.3	500	17.3	12.0	0.70	0.97	20.6	17.8	0.9
	7.0	5.2	12.0	600	22.2	1.28	17.8	104.2	5.09	2.1	600	17.8	13.3	0.75	0.99	21.1	18.0	1.0
	3.0	1.3	2.9	500	22.4	1.28	18.0	111.4	5.11	2.5	500	16.0	11.4	0.71	1.13	19.9	14.2	1.4
	-			600 500	22.7 23.4	1.28 1.28	18.3 19.1	105.0 113.4	5.21 5.39	2.2	600 500	16.5 16.2	12.6 11.4	0.76 0.71	1.16 1.10	20.4	14.3 14.7	1.5 1.3
80	5.0	2.8	6.5	600	23.7	1.27	19.4	106.6	5.49	2.3	600	16.6	12.6	0.76	1.13	20.5	14.8	1.4
			44.0	500	23.8	1.30	19.3	114.0	5.35	2.6	500	16.5	11.7	0.71	1.09	20.2	15.0	1.2
	7.0	5.0	11.6	600	24.0	1.29	19.6	107.1	5.46	2.4	600	16.9	13.0	0.77	1.12	20.7	15.2	1.3
	3.0	1.2	2.8	500	24.4	1.31	19.9	115.1	5.45	2.8	500	15.3	11.0	0.72	1.26	19.6	12.1	1.9
	0.0	1.2		600	24.6	1.29	20.1	107.9	5.56	2.5	600	15.7	12.2	0.78	1.29	20.1	12.2	2.0
90	5.0	2.7	6.2	500 600	25.6 25.8	1.30 1.28	21.2 21.4	117.4 109.8	5.78 5.90	2.9	500 600	15.4 15.8	11.1 12.3	0.72 0.78	1.23 1.26	19.6 20.1	12.5 12.6	1.8 1.9
				500	25.6	1.32	21.4	117.6	5.70	2.0	500	15.6	11.4	0.78	1.20	19.8	12.8	1.7
	7.0	4.8	11.2	600	25.8	1.30	21.4	109.9	5.81	2.6	600	16.1	12.6	0.78	1.25	20.3	12.9	1.9
	3.0	1.2	2.7				•					•	Opera	tion not	recomme	nded		
	5.0	2.6	6.0								500	14.5	10.8	0.75	1.40	19.2	10.3	2.3
100	0.0	2.0	0.0								600	14.9	12.0	0.81	1.43	19.7	10.4	2.5
	7.0	4.7	10.8								500 600	14.7	11.1 12.3	0.75	1.39	19.4 19.9	10.6	2.1
	3.0	1.1	2.6								600	15.1		0.81	1.41 recomme		10.7	2.4
											500	13.5	10.5	0.78	1.57	18.9	8.7	3.1
110	5.0	2.5	5.8		0	peration r	ot recom	mended			600	13.9	11.7	0.84	1.60	19.4	8.7	3.3
	7.0	4.5	10.4								500	13.8	10.8	0.78	1.55	19.1	8.9	2.9
											600	14.2	12.0	0.85	1.58	19.5	8.9	3.2
	3.0	1.1	2.5								500	40.0			recomme		7.4	0.7
120	5.0	2.4	5.6								500 600	12.6 12.8	10.5 11.4	0.83	1.77 1.82	18.7 19.0	7.1	3.7 4.0
120	_										500	12.8	10.5	0.89	1.72	18.6	7.0	3.4
	7.0	4.3	10.0								600	13.0	11.4	0.88	1.77	19.0	7.3	3.8
Dorformo	200 000	ocitios	chow	n in thous	ands of M	lhtu/h												7/18/14

Performance capacities shown in thousands of Mbtu/h.

7/18/14

Contractor:	P.O.:	
Engineer:		
Proiect Name:	Unit Tag:	



### 036 - Full Load Dual Capacity with 5-Speed ECM (1200 cfm)

		_	PD	п Сара	acity v	VITH 5-S	IG - EAT		(1200	Cilli			COO	LING - E	AT 80/67	°F		
°F	Flow gpm			Airflow	нс	Power	HE	LAT	000	HWC	Airflow	TC	sc	S/T	Power	HR	FED	нжс
		PSI	FT	cfm	MBtu/h	kW	MBtu/h	°F	СОР	MBtu/h	cfm	MBtu/h	MBtu/h	Ratio	kW	MBtu/h	EER	MBtu/h
	5.0	2.0	4.6		C	Operation r	not recom	mended										
20	7.0	3.7	8.7	1000	24.4	2.27	16.6	92.6	3.15	3.3			Operat	ion not re	ecommen	ded		
	9.0	6.0	13.8	1200	25.2	2.34	17.2	89.4	3.16	3.0								
	5.0	1.9	4.5			peration r	not recom	mended						ion not re	ecommen			
30	7.0	3.6	8.4	1000	27.9	2.32	20.0	95.8	3.53	3.5	1000	34.1	21.8	0.64	1.58	39.5	21.7	
30		l		1200 1000	28.7 28.3	2.39 2.34	20.5	92.1 96.2	3.52 3.55	3.2 3.6	1200 1000	34.7 34.3	23.9 21.8	0.69 0.64	1.66 1.53	40.3 39.5	20.9 22.4	
	9.0	5.8	13.4	1200	29.3	2.41	21.0	92.6	3.55	3.3	1200	35.1	23.9	0.68	1.61	40.6	21.9	- 1
	5.0	1.9	4.3			Operation r	not recom	mended					Operat	ion not re	ecommen	ded		
	7.0	3.5	8.2	1000	31.6	2.43	23.3	99.3	3.81	3.8	1000	36.2	24.0	0.66	1.73	42.1	20.9	-
40				1200	32.6	2.48	24.1	95.2	3.85	3.5	1200	36.9	26.1	0.71	1.81	43.1	20.3	
	9.0	5.6	13.0	1000 1200	32.3	2.46	23.9	99.9	3.85 3.89	3.9	1000 1200	36.5	24.0	0.66	1.68	42.2	21.7	-
				1000	33.3 34.1	2.51 2.49	24.7 25.7	95.7 101.6	4.02	3.6 4.1	1000	37.3 36.3	26.1 23.7	0.70 0.65	1.75 1.97	43.3 43.1	21.3 18.4	1.8
	5.0	1.8	4.2	1200	35.2	2.52	26.6	97.1	4.08	3.8	1200	38.2	26.3	0.69	2.08	45.3	18.4	1.9
				1000	35.4	2.55	26.7	102.8	4.07	4.2	1000	37.1	24.0	0.65	1.86	43.5	20.0	1.7
50	7.0	3.4	7.9	1200	36.5	2.58	27.7	98.2	4.15	3.9	1200	39.0	26.6	0.68	1.95	45.7	20.0	1.8
	9.0	5.4	12.6	1000	36.2	2.57	27.4	103.5	4.13	4.4	1000	37.5	25.6	0.68	1.81	43.7	20.7	1.6
	9.0	3.4	12.0	1200	37.3	2.60	28.4	98.8	4.20	4.0	1200	39.5	28.4	0.72	1.90	46.0	20.7	1.7
	5.0	1.8	4.1	1000	37.5	2.59	28.6	104.7	4.24	4.6	1000	35.8	24.1	0.67	2.14	43.1	16.7	2.1
				1200	38.7	2.61	29.8	99.9	4.35	4.2	1200	37.5	26.8	0.71	2.24	45.2	16.8	2.3
60	7.0	3.3	7.6	1000 1200	39.2 40.4	2.67 2.68	30.1	106.3 101.2	4.31 4.42	4.7 4.4	1000 1200	36.6 38.4	24.4	0.67	2.04	43.6 45.6	18.0	2.0
				1000	40.4	2.69	30.9	107.2	4.42	4.4	1000	37.0	27.0 25.7	0.70 0.69	1.99	43.8	18.1 18.6	1.9
	9.0	5.3	12.2	1200	41.4	2.71	32.2	102.0	4.49	4.5	1200	38.8	28.5	0.73	2.08	45.9	18.7	2.1
				1000	40.9	2.70	31.7	107.8	4.44	5.1	1000	35.2	24.5	0.69	2.32	43.1	15.2	2.6
	5.0	1.7	3.9	1200	42.3	2.70	33.1	102.6	4.60	4.7	1200	36.8	27.2	0.74	2.40	45.0	15.3	2.8
70	7.0 3.2	3 2	7.4	1000	43.0	2.78	33.5	109.8	4.52	5.3	1000	36.1	24.8	0.69	2.22	43.7	16.3	2.4
′°		+	7.4	1200	44.4	2.78	34.9	104.2	4.67	4.9	1200	37.7	27.4	0.73	2.29	45.5	16.4	2.7
			11.8	1000	44.1	2.82	34.5	110.8	4.58	5.4	1000	36.5	25.7	0.71	2.16	43.9	16.9	2.3
$\vdash$				1200	45.6	2.81	36.0	105.2	4.76	5.0	1200	38.1	28.5	0.75	2.25	45.8	17.0	2.5
	5.0	1.6	3.8	1000 1200	44.1 45.7	2.82 2.80	34.5 36.1	110.8 105.2	4.59 4.79	5.8 5.4	1000 1200	33.7 35.1	24.3 27.1	0.72 0.77	2.53	42.3 43.9	13.3 13.5	3.2
				1000	46.7	2.93	36.7	113.2	4.67	6.0	1000	34.6	24.6	0.71	2.44	43.0	14.2	3.0
80	7.0	3.1	7.1	1200	48.2	2.90	38.3	107.2	4.87	5.6	1200	36.0	27.3	0.76	2.51	44.6	14.4	3.3
	0.0	4.0	44.4	1000	48.0	2.97	37.9	114.4	4.74	6.2	1000	35.0	25.3	0.72	2.39	43.2	14.7	2.8
	9.0	4.9	11.4	1200	49.6	2.92	39.7	108.3	4.98	5.7	1200	36.5	28.0	0.77	2.46	44.8	14.8	3.1
	5.0	1.6	3.7	1000	47.4	2.94	37.3	113.9	4.72	6.6	1000	32.2	24.2	0.75	2.74	41.5	11.8	4.1
			J	1200	49.0	2.90	39.2	107.8	4.96	6.1	1200	33.3	26.9	0.81	2.81	42.9	11.9	4.3
90	7.0	3.0	6.9	1000	50.3	3.07	39.9	116.6	4.80	6.8	1000	33.2	24.6	0.74	2.66	42.2	12.5	3.8
				1200 1000	52.1 51.9	3.02 3.12	41.8 41.3	110.2 118.1	5.06 4.88	6.3 7.0	1200 1000	34.4 33.5	27.2 24.8	0.79 0.74	2.73	43.7 42.5	12.6 12.8	4.1 3.5
	9.0	4.8	11.0	1200	53.7	3.04	43.3	111.4	5.18	6.5	1200	34.8	27.4	0.79	2.67	43.9	13.0	3.9
	5.0	1.5	3.5												ecommen			
		i									1000	31.2	24.0	0.77	2.95	41.3	10.6	4.6
100	7.0	2.9	6.6								1200	32.3	26.7	0.83	3.00	42.5	10.8	5.0
	9.0	46	10.6								1000	31.6	24.0	0.76	2.90	41.5	10.9	4.3
$\square$			Щ								1200	32.6	26.5	0.81	2.95	42.7	11.1	4.7
	5.0	1.5	3.4								4000	00.4			ecommen		0.0	
110	7.0	2.8	6.4			Operation r	not recom	mandad			1000 1200	29.4 30.2	23.5 26.1	0.80 0.87	3.25 3.27	40.4 41.3	9.0	5.8 6.2
'''						peration	or recom	menueu			1000	29.7	23.2	0.87	3.19	40.5	9.2	5.4
	9.0	4.4	10.2								1200	30.5	25.6	0.76	3.19	41.5	9.4	5.9
М	5.0	1.4	3.3												ecommen			
											1000	27.3	22.6	0.83	3.57	39.5	7.6	6.9
120	7.0	2.7	6.1								1200	27.8	24.5	0.88	3.67	40.3	7.6	7.4
	9.0	4.2	9.8								1000	27.5	22.6	0.82	3.46	39.3	8.0	6.4
		L		un in thou							1200	28.1	24.5	0.87	3.57	40.3	7.9	7.1

Performance capacities shown in thousands of Mbtu/h.

7/18/14

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



036 -	Part	Loa	d Du	al Capa	city w	ith 5-S	peed E												
EWT	Flow	W	PD			HEATING	- EAT 70	)°F			COOLING - EAT 80/67 °F								
°F	gpm	PSI	FT	Airflow cfm	HC Mbtu/h	Power kW	HE Mbtu/h	LAT °F	СОР	HWC Mbtu/h	Airflow cfm	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h	
	4.0 6.0	1.4	3.2 6.5		Ор	eration no	t recomm	ended					_						
20	8.0	4.8	11.1	850 1000	17.1 17.8	1.74 1.79	11.1 11.7	88.6 86.5	2.87	2.9 2.6			Opera	ition not	recommer	nded			
	4.0	1.4	3.2	1000		eration no			2.91	2.0			Onera	tion not	recommer	nded			
				850	18.6	1.72	12.8	90.3	3.17	2.8	850	25.8	16.5	0.64	0.96	29.1	26.8	I -	
30	6.0	2.7	6.3	1000	19.4	1.77	13.4	88.0	3.22	2.5	1000	26.2	18.1	0.69	1.01	29.7	25.8	-	
		4.7	40.0	850	19.8	1.76	13.8	91.6	3.29	2.9	850	25.9	16.5	0.64	0.93	29.1	27.7	-	
	8.0	4.7	10.8	1000	20.7	1.81	14.5	89.1	3.34	2.6	1000	26.6	18.1	0.68	0.98	29.9	27.1	-	
	4.0	1.3	3.1			eration no		ended					Opera	tion not	recommer				
	6.0	2.6	6.1	850	21.8	1.75	15.8	93.7	3.64	2.8	850	27.7	18.9	0.68	1.06	31.4	26.1	-	
40				1000	22.6	1.79	16.5	90.9	3.70	2.6	1000	28.3	20.6	0.73	1.11	32.1	25.4	-	
	8.0	4.5	10.4	850	23.0	1.80	16.8	95.0	3.75	2.9	850	28.0	18.9	0.68	1.03	31.5	27.1		
			_	1000	23.8	1.83	17.5	92.0	3.80	2.7	1000	28.6	20.6	0.72	1.08	32.3	26.5	-	
	4.0	1.3	3.0	850	24.1	1.79	18.0	96.2	3.95	3.0 2.7	850	29.0 29.8	20.3	0.70 0.75	1.19	33.1	24.3	0.9	
		<del> </del>		1000 850	24.8	1.81 1.79	18.7 18.8	93.0 97.2	4.02	3.0	1000 850	29.8	20.4	0.75	1.22 1.16	34.0 33.3	24.5 25.2	1.0 0.9	
50	6.0	2.6	5.9	1000	25.7	1.79	19.5	93.8	4.16	2.8	1000	30.1	22.6	0.75	1.10	34.2	25.4	0.9	
		$\vdash$		850	26.1	1.83	19.9	98.4	4.18	3.1	850	29.8	20.9	0.70	1.15	33.7	25.8	0.8	
	8.0	4.4	10.1	1000	26.9	1.85	20.6	94.9	4.26	2.9	1000	30.6	23.1	0.76	1.18	34.6	26.0	0.9	
		<b>.</b>		850	27.3	1.83	21.1	99.7	4.38	3.2	850	28.0	19.8	0.71	1.34	32.6	20.9	1.3	
	4.0	1.2	2.9	1000	28.0	1.84	21.7	95.9	4.46	3.0	1000	28.8	21.9	0.76	1.37	33.4	21.0	1.4	
	0.0			850	28.4	1.82	22.2	100.9	4.57	3.3	850	28.2	19.9	0.71	1.31	32.7	21.6	1.2	
60	6.0	2.5	5.7	1000	29.1	1.83	22.8	96.9	4.65	3.1	1000	29.0	22.0	0.76	1.33	33.6	21.8	1.3	
	8.0	4.2	9.8	850	29.4	1.86	23.0	102.0	4.62	3.4	850	28.7	20.4	0.71	1.30	33.1	22.2	1.1	
	0.0	4.2	9.6	1000	30.0	1.87	23.7	97.8	4.70	3.2	1000	29.5	22.6	0.77	1.32	34.0	22.3	1.2	
	4.0	1.2	2.8	850	30.5	1.87	24.1	103.2	4.79	3.6	850	26.9	19.3	0.72	1.49	32.0	18.1	1.7	
	4.0		2.0	1000	31.1	1.87	24.7	98.8	4.88	3.3	1000	27.7	21.4	0.77	1.52	32.9	18.2	1.8	
70	6.0	2.4	5.5	850	31.8	1.86	25.5	104.7	5.02	3.7	850	27.2	19.4	0.72	1.45	32.1	18.7	1.6	
'				1000	32.4	1.86	26.1	100.0	5.11	3.4	1000	27.9	21.5	0.77	1.48	33.0	18.9	1.7	
	8.0	4.1	4.1	9.5	850	32.7	1.90	26.2	105.6	5.04	3.8	850	27.6	19.9	0.72	1.44	32.5	19.2	1.5
	<u> </u>	<del>                                     </del>	<u> </u>	1000	33.2	1.90	26.8	100.8	5.14	3.5	1000	28.4	22.1	0.78	1.47	33.4	19.4	1.7	
	4.0	1.2	2.7	850 1000	34.0 34.4	1.91 1.90	27.4 27.9	107.0 101.9	5.21	4.1 3.8	850 1000	25.7 26.4	19.1 21.1	0.74	1.69 1.72	31.5 32.3	15.2 15.4	2.3	
			-	850	35.6	1.90	29.1	101.9	5.49	4.3	850	25.9	19.2	0.80	1.64	31.5	15.4	2.2	
80	6.0	2.3	5.4	1000	36.0	1.89	29.6	103.3	5.60	3.9	1000	26.7	21.3	0.80	1.68	32.4	15.9	2.4	
				850	36.1	1.94	29.5	109.3	5.46	4.4	850	26.4	19.7	0.75	1.63	31.9	16.2	2.0	
	8.0	4.0	9.2	1000	36.5	1.92	29.9	103.8	5.56	4.1	1000	27.1	21.8	0.80	1.66	32.8	16.3	2.2	
	4.0			850	37.4	1.96	30.8	110.8	5.60	4.7	850	24.5	18.9	0.77	1.89	30.9	13.0	3.2	
	4.0	1.1	2.6	1000	37.7	1.93	31.1	104.9	5.72	4.4	1000	25.2	20.9	0.83	1.92	31.7	13.1	3.4	
90	6.0	2.2	5.2	850	39.4	1.94	32.7	112.9	5.94	4.9	850	24.7	19.0	0.77	1.84	31.0	13.4	3.0	
30	0.0	2.2	5.2	1000	39.6	1.91	33.1	106.7	6.07	4.5	1000	25.4	21.0	0.83	1.87	31.8	13.6	3.2	
	8.0	3.8	8.8	850	39.5	1.98	32.8	113.1	5.85	5.0	850	25.1	19.5	0.78	1.82	31.3	13.8	2.8	
				1000	39.7	1.95	33.1	106.8	5.98	4.7	1000	25.8	21.5	0.83	1.86	32.1	13.9	3.1	
	4.0	1.1	2.5								050				recommer				
100	6.0	2.2	5.0								850	23.0	18.4	0.80	2.08	30.1	11.1	3.8	
100		-									1000 850	23.7	20.3	0.86	2.12	30.9	11.2	4.1	
	8.0	3.7	8.5								1000	23.4 24.1	18.8 20.9	0.80	2.06 2.10	30.5 31.2	11.4 11.5	3.5 3.9	
	4.0	1.0	2.4								1000	24.1			recommer		11.5	5.5	
											850	21.4	17.8	0.83	2.32	29.3	9.2	4.9	
110	6.0	2.1	4.8		Op	eration no	t recomm	ended			1000	22.0	19.7	0.89	2.37	30.1	9.3	5.3	
		1									850	21.7	18.2	0.84	2.30	29.6	9.4	4.6	
	8.0	3.5	8.2								1000	22.3	20.2	0.90	2.35	30.4	9.5	5.1	
	4.0	1.0	2.3												recommer				
	6.0	2.0	4.6								850	19.8	17.9	0.90	2.63	28.8	7.5	6.0	
120	6.0	2.0	4.0								1000	20.1	19.4	0.96	2.70	29.4	7.5	6.4	
	8.0	3.4	3.4 7.9							850	20.0	17.9	0.90	2.55	28.7	7.8	5.5		
	0.0	3.4	1.9								1000	20.4	19.4	0.95	2.63	29.3	7.8	6.1	

Performance capacities shown in thousands of Mbtu/h.

Contractor:	P.O.:	
Engineer:		
Proiect Name:	Unit Tag:	



048 -	Full	II Load Dual Capacity with 5-Speed ECM High Speed (1700 cfm)																
EWT	Flow		PD			HEATING							cod	DLING -	EAT 80/67	7°F		
°F	gpm	PSI	FT	Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	СОР	HWC kBtuh	Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh
	6.0	1.8	4.1		O	peration no	t recomn	nended										
20	9.0	7.3	9.2	1400 1700	31.6 32.7	2.98 3.03	21.4	90.9	3.10	5.6 5.1			Opera	ation not	recomme	nded		
	6.0	1.7	3.9	1700		peration no			3.17	5.1			Opera	ation not	recomme	nded		
	9.0	3.9	8.9	1400	35.0	3.02	24.7	93.1	3.39	5.7	1400	47.5	30.0	0.63	2.08	54.6	22.8	-
30	3.0	3.9	0.5	1700	36.1	3.04	25.7	89.6	3.47	5.3	1700	48.3	32.7	0.68	2.19	55.8	22.0	-
	12.0	7.0	16.3	1400 1700	35.8 37.1	3.04	25.5 26.6	93.7 90.2	3.45	6.0 5.4	1400 1700	47.7 48.9	30.0 32.7	0.63 0.67	2.02	54.6 56.1	23.6	-
	6.0	1.7	3.8	1700		peration no	_		3.55	5.4	1700	40.9			recomme		23.1	-
		3.7	8.7	1400	39.5	3.13	28.9	96.1	3.71	6.3	1400	50.0	32.6	0.65	2.28	57.8	22.0	-
40	9.0	3.7	8.7	1700	40.9	3.13	30.3	92.3	3.84	5.8	1700	51.0	35.6	0.70	2.39	59.1	21.3	-
	12.0	6.8	15.8	1400	40.8	3.15	30.1	97.0	3.80	6.6	1400	50.4	32.6	0.65	2.21	58.0	22.8	-
<u> </u>				1700	42.2	3.17	31.4	93.0	3.91	6.0	1700	51.6	35.6	0.69	2.31	59.4	22.3	- 2.0
	6.0	1.6	3.7	1400 1700	40.9 42.2	3.13 3.13	30.3 31.6	97.1 93.0	3.83	6.6 6.1	1400 1700	51.2 52.8	32.5 38.4	0.64	2.92 3.04	61.1 63.2	17.5 17.3	3.0
_				1400	44.1	3.23	33.1	99.2	4.00	7.0	1400	52.3	32.7	0.63	2.53	60.9	20.7	2.8
50	9.0	3.6	8.4	1700	45.8	3.21	34.9	95.0	4.18	6.5	1700	53.9	38.5	0.72	2.65	62.9	20.3	3.0
	12.0	6.6	15.3	1400	45.8	3.25	34.7	100.3	4.13	7.4	1400	52.6	32.7	0.62	2.38	60.7	22.1	2.6
	12.0	0.0	13.3	1700	47.3	3.25	36.2	95.8	4.26	6.7	1700	54.2	38.5	0.71	2.50	62.7	21.7	2.9
	6.0	1.6	3.6	1400	44.9	3.27	33.7	99.7	4.02	7.4	1400	50.5	32.6	0.64	3.10	61.1	16.3	3.7
				1700 1400	46.5 48.5	3.25 3.35	35.4 37.1	95.3 102.1	4.19 4.25	6.9 7.9	1700 1400	52.1 51.4	38.4 32.8	0.74 0.64	3.24 2.75	63.1 60.7	16.1 18.7	3.8
60	9.0	3.5	8.1	1700	50.4	3.31	39.1	97.5	4.47	7.3	1700	52.9	38.6	0.04	2.73	62.8	18.4	3.6
				1400	50.6	3.38	39.1	103.5	4.39	8.3	1400	51.9	32.9	0.63	2.61	60.8	19.9	3.2
	12.0	6.4	14.8	1700	52.4	3.34	41.0	98.5	4.60	7.6	1700	53.5	38.7	0.72	2.73	62.8	19.6	3.5
	6.0	1.5	3.5	1400	48.8	3.41	37.2	102.3	4.20	8.4	1400	49.9	32.6	0.65	3.28	61.1	15.2	4.6
	6.0	1.5	3.3	1700	50.7	3.37	39.2	97.6	4.41	7.8	1700	51.4	38.3	0.75	3.44	63.2	15.0	4.8
70	9.0	3.4	7.9	1400	53.0	3.47	41.1	105.0	4.48	8.9	1400	50.4	32.9	0.65	2.97	60.5	16.9	4.2
				1700 1400	55.1 55.4	3.41 3.51	43.4 43.4	100.0 106.6	4.73 4.63	8.3 9.4	1700 1400	52.0 51.3	38.7 33.1	0.74 0.65	3.11 2.84	62.6 61.0	16.7 18.0	4.5 3.9
	12.0	6.2	14.3	1700	57.5	3.43	45.8	101.3	4.91	8.7	1700	52.8	38.9	0.03	2.95	62.9	17.9	4.3
	0.0	4.4		1400	52.7	3.56	40.5	104.8	4.33	9.6	1400	47.9	32.0	0.67	3.50	59.8	13.7	5.8
	6.0	1.4	3.3	1700	54.7	3.50	42.8	99.8	4.58	8.9	1700	49.4	37.6	0.76	3.65	61.9	13.5	6.1
80	9.0	3.3	7.6	1400	57.2	3.60	44.9	107.8	4.65	10.2	1400	48.2	32.4	0.67	3.25	59.3	14.8	5.3
				1700	59.5	3.51	47.5	102.4	4.97	9.5	1700	49.6	38.1	0.77	3.38	61.1	14.7	5.7
	12.0	6.0	13.8	1400 1700	60.1 62.5	3.64 3.54	47.7 50.4	109.8 104.1	4.84 5.17	10.7 9.9	1400 1700	49.2 50.8	32.6 38.3	0.66 0.76	3.11 3.24	59.9 61.8	15.8 15.7	5.0 5.5
				1400	56.5	3.72	43.9	107.4	4.46	10.9	1400	45.9	31.4	0.76	3.72	58.6	12.3	7.4
	6.0	1.4	3.2	1700	58.7	3.64	46.3	102.0	4.73	10.2	1700	47.4	36.9	0.78	3.87	60.6	12.2	7.8
90	9.0	3.2	7.3	1400	61.5	3.74	48.7	110.7	4.82	11.6	1400	45.9	31.8	0.69	3.53	58.0	13.0	6.7
30	9.0	3.2	7.3	1700	64.0	3.62	51.7	104.9	5.19	10.8	1700	47.2	37.5	0.79	3.66	59.7	12.9	7.2
	12.0	5.8	13.3	1400	64.9	3.78	52.0	112.9	5.03	12.2	1400	47.2	32.2	0.68	3.38	58.8	14.0	6.3
<u> </u>	6.0	1.3	3.1	1700	67.6	3.66	55.1	106.8	5.41	11.4	1700	48.7	37.8	0.78	3.53 recomme	60.7	13.8	7.0
											1400	43.0	31.3	0.73	3.88	56.2	11.1	8.2
100	9.0	3.1	7.1								1700	44.3	36.9	0.83	4.03	58.1	11.0	8.8
	12.0	5.6	12.9								1400	44.6	31.8	0.71	3.74	57.4	11.9	7.8
											1700	45.9	37.3	0.81	3.90	59.2	11.8	8.6
	6.0	1.3	3.0								4.400	40.4			recomme		0.5	40.0
110	9.0	2.9	6.8		0	peration no	ot recome	nendad			1400 1700	40.1 41.4	30.8 36.3	0.77 0.88	4.22 4.40	54.5 56.4	9.5 9.4	10.3 11.3
'''					O <sub>I</sub>	ociation no	A TECUIIII	ichided			1400	42.0	31.4	0.00	4.40	56.0	10.3	9.9
	12.0	5.4	12.4								1700	43.2	36.8	0.85	4.27	57.7	10.1	11.0
	6.0	1.2	2.9												recomme			
	9.0	2.8	6.5								1400	38.9	31.9	0.82	4.74	55.1	8.2	13.1
120			L								1700	39.6	34.7 31.9	0.88	4.87	56.2	8.1	14.1
	12.0	5.1	11.9											0.81	4.59	54.9	8.6	12.1
			$\Box$								1700	40.1	34.7	0.86	4.74	56.3	8.5	13.4

Performance capacities shown in thousands of Mbtu/h.

Contractor:	P.O.:	
Engineer:		
Proiect Name:	Unit Tag:	



### 048 - Part Load Dual Capacity with 5-Speed FCM (1250 cfm)

048	- Part	Load Dual Capacity with 5-Speed ECM (1250 cfm)																
EWT	Flow	WI	PD				NG - EAT								EAT 80/67			,
°F	gpm	PSI	FT	Airflow cfm	HC Mbtu/h	Power kW	HE Mbtu/h	LAT °F	СОР	HWC Mbtu/h	Airflow cfm	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
	5.0	1.2	2.7					mmende	d									
20	8.0	3.2	7.3				not recoi						Oper	ation not	recommer	nded		
~	11.0	6.1	14.1	1000	22.6	2.20	15.1	91.0	3.01	4.4			Орого	2.10171101	. 300/1111161			
$\vdash$	5.0	1.1	2.6	1250	23.5	2.24	15.8 not reco	87.4	3.08	4.0			Oper	ation not	recommer	nded		
	5.0			1000	25.6	2.20	18.1	93.7	3.41	4.4	1000	34.9	23.2	0.67	1.07	38.5	32.6	-
30	8.0	3.1	7.1	1250	26.4	2.22	18.9	89.6	3.49	4.0	1250	35.4	25.4	0.72	1.13	39.3	31.5	- 1
	11.0	5.9	13.7	1000	26.3	2.22	18.7	94.3	3.47	4.5	1000	35.1	23.2	0.66	1.04	38.6	33.8	-
$\Box$				1250	27.2	2.25	19.5	90.2	3.55	4.1	1250	35.9	25.4	0.71	1.09	39.6	33.0	-
	5.0	1.1	2.5	4000		<del>'                                      </del>	not recoi				4000				recommer		00.0	
40	8.0	3.0	6.9	1000 1250	29.0 30.0	2.23	21.4 22.4	96.8 92.2	3.80	4.6 4.2	1000 1250	37.1 37.8	25.4 27.7	0.68	1.20 1.26	41.2 42.1	30.9	-
40				1000	29.9	2.25	22.3	97.7	3.90	4.7	1000	37.4	25.4	0.73	1.17	41.3	32.1	<del>-</del> - 1
	11.0	5.7	13.2	1250	31.0	2.26	23.2	92.9	4.01	4.3	1250	38.2	27.7	0.73	1.22	42.4	31.3	- 1
	5.0	1.1	2.5	1000	30.0	2.19	22.5	97.8	4.01	4.8	1000	38.2	25.4	0.66	1.57	43.6	24.3	1.5
	5.0	'.'	2.0	1250	31.0	2.19	23.5	92.9	4.14	4.5	1250	39.4	29.9	0.76	1.64	45.0	24.0	1.6
50	8.0	2.9	6.7	1000	32.3	2.26	24.6	100.0	4.19	5.0	1000	39.1	25.5	0.65	1.36	43.7	28.7	1.4
			-	1250 1000	33.6 33.6	2.25 2.28	25.9 25.8	94.9 101.1	4.37 4.32	4.6 5.1	1250 1000	40.3 39.3	30.1 25.5	0.75 0.65	1.43 1.28	45.1 43.7	28.2 30.6	1.6 1.3
	11.0	5.6	12.8	1250	34.7	2.28	26.9	95.7	4.46	4.7	1250	40.5	30.1	0.74	1.35	45.1	30.0	1.5
	5.0	1.0	2.4	1000	32.7	2.23	25.0	100.2	4.29	5.3	1000	37.5	25.2	0.67	1.76	43.5	21.3	2.1
	5.0	1.0	2.4	1250	33.8	2.22	26.3	95.1	4.47	4.9	1250	38.7	29.6	0.77	1.84	45.0	21.0	2.3
60	8.0	2.8	6.5	1000	35.3	2.29	27.5	102.7	4.53	5.4	1000	38.1	25.3	0.66	1.56	43.5	24.4	2.0
			-	1250 1000	36.7 36.8	2.26	29.0 29.0	97.2 104.1	4.76 4.68	5.0 5.6	1250 1000	39.3 38.6	29.8 25.4	0.76 0.66	1.64 1.49	44.9 43.6	24.0 26.0	2.2 1.9
	11.0	5.4	12.4	1250	38.2	2.28	30.4	98.3	4.00	5.0	1250	39.8	29.9	0.00	1.49	45.0	25.6	2.1
Н		4.0	0.0	1000	35.3	2.27	27.6	102.7	4.57	5.8	1000	36.8	24.9	0.68	1.95	43.5	18.9	3.0
1 1	5.0	1.0	2.3	1250	36.7	2.24	29.1	97.2	4.80	5.4	1250	38.0	29.3	0.77	2.04	44.9	18.6	3.1
70	8.0	2.7	6.2	1000	38.4	2.31	30.5	105.5	4.87	6.0	1000	37.2	25.2	0.68	1.77	43.2	21.1	2.8
'			J	1250	39.9	2.27	32.1	99.5	5.15	5.6	1250	38.4	29.6	0.77	1.85	44.7	20.8	3.0
	11.0	5.2	12.0	1000 1250	40.1 41.6	2.33	32.1 33.8	107.1 100.8	5.04 5.35	6.2 5.7	1000 1250	37.8 39.0	25.3 29.7	0.67 0.76	1.69 1.75	43.6 45.0	22.4	2.6
$\vdash$				1000	38.1	2.31	30.2	105.3	4.84	6.6	1000	35.1	24.4	0.69	2.19	42.6	16.0	4.0
	5.0	1.0	2.2	1250	39.6	2.27	31.9	99.3	5.12	6.1	1250	36.2	28.6	0.79	2.28	44.0	15.9	4.3
80	8.0	2.6	6.0	1000	41.4	2.33	33.4	108.3	5.20	6.8	1000	35.3	24.6	0.70	2.03	42.2	17.4	3.7
"		2.0	0.0	1250	43.1	2.27	35.3	101.9	5.55	6.3	1250	36.3	29.0	0.80	2.11	43.6	17.2	4.1
	11.0	5.0	11.6	1000	43.5	2.36	35.4	110.3	5.40	7.0	1000	36.1	24.8	0.69	1.94	42.7	18.6	3.5
$\vdash\vdash\vdash$				1250 1000	45.2 40.9	2.29 2.35	37.4 32.9	103.5 107.8	5.78 5.11	6.5 7.5	1250 1000	37.2 33.4	29.2 23.8	0.78	2.03 2.42	44.1 41.7	18.4 13.8	3.9 5.4
	5.0	0.9	2.2	1250	42.5	2.30	34.6	107.8	5.42	7.0	1250	34.5	27.9	0.71	2.52	43.1	13.7	5.7
90	8.0	2.5	5.8	1000	44.4	2.36	36.4	111.1	5.52	7.8	1000	33.4	24.1	0.72	2.30	41.2	14.5	5.0
90	0.0	2.5	5.0	1250	46.3	2.28	38.5	104.3	5.94	7.2	1250	34.3	28.3	0.83	2.38	42.5	14.4	5.5
	11.0	4.8	11.2	1000	46.9	2.38	38.8	113.4	5.76	8.0	1000	34.3	24.3	0.71	2.20	41.8	15.6	4.7
$\vdash\vdash\vdash$	5.0	0.9	2.1	1250	48.9	2.31	41.0	106.2	6.20	7.4	1250	35.4	28.6 Oper:	0.81	2.30 recommer	43.2	15.4	5.2
											1000	31.3	23.3	0.74	2.64	40.3	11.8	6.4
100	8.0	2.4	5.6								1250	32.2	27.4	0.85	2.74	41.6	11.8	7.0
	11.0	4.7	10.8								1000	32.4	23.6	0.73	2.54	41.1	12.8	6.0
$\sqcup$											1250	33.4	27.7	0.83	2.65	42.4	12.6	6.6
	5.0	0.9	2.0												recommer			
110	8.0	2.3	5.4			):			-1		1000	29.1	22.4	0.77	2.98	39.3	9.8	8.5
'''			<u> </u>		(	peration	not recor	rimende	a		1250 1000	30.1 30.5	26.4 22.9	0.88	3.10 2.89	40.7 40.4	9.7 10.6	9.2 7.9
	11.0	4.5	10.4								1250	31.4	26.8	0.75	3.01	41.7	10.6	8.7
	5.0	0.8	1.9												recommer			
											1000	28.2	24.0	0.85	3.40	39.7	8.3	11.0
120	8.0	2.2	5.2								1250	28.7	26.1	0.91	3.49	40.6	8.2	11.7
	11.0	4.3	10.0								1000	28.4	24.0	0.85	3.29	39.6	8.6	9.7
Parfor				n in thou	sands of	Mhtu/h					1250	29.0	26.1	0.90	3.39	40.6	8.6	7/18/14
renon	mance C	apacille	3 311UV	vii iii tiioti	sarius of	iviblu/II.												1/10/14

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



### 060 - Full Load Dual Capacity with 5-Speed ECM (1800 cfm)

	ı un ı	Load Dual Capacity with 5-Speed ECM (1800 cfm)  WPD HEATING - EAT 70°F COOLING - EAT 80/67 °F																			
EWT	Flow	WI	PD O									I						I			
°F	gpm	PSI	FT	Airflow cfm	HC Mbtu/h	Power kW	HE Mbtu/h	°F	СОР	HWC Mbtu/h	Airflow cfm	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h			
	8.0	2.9	6.8			Operation	not recor	nmende	d												
20	12.0	6.0	13.8	1500	38.6	3.93	25.2	93.8	2.88	6.1			Opera	ation not r	ecommen	ded					
	16.0	10.1	23.3	1800	39.6	4.11	25.5	90.3	2.82	5.5											
	8.0	2.8	6.6			Operation	not recor	mmende	b				Opera	ation not r	ecommen	ded					
	12.0	5.8	13.4	1500	43.9	3.97	30.3	97.1	3.24	6.4	1500	52.9	32.2	0.61	2.69	62.1	19.6	-			
30	12.0	0.0	10.1	1800	45.1	4.23	30.7	93.2	3.13	5.8	1800	53.7	35.2	0.65	2.84	63.4	18.9	-			
	16.0	9.8	22.6	1500 1800	44.5 45.6	4.07 4.27	30.6	97.5	3.20	6.5 5.9	1500	53.2	32.2 35.2	0.61	2.61 2.74	62.1	20.3	-			
	8.0	2.8	6.4	1800	800   45.6   4.27   31.0   93.5   3.13   5.9   1800   54.4   35.2   0.65   2.74   63.8   19.9																
				1500	50.3	4.17	36.1	101.1	3.53	7.0	1500	56.9	35.4	0.62	2.95	67.0	19.3	-			
40	12.0	5.6	13.0	1800	51.5	4.35	36.6	96.5	3.47	6.4	1800	58.0	38.6	0.67	3.09	68.5	18.8	-			
İ	16.0	9.5	21.9	1500	51.1	4.25	36.6	101.5	3.53	7.2	1500	57.4	35.4	0.62	2.86	67.1	20.1	-			
	10.0	9.5	21.3	1800	52.3	4.39	37.3	96.9	3.48	6.6	1800	58.7	38.6	0.66	2.99	68.9	19.6	-			
	8.0	2.7	6.2	1500	53.6	4.28	39.0	103.1	3.67	7.5	1500	60.4	38.0	0.63	3.16	71.2	19.1	3.6			
		<u> </u>	$\vdash$	1800	54.8	4.42	39.7	98.2	3.63	7.0	1800	61.6	41.3	0.67	3.37	73.1	18.3	3.8			
50	12.0	5.4	12.6	1500 1800	56.7 57.9	4.37 4.48	41.8 42.6	105.0 99.8	3.81	7.8 7.2	1500 1800	61.0 62.3	38.3 41.7	0.63 0.67	3.10 3.29	71.6 73.5	19.7 18.9	3.3			
			$\vdash$	1500	57.7	4.42	42.6	105.6	3.83	8.0	1500	61.6	38.7	0.63	3.05	72.0	20.2	3.1			
	16.0	9.2	21.2	1800	58.9	4.52	43.5	100.3	3.82	7.3	1800	62.9	42.1	0.67	3.24	73.9	19.4	3.4			
	0.0	2.0	۵,	1500	60.1	4.51	44.7	107.1	3.91	8.5	1500	59.7	38.5	0.65	3.44	71.4	17.4	4.4			
	8.0	2.6	6.0	1800	61.4	4.58	45.8	101.6	3.93	7.8	1800	61.2	41.9	0.68	3.66	73.7	16.7	4.6			
60	12.0	5.3	12.2	1500	62.9	4.58	47.2	108.8	4.02	8.7	1500	60.3	38.9	0.64	3.37	71.8	17.9	4.1			
"	12.0	0.0	12.2	1800	64.2	4.64	48.4	103.0	4.06	8.0	1800	61.9	42.3	0.68	3.58	74.1	17.3	4.4			
	16.0	8.9	20.6	1500	64.2	4.63	48.4	109.6	4.06	9.0	1500	60.9	39.3	0.65	3.31	72.2	18.4	3.8			
	<u> </u>			1800	65.7 66.6	4.69 4.72	49.7 50.4	103.8	4.11	8.2 9.5	1800 1500	62.5 59.0	42.7 39.1	0.68	3.52 3.71	74.5 71.6	17.7	4.2 5.4			
	8.0	2.5	5.8	1500 1800	68.0	4.72	51.8	111.1 105.0	4.13 4.20	8.8	1800	60.8	42.5	0.70	3.95	74.3	15.9 15.4	5.4			
		0 51 1		1500	69.0	4.79	52.6	112.6	4.22	9.8	1500	59.5	39.5	0.66	3.64	72.0	16.4	5.0			
70	12.0 5.1	-	11.8	1800	70.6	4.80	54.2	106.3	4.31	9.0	1800	61.5	42.9	0.70	3.87	74.7	15.9	5.4			
İ	16.0		19.9	1500	70.7	4.85	54.2	113.7	4.28	10.1	1500	60.1	39.8	0.66	3.58	72.3	16.8	4.7			
	16.0	0.0	19.9	1800	72.4	4.85	55.9	107.2	4.38	9.3	1800	62.0	43.3	0.70	3.81	75.0	16.3	5.2			
	8.0	2.4	5.6	1500	72.9	4.97	55.9	115.0	4.30	10.6	1500	56.9	38.8	0.68	4.03	70.6	14.1	7.0			
			0.0	1800	74.6	4.94	57.7	108.4	4.42	9.8	1800	59.0	42.1	0.71	4.29	73.6	13.7	7.4			
80	12.0	4.9	11.4	1500 1800	74.6 76.4	5.03 4.98	57.5 59.4	116.1 109.3	4.35 4.50	11.0 10.1	1500 1800	57.5 59.6	39.1 42.5	0.68 0.71	3.95 4.20	70.9 73.9	14.5 14.2	6.5 7.0			
			$\vdash$	1500	76.4	5.09	59.4	117.5	4.43	11.3	1500	58.0	39.5	0.71	3.88	71.3	14.2	6.0			
	16.0	8.3	19.2	1800	78.8	5.03	61.6	110.5	4.59	10.4	1800	60.2	42.9	0.71	4.13	74.3	14.6	6.7			
				1500	79.2	5.21	61.4	118.9	4.46	11.9	1500	54.7	38.4	0.70	4.35	69.5	12.6	9.1			
İ	8.0	2.3	5.4	1800	81.1	5.13	63.6	111.7	4.63	11.0	1800	57.1	41.7	0.73	4.63	72.9	12.3	9.7			
90	12.0	4.8	11.0	1500	80.3	5.27	62.3	119.5	4.47	12.3	1500	55.3	38.7	0.70	4.26	69.9	13.0	8.5			
30	12.0	7.0	11.0	1800	82.3	5.16	64.7	112.3	4.68	11.4	1800	57.7	42.1	0.73	4.54	73.1	12.7	9.2			
	16.0	8.0	18.5	1500	83.0	5.33	64.8	121.2	4.56	12.6	1500	55.9	39.2	0.70	4.19	70.2	13.3	7.9			
	8.0	2.2	5.2	1800	85.2	5.21	67.4	113.8	4.79	11.7	1800	58.3	42.5	0.73	4.46	73.5	13.1	8.8			
											1500	51.7	37.3	0.72	ecommen 4.70	67.8	11.0	10.2			
100	12.0	4.6	10.6								1800	54.2	40.5	0.75	5.00	71.3	10.8	11.0			
İ	40.0	77	47.0								1500	52.2	37.7	0.72	4.61	68.0	11.3	9.5			
	16.0	7.7	17.8								1800	54.7	40.9	0.75	4.92	71.5	11.1	10.5			
	8.0	2.2	5.0												ecommen						
,	12.0	4.4	10.2		Operation not recommended						1500	48.1	35.8	0.74	5.13	65.6	9.4	13.1			
110	<u> </u>	<del> </del>	$\vdash$		•	Operation	not recor	nmende	d		1800	50.7	38.9	0.77	5.47	69.4	9.3	14.2			
	16.0	7.4	17.2								1500 1800	48.6 51.2	36.2 39.3	0.75 0.77	5.04 5.38	65.8 69.5	9.6 9.5	12.2 13.5			
<u> </u>	8.0	2.1	4.8								1000	J1.Z			ecommen		5.0	10.0			
1											1500	46.1	35.1	0.76	5.96	66.4	7.7	15.6			
120	12.0	4.2	9.8								1800	47.0	38.2	0.81	6.11	67.8	7.7	16.3			
	16.0	7.1	16.5								1500	46.5	35.1	0.76	5.76	66.2	8.1	14.5			
			Ш	wn in tho							1800	47.5	38.2	0.80	5.94	67.8	8.0	15.6 7/18/14			

Performance capacities shown in thousands of Mbtu/h.

7/18/14

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



<u>060 -</u>	Part			I Capacity with 5-Speed ECM (1500 cfm)  HEATING - EAT 70°F COOLING - EAT 80/67 °F															
EWT	Flow		PD I	Airflow	нс	Power	HE	LAT	1	HWC	Airflow	тс	sc	S/T	Power	HR		НЖС	
°F	gpm	PSI	FT	cfm	Mbtu/h	kW	Mbtu/h	°F	COP	Mbtu/h	cfm		Mbtu/h	Ratio	kW	Mbtu/h	EER	Mbtu/h	
	6.0	1.8	4.1		(	neration	not recor	mmended	4										
20	10.0	4.3	10.0							l			Opera	ation not	recomme	nded			
	14.0	7.8	18.1	1250 1500	27.7 28.7	3.01	17.5 18.3	90.5 87.7	2.70 2.76	5.3 4.8			·						
	6.0	1.7	3.9	1500			not recor			4.0	Operation not recommended								
				1250	30.9	3.05	20.5	92.9	2.97	5.1	1250	39.9	23.5	0.59	1.57	45.2	25.4	I -	
30	10.0	4.2	9.7	1500	32.0	3.09	21.5	89.8	3.04	4.7	1500	40.5	25.7	0.63	1.65	46.2	24.5	-	
	14.0	7.6	17.6	1250	32.0	3.05	21.6	93.7	3.08	5.3	1250	40.1	23.5	0.59	1.52	45.3	26.3	-	
	14.0	7.0		1500	33.1	3.09	22.6	90.4	3.14	4.8	1500	41.1	25.7	0.63	1.60	46.5	25.7		
	6.0	1.7	3.8	Operation not recommended											recomme				
40	10.0	4.1	9.4	1250	36.2	3.11	25.6	96.8	3.41	5.4	1250	44.0	27.8	0.63	1.73	49.9	25.5	-	
40			-	1500 1250	37.2 37.4	3.12 3.12	26.6 26.7	93.0 97.7	3.49 3.51	5.0 5.6	1500 1250	44.8 44.4	30.3 27.8	0.68	1.81 1.67	51.0 50.1	24.8 26.5	-	
	14.0	7.4	17.1	1500	38.4	3.12	27.7	93.7	3.59	5.0	1500	45.4	30.3	0.67	1.75	51.3	25.9	<u> </u>	
				1250	40.8	3.12	30.2	100.2	3.84	5.7	1250	48.0	30.5	0.64	1.92	54.5	25.0	1.9	
	6.0	1.6	3.7	1500	41.9	3.12	31.3	95.9	3.94	5.3	1500	49.4	34.7	0.70	2.03	56.3	24.4	2.0	
50	10.0	4.0	9.1	1250	41.5	3.18	30.6	100.7	3.83	5.9	1250	48.1	30.8	0.64	1.85	54.4	26.0	1.7	
"	10.0	10	L	1500	42.4	3.16	31.6	96.2	3.94	5.4	1500	49.5	34.9	0.71	1.94	56.1	25.5	1.9	
	14.0	7.2	16.5	1250	42.7	3.20	31.8	101.6	3.92	6.0	1250	48.2	30.8	0.64	1.82	54.4	26.6	1.6	
				1500 1250	43.7 45.2	3.18 3.18	32.8 34.3	97.0 103.5	4.03 4.16	5.5 6.2	1500 1250	49.6 46.4	34.9 30.4	0.70 0.66	1.90 2.16	56.1 53.8	26.1 21.5	1.8 2.6	
	6.0	1.6	3.6	1500	46.2	3.16	35.4	98.5	4.29	5.7	1500	47.8	34.4	0.72	2.16	55.6	21.2	2.8	
	40.0			1250	46.6	3.24	35.6	104.5	4.22	6.4	1250	46.6	30.7	0.66	2.09	53.8	22.3	2.5	
60	10.0	3.8	8.8	1500	47.3	3.19	36.5	99.2	4.35	5.9	1500	48.0	34.7	0.72	2.18	55.5	22.0	2.7	
	14.0	6.9	16.0	1250	47.7	3.27	36.6	105.3	4.28	6.6	1250	46.8	30.8	0.66	2.05	53.8	22.9	2.3	
				1500	48.5	3.22	37.5	99.9	4.41	6.1	1500	48.2	34.8	0.72	2.14	55.5	22.5	2.5	
	6.0	1.5	3.5	1250 1500	49.6 50.4	3.25 3.19	38.5 39.5	106.7 101.1	4.48 4.63	6.9 6.4	1250 1500	44.9 46.3	30.4 34.0	0.68 0.74	2.40	53.1 54.8	18.7 18.5	3.7	
			_	1250	51.7	3.30	40.4	108.3	4.59	7.1	1250	45.2	30.6	0.74	2.33	53.1	19.4	3.4	
70	10.0	3.7	8.6	1500	52.3	3.23	41.2	102.3	4.74	6.5	1500	46.6	34.4	0.74	2.43	54.8	19.2	3.7	
l	14.0	6.7	15.5	1250	52.7	3.34	41.3	109.0	4.63	7.3	1250	45.4	30.8	0.68	2.28	53.2	19.9	3.2	
	14.0	0.7	13.3	1500	53.2	3.27	42.1	102.9	4.78	6.7	1500	46.8	34.6	0.74	2.38	55.0	19.7	3.5	
	6.0	1.4	3.3	1250	53.8	3.29	42.6	109.8	4.79	7.7	1250	42.8	30.0	0.70	2.72	52.0	15.7	5.0	
				1500 1250	54.3 56.8	3.22	43.3 45.4	103.5 112.1	4.94 4.98	7.1 7.9	1500 1250	44.1 43.1	33.5 30.3	0.76 0.70	2.81	53.7 52.2	15.7 16.3	5.3 4.7	
80	10.0	3.6	8.3	1500	57.1	3.25	46.0	105.2	5.16	7.3	1500	44.4	34.0	0.76	2.75	53.8	16.1	5.1	
				1250	57.5	3.39	45.9	112.6	4.97	8.1	1250	43.4	30.5	0.70	2.61	52.3	16.6	4.4	
	14.0	6.5	15.0	1500	57.7	3.29	46.5	105.6	5.14	7.5	1500	44.8	34.2	0.76	2.70	54.0	16.6	4.8	
	6.0	1.4	3.2	1250	58.0	3.33	46.6	113.0	5.10	8.6	1250	40.6	29.7	0.73	3.04	51.0	13.3	6.9	
			0.2	1500	58.1	3.25	47.1	105.9	5.25	8.0	1500	41.8	33.0	0.79	3.13	52.5	13.4	7.3	
90	10.0	3.4	8.0	1250 1500	61.9 61.9	3.39	50.4 50.8	115.9 108.2	5.36	8.9 8.2	1250 1500	41.1	30.0	0.73	2.98 3.08	51.2 52.8	13.8	6.4 7.0	
			-	1250	62.3	3.44	50.6	116.2	5.56 5.31	9.1	1250	41.4	30.3	0.79	2.94	51.4	14.1	6.0	
	14.0	6.2	14.4	1500	62.2	3.32	50.9	108.4	5.50	8.5	1500	42.7	33.7	0.79	3.03	53.1	14.1	6.6	
	6.0	1.3	3.1										Opera	ation not	recomme	nded			
	10.0	3.3	7.7								1250	37.9	29.2	0.77	3.39	49.4	11.2	8.0	
100	10.0	3.3	/./								1500	39.0	32.3	0.83	3.48	50.9	11.2	8.7	
	14.0	6.0	13.9								1250	38.3	29.6	0.77	3.35	49.7	11.4	7.5	
											1500	39.5	32.7	0.83	3.43	51.2	11.5	8.3	
	6.0	1.3	3.0								4050	1 04 7			recomme		0.1	10.1	
110	10.0	3.2	7.4		(	neration	not recor	mmended	4		1250	34.7	28.4	0.82	3.81	47.7	9.1	10.4	
'''			-			Poration					1500 1250	35.8 35.1	31.2 28.9	0.87 0.82	3.89 3.75	49.0 47.9	9.2	11.2 9.6	
	14.0	5.8	13.4								1500	36.2	31.7	0.87	3.83	49.3	9.5	10.7	
	6.0	1.2	2.9								Operation not recommended								
	10.0	3.1	7.1								1250	34.2	28.0	0.82	4.31	48.9	7.9	13.6	
120	10.0	J. 1	ļ <sup>'.</sup> '								1500	34.8	30.4	0.87	4.43	49.9	7.9	14.5	
	14.0	5.6	12.9								1250	34.5	28.0	0.81	4.17	48.7	8.3	12.5	
		<u> </u>	) 12.5								1500	35.2	30.4	0.86	4.31	49.9	8.2	13.8	

Performance capacities shown in thousands of Mbtu/h.

7/18/14

Contractor:	P.O.:	
Engineer:		
Proiect Name:	Unit Tag:	



### 072 - Full Load Dual Capacity with 5-Speed ECM High Speed (2300 cfm)

EWT	Flow	WI	PD	HEATING - EAT 70°F									COOLING - EAT 80/67 °F							
°F	gpm	PSI	FT	Airflow cfm	HC kBtuh	Power kW	HE kBtuh	LAT °F	СОР	HWC kBtuh	Airflow cfm	TC kBtuh	SC kBtuh	S/T Ratio	Power kW	HR kBtuh	EER	HWC kBtuh		
	12.0	4.0	9.1			peration not	recomme	ended												
20	15.0	5.9	13.5	4050						0.7			Opera	tion not	recomme	nded				
	18.0	8.1	18.7	1850 2300	49.3 51.1	4.60 4.90	33.6 34.4	94.7	3.14	8.7 7.9										
	12.0	3.8	8.9	2000		peration not			0.00	7.0			Opera	tion not	recomme	nded				
	15.0	5.7	13.1	1850	55.5	4.74	39.3	97.8	3.43	9.0	1850	57.3	35.2	0.61	3.14	68.0	18.2	-		
30	15.0	5.7	13.1	2300	57.5	5.04	40.2	93.1	3.34	8.2	2300	58.2	38.5	0.66	3.31	69.5	17.6	-		
	18.0	7.8	18.1	1850	56.0	4.78 5.09	39.6 40.7	98.0 93.4	3.43	9.2	1850	57.6	35.2	0.61	3.05	68.0	18.9	-		
	12.0	27	0.6	2300	58.0	8.4	2300	59.0	38.5	0.65	3.20	69.9	18.4	-						
	12.0	3.7	8.6	1850	63.0	peration not 4.97	46.0	101.5	3.71	9.7	1850	63.0	39.9	0.63	recomme 3.47	74.8	18.2	T -		
40	15.0 5.	5.5	12.7	2300	65.1	5.21	47.4	96.2	3.67	8.9	2300	64.2	43.6	0.68	3.64	76.6	17.7	-		
	40.0	7.0	47.0	1850	63.9	5.03	46.7	102.0	3.72	10.0	1850	63.5	39.9	0.63	3.36	75.0	18.9	-		
	18.0	7.6	17.6	2300	66.1	5.26	48.1	96.6	3.68	9.1	2300	64.9	43.6	0.67	3.52	76.9	18.5	-		
	12.0	3.6	8.3	1850	66.8	5.10	49.3	103.4	3.83	10.4	1850	68.1	43.8	0.64	3.74	80.8	18.2	4.0		
	.2.0	J	L	2300	69.0	5.28	51.0	97.8	3.83	9.6	2300	69.5	47.6	0.69	3.98	83.1	17.5	4.3		
50	15.0	5.3	12.3	1850	70.5	5.20	52.8	105.3	3.97	10.7	1850	68.8	44.3	0.64	3.66	81.3	18.8	3.8		
}		-	$\vdash$	2300 1850	72.8 71.8	5.37 5.26	54.5 53.8	99.3	3.98 4.00	9.9 11.1	2300 1850	70.1 69.5	48.2 45.2	0.69 0.65	3.90	83.4 81.8	18.0 19.3	4.1 3.5		
	18.0	7.4	17.0	2300	74.1	5.42	55.6	99.8	4.00	10.1	2300	70.9	48.6	0.69	3.84	83.9	18.5	3.9		
				1850	74.9	5.40	56.5	107.5	4.07	11.7	1850	69.2	46.3	0.67	4.08	83.1	16.9	5.1		
l	12.0	3.5	8.1	2300	77.3	5.50	58.5	101.1	4.12	10.8	2300	70.6	50.1	0.71	4.34	85.4	16.3	5.4		
60	15.0	5.2	11.9	1850	78.2	5.49	59.4	109.1	4.17	12.0	1850	69.9	46.8	0.67	4.00	83.5	17.5	4.7		
••	10.0	5.2	11.5	2300	80.7	5.58	61.7	102.5	4.24	11.1	2300	71.3	50.6	0.71	4.25	85.8	16.8	5.1		
	18.0	7.1	16.5	1850	79.9	5.56	61.0	110.0	4.22	12.4	1850	70.6	47.5	0.67	3.93	84.0	18.0	4.4		
			$\vdash$	2300 1850	82.6 82.9	5.63 5.68	63.3 63.5	103.2	4.29 4.28	11.4 13.1	2300 1850	72.0 70.3	51.1 48.8	0.71	4.19 4.43	86.3 85.4	17.2 15.9	4.9 6.5		
	12.0	3.4	7.8	2300	85.6	5.72	66.0	104.4	4.28	12.1	2300	71.7	52.5	0.09	4.43	87.8	15.9	6.9		
				1850	85.9	5.77	66.2	113.0	4.36	13.5	1850	71.0	49.3	0.69	4.34	85.8	16.4	6.0		
70	15.0	5.0	11.6	2300	88.6	5.78	68.8	105.7	4.49	12.4	2300	72.4	53.0	0.73	4.60	88.1	15.7	6.5		
	18.0	.0 6.9	6.9 15	15.9	1850	88.1	5.85	68.1	114.1	4.42	13.9	1850	71.7	49.8	0.69	4.26	86.3	16.9	5.6	
	10.0	0.5	10.5	2300	91.0	5.85	71.0	106.6	4.56	12.8	2300	73.2	53.6	0.73	4.54	88.7	16.1	6.2		
	12.0	3.3	7.5	1850	90.8	6.03	70.3	115.5	4.42	14.8	1850	67.2	47.7	0.71	4.85	83.7	13.8	8.2		
				2300 1850	93.8 93.0	5.98 6.11	73.4 72.1	107.8 116.5	4.59 4.46	13.7 15.2	2300 1850	68.5 67.8	51.6 48.2	0.75 0.71	5.16 4.75	86.2 84.0	13.3 14.3	8.7 7.6		
80	15.0	4.8	11.2	2300	96.0	6.03	75.4	108.6	4.66	14.1	2300	69.2	52.0	0.71	5.06	86.4	13.7	8.3		
				1850	95.8	6.19	74.7	118.0	4.54	15.7	1850	68.5	48.9	0.71	4.67	84.5	14.7	7.1		
	18.0	6.7	15.4	2300	99.0	6.09	78.2	109.9	4.76	14.5	2300	69.9	52.6	0.75	4.97	86.9	14.1	7.8		
	12.0	3.1	7.3	1850	98.7	6.37	77.0	119.4	4.54	16.7	1850	64.0	46.6	0.73	5.28	82.0	12.1	10.5		
	12.0	3.1	7.3	2300	102.0	6.24	80.7	111.1	4.79	15.4	2300	65.4	50.6	0.77	5.62	84.5	11.6	11.1		
90	15.0	4.7	10.8	1850	100.1	6.44	78.1	120.1	4.55	17.2	1850	64.6	47.0	0.73	5.17	82.3	12.5	9.8		
				2300 1850	103.4 103.5	6.27 6.53	81.9 81.3	111.6 121.8	4.83 4.65	15.9 17.7	2300 1850	66.0 65.4	51.0 48.0	0.77	5.51 5.08	84.8 82.7	12.0 12.9	10.6 9.1		
	18.0	6.4	14.9	2300	103.5	6.34	85.3	113.1	4.05	16.4	2300	66.7	51.6	0.73	5.41	85.2	12.9	10.1		
	12.0	3.0	7.0			0.01	- 55.0	1							recomme			. 5.1		
Ì											1850	61.3	45.4	0.74	5.73	80.9	10.7	12.0		
100	15.0	4.5	10.4								2300	62.6	49.1	0.78	6.10	83.4	10.3	13.0		
	18.0	6.2	14.3								1850	62.0	46.1	0.74	5.63	81.2	11.0	11.1		
											2300	63.3	49.5	0.78	5.99	83.7	10.6	12.4		
}	12.0	2.9	6.7								1850	58.0	Opera 43.8	tion not 0.75	recomme		9.2	15.6		
110	15.0	4.3	10.0		0	peration not	recomme	ended			2300	59.2	43.8	0.75	6.29 6.69	79.5 82.1	8.9	15.6 16.9		
		<u> </u>	<b> </b>			p 3 ration 110t		J.1000			1850	58.7	44.2	0.75	6.18	79.8	9.5	14.4		
	18.0	6.0	13.8								2300	59.9	47.5	0.79	6.57	82.3	9.1	16.0		
i	12.0	2.8	6.5												recomme	nded				
	15.0	4.2	9.6								1850	54.0	42.2	0.78	7.25	78.7	7.4	18.5		
120		12									2300	55.0	45.8	0.83	7.44	80.3	7.4	20.0		
	18.0	5.7	13.2								1850	54.5	42.2	0.78	7.01	78.4	7.8	17.1		
				n in thousar	ndo of Dt	ıb					2300	55.6	45.8	0.82	7.24	80.3	7.7	7/18/14		

Performance capacities shown in thousands of Btuh.

7/18/14

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



### 072 - Part Load Dual Capacity with 5-Speed ECM (1850 cfm)

				Capaci					,000.	,								
EWT	Flow	WF	D			HEATIN	IG - EAT	70°F						LING - E	AT 80/67	°F		
°F	gpm	PSI	FT	Airflow cfm	HC Mbtu/h	Power kW	HE Mbtu/h	LAT °F	СОР	HWC Mbtu/h	Airflow cfm	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
	10.0	2.9	6.8		0	peration r	not recom	mended										
20	13.0	4.6	10.5	1650	36.0	3.74	23.3	90.2	2.82	7.0			Operat	tion not re	ecommen	nded		
	16.0	6.6	15.1	1850	37.8	3.79	24.8	88.9	2.92	6.3								
	10.0	2.8	6.6	1000			not recom		2.02	0.0			Operat	tion not re	ecommen	nded		
		i –		1650	39.7	3.81	26.7	92.3	3.05	6.9	1650	47.9	29.6	0.62	1.96	54.6	24.5	-
30	13.0	4.4	10.2	1850	41.6	3.86	28.5	90.8	3.16	6.4	1850	48.7	32.4	0.66	2.06	55.8	23.6	-
İ	16.0	6.4	14.7	1650	41.4	3.81	28.4	93.2	3.19	7.1	1650	48.2	29.6	0.61	1.90	54.7	25.3	-
				1850	43.4	3.86	30.2	91.7	3.30	6.5	1850	49.4	32.4	0.66	2.00	56.2	24.7	-
	10.0	2.8	6.4				not recom								ecommen			
1 40	13.0	4.3	9.9	1650	46.1	3.92	32.8	95.9	3.45	7.3	1650	52.8	34.3	0.65	2.17	60.2	24.3	-
40				1850 1650	48.2 47.8	3.93	34.8 34.4	94.1 96.8	3.59	6.7 7.5	1850 1650	53.8 53.2	37.4 34.3	0.70 0.64	2.28	61.5 60.4	23.6 25.2	-
	16.0	6.2	14.3	1850	49.9	3.94	36.4	95.0	3.71	6.8	1850	54.4	37.4	0.69	2.11	61.9	24.6	-
	<del>                                     </del>	<del>                                     </del>		1650	51.8	3.98	38.2	99.1	3.81	7.7	1650	57.3	37.1	0.65	2.44	65.7	23.5	2.3
	10.0	2.7	6.2	1850	54.1	3.94	40.7	97.1	4.03	7.1	1850	59.1	42.1	0.71	2.56	67.9	23.1	2.4
50	12.0	4.2	9.6	1650	52.5	4.02	38.8	99.5	3.83	7.9	1650	57.5	37.4	0.65	2.35	65.5	24.4	2.1
30	13.0	4.2	9.6	1850	54.7	4.00	41.0	97.4	4.00	7.3	1850	59.3	42.5	0.72	2.48	67.7	23.9	2.3
	16.0	6.0	13.8	1650	54.1	4.04	40.3	100.3	3.92	8.2	1650	57.6	37.4	0.65	2.29	65.5	25.1	2.0
	10.0	0.0	10.0	1850	56.4	4.02	42.7	98.2	4.11	7.5	1850	59.4	42.5	0.72	2.42	67.6	24.6	2.2
	10.0	2.6	6.0	1650	57.7	4.11	43.7	102.4	4.12	8.5	1650	56.4	37.6	0.67	2.75	65.8	20.5	3.2
		-		1850	60.1 59.3	4.02 4.15	46.4 45.2	100.1	4.38	7.8 8.7	1850	58.1 56.6	42.5	0.73 0.67	2.88	67.9 65.7	20.2	3.4
60	13.0	4.0	9.3	1650 1850	61.7	4.15	45.2	103.3	4.19 4.44	8.7	1650 1850	58.3	38.0 43.0	0.67	2.66	67.8	20.9	3.0
	<u> </u>	-		1650	60.7	4.07	46.4	100.9	4.24	9.0	1650	56.9	38.1	0.74	2.79	65.8	21.8	2.8
	16.0	5.8	13.4	1850	63.1	4.12	49.1	101.6	4.49	8.3	1850	58.6	43.1	0.73	2.72	67.9	21.5	3.1
				1650	63.7	4.23	49.2	105.7	4.41	9.4	1650	55.5	38.2	0.69	3.07	65.9	18.1	4.5
	10.0	2.5	5.8	1850	66.3	4.11	52.2	103.2	4.73	8.7	1850	57.1	43.0	0.75	3.19	68.0	17.9	4.8
70	13.0	3.9	9.0	1650	66.1	4.27	51.5	107.1	4.53	9.7	1650	55.8	38.6	0.69	2.97	65.9	18.8	4.2
70	13.0	3.9	9.0	1850	68.7	4.15	54.5	104.4	4.85	8.9	1850	57.4	43.5	0.76	3.09	67.9	18.6	4.6
	16.0	5.6	12.9	1650	67.3	4.34	52.5	107.8	4.55	10.0	1650	56.1	38.8	0.69	2.93	66.1	19.1	3.9
	10.0			1850	69.9	4.21	55.5	105.0	4.86	9.2	1850	57.9	43.6	0.75	3.03	68.2	19.1	4.3
	10.0	2.4	5.6	1650 1850	69.3 71.9	4.32 4.17	54.6 57.7	108.9 106.0	4.70 5.06	10.6 9.8	1650 1850	51.8 48.5	37.1 41.5	0.72 0.86	3.49 3.59	63.7	14.8 13.5	6.1 5.9
	<u> </u>			1650	73.0	4.17	58.1	111.0	4.89	10.9	1650	47.5	37.5	0.79	3.40	59.1	14.0	5.9
80	13.0	3.8	8.7	1850	75.6	4.20	61.3	107.8	5.28	10.9	1850	48.9	42.0	0.79	3.50	60.9	14.0	5.6
		<u> </u>		1650	73.8	4.43	58.7	111.4	4.88	11.3	1650	47.9	37.8	0.79	3.35	59.3	14.3	4.8
	16.0	5.4	12.5	1850	76.4	4.27	61.8	108.2	5.24	10.4	1850	54.3	42.3	0.78	3.44	66.0	15.8	5.8
	10.0	2.3	5.4	1650	75.0	4.41	60.0	112.1	4.99	11.9	1650	48.1	36.1	0.75	3.91	61.5	12.3	8.2
	10.0	2.3	5.4	1850	77.5	4.23	63.1	108.8	5.38	11.0	1850	49.6	40.1	0.81	3.99	63.3	12.4	8.7
90	13.0	3.6	8.4	1650	79.9	4.47	64.6	114.8	5.24	12.3	1650	48.6	36.5	0.75	3.83	61.7	12.7	7.6
"	L 3.0	ļ	ļ	1850	82.5	4.25	68.1	111.3	5.70	11.4	1850	50.1	40.6	0.81	3.91	63.5	12.8	8.3
	16.0	5.2	12.1	1650 1850	80.4 82.9	4.53 4.33	64.9 68.1	115.1 111.5	5.20 5.61	12.7 11.7	1650 1850	49.1 50.7	36.8 40.9	0.75 0.81	3.77	62.0 63.8	13.0 13.2	7.1 7.9
	10.0	2.2	5.2	1650	02.9	4.33	00.1	111.5	3.01	11.7	1650	30.7			ecommen		13.2	7.9
											1650	45.5	35.7	0.79	4.36	60.4	10.4	9.7
100	13.0	3.5	8.1								1850	47.0	39.6	0.84	4.41	62.1	10.6	10.5
	400	- n	44.0								1650	46.1	36.2	0.78	4.30	60.8	10.7	9.0
	16.0	5.0	11.6								1850	47.5	40.0	0.84	4.35	62.4	10.9	10.0
	10.0	2.2	5.0										Operat	tion not re	ecommen	nded		
	13.0	3.4	7.8								1650	42.4	35.0	0.83	4.90	59.1	8.7	12.9
110		ļ			0	peration r	not recom	mended			1850	43.9	38.6	0.88	4.92	60.6	8.9	13.9
	16.0	4.8	11.2								1650	43.1	35.6	0.82	4.83	59.6	8.9	11.9
-	10.0	2.1	4.8								1850	44.4	39.2 Operat	0.88	4.85 ecommen	61.0	9.1	13.3
		i –									1650	39.1	34.2	0.87	5.49	57.9	7.1	15.7
120	13.0	3.2	7.5											7.1	16.7			
	100	1.	+								1650	39.5	34.2	0.87	5.31	57.6	7.4	14.4
<u></u>	16.0	4.6	10.7								1850	40.3	37.1	0.92	5.48	59.0	7.4	15.9
																		7/40/44

Performance capacities shown in thousands of Mbtu/h.

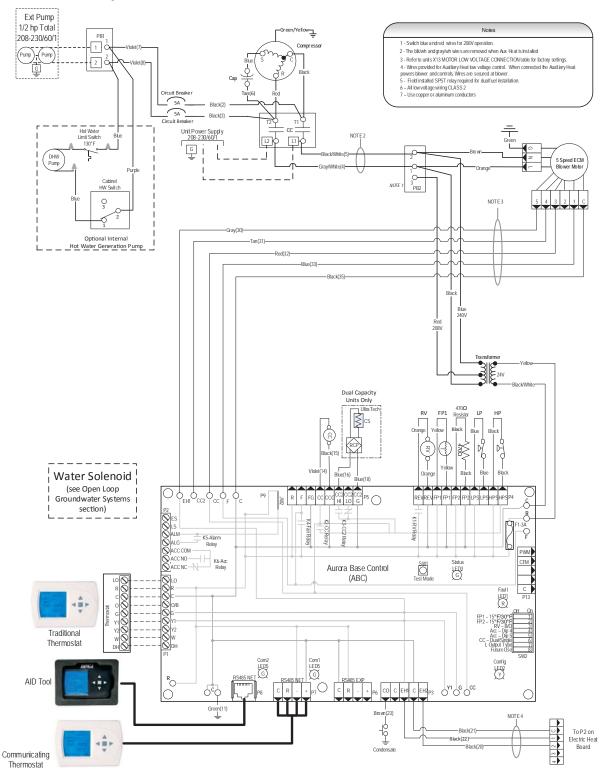
7/18/14

Contractor:	P.O.:	
Engineer:		
Proiect Name:	Unit Tag:	



# **Wiring Schematics**

### **Aurora BASE with 5-Speed ECM**

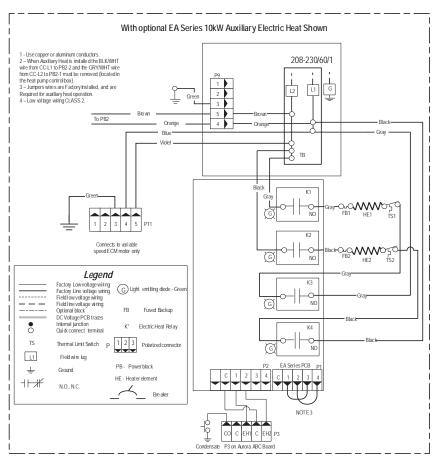


Contractor:	P.O.:	
Engineer:		
Proiect Name:	Unit Tag:	



# Wiring Schematics cont.

### Aurora BASE with 5-Speed ECM cont.

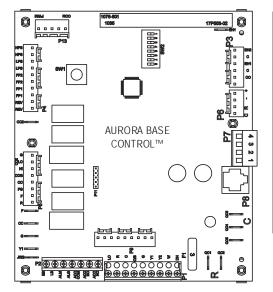


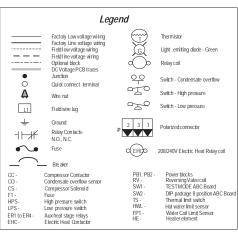
		Aurora LED Flash	Codes		
SlowFlash	1 second on and 1 second off				
Fast Flash	100 milliseconds on and	100 milliseconds	off		
Flash Code	100 milliseconds on and	400 milliseconds	off with a 2 second pause b	efore repeating	
Rando	om Start Delay (Alternat	ingColors)	Configuration LED (LED	2, Yellow)	
Status LED (	LED1, Green)	Fast Flash	No Software Overide	OFF	
Configuration	LED (LED2, Yellow)	Fast Flash	DIP Switch Overide	Slow Flash	
Fault LED (L	ED3, Red)	Fast Flash			
	Fault LED (LED1, Red	)	Status LED (LED3,		
Normal Mode		OFF	Normal Mode	ON	
Input Fault Lockout		Flash Code 1	Control is Non-Functional	OFF	
High Pressure Lockout		Flash Code 2	Test Mode	Slow Flash	
Low Pressur	e Locko ut	Flash Code 3	Lockout Active	Fast Flash	
Future Use		Flash Code 4	Dehumidification Mode	Flash Code 2	
Freeze De ter	ction - FP1	Flash Code 5	Future Use	Flash Code 3	
Reserved		Flash Code 6	Future Use	Flash Code 4	
Condensate	Overflow Lockout	Flash Code 7	Load Shed	Flash Code 5	
Over/Under \	/oltage Shutdown	Flash Code 8	ESD	Flash Code 6	
Future Use		Flash Code 9	Future Use	Flash Code 7	
Future Use		Flash Code 10			
FP1 Sensor	Error	Flash Code 11			

ABC SW2 Accessory Relay				
DESCRIPTION	SW2-4	SW2-5		
Cycle with Blower	ON	ON		
Cycle with Compressor	OFF	OFF		
Water Valve Slow Opening	ON	OFF		
Cycle with Comm. T-stat Hum Cmd	OFF	ON		

Aurora Timing Events					
Event	Normal Mode	Test Mode			
Random Start Delay	5 to 80 seconds	1 second			
Compressor On Delay	5 seconds	< 1 second			
Compressor Minimum On Time	2 minutes	5 seconds			
Compressor Short Cycle Delay	4 minutes	15 seconds			
Blower Off Delay	30 seconds	2 seconds			
Fault Recognition Delay – High Pressure	Less than 1 second	Less than 1 second			
Start-Up Bypass - Low Pressure	2 minutes	30 seconds			
Fault Recognition Delay - Low Pressure	30 seconds	30 seconds			
Start-Up Bypass - Low Water Coil Limit	2 minutes	30 seconds			
Fault Recognition Delay - Low Water Coil Limit	30 seconds	30 seconds			
Fault Recognition Delay - Condensate Overflow	30 seconds	30 seconds			
Thermostat Call Recognition Time	2 seconds	2 seconds			
Comfort Alert Recognition Time	90 seconds	90 seconds			
Auxi liary Heat Staging Del ay	5 minutes	20 seconds			
Emergency Heat Staging Delay	2 minutes	7.5 seconds			
Water Valve Slow Open Delay	90 seconds	90 seconds			

5 SPEED ECM MOTOR LOW VOLTAGE CONNECTIONS					
Model	TAP-1	TAP-2	TAP-3	TAP-4	TAP-5
024	BLUE	RED		TAN	GRAY
036	BLUE	RED		TAN	GRAY
048	BLUE	RED		TAN	GRAY
060	BLUE	RED		TAN	GRAY
072	BLUE	RED		TAN	GRAY



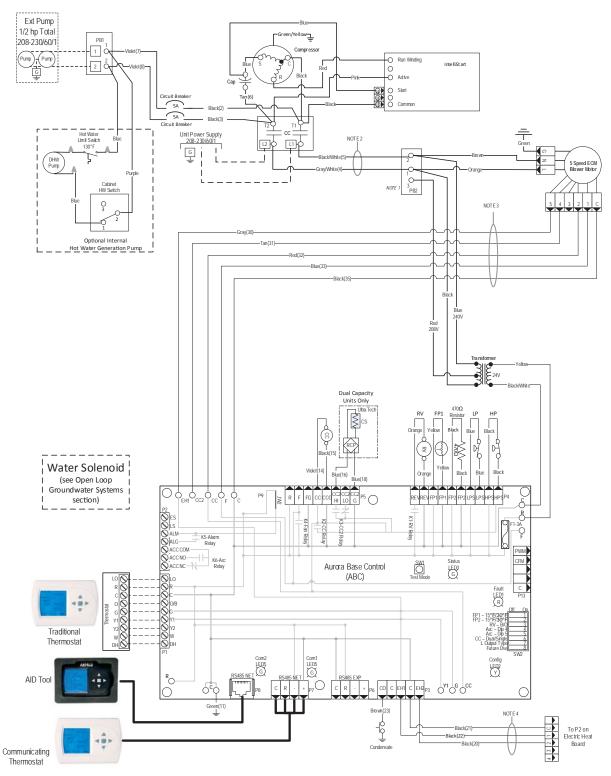


Contractor:	P.O.:	
Engineer:		
Proiect Name:	Unit Tag:	



# Wiring Schematics cont.

### Aurora BASE with 5 Speed ECM and IntelliStart

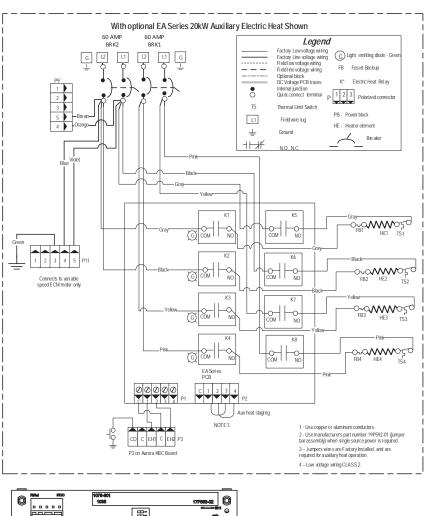


Contractor:	P.O.:	
Engineer:		
Project Name:	Unit Tag:	



# **Wiring Schematics cont.**

### Aurora BASE with 5 Speed ECM and IntelliStart



		Aurora LED Flash	Codes		
SlowFlash	1 second on and 1 second off				
Fast Flash	100 milliseconds on and	100 milliseconds	off		
Flash Code	100 milliseconds on and	400 milliseconds	off with a 2 second pause b	efore repeating	
Rande	om Start Del ay (Altern at	ingColors)	Configuration LED (LED	2, Yellow)	
Status LED	(LED1, Green)	Fast Flash	No Software Overide	OFF	
Configuration	n LED (LED2, Yellow)	Fast Flash	DIP Switch Overide	Slow Flash	
Fault LED (L	ED3, Red)	Fast Flash			
Fault LED (LED1, Red)		)	Status LED (LED3, Green)		
Normal Mod	e	OFF	Normal Mode ON		
Input Fault L	ockout	Flash Code 1	Control is Non-Functional	OFF	
High Pressu	re Lockout	Flash Code 2	Test Mode	Slow Flash	
Low Pressur	e Lockout	Flash Code 3	Lockout Active	Fast Flash	
Future Use		Flash Code 4	Dehumidification Mode	Flash Code 2	
Freeze De te	ction - FP1	Flash Code 5	Future Use	Flash Code 3	
Reserved		Flash Code 6	Future Use	Flash Code 4	
Condensate	Overflow Lockout	Flash Code 7	Load Shed	Flash Code 5	
Over/Under '	Voltage Shutdown	Flash Code 8	ESD	Flash Code 6	
Future Use		Flash Code 9	Future Use	Flash Code 7	
Future Use		Flash Code 10			
FP1 Sensor	Error	Flash Code 11			

DESCRIPTION		SW2-4	SW2-5
Cycle with Blower		ON	ON
Cycle with Compressor		OFF	OFF
Water Valve Slow Opening		ON	OFF
Cycle with Comm. T-stat Hum	Cmd	OFF	ON
Aurora Timin	Events		
	Normal	Mode	Test Mo

Event	Normal Mode	Test Mode
Random Start Delay	5 to 80 seconds	1 second
Compressor On Delay	5 seconds	< 1 second
Compressor Minimum On Time	2 minutes	5 seconds
Compressor Short Cycle Delay	4 minutes	15 seconds
Blower Off Delay	30 seconds	2 seconds
Fault Recognition Delay - High Pressure	Less than 1 second	Less than 1 second
Start-Up Bypass – Low Pressure	2 minutes	30 seconds
Fault Recognition Delay – Low Pressure	30 seconds	30 seconds
Start-Up Bypass - Low Water Coil Limit	2 minutes	30 seconds
Fault Recognition Delay - Low Water Coll Limit	30 seconds	30 seconds
Fault Recognition Delay - Condensate Overflow	30 seconds	30 seconds
Thermostat Call Recognition Time	2 seconds	2 seconds
Comfort Alert Recognition Time	90 seconds	90 seconds
Auxiliary Heat Staging Delay	5 minutes	20 seconds
Emergency Heat Staging Delay	2 minutes	7.5 seconds
Water Valve Slow Open Delay	90 seconds	90 seconds

5 SPEED ECM MOTOR LOW VOLTAGE CONNECTIONS					
Model	TAP-1	TAP-2	TAP-3	TAP-4	TAP-5
024	BLUE	RED		TAN	GRAY
036	BLUE	RED		TAN	GRAY
048	BLUE	RED		TAN	GRAY
060	BLUE	RED		TAN	GRAY
072	BLUE	RED		TAN	GRAY

- Switch blue and red wires for 208V operation.
- 1 Switch blue and red wires for 20% operation.

  The Biddh and agrowth wire as rearrounded when Aux He at is installed.

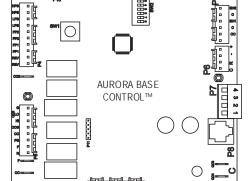
  3 Refor is units X13 MOTOR LOW NOLTAGE CONNECTION table for factory settings.

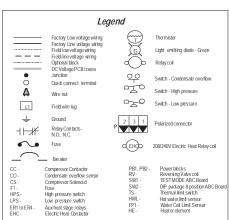
  4 Wires provided for Auxiliary Heal follow voltage control. When connected the Auxiliary Heat powers blower and control. Were as a secured at blower.

  5 Field installed STST relay required for dual fuel installation.

  6 All low voltage withing CLASS 2

  7 Use copper or aluminum conductors.





Contractor:	P.O.:	
Engineer:		
Proiect Name:	Unit Tag:	



## **Engineering Guide Specifications**

#### General

Furnish and install Water Source Heat Pumps, as indicated on the plans. Equipment shall be completely assembled, piped and internally wired. Capacities and characteristics as listed in the schedule and the specifications that follow. The reverse cycle heating/cooling units shall be either suspended type with horizontal air inlet and discharge or floor mounted type with horizontal air inlet and vertical upflow air discharge. Units shall be AHRI/ISO 13256-1 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 with conditioned water and operation verified to catalog data. Each unit shall be mounted on a pallet and shipped in a corrugated box or stretch-wrapped. The units shall be designed to operate with entering liquid temperature between 20°F and 120°F [-6.7°C and 48.9°C].

### **Casing and Cabinet**

The cabinet shall be fabricated from heavy-gauge galvanized steel and finished with corrosion-resistant powder coating. This corrosion protection system shall meet the stringent 1000 hour salt spray test per ASTM B117. The interior shall be insulated with 1/2-inch thick, multi-density, cleanable aluminum foil coated glass fiber with edges sealed or tucked under flanges to prevent the introduction of glass fibers into the discharge air. Standard cabinet panel insulation must meet NFPA 90A requirements, air erosion and mold growth limits of UL-181, stringent fungal resistance test per ASTM-C1071 and ASTM G21, and shall meet zero level bacteria growth per ASTM G22. Unit insulation must meet these stringent requirements or unit(s) will not be accepted.

One (horizontal) to two (vertical) blower and three compressor compartment access panels shall be 'lift-out' removable with supply and return ductwork in place. The front access panel shall be lift-out to provide easy access to the electrical/compressor section. The internal component layout shall provide for service access from the front side for restricted installations.

A duct collar shall be provided on the supply air opening. A duct flange shall be provided for the return air opening. Standard size 1 in. [2.5 cm] MERV 8 pleated filters shall be optional with filter rack or filter rails. The upflow vertical units shall have a removable insulated divider panel between the air handling section and the compressor section to minimize the transmission of compressor noise and to permit operational service testing without air bypass. Vertical units shall be supplied with left or right horizontal air inlet and top air discharge. Horizontal units shall be supplied with left or right air inlet and side or end air discharge. The compressor shall be double isolation mounted using selected durometer grommets to provide vibration free compressor mounting.

The drain pan shall be of plastic construction to inhibit corrosion and bacterial growth. Drain outlet shall be located on pan as to allow complete and unobstructed drainage of condensate. The unit as standard will be supplied with solid-state electronic condensate overflow protection. Mechanical float switches WILL NOT be accepted. Vertical units shall be furnished with a PVC slip condensate drain connection and an internal factory installed condensate trap.

### **Refrigerant Circuit**

All units shall contain a sealed refrigerant circuit including a hermetic motor-compressor, discharge line muffler, bidirectional thermostatic expansion valve, all aluminum finned tube air-to-refrigerant heat exchanger, reversing valve, coaxial tube water-to-refrigerant heat exchanger, optional hot water generator coil, and service ports.

Compressors shall be high-efficiency dual capacity scroll type designed for heat pump duty and mounted on vibration isolators. Compressor motors shall be single-phase PSC with overload protection. The coil shall be sized for low-face velocity and constructed of lanced aluminum fins bonded to aluminum tubes in a staggered pattern not less than three rows deep for enhanced performance. Models shall include discharge mufflers to help quiet compressor discharge gas pulsations. Refrigerant to air heat exchangers shall utilize aluminum tube construction rated to withstand 600 psig (4135 kPa) refrigerant working pressure.

The coaxial water-to-refrigerant heat exchanger shall be designed for low water pressure drop and constructed of a convoluted copper (cupronickel option) inner tube and a steel outer tube. Refrigerant to water heat exchangers shall be of copper inner water tube and steel refrigerant outer tube design, rated to withstand 600 psig (4135 kPa) working refrigerant pressure and 450 psig (3101 kPa) working water pressure. The thermostatic expansion valve shall provide proper superheat over the entire liquid temperature range with minimal "hunting." The valve shall operate bidirectionally without the use of check valves.

All units shall have the source coaxial tube refrigerant-to-water heat exchanger and the optional hot water generator coil shall be coated with ThermaShield. Refrigerant suction lines shall be insulated to prevent condensation at low liquid temperatures.

### **Blower Motor and Assembly**

The blower shall be a direct drive centrifugal type with a dynamically balanced wheel. The housing and wheel shall be designed for quiet low outlet velocity operation. The blower housing shall be removable from the unit without disconnecting the supply air ductwork for servicing of the blower motor. The blower motor shall be a 5-speed ECM.

The ECM blower motor shall be soft starting, and shall provide 5 TAP settings. The blower motor shall be isolated from the housing by rubber grommets. The motor shall be permanently lubricated and have thermostatic overload protection. 5-speed ECM motors shall be long-life ball bearing type.

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



## **Engineering Guide Specifications cont.**

#### **Electrical**

A control box shall be located within the unit compressor compartment and shall contain a 75VA transformer, 24 volt activated, 2 pole compressor contactor, circuit breakers for protecting loop pumps, terminal block for thermostat wiring, and solid-state controller for complete unit operation. Electromechanical operation WILL NOT be accepted. Units shall be name-plated for use with time delay fuses or HACR circuit breakers. Unit controls shall be 24 volt and provide heating or cooling as required by the remote thermostat/sensor. An Aurora, a microprocessor-based controller, interfaces with a multi-stage electronic thermostat to monitor and control unit operation shall be provided. The control shall provide operational sequencing, blower speed control, high and low pressure switch monitoring, freeze detection, condensate overflow sensing, auxiliary heat staging, lockout mode control, and loop pump control, LED status and fault indicators, fault memory, field selectable options, and accessory output. The Lockout signal output shall have a pulsed option so that DDC systems can read specific lockout conditions from the control.

A detachable terminal block with screw terminals will be provided for field control wiring. All units shall have knockouts for entrance of low and line voltage wiring. The blower motor and control box shall be harness plug wired for easy removal.

An optional Aurora Interface Diagnostic (AID) Tool shall communicate with the Aurora control allowing quick and easy access to setup, monitoring, and troubleshooting of any Aurora control. The device shall include the features of fault description and history, manual operation capability, sensor readings, timings, and other diagnostic tools.

Optional IntelliStart® (compressor Soft Starter) shall be factory installed for use in applications that require low starting amps, reduced compressor start-up noise, off-grid, and improved start-up behavior. IntelliStart shall reduce normal starting current by up to 60%.

### **Piping**

Supply and return water connections shall be 1 in. [25.4 mm] FPT brass swivel fittings, which provide a union and eliminate the need for pipe wrenches and sealants when making field connections. The optional hot water generator shall have sweat type connections. All water piping shall be insulated to prevent condensation at low liquid temperatures, on the vertical units, the condensate connection shall be a 3/4 in. [19.1 mm] PVC socket with internally-trapped hose that can be routed to front or side locations.

#### **Hanger Kit**

#### (field-installed horizontal units only)

The hanger kit shall consist of galvanized steel brackets, bolts, lock washers, and isolators and shall be designed to fasten to the unit bottom panel for suspension from 3/8-inch threaded rods. Unit sizes 024-036 shall include four brackets. Unit sizes 048-072 shall include six brackets.

# Options and Accessories Cupronickel Heat Exchanger

An optional cupronickel water-to-refrigerant heat exchanger shall be provided.

#### **Hot Water Generator**

An optional ThermaShield coated heat reclaiming hot water generator coil of vented double-wall copper construction suitable for potable water shall be provided. The coil and hot water circulating pump shall be factory mounted inside the unit with integral electronic high limit temperature monitoring and external on/off switch.

#### 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. The thermostat shall be either a communicating type or a traditional 24 VAC type.

#### Communicating Thermostat (field-installed)

A communicating auto-changeover electronic digital thermostat shall be provided. The thermostat shall offer variable speed heating and cooling staging with precise temperature control. An OFF-HEAT-AUTO-COOL-EMERG system switch, OFF-AUTO blower switch, and indicating display shall be provided. The thermostat shall display in °F or °C.

# Communicating Color Touchscreen Thermostat (field-installed)

A color touchscreen communicating auto-changeover electronic digital thermostat shall be provided. The thermostat shall offer variable speed heating and cooling staging with precise temperature control. An OFF-HEAT-AUTO-COOL-EMERG system switch, OFF-AUTO blower switch, and indicating display shall be provided. The thermostat shall display in °F or °C.

#### **Electronic Air Cleaner (field-installed)**

A 1 in. [25 mm] electronic air cleaner, cleanable 97% efficiency at 0.3 microns and larger, shall be provided in lieu of the standard throwaway filter. The initial pressure drop across the filter shall not exceed 0.2 in. w.g. at 300 fpm force velocity.

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

LX Dual Capacity Series 2 - 6 Tons 60Hz



# **Engineering Guide Specifications cont.**

#### **Electrostatic Air Cleaner (field-installed)**

A 1 in. [25 mm] electrostatic air cleaner, cleanable 90% efficiency, shall be provided in lieu of the standard throwaway filter. The initial pressure drop across the filter shall not exceed 0.15 in. w.g. at 300 fpm force velocity.

#### AlpinePure Drain Pan Treatment (field-installed)

Provides dependable, sustained time-release protection from slime build-up and foul smelling odors in the drain pan. Also adds a light, pleasant scent to the air.

#### Earth Loop Flow Center (field-installed)

A self-contained module shall provide all liquid flow, fill and connection requirements for ground source closed loop systems up to 20 gpm. The pumps shall be wired to a power block located in the nearest unit. The heat pump units shall contain low voltage pump linking control so that two units may share one flow center.

#### **Auxiliary Heater (field-installed)**

An electric resistance heater shall provide supplemental and/or emergency heating capability. Vertical units shall have the control panel and resistance heater coil assembly mounted internally. For horizontal units, the control panel shall be mounted internally while the resistance heater coil assembly shall be mounted externally. A low voltage plug shall be provided in each unit for quick auxiliary heat connection. The heater shall operate in sequenced stages as controlled by the unit's microprocessor. The heater shall feed line voltage power to the unit blower and transformer to provide emergency heat capability in the event of an open compressor circuit breaker.

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

LX Dual Capacity Series 2 - 6 Tons 60Hz



### **Revision Guide**

Pages:	Description:	Date:	Ву:
Misc.	Updated AHRI Data, Misc. Updates	01 Feb 2018	JM
Misc.	Updated Wiring Schematics, Physical Data	14 Dec 2016	MA
ALL	Literature Creation	18 Sept 2014	MA