SUBMITTAL DATA

Affinity Advanced Series

R-454B

60Hz

SDW5-0016Y

PROUD MEMBER

Intertek

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

ENERGY STAR PARTNER

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Nomenclature

1	2	3	4	5-7	8	9	10	11	12	13	14	15	16	17	18	19	20
Y	5	A	V	036	B	D	1	*	0	2	C	T	L	2	D	1	0

Brand
Y – York

Model
5 – Affinity

Type
A – Water to Air

Cabinet Configuration
V – Vertical Package
H – Horizontal Package

Unit Capacity
018,024,030,036,042,
048,060 and 072

Refrigerant
B – R454B

Compressor Type
D – Dual Capacity

Voltage
1 – 208-230/60/1

Vintage
* – Factory Use Only

Hot Water Generation
0 – None
1 – Hot Water Generation with Factory Installed Pump

Blower
2 – Variable Speed ECM

Water Coil
C – Copper
N – CuproNickel

IntelliStart
0 – None
1 – Yes

Mitigation
0 – None
1 – Sensor Mitigation*

Controls
B – Aurora Advanced Control
(Energy Monitoring)
with EEV
D – Aurora Premium Control
(Performance and Refrigeration
Monitoring) with EEV

Filter Option
2 – 2" Filter Rack with
2" MERV11 Filter

Return Air Configuration
L – Left
R – Right

Discharge Air Configuration
T – Top (Vertical)
B – Bottom (Vertical) 024-072
S – Side (Horizontal)
E – End (Horizontal)

Rev.: 4/19/24

* Sensor mitigation required on 048 horizontal models and all 060 and 072 models.

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

AHRI/ISO 13256-1 Performance Ratings

Variable Speed ECM motor

AHRI/ASHRAE/ISO 13256-1

English (IP) Units

Model	Flow Rate		Ground Water Heat Pump				Ground Loop Heat Pump			
			Cooling EWT 59°F		Heating EWT 50°F		Cooling Brine Full Load 77°F Part Load 68°F		Heating Brine Full Load 32°F Part Load 41°F	
	gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
018	5	600	20,800	27.00	18,900	5.00	18,700	19.80	14,700	4.20
	4	500	15,200	29.50	14,200	5.10	14,700	24.80	12,400	4.70
024	8	950	26,400	25.20	23,300	4.90	25,000	19.20	19,400	4.10
	7	750	19,700	31.80	16,900	5.20	19,600	26.60	15,800	4.60
030	8	1000	35,200	27.50	31,100	4.80	32,300	20.30	24,600	4.00
	7	800	26,100	35.90	21,800	4.90	24,800	28.70	19,400	4.30
036	9	1300	41,800	28.40	36,000	5.30	38,500	20.80	29,600	4.50
	8	1150	31,000	35.60	25,900	5.50	30,300	30.00	23,600	5.00
042	11	1300	46,200	26.60	41,700	5.20	41,700	19.20	33,700	4.40
	10	1200	34,400	32.70	29,700	5.50	33,100	26.90	26,600	4.90
048	12	1600	53,100	24.90	49,300	5.10	50,500	19.00	40,100	4.40
	11	1400	39,900	32.70	35,500	5.50	39,200	27.30	32,000	5.00
060	16	1800	68,400	24.20	56,100	4.70	66,000	19.30	47,600	4.10
	14	1500	49,400	31.40	38,700	4.90	49,100	26.50	35,500	4.40
072	18	2000	78,100	23.10	71,400	4.60	73,400	18.30	57,900	4.00
	16	1500	58,900	29.70	52,600	4.60	56,300	25.10	47,600	4.20

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature 7/24/24

Heating capacities based upon 68°F DB, 59°F WB entering air temperature

All ratings based upon 208V operation

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

AHRI/ISO 13256-1 Performance Ratings

Energy Star Compliance Table

Model	Tier 3	
	Ground Water	Ground Loop
018	YES	YES
024	YES	YES
030	YES	YES
036	YES	YES
042	YES	YES
048	YES	YES
060	YES	YES
072	YES	YES

01/25/24

Energy Star Rating Criteria
In order for water-source heat pumps to be Energy Star rated they must meet or exceed the minimum efficiency requirements listed below. Tier 3 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

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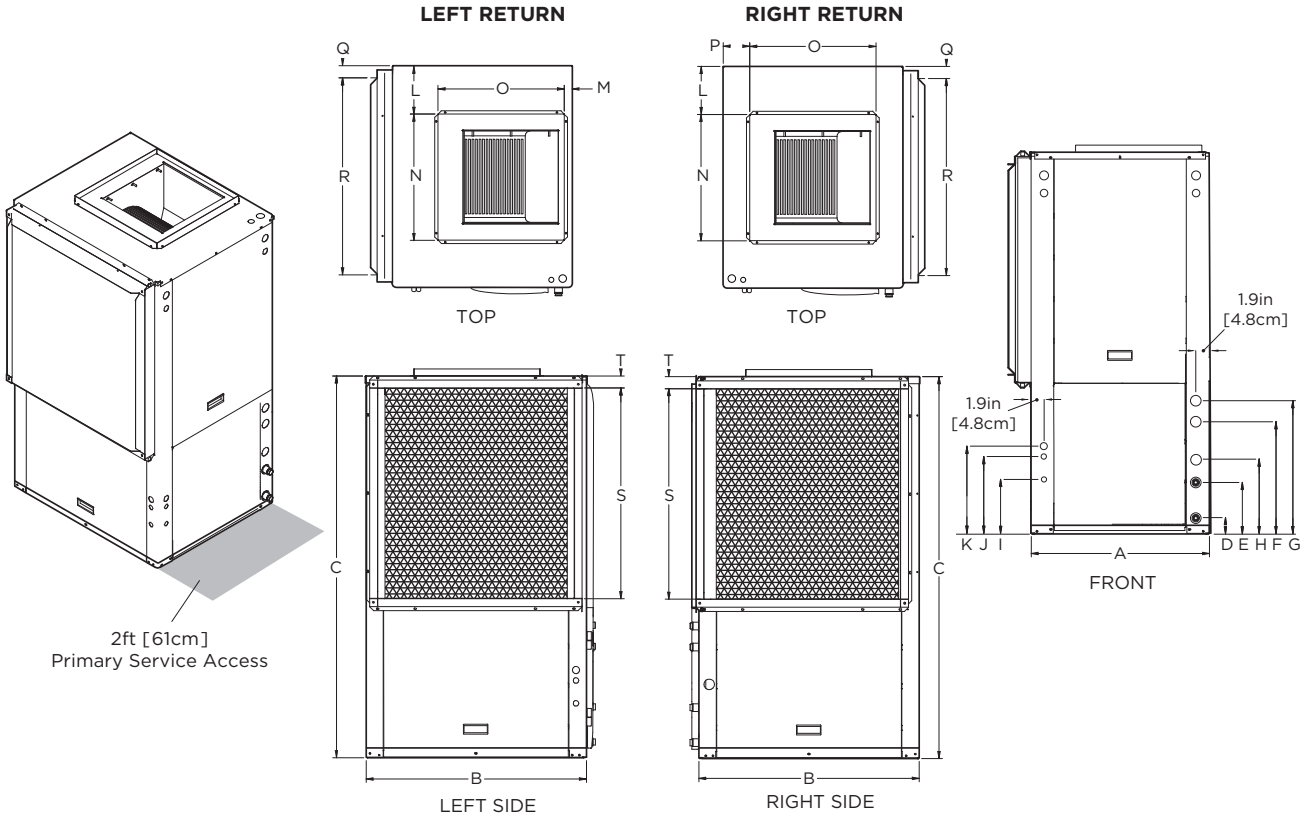
Dimensional Data - Vertical

Top Air Discharge



Vertical Top Flow Model		Overall Cabinet			Water Connections							Electrical Connections			Discharge Connection duct flange installed (±0.10 in)					Return Connection using std deluxe filter rack (±0.10 in)			
												I 3/4" cond	J 1/2" cond	K 1/2" cond									
		A	B	C	D	E	F	G	H	Loop Water FPT	HWG (O.D.)	Power Supply	Ext Pump	Low Votage	L	M	N	O	P	Q	R	S	T
		Width	Depth	Height	Loop In	Loop Out	HWG In	HWG Out	Cond-ensate								Supply Width	Supply Depth			Return Depth	Return Height	
018	in.	22.5	26.5	39.4	2.3	5.3	13.4	16.4	9.6	1" Swivel	1/2" Stub	6.9	9.4	11.7	6.3	0.7	14.0	14.0	2.7	2.3	22.0	18.0	2.0
	cm.	57.2	67.3	100.1	5.8	13.5	34.0	41.7	24.4			17.5	23.9	29.7	16.0	1.8	35.6	35.6	6.9	5.8	55.9	45.7	5.1
024-030	in.	22.5	26.5	48.5	2.0	7.0	13.5	16.5	10.2	1" Swivel	1/2" Stub	9.5	12.1	14.3	6.1	0.8	14.0	14.0	4.4	1.7	22.2	26.0	1.7
	cm.	57.2	67.3	123.2	5.1	17.8	34.3	41.9	25.9			24.1	30.7	36.3	15.5	2.0	35.6	35.6	11.2	4.3	56.4	66.0	4.3
036	in.	25.6	31.6	50.4	2.3	7.3	15.9	18.9	10.6	1" Swivel	1/2" Stub	9.5	12.1	14.3	6.9	1.1	18.0	18.0	3.8	1.7	28.1	26.0	1.7
	cm.	65.0	80.3	128.0	5.8	18.5	40.4	48.0	26.9			24.1	30.7	36.3	17.5	2.8	45.7	45.7	9.7	4.3	71.4	66.0	4.3
042-048	in.	25.6	31.6	54.4	2.3	7.3	15.9	18.9	10.6	1" Swivel	1/2" Stub	9.5	12.1	14.3	6.9	1.1	18.0	18.0	3.8	1.7	28.1	30.0	1.7
	cm.	65.0	80.3	138.2	5.8	18.5	40.4	48.0	26.9			24.1	30.7	36.3	17.5	2.8	45.7	45.7	9.7	4.3	71.4	76.2	4.3
060-072	in.	25.6	31.6	58.4	2.3	7.3	15.9	18.9	10.6	1" Swivel	1/2" Stub	9.5	12.1	14.3	6.9	1.1	18.0	18.0	3.8	1.7	28.1	34.0	1.7
	cm.	65.0	80.3	148.3	5.8	18.5	40.4	48.0	26.9			24.1	30.7	36.3	17.5	2.8	45.7	45.7	9.7	4.3	71.4	86.4	4.3

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

1/25/24

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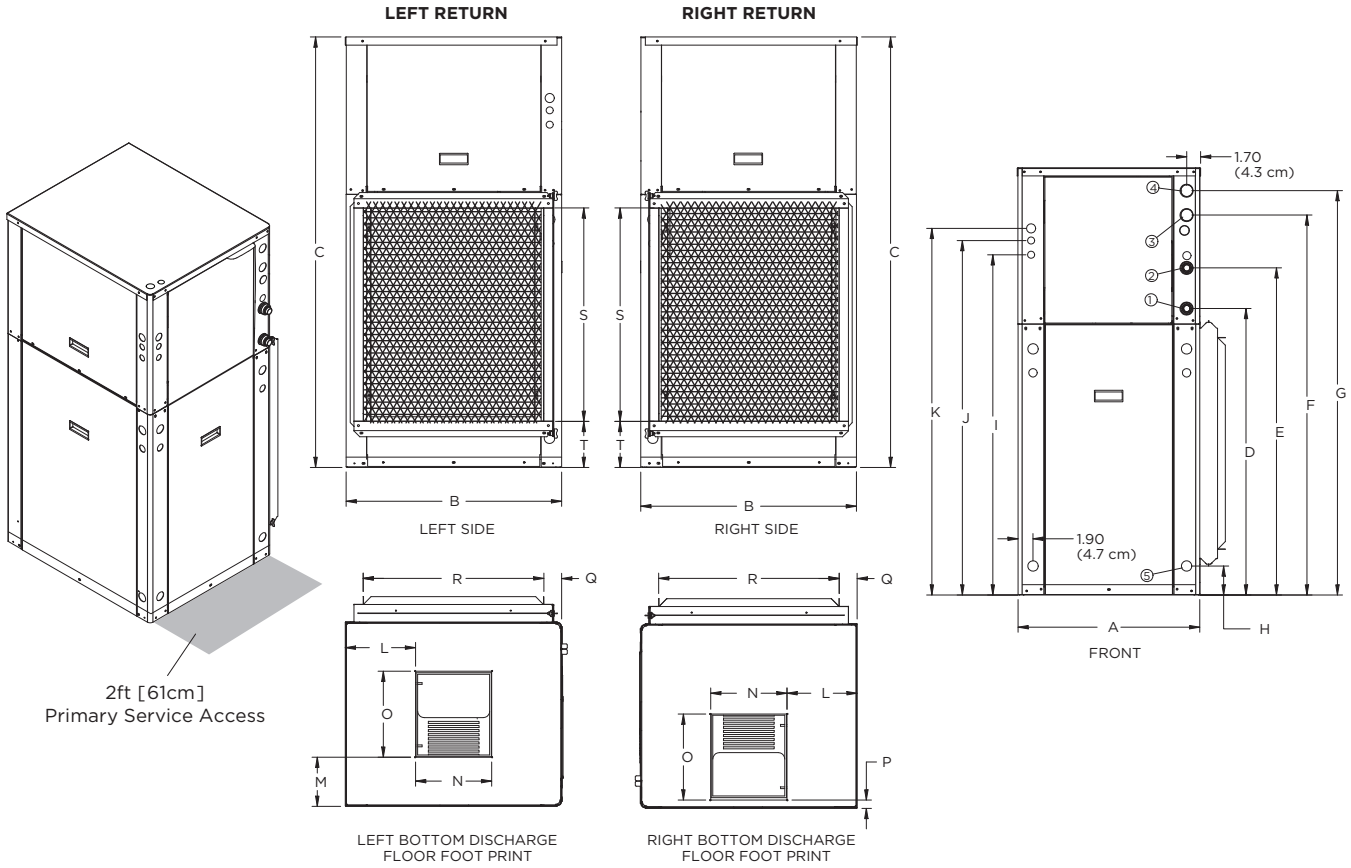
Dimensional Data - Vertical cont.

Bottom Air Discharge



Bottom Flow Models		Overall Cabinet			Water Connections							Electrical Knockouts			Discharge Connection duct flange installed (±0.10 in)					Return Connection using std deluxe filter rack (±0.10 in)			
					1	2	3	4	5			I 3/4 in. cond	J 1/2 in. cond	K 1/2 in. cond									
		A	B	C	D	E	F	G	H	Loop Water FPT	HWG (O.D.)	Power Supply	Ext Pump	Low Voltage	L	M	N	O	P	Q	R	S	T
		Width	Depth	Height	In	Out	HWG In	HWG Out	Con-densate								Supply Width	Supply Depth			Return Depth	Return Height	
024-030	in.	22.5	26.5	52.5	35.3	40.2	46.7	49.7	3.6	1 in. Swivel	1/2 in. Stub	41.9	43.6	45.1	8.6	6.0	9.3	10.5	1.0	2.2	22.2	26.0	5.6
	cm.	57.2	67.3	133.4	89.7	102.1	118.6	126.2	9.1			106.4	110.7	114.6	21.8	15.2	23.6	26.7	2.5	5.6	56.4	66.0	14.2
036-072	in.	25.5	31.5	62.5	43.4	48.4	57.0	60.0	3.6	1 in. Swivel	1/2 in. Stub	48.9	50.8	52.2	9.1	4.8	13.4	13.6	1.5	1.8	28.1	34.0	5.6
	cm.	64.8	80.0	158.8	110.2	122.9	144.8	152.4	9.1			124.2	129.0	132.6	23.1	12.2	34.0	34.5	3.8	4.6	71.4	86.4	14.2

Condensate is 3/4 in. PVC female glue socket and is switchable from side to front 7/11/12
Vertical bottom flow unit shipped with deluxe 2 in. (field adjustable to 1 in.) duct collar/filter rack extending from unit 3.25 in. and is suitable for duct connection.
Water connections extend 1.2 in. (30.5mm) beyond front of cabinet.
Top panel has 1.375 in. and 1.125 in. knockouts for electrical connections.

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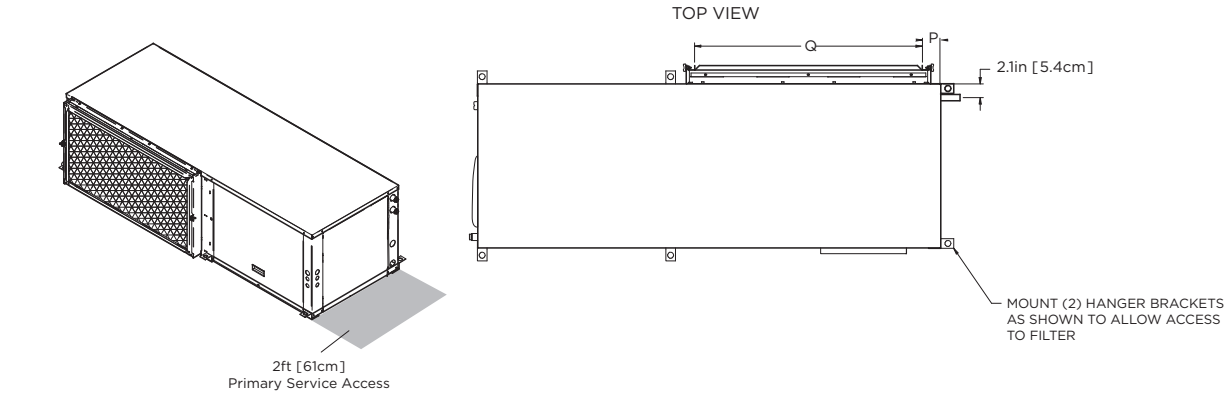
Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Dimensional Data - Horizontal



AS SHOWN LR UNIT (RR UNIT ON OPPOSITE SIDE—SAME DIMENSIONS)

Horizontal Model		Overall Cabinet			Water Connections							Electrical Connections			Discharge Connection duct flange installed (±0.10 in)				Return Connection using std deluxe filter rack (±0.10 in)			
		A	B	C	D	E	F	G	H	Loop Water FPT	HWG (O.D.)	I 3/4 in. cond	J 1/2 in. cond	K 1/2 in. cond	L	M	N	O	P	Q	R	S
		Width	Depth	Height	In	Out	HWG In	HWG Out	Cond-ensate			Power Supply	Ext Pump	Low Volt-age		Supply Height	Supply Depth			Return Depth	Return Height	
018	in.	22.5	53.0	19.3	2.3	5.3	13.8	16.8	8.0	1 in. Swivel	1/2 in. Stub	6.9	9.5	11.7	1.8	10.5	9.5	8.2	2.2	21.8	16.5	1.5
	cm.	57.2	134.6	49.0	5.8	13.5	35.1	42.7	20.3			17.5	24.1	29.7	4.6	26.7	24.1	20.8	5.6	55.4	41.9	3.8
024-030	in.	22.5	63.0	19.3	2.0	7.0	13.5	16.5	0.8	1 in. Swivel	1/2 in. Stub	9.5	12.1	14.3	2.3	10.5	9.4	5.8	2.8	30.5	16.9	1.3
	cm.	57.2	160.0	49.0	5.1	17.8	34.3	41.9	2.0			24.1	30.7	36.3	5.8	26.7	23.9	14.7	7.1	77.5	42.9	3.3
036	in.	25.6	72.0	21.3	2.3	7.3	15.9	18.9	0.8	1 in. Swivel	1/2 in. Stub	9.5	12.1	14.3	SEE	13.6	13.2	SEE	2.8	35.5	18.9	1.3
	cm.	65.0	182.9	54.1	5.8	18.5	40.4	48.0	2.0			24.1	30.7	36.3	CHART	34.5	33.5	CHART	7.1	90.2	48.0	3.3
042-048	in.	25.6	77.0	21.3	2.3	7.3	15.9	18.9	0.8	1 in. Swivel	1/2 in. Stub	9.5	12.1	14.3	SEE	13.6	13.2	SEE	2.8	40.4	18.9	1.3
	cm.	65.0	195.6	54.1	5.8	18.5	40.4	48.0	2.0			24.1	30.7	36.3	CHART	34.5	33.5	CHART	7.1	102.6	48.0	3.3
060-072	in.	25.6	82.0	21.3	2.3	7.3	15.9	18.9	0.8	1 in. Swivel	1/2 in. Stub	9.5	12.1	14.3	SEE	13.6	13.2	SEE	2.8	45.4	18.9	1.3
	cm.	65.0	208.3	54.1	5.8	18.5	40.4	48.0	2.0			24.1	30.7	36.3	CHART	34.5	33.5	CHART	7.1	115.3	48.0	3.3

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

Rev: 1/25/24

Unit shipped with deluxe 2 in. (field adjustable to 1 in.) duct collar/filter rack extending from unit 3.25 in. and is suitable for duct connection.

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

Decorative molding and/or water connections extend 1.2 in. [30.5mm] beyond front of cabinet.

Units Not Shown Above		L	O
Right Return End Discharge	in	2.8	4.6
	cm	7.1	11.8
Right Return Side Discharge	in	4.9	6.9
	cm	12.4	17.5
Left Return End Discharge	in	4.9	7.6
	cm	12.4	19.4
Left Return Side Discharge	in	2.8	6.9
	cm	7.1	17.5

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Physical Data

Model		018	024	030	036	042	048	060	072
Compressor (1 each)		Dual Capacity Scroll							
Factory Charge R-454B, oz [kg]	Vertical	32 [0.91]	50 [1.42]	56 [1.59]	54 [1.53]	56 [1.59]	62 [1.76]	76 [2.15]	104 [2.95]
Factory Charge R-454B, oz [kg]	Horizontal	36 [0.93]	48 [1.36]	54 [1.53]	54 [1.53]	62 [1.76]	72 [2.04]	84 [2.38]	104 [2.95]
Blower Motor & Blower									
Blower Motor Type/Speeds	VS ECM	Variable Speed ECM							
Blower Motor- hp [W]	VS ECM	1/2 [373]	1/2 [373]	1/2 [373]	1/2 [373]	1/2 [373]	1/2 [373]	1 [746]	1 [746]
Blower Wheel Size (Dia x W), in. [mm]	VS ECM	9 x 7 [229 x 178]	9 x 7 [229 x 178]	9 x 7 [229 x 178]	11 x 10 [279 x 254]	11 x 10 [279 x 254]	11 x 10 [279 x 254]	11 x 10 [279 x 254]	11 x 10 [279 x 254]
Coax and Water Piping									
Water Connections Size - Swivel - in [mm]		1" [25.4]	1" [25.4]	1" [25.4]	1" [25.4]	1" [25.4]	1" [25.4]	1" [25.4]	1" [25.4]
HWG Connection Size - Stub - in [mm]		1/2" [12.7]	1/2" [12.7]	1/2" [12.7]	1/2" [12.7]	1/2" [12.7]	1/2" [12.7]	1/2" [12.7]	1/2" [12.7]
Coax & Piping Water Volume - gal [l]		0.40 [1.5]	0.7 [2.6]	1.0 [3.8]	1.3 [4.9]	1.3 [4.9]	1.6 [6.1]	1.6 [6.1]	2.3 [8.7]
Vertical									
Air Coil Dimensions (H x W), in. [mm]		19 x 20 [483 x 508]	24 x 20 [610 x 542]	28 x 20 [711 x 542]	28 x 25 [711 x 635]	32 x 25 [813 x 635]	32 x 25 [813 x 635]	36 x 25 [914 x 635]	36 x 25 [914 x 635]
Air Coil Total Face Area, ft2 [m2]		2.6 [0.242]	3.3 [0.310]	3.9 [0.362]	4.9 [0.451]	5.6 [0.570]	5.6 [0.570]	6.3 [0.641]	6.3 [0.641]
Air Coil Tube Size, in [mm]		3/8 [9.5]	3/8 [9.5]	3/8 [9.5]	3/8 [9.5]	5/16 [7.9]	5/16 [7.9]	3/8 [9.5]	3/8 [9.5]
Air Coil Number of rows		3	3	3	3	4	4	4	4
Filter Standard - 2" [51mm] Pleated MERV11 Throwaway, in [mm]		20 x 24 [508 x 610]	28 x 24 [712 x 610]	28 x 24 [712 x 610]	28 x 30 [712 x 762]	32 x 30 [813 x 762]	32 x 30 [813 x 762]	36 x 30 [914 x 762]	36 x 30 [914 x 762]
Weight - Operating, lb [kg]		200 [91]	293 [133]	308 [140]	353 [160]	368 [167]	408 [185]	443 [201]	468 [212]
Weight - Packaged, lb [kg]		220 [100]	313 [142]	328 [149]	373 [169]	388 [176]	428 [194]	463 [210]	488 [221]
Horizontal									
Air Coil Dimensions (H x W), in. [mm]		18 x 21 [457 x 533]	18 x 27 [457 x 686]	18 x 30 [457 x 762]	20 x 35 [508 x 889]	20 x 40 [508 x 1016]	20 x 40 [508 x 1016]	20 x 45 [508 x 1143]	20 x 45 [508 x 1143]
Air Coil Total Face Area, ft2 [m2]		2.6 [0.242]	3.4 [0.316]	3.9 [0.362]	4.9 [0.451]	5.6 [0.570]	5.6 [0.570]	6.3 [0.641]	6.3 [0.641]
Air Coil Tube Size, in [mm]		5/16 [7.9]	3/8 [9.5]	3/8 [9.5]	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	3	4	4
Filter Standard - 2" [51mm] Pleated MERV11 Throwaway, in [mm]		1 - 18 x 24 [457 x 610]	1 - 18 x 32 [457 x 813]	1 - 18 x 32 [457 x 813]	1 - 20 x 37 [686 x 940]	1 - 20 x 20 [508 x 508] 1 - 20 x 22 [508 x 559]	1 - 20 x 20 [508 x 508] 1 - 20 x 22 [508 x 559]	1 - 20 x 25 [508 x 635] 1 - 20 x 22 [508 x 559]	1 - 20 x 25 [508 x 635] 1 - 20 x 22 [508 x 559]
Weight - Operating, lb [kg]		210 [95]	305 [138]	320 [145]	373 [169]	403 [183]	423 [191]	468 [212]	483 [219]
Weight - Packaged, lb [kg]		230 [104]	325 [152]	340 [154]	393 [178]	423 [192]	443 [101]	488 [221]	503 [228]

7/24/24

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Auxiliary Heat Ratings

Model	KW		Stages	BTU/H		Min CFM				
	208V	230V		208V	230V		018	024 - 030	036 - 042	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 and vertical rear discharge units 01/25/24
Air flow level for auxiliary heat (Aux) must be equal to or above the minimum CFM in this table

Auxiliary Heat Electrical Data

Model	Supply Circuit	Heater Amps		Min Circuit Amp		Fuse (USA)		Fuse (CAN)		CKT BRK	
		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
EAL(H)15*	Single	52.0	60.0	75.0	85.0	80	90	80	90	70	100
	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
EAL(H)20*	Single	69.3	80.0	96.7	110.0	100	110	100	110	100	100
	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 01/25/24
All fuses type "D" time delay (or HACR circuit breaker in USA)
Supply wire size to be determined by local codes

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

YORK®

Electrical Data

Model	Rated Voltage	Voltage Min/Max	Compressor				HWG Pump FLA	Ext Loop FLA	Blower Motor FLA	Total Unit FLA	Min Circ Amp	Max Fuse/ HACR
			MCC	RLA	LRA	LRA*						
018	208-230/60/1	187/253	15.0	9.6	52.0	18.2	0.4	5.4	4.0	19.4	21.8	35
024	208-230/60/1	187/253	16.0	10.2	62.0	21.7	0.4	5.4	4.0	20.0	22.6	35
030	208-230/60/1	187/253	22.7	14.5	82.0	28.7	0.4	5.4	4.0	24.3	28.0	40
036	208-230/60/1	187/253	22.7	14.5	90.0	32.4	0.4	5.4	4.0	24.3	28.0	40
042	208-230/60/1	187/253	28.4	18.2	106.0	37.1	0.4	5.4	4.0	28.0	32.5	50
048	208-230/60/1	187/253	28.6	18.3	138.0	49.7	0.4	5.4	4.0	28.1	32.7	50
060	208-230/60/1	187/253	39.3	25.2	147.3	51.5	0.4	5.4	7.0	38.0	44.2	70
072	208-230/60/1	187/253	43.7	28.0	160.0	56.0	0.4	5.4	7.0	40.8	47.8	70

*With optional IntelliStart

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

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

YORK®

Blower Performance Data

MODEL	MAX ESP	AIR FLOW SPEED SETTINGS											
		1	2	3	4	5	6	7	8	9	10	11	12
018	**0.50**	300	400 G	**500**	**600** **L**	**700** **H**	**800**	**875**	950	1025	1125 Aux		
024	**0.50**		400	500 G	600	**700** **L**	**800**	**900** **H**	**1000**	1100	1200 Aux		
030	**0.50**		400	500 G	600	**700** **L**	**800**	**900** **H**	**1000**	**1100**	1200 Aux		
036	**0.50**	650	750 G	850	1000	**1100** **L**	**1200**	**1300** **H**	**1400**	**1500**	1550 Aux		
042	**0.50**	650	800	900 G	1050	**1150** **L**	**1250**	**1350**	**1450** **H**	**1550**	1600 Aux		
048	**0.50**	650	800 G	900	1050	1150	**1250**	**1350** **L**	**1450**	**1550** **H**	1575 Aux		
060	**0.75**	800	950 G	1100	1300	**1500** **L**	**1750**	**1950** **H**	**2100**	**2300**	2325 Aux		
072	**0.75**	800	950	1100 G	1300	**1500**	**1750** **L**	**1950**	**2100** **H**	**2300**	2325 Aux		

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Factory settings are at recommended G-L-H-Aux speed settings
L-H settings MUST be located within boldface CFM range
"Aux" is factory setting for auxiliary heat and must be equal to or above the "H" setting as well as at least the minimum required for the auxiliary heat package
"G" may be located anywhere within the airflow table
CFM is controlled within ±5% up to the maximum ESP
Max ESP includes allowance for wet coil and standard filter

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

Operating Limits

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

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

Definitions

Abbreviations and Definitions

HWR = Hot Water Return
HWS = Hot Water Supply
CWR = Cold Water Return
CWS = Cold Water Supply
HVR = Heat Recovery Return
HVS = Heat Recovery Supply
HVP = High Voltage Panel
LVP = Low Voltage Panel
TC = Total Cooling Capacity in MBTUH
MBTUH = Thousands of British Thermal Units per hour
LWT = Leaving Water Temperature
EWT = Entering Water Temperature
EER = Energy Efficiency Ratio (TC/kW)
COP = Coefficient of Performance (HC/kW x 3.413)
PSI = Pressure drop in pounds per square inch
HC = Heating Capacity in MBTUH
HE = Heat of Extraction in MBTUH
kW = kilowatt
ft hd = pressure drop in feet of head
HR = Heat of Rejection

Reference Calculations

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

Notes to Performance Data Tables

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.

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Correction Factor Tables

Air Flow Corrections (Dual Capacity Part Load)

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

5/30/06

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

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

5/30/06

Cooling Capacity Corrections

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

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

3/28/12

Heating Capacity Corrections

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

11/10/09

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Antifreeze Corrections

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

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

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

Antifreeze Correction Example

Antifreeze solution is Propylene Glycol 20% by weight. Determine the corrected heating and cooling performance at 30°F and 90°F respectively as well as pressure drop at 30°F for a 024-ECM.

The corrected cooling capacity at 90°F would be: 22,900 MBtu/h x 0.969 = 22,190 MBtu/h

The corrected heating capacity at 30°F would be: 18,900 MBtu/h x 0.913 = 17,255 MBtu/h

The corrected pressure drop at 30°F and 6 gpm would be: 7.4 feet of head x 1.270 = 9.39 feet of head

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Pressure Drop

Model	GPM	Pressure Drop (psi)					Model	GPM	Pressure Drop (psi)				
		30°F	50°F	70°F	90°F	110°F			30°F	50°F	70°F	90°F	110°F
018 full load	3	1.8	1.7	1.6	1.5	1.4	**042 full load**	5	1.5	1.4	1.3	1.2	1.1
	4	3.3	3.1	2.9	2.7	2.5		8	3.5	3.3	3.1	2.9	2.7
	5	4.8	4.5	4.2	3.9	3.6		11	5.6	5.2	4.9	4.6	4.2
	6	6.0	5.8	5.5	5.3	5.2		14	7.5	7.1	6.7	6.3	5.7
018 part load	2	1.8	1.7	1.6	1.5	1.4	**042 part load**	4	0.9	0.9	0.8	0.7	0.7
	3	3.3	3.1	2.9	2.7	2.5		6	2.0	1.9	1.8	1.7	1.6
	4	4.8	4.5	4.2	3.9	3.6		8	3.2	3.0	2.8	2.6	2.4
	5	4.2	4.2	4.1	4.0	3.9		9	4.2	4.1	3.8	3.5	3.2
024 full load	4	1.4	1.3	1.2	1.1	1.0	**048 full load**	6	1.4	1.3	1.2	1.1	1.0
	6	3.2	3.0	2.8	2.6	2.4		9	2.7	2.6	2.4	2.3	2.1
	8	5.1	4.8	4.5	4.2	3.9		12	4.1	3.8	3.6	3.5	3.1
	10	7.0	6.6	6.2	5.8	5.3		15	5.3	4.9	4.5	4.3	4.1
024 part load	3	0.8	0.7	0.7	0.7	0.6	**048 part load**	5	1.1	1.1	0.9	0.8	0.7
	5	2.4	2.2	2.0	2.1	1.8		8	2.3	2.1	2.1	1.9	1.7
	7	4.0	3.7	3.3	3.2	3.0		11	3.5	3.3	3.1	2.9	2.7
	9	5.8	5.5	5.1	4.8	4.4		14	4.7	4.5	4.1	3.9	3.7
030 full load	4	1.3	1.2	1.2	1.1	1.0	**060 full load**	8	2.6	2.5	2.3	2.1	2.0
	6	2.6	2.5	2.3	2.1	2.0		12	4.8	4.5	4.2	3.9	3.6
	8	4.2	4.0	3.7	3.4	2.9		16	7.0	6.6	6.2	5.8	5.4
	10	6.8	6.3	5.4	5.4	5.0		20	9.2	8.5	8.0	7.7	7.2
030 part load	4	1.3	1.2	1.2	1.1	1.0	**060 part load**	6	1.8	1.7	1.6	1.5	1.4
	6	2.6	2.5	2.3	2.1	2.0		10	3.6	3.4	3.2	3.0	2.8
	7	3.4	3.2	3.0	2.8	2.6		14	5.6	5.2	4.9	4.6	4.2
	8	4.2	4.0	3.7	3.4	2.9		18	8.6	8.0	7.6	7.2	6.6
036 full load	5	1.2	1.2	1.1	1.0	1.0	**072 full load**	12	3.2	3.0	2.8	2.6	2.4
	7	2.7	3.6	2.4	2.2	2.1		15	4.5	4.2	4.0	3.7	3.4
	9	3.9	3.6	3.4	3.2	2.9		18	6.0	5.7	5.3	4.9	4.6
	11	5.2	4.9	4.7	4.5	4.2		21	7.8	7.3	6.8	6.4	5.9
036 part load	4	1.1	1.1	1.0	0.9	0.9	**072 part load**	10	2.3	2.1	2.0	1.9	1.7
	6	2.4	2.2	2.1	2.0	1.8		13	3.4	3.2	3.0	2.8	2.6
	8	3.7	3.5	3.2	3.0	2.8		16	4.9	4.6	4.3	4.0	3.7
	10	5.0	4.8	4.5	4.3	3.9		19	6.4	6.2	5.8	5.4	5.0

5/15/24

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Performance Data

018 - Dual Capacity with Variable Speed ECM High Speed (600 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	3.0	1.9	4.3	Operation not recommended							Operation not recommended							
	4.0	3.4	7.8															
	5.0	4.9	11.4	500	11.5	0.97	8.1	91.2	3.45	1.6								
				600	12.1	1.06	8.5	88.7	3.35	1.5								
30	3.0	1.8	4.2	Operation not recommended							Operation not recommended							
	4.0	3.3	7.6	500	14.2	1.06	10.6	96.3	3.94	1.6	500	20.7	13.5	0.65	0.60	22.7	34.5	-
				600	14.6	1.09	10.9	92.5	3.93	1.6	600	21.0	14.7	0.70	0.63	23.2	33.3	-
	5.0	4.8	11.0	500	14.1	1.01	10.7	96.1	4.09	1.7	500	20.8	13.5	0.65	0.58	22.8	35.8	-
				600	14.9	1.10	11.1	93.0	3.97	1.6	600	21.3	14.7	0.69	0.61	23.4	34.9	-
40	3.0	1.8	4.1	Operation not recommended							Operation not recommended							
	4.0	3.2	7.4	500	16.0	1.10	12.3	99.7	4.26	1.8	500	20.3	13.4	0.66	0.68	22.6	30.1	-
				600	16.5	1.12	12.7	95.5	4.30	1.6	600	20.7	14.7	0.71	0.71	23.1	29.3	-
	5.0	4.6	10.7	500	16.3	1.11	12.5	100.2	4.31	1.8	500	20.5	13.4	0.65	0.66	22.7	31.3	-
				600	16.9	1.14	13.0	96.0	4.35	1.7	600	21.0	14.7	0.70	0.69	23.3	30.6	-
50	3.0	1.7	3.9	500	17.2	1.12	13.4	101.9	4.51	1.9	500	19.0	12.2	0.64	0.79	21.7	24.1	0.9
				600	17.7	1.13	13.8	97.3	4.58	1.7	600	20.0	13.5	0.68	0.83	22.8	24.1	1.0
	4.0	3.1	7.2	500	17.8	1.14	13.9	103.0	4.57	1.9	500	19.4	12.3	0.64	0.74	21.9	26.1	0.8
				600	18.4	1.16	14.4	98.4	4.65	1.8	600	20.4	13.7	0.67	0.78	23.0	26.2	0.9
	5.0	4.5	10.4	500	18.2	1.15	14.3	103.8	4.63	1.9	500	19.6	13.1	0.67	0.72	22.0	27.0	0.8
				600	18.8	1.17	14.8	99.0	4.71	1.9	600	20.6	14.6	0.71	0.76	23.2	27.1	0.9
60	3.0	1.7	3.8	500	19.0	1.15	15.1	105.2	4.82	2.1	500	18.5	12.3	0.66	0.87	21.5	21.2	1.0
				600	19.6	1.16	15.6	100.3	4.94	2.0	600	19.4	13.6	0.70	0.91	22.5	21.3	1.1
	4.0	3.0	6.9	500	19.8	1.19	15.8	106.8	4.90	2.1	500	19.0	12.4	0.65	0.83	21.8	22.9	1.0
				600	20.5	1.19	16.4	101.6	5.03	2.0	600	19.9	13.8	0.69	0.86	22.8	23.0	1.1
	5.0	4.3	10.0	500	20.3	1.20	16.2	107.6	4.97	2.2	500	19.2	13.1	0.68	0.81	21.9	23.7	9.0
				600	21.0	1.21	16.9	102.4	5.11	2.0	600	20.1	14.5	0.72	0.85	23.0	23.8	1.0
70	3.0	1.6	3.7	500	20.8	1.19	16.7	108.5	5.12	2.4	500	18.1	12.4	0.68	0.96	21.4	18.5	1.2
				600	22.3	1.22	18.1	104.4	5.36	2.2	600	19.4	14.3	0.74	0.91	22.5	21.3	1.3
	4.0	2.9	6.7	500	21.9	1.23	17.7	110.5	5.21	2.4	500	18.6	12.5	0.67	0.92	21.7	20.3	1.1
				600	22.6	1.23	18.4	104.9	5.38	2.2	600	19.4	13.9	0.72	0.95	22.6	20.4	1.3
	5.0	4.2	9.7	500	22.4	1.24	18.2	111.5	5.28	2.4	500	18.8	13.0	0.69	0.89	21.8	21.0	1.1
				600	23.2	1.24	19.0	105.8	5.48	2.2	600	19.6	14.4	0.73	0.93	22.8	21.1	1.2
80	3.0	1.5	3.6	500	22.5	1.23	18.3	111.6	5.34	2.7	500	17.6	12.3	0.70	1.08	21.3	16.3	1.6
				600	23.3	1.22	19.1	105.9	5.57	2.5	600	18.3	13.7	0.75	1.11	22.1	16.5	1.7
	4.0	2.8	6.5	500	23.8	1.28	19.4	114.0	5.43	2.7	500	18.1	12.5	0.69	1.04	21.7	17.4	1.5
				600	24.6	1.27	20.3	107.9	5.67	2.4	600	18.8	13.8	0.73	1.07	22.5	17.6	1.6
	5.0	4.1	9.4	500	24.5	1.30	20.0	115.3	5.52	2.7	500	18.3	12.8	0.70	1.02	21.8	18.0	1.4
				600	25.3	1.28	20.9	109.0	5.79	2.5	600	19.1	14.2	0.74	1.05	22.6	18.1	1.5
90	3.0	1.5	3.4	500	24.2	1.28	19.8	114.7	5.55	3.0	500	17.1	12.3	0.72	1.20	21.2	14.3	1.9
				600	25.0	1.26	20.7	108.6	5.83	2.8	600	17.7	13.6	0.77	1.23	21.9	14.4	2.1
	4.0	2.7	6.2	500	25.7	1.33	21.1	117.6	5.64	3.0	500	17.6	12.4	0.71	1.17	21.6	15.1	1.8
				600	26.6	1.31	22.1	111.0	5.95	2.8	600	18.3	13.8	0.75	1.19	22.4	15.3	2.0
	5.0	3.9	9.0	500	26.5	1.35	21.9	119.1	5.74	3.1	500	18.1	13.4	0.74	1.14	22.0	15.9	1.7
				600	27.4	1.32	22.9	112.3	6.08	2.9	600	18.5	13.9	0.75	1.17	22.5	15.8	1.9
100	3.0	1.4	3.3	Operation not recommended							Operation not recommended							
	4.0	2.6	6.0								500	16.6	12.2	0.74	1.32	21.1	12.5	2.2
											600	17.1	13.6	0.79	1.34	21.7	12.7	2.4
	5.0	3.8	8.7								500	16.8	12.2	0.73	1.30	21.2	12.9	2.0
											600	17.3	13.5	0.78	1.32	21.8	13.1	2.3
110	3.0	1.4	3.2								Operation not recommended							
	4.0	2.5	5.8								500	15.5	12.0	0.78	1.48	20.6	10.5	2.9
											600	15.9	13.4	0.84	1.49	21.0	10.7	3.2
	5.0	3.6	8.4								500	15.7	11.9	0.76	1.45	20.6	10.8	2.6
											600	16.1	13.1	0.81	1.47	21.1	11.0	3.0
120	3.0	1.3	3.1								Operation not recommended							
	4.0	2.4	5.6								500	13.4	11.6	0.87	1.66	19.1	8.1	3.5
											600	13.6	12.6	0.92	1.71	19.5	8.0	4.0
	5.0	3.5	8.1								500	13.5	11.6	0.86	1.61	19.0	8.4	3.1
											600	13.8	12.6	0.91	1.66	19.5	8.3	3.5

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Performance Data cont.

018 - Dual Capacity with Variable Speed ECM Low Speed (600 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	2.0	0.9	2.0	Operation not recommended							Operation not recommended							
	3.0	2.0	4.6															
	4.0	3.1	7.3	300	8.0	0.85	5.1	94.6	2.77	1.4								
				400	8.7	0.87	5.7	90.2	2.93	1.3								
30	2.0	0.8	1.9	Operation not recommended							Operation not recommended							
	3.0	1.9	4.5	300	10.3	0.88	7.3	101.8	3.43	1.4	300	15.2	9.7	0.64	0.35	16.5	43.1	-
				400	10.6	0.91	7.5	94.5	3.42	1.4	400	15.5	10.6	0.68	0.37	16.8	41.6	-
	4.0	3.1	7.1	300	9.9	0.89	6.9	100.6	3.26	1.5	300	15.3	9.7	0.63	0.34	16.5	44.7	-
				400	10.8	0.92	7.7	95.0	3.46	1.4	400	15.7	10.6	0.68	0.36	16.9	43.6	-
40	2.0	0.8	1.9	Operation not recommended							Operation not recommended							
	3.0	1.9	4.3	300	11.8	0.91	8.7	106.5	3.83	1.6	300	15.0	9.6	0.64	0.42	16.5	35.9	-
				400	12.2	0.92	9.0	98.2	3.86	1.4	400	15.3	10.5	0.68	0.44	16.8	34.9	-
	4.0	3.0	6.9	300	12.1	0.91	8.9	107.2	3.87	1.6	300	15.2	9.6	0.63	0.41	16.5	37.3	-
				400	12.5	0.93	9.3	98.8	3.91	1.5	400	15.5	10.5	0.67	0.43	17.0	36.5	-
50	2.0	0.8	1.8	300	12.9	0.91	9.8	109.8	4.16	1.7	300	14.1	8.6	0.61	0.51	15.8	27.8	0.7
				400	13.3	0.92	10.1	100.8	4.22	1.5	400	14.8	9.5	0.64	0.53	16.7	27.8	0.8
	3.0	1.8	4.2	300	13.4	0.93	10.2	111.3	4.21	1.7	300	14.4	8.7	0.60	0.48	16.0	30.1	0.6
				400	13.8	0.94	10.6	101.9	4.29	1.6	400	15.1	9.6	0.64	0.50	16.8	30.2	0.7
	4.0	2.9	6.6	300	13.7	0.94	10.5	112.2	4.27	1.7	300	14.5	9.3	0.64	0.47	16.1	31.1	0.6
				400	14.1	0.95	10.9	102.6	4.35	1.7	400	15.3	10.3	0.67	0.49	17.0	31.2	0.7
60	2.0	0.8	1.7	300	14.2	0.93	11.1	114.0	4.51	1.9	300	14.0	8.7	0.62	0.59	16.0	23.8	0.8
				400	14.7	0.93	11.5	104.0	4.63	1.8	400	14.7	9.7	0.66	0.61	16.8	23.9	0.9
	3.0	1.8	4.1	300	14.9	0.95	11.6	115.9	4.59	1.9	300	14.3	8.8	0.61	0.56	16.3	25.7	0.8
				400	15.4	0.96	12.1	105.6	4.70	1.8	400	15.0	9.8	0.65	0.58	17.0	25.8	0.9
	4.0	2.8	6.4	300	15.2	0.96	12.0	117.1	4.65	2.0	300	14.5	9.3	0.64	0.55	16.3	26.6	0.7
				400	15.8	0.97	12.5	106.5	4.78	1.8	400	15.2	10.3	0.68	0.57	17.1	26.7	0.8
70	2.0	0.7	1.7	300	15.6	0.94	12.4	118.2	4.86	2.2	300	13.9	8.8	0.63	0.67	16.2	20.8	1.0
				400	16.4	0.98	13.0	107.9	4.89	2.0	400	14.8	10.2	0.69	0.73	17.2	20.3	1.1
	3.0	1.7	3.9	300	16.4	0.97	13.1	120.6	4.95	2.2	300	14.3	8.9	0.63	0.64	16.5	22.3	0.9
				400	16.9	0.97	13.6	109.2	5.11	2.0	400	14.9	9.9	0.66	0.66	17.3	22.5	1.1
	4.0	2.7	6.2	300	16.8	0.98	13.5	121.9	5.01	2.2	300	14.4	9.3	0.64	0.62	16.6	23.1	0.9
				400	17.4	0.98	14.1	110.3	5.20	2.0	400	15.1	10.3	0.68	0.65	17.4	23.2	1.0
80	2.0	0.7	1.6	300	16.7	0.95	13.5	121.6	5.15	2.5	300	13.1	8.7	0.66	0.78	15.7	16.8	1.4
				400	17.3	0.94	14.1	110.0	5.38	2.3	400	13.6	9.7	0.71	0.80	16.4	16.9	1.5
	3.0	1.6	3.8	300	17.7	0.99	14.3	124.5	5.24	2.5	300	13.4	8.8	0.66	0.75	16.0	17.9	1.3
				400	18.3	0.98	14.9	112.3	5.48	2.3	400	14.0	9.8	0.70	0.78	16.6	18.0	1.4
	4.0	2.6	6.0	300	18.2	1.00	14.8	126.1	5.32	2.2	300	13.6	9.0	0.66	0.74	16.1	18.4	1.3
				400	18.8	0.99	15.4	113.5	5.59	2.5	400	14.2	10.0	0.71	0.76	16.7	18.6	1.7
90	2.0	0.7	1.6	300	17.8	0.96	14.5	125.0	5.45	2.3	300	12.2	8.6	0.70	0.89	15.3	13.7	1.9
				400	18.4	0.94	15.2	112.7	5.73	2.8	400	12.7	9.5	0.75	0.91	15.8	13.9	1.6
	3.0	1.6	3.7	300	18.9	1.00	15.5	128.4	5.54	2.6	300	12.6	8.7	0.69	0.87	15.5	14.5	1.8
				400	19.6	0.98	16.2	115.4	5.84	2.8	400	13.1	9.6	0.74	0.89	16.1	14.7	1.5
	4.0	2.5	5.8	300	19.5	1.02	16.1	130.3	5.63	2.6	300	12.5	9.1	0.73	0.86	15.4	14.5	1.7
				400	20.2	0.99	16.8	116.8	5.97	2.9	400	13.2	9.7	0.73	0.87	16.2	15.2	1.4
100	2.0	0.7	1.5	Operation not recommended							Operation not recommended							
	3.0	1.5	3.5								300	11.7	8.5	0.73	1.01	15.2	11.6	2.0
											400	12.1	9.5	0.78	1.03	15.6	11.8	2.2
	4.0	2.4	5.6								300	11.9	8.5	0.72	0.99	15.3	11.9	1.8
											400	12.3	9.4	0.77	1.01	15.7	12.1	2.1
110	2.0	0.6	1.5								Operation not recommended							
	3.0	1.5	3.4								300	10.9	8.4	0.77	1.16	14.8	9.4	2.7
											400	11.2	9.3	0.83	1.17	15.2	9.6	3.0
	4.0	2.3	5.4								300	11.0	8.2	0.75	1.14	14.9	9.7	2.4
											400	11.3	9.1	0.81	1.15	15.2	9.8	2.8
120	2.0	0.6	1.4								Operation not recommended							
	3.0	1.4	3.3								300	9.9	8.2	0.83	1.32	14.4	7.5	3.3
											400	10.1	8.9	0.88	1.36	14.7	7.4	3.8
	4.0	2.2	5.2								300	10.0	8.2	0.82	1.28	14.4	7.8	2.9
											400	10.2	8.9	0.87	1.32	14.7	7.7	3.3

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Performance Data

024 - Dual Capacity with Variable Speed ECM High Speed (900 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	4.0	1.4	3.2	Operation not recommended							Operation not recommended							
	6.0	3.3	7.6															
	8.0	5.3	12.2	700	16.5	1.46	11.6	91.9	3.32	2.1								
				900	16.8	1.45	11.9	87.3	3.40	2.0								
30	4.0	1.4	3.2	Operation not recommended							Operation not recommended							
	6.0	3.2	7.4	700	18.0	1.47	13.0	93.8	3.59	2.3	700	24.5	15.6	0.64	0.91	27.6	26.8	-
				900	18.5	1.51	13.4	89.1	3.58	2.1	900	24.9	17.0	0.68	0.96	28.2	25.9	-
	8.0	5.1	11.8	700	18.6	1.54	13.3	94.6	3.54	2.3	700	24.6	15.6	0.63	0.89	27.6	27.8	-
				900	18.9	1.53	13.7	89.4	3.62	2.2	900	25.2	17.0	0.67	0.93	28.4	27.1	-
40	4.0	1.3	3.1	Operation not recommended							Operation not recommended							
	6.0	3.1	7.1	700	20.0	1.52	14.8	96.4	3.85	2.5	700	24.9	16.2	0.65	1.02	28.4	24.5	-
				900	20.6	1.55	15.3	91.2	3.89	2.3	900	25.4	17.7	0.70	1.07	29.1	23.8	-
	8.0	5.0	11.5	700	20.4	1.53	15.1	96.9	3.89	2.6	700	25.1	16.2	0.65	0.99	28.5	25.4	-
				900	21.0	1.57	15.7	91.6	3.93	2.4	900	25.7	17.7	0.69	1.04	29.2	24.8	-
50	4.0	1.3	3.0	700	21.1	1.53	15.9	98.0	4.05	2.7	700	24.1	15.3	0.64	1.18	28.2	20.4	1.3
				900	21.8	1.55	16.5	92.4	4.11	2.5	900	25.4	17.1	0.67	1.24	29.6	20.4	1.4
	6.0	3.0	6.9	700	21.9	1.56	16.6	99.0	4.10	2.8	700	24.6	15.5	0.63	1.11	28.4	22.1	1.3
				900	22.6	1.59	17.2	93.3	4.18	2.6	900	25.9	17.2	0.67	1.17	29.9	22.2	1.4
	8.0	4.8	11.1	700	22.4	1.58	17.0	99.6	4.16	2.9	700	24.9	16.6	0.67	1.09	28.6	22.9	1.2
				900	23.1	1.60	17.6	93.8	4.23	2.7	900	26.2	18.4	0.70	1.14	30.1	23.0	1.3
60	4.0	1.2	2.9	700	23.0	1.57	17.7	100.4	4.29	3.1	700	23.7	15.4	0.65	1.30	28.1	18.2	1.6
				900	23.8	1.58	18.4	94.4	4.40	2.9	900	24.8	17.1	0.69	1.36	29.4	18.3	1.7
	6.0	2.9	6.7	700	24.1	1.62	18.5	101.8	4.36	3.2	700	24.2	15.6	0.64	1.24	28.4	19.6	1.5
				900	24.8	1.63	19.3	95.5	4.48	2.9	900	25.4	17.3	0.68	1.29	29.7	19.7	1.6
	8.0	4.7	10.8	700	24.6	1.63	19.1	102.6	4.42	3.3	700	24.4	16.4	0.67	1.21	28.6	20.3	1.4
				900	25.5	1.64	19.9	96.2	4.55	3.0	900	25.7	18.2	0.71	1.26	29.9	20.4	1.6
70	4.0	1.2	2.8	700	24.9	1.61	19.4	103.0	4.53	3.5	700	23.2	15.4	0.67	1.37	27.9	18.5	2.0
				900	23.5	1.62	18.0	94.2	4.25	3.2	900	24.8	17.9	0.72	1.48	29.6	16.8	2.1
	6.0	2.8	6.5	700	26.2	1.67	20.5	104.7	4.61	3.6	700	23.8	15.6	0.66	1.36	28.4	17.5	1.9
				900	27.1	1.67	21.4	97.8	4.76	3.3	900	24.8	17.3	0.70	1.41	29.7	17.6	2.0
	8.0	4.5	10.4	700	26.9	1.69	21.1	105.6	4.67	3.7	700	24.0	16.3	0.68	1.33	28.5	18.1	1.7
				900	27.8	1.68	22.1	98.6	4.85	3.4	900	25.1	18.0	0.72	1.38	29.8	18.2	1.9
80	4.0	1.2	2.7	700	26.6	1.66	20.9	105.2	4.69	3.9	700	22.2	15.2	0.68	1.59	27.6	13.9	2.5
				900	27.5	1.65	21.9	98.3	4.89	3.6	900	23.1	16.9	0.73	1.64	28.7	14.1	2.7
	6.0	2.7	6.3	700	28.1	1.73	22.2	107.2	4.77	4.0	700	22.8	15.4	0.67	1.54	28.0	14.8	2.3
				900	29.1	1.71	23.3	99.9	4.98	3.7	900	23.7	17.0	0.72	1.58	29.1	15.0	2.5
	8.0	4.3	10.0	700	29.0	1.75	23.0	108.3	4.85	4.1	700	23.1	15.7	0.68	1.50	28.2	15.3	2.2
				900	30.0	1.73	24.1	100.8	5.09	3.8	900	24.0	17.5	0.73	1.55	29.3	15.5	2.4
90	4.0	1.1	2.6	700	28.3	1.71	22.5	107.4	4.85	4.3	700	21.2	14.9	0.70	1.76	27.2	12.0	3.1
				900	29.3	1.69	23.6	100.2	5.09	4.0	900	22.0	16.6	0.76	1.81	28.1	12.2	3.3
	6.0	2.6	6.0	700	30.1	1.79	24.0	109.8	4.93	4.5	700	21.8	15.1	0.69	1.71	27.7	12.7	2.9
				900	31.2	1.76	25.2	102.0	5.20	4.1	900	22.6	16.8	0.74	1.76	28.6	12.9	3.2
	8.0	4.2	9.7	700	31.0	1.82	24.8	111.0	5.01	4.6	700	22.0	15.3	0.70	1.62	27.5	13.6	2.7
				900	32.1	1.77	26.1	103.0	5.32	4.3	900	22.9	16.9	0.74	1.72	28.8	13.3	3.0
100	4.0	1.1	2.5	Operation not recommended							Operation not recommended							
	6.0	2.5	5.8								700	20.6	14.6	0.71	1.94	27.2	10.6	3.6
											900	21.3	16.2	0.76	1.97	28.0	10.8	3.9
	8.0	4.0	9.3								700	20.8	14.6	0.70	1.91	27.3	10.9	3.3
											900	21.5	16.2	0.75	1.94	28.1	11.1	3.7
110	4.0	1.0	2.4								Operation not recommended							
	6.0	2.4	5.6								700	19.4	14.1	0.73	2.18	26.8	8.9	4.4
											900	19.9	15.7	0.79	2.19	27.4	9.1	4.7
	8.0	3.9	9.0								700	19.6	14.0	0.71	2.14	26.9	9.2	4.1
											900	20.1	15.4	0.77	2.16	27.5	9.3	4.5
120	4.0	1.0	2.3								Operation not recommended							
	6.0	2.3	5.4								700	18.1	13.5	0.75	2.43	26.5	7.5	5.3
											900	18.5	14.7	0.80	2.50	27.0	7.4	5.7
	8.0	3.7	8.6								700	18.3	13.5	0.74	2.36	26.3	7.8	4.9
											900	18.7	14.7	0.79	2.43	27.0	7.7	5.4

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Performance Data cont.

024 - Dual Capacity with Variable Speed ECM Low Speed (700 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	3.0	0.9	2.0	Operation not recommended							Operation not recommended							
	5.0	2.5	5.7															
	7.0	4.1	9.5	500	11.2	1.07	7.6	90.8	3.09	1.8								
				700	11.5	1.05	7.9	85.2	3.21	1.6								
30	3.0	0.8	1.9	Operation not recommended							Operation not recommended							
	5.0	2.4	5.5	500	13.0	1.11	9.2	94.0	3.41	1.8	500	18.5	11.9	0.64	0.53	20.3	34.8	-
				700	13.3	1.15	9.4	87.6	3.40	1.6	700	18.8	13.0	0.69	0.56	20.7	33.6	-
	7.0	4.0	9.2	500	13.3	1.18	9.3	94.6	3.30	1.8	500	18.5	11.9	0.64	0.51	20.3	36.1	-
				700	13.6	1.16	9.6	88.0	3.44	1.6	700	19.0	13.0	0.68	0.54	20.8	35.2	-
40	3.0	0.8	1.9	Operation not recommended							Operation not recommended							
	5.0	2.3	5.3	500	14.4	1.13	10.6	96.7	3.75	1.8	500	18.6	12.2	0.66	0.62	20.7	30.2	-
				700	14.8	1.15	10.9	89.6	3.78	1.7	700	18.9	13.4	0.71	0.65	21.1	29.3	-
	7.0	3.9	8.9	500	14.7	1.14	10.8	97.2	3.79	1.9	500	18.7	12.2	0.65	0.60	20.8	31.3	-
				700	15.2	1.16	11.2	90.0	3.83	1.7	700	19.2	13.4	0.70	0.63	21.3	30.6	-
50	3.0	0.8	1.8	500	15.3	1.11	11.5	98.3	4.04	1.9	500	17.8	11.4	0.64	0.74	20.3	24.2	0.7
				700	15.7	1.12	11.9	90.8	4.10	1.7	700	18.7	12.7	0.68	0.77	21.3	24.2	0.8
	5.0	2.2	5.2	500	15.8	1.13	12.0	99.3	4.09	1.9	500	18.2	11.6	0.64	0.69	20.5	26.2	0.7
				700	16.3	1.15	12.4	91.6	4.17	1.8	700	19.1	12.8	0.67	0.73	21.6	26.3	0.7
	7.0	3.7	8.6	500	16.2	1.14	12.3	100.0	4.15	2.0	500	18.3	12.3	0.67	0.68	20.6	27.1	0.6
				700	16.7	1.16	12.7	92.1	4.22	1.8	700	19.3	13.7	0.71	0.71	21.7	27.2	0.7
60	3.0	0.8	1.8	500	16.6	1.12	12.8	100.8	4.37	2.1	500	17.2	11.4	0.66	0.85	20.1	20.2	1.0
				700	17.2	1.12	13.3	92.7	4.48	1.9	700	18.1	12.7	0.70	0.89	21.1	20.3	1.0
	5.0	2.2	5.0	500	17.4	1.15	13.5	102.2	4.44	2.0	500	17.7	11.5	0.65	0.81	20.4	21.8	0.9
				700	18.0	1.16	14.0	93.7	4.55	2.2	700	18.5	12.8	0.69	0.84	21.4	21.9	1.0
	7.0	3.6	8.4	500	17.8	1.16	13.9	103.0	4.50	2.0	500	17.8	12.2	0.68	0.79	20.5	22.6	0.8
				700	18.4	1.17	14.4	94.3	4.63	2.3	700	18.7	13.5	0.72	0.83	21.5	22.7	0.9
70	3.0	0.7	1.7	500	18.0	1.12	14.2	103.4	4.70	2.1	500	16.7	11.4	0.68	0.97	20.0	17.3	1.3
				700	20.2	1.70	15.4	109.9	5.21	2.4	700	18.0	13.2	0.73	1.05	21.2	17.1	1.4
	5.0	2.1	4.9	500	19.0	1.16	15.0	105.1	4.79	2.2	500	17.1	11.5	0.67	0.93	20.3	18.5	1.3
				700	19.6	1.16	15.6	95.9	4.94	2.4	700	17.9	12.8	0.72	0.96	21.3	18.7	1.2
	7.0	3.5	8.1	500	19.0	1.16	15.0	105.2	4.80	2.2	500	17.3	12.0	0.69	0.90	20.4	19.2	1.3
				700	20.1	1.17	16.1	96.6	5.04	2.6	700	18.1	13.3	0.73	0.94	21.6	19.3	1.8
80	3.0	0.7	1.7	500	19.3	1.13	15.5	105.8	5.00	2.4	500	16.0	11.4	0.71	1.11	19.8	14.3	1.9
				700	20.0	1.12	16.2	96.5	5.22	2.6	700	16.6	12.6	0.76	1.15	20.5	14.4	1.7
	5.0	2.0	4.7	500	20.4	1.18	16.4	107.9	5.09	2.4	500	16.4	11.5	0.70	1.08	20.1	15.2	1.9
				700	21.1	1.17	17.2	98.0	5.31	2.7	700	17.1	12.7	0.75	1.11	20.8	15.4	1.6
	7.0	3.4	7.8	500	21.0	1.19	17.0	108.9	5.17	2.6	500	16.6	11.8	0.71	1.05	20.2	15.7	1.8
				700	21.8	1.18	17.7	98.8	5.43	2.5	700	17.3	13.1	0.76	1.09	21.0	15.9	2.4
90	3.0	0.7	1.6	500	20.6	1.14	16.7	108.2	5.30	2.9	500	15.2	11.3	0.74	1.26	19.5	12.0	2.6
				700	21.4	1.12	17.5	98.3	5.57	2.7	700	15.7	12.6	0.80	1.29	20.1	12.2	2.3
	5.0	2.0	4.5	500	21.9	1.19	17.9	110.6	5.39	3.0	500	15.6	11.5	0.73	1.22	19.8	12.8	2.5
				700	22.7	1.17	18.7	100.0	5.68	2.8	700	16.2	12.7	0.78	1.26	20.5	12.9	2.1
	7.0	3.3	7.5	500	22.6	1.21	18.5	111.9	5.48	3.1	500	15.6	11.0	0.71	1.18	19.6	13.2	2.4
				700	23.4	1.18	19.4	101.0	5.81	2.8	700	16.4	12.8	0.78	1.23	20.6	13.3	3.1
100	3.0	0.7	1.5	Operation not recommended							Operation not recommended							
	5.0	1.9	4.4								500	14.9	11.1	0.75	1.41	19.7	10.5	3.0
											700	15.3	12.3	0.80	1.43	20.2	10.7	3.2
	7.0	3.1	7.3								500	15.0	11.1	0.74	1.39	19.7	10.8	2.8
											700	15.5	12.3	0.79	1.41	20.3	11.0	3.1
110	3.0	0.6	1.5								Operation not recommended							
	5.0	1.8	4.2								500	14.1	10.7	0.76	1.60	19.5	8.8	3.8
											700	14.5	11.9	0.83	1.61	20.0	9.0	4.1
	7.0	3.0	7.0								500	14.2	10.6	0.75	1.57	19.6	9.0	3.5
											700	14.6	11.7	0.80	1.59	20.1	9.2	3.9
120	3.0	0.6	1.4								Operation not recommended							
	5.0	1.7	4.0								500	12.7	10.0	0.79	1.80	18.9	7.0	4.7
											700	12.9	10.9	0.84	1.85	19.3	7.0	5.1
	7.0	2.9	6.7								500	12.8	10.0	0.78	1.75	18.8	7.4	4.3
											700	13.1	10.9	0.83	1.80	19.2	7.3	4.8

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Performance Data cont.

030 - Dual Capacity with Variable Speed ECM High Speed (900 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	6.0	2.7	6.2	Operation not recommended							Operation not recommended							
	7.0	3.5	8.1															
	8.0	4.3	10.0	850	20.6	1.92	14.1	92.5	3.15	2.2								
				1000	21.3	1.90	14.8	89.7	3.29	2.0								
30	6.0	2.6	6.0	Operation not recommended							Operation not recommended							
	7.0	3.4	7.9	850	23.9	1.88	17.5	96.1	3.72	2.4	850	34.4	23.2	0.67	1.07	38.0	32.1	-
				1000	24.6	1.94	18.0	92.8	3.72	2.2	1000	34.9	25.3	0.72	1.13	38.8	31.0	-
	8.0	4.2	9.7	850	24.3	1.98	17.5	96.5	3.60	2.4	850	34.6	23.2	0.67	1.04	38.1	33.3	-
				1000	25.1	1.96	18.4	93.2	3.75	2.2	1000	35.4	25.3	0.71	1.09	39.1	32.5	-
40	6.0	2.5	5.9	Operation not recommended							Operation not recommended							
	7.0	3.3	7.6	850	27.3	1.97	20.6	99.8	4.06	2.6	850	35.3	23.6	0.67	1.19	39.4	29.6	-
				1000	28.2	2.02	21.3	96.1	4.09	2.4	1000	36.0	25.8	0.72	1.25	40.3	28.8	-
	8.0	4.1	9.4	850	27.9	1.99	21.1	100.4	4.10	2.7	850	35.6	23.6	0.66	1.16	39.6	30.8	-
				1000	28.8	2.04	21.8	96.6	4.14	2.5	1000	36.4	25.8	0.71	1.21	40.5	30.1	-
50	6.0	2.5	5.7	850	29.6	2.02	22.8	102.3	4.31	2.8	850	34.4	21.8	0.63	1.38	39.1	25.0	1.4
				1000	30.5	2.05	23.6	98.3	4.37	2.6	1000	36.2	24.3	0.67	1.45	41.2	25.0	1.5
	7.0	3.2	7.4	850	30.7	2.06	23.7	103.5	4.36	2.9	850	35.2	22.1	0.63	1.30	39.6	27.1	1.3
				1000	31.7	2.09	24.6	99.4	4.44	2.7	1000	37.0	24.5	0.66	1.36	41.6	27.2	1.4
	8.0	4.0	9.1	850	31.4	2.08	24.3	104.2	4.42	3.0	850	35.5	23.6	0.66	1.27	39.8	28.0	1.2
				1000	32.4	2.11	25.2	100.0	4.50	2.8	1000	37.4	26.2	0.70	1.33	41.9	28.1	1.4
60	6.0	2.4	5.5	850	33.2	2.11	26.0	106.2	4.62	3.2	850	33.1	21.6	0.65	1.53	38.4	21.7	1.7
				1000	34.3	2.12	27.1	101.8	4.74	3.0	1000	34.8	24.1	0.69	1.60	40.2	21.8	1.8
	7.0	3.1	7.2	850	34.7	2.17	27.3	107.8	4.70	3.3	850	33.9	21.9	0.65	1.45	38.9	23.4	1.6
				1000	35.9	2.18	28.4	103.2	4.82	3.0	1000	35.5	24.3	0.68	1.51	40.7	23.5	1.7
	8.0	3.8	8.8	850	35.6	2.19	28.1	108.8	4.76	3.4	850	34.3	23.1	0.67	1.42	39.1	24.2	1.5
				1000	36.8	2.20	29.2	104.0	4.90	3.1	1000	36.0	25.6	0.71	1.48	41.0	24.3	1.6
70	6.0	2.3	5.3	850	36.9	2.20	29.4	110.1	4.91	3.6	850	31.9	21.4	0.67	1.68	37.6	18.5	2.1
				1000	40.5	2.26	32.3	107.5	5.25	3.3	1000	37.4	24.8	0.66	1.67	39.8	22.4	2.2
	7.0	3.0	6.9	850	38.8	2.27	31.0	112.2	5.00	3.7	850	32.7	21.7	0.66	1.61	38.2	20.4	2.0
				1000	40.0	2.27	32.8	107.1	5.16	3.4	1000	34.1	24.0	0.71	1.66	40.1	20.5	2.1
	8.0	3.7	8.6	850	39.7	2.30	31.9	113.3	5.07	3.8	850	33.0	22.6	0.68	1.57	38.4	21.1	1.8
				1000	41.1	2.29	33.3	108.1	5.26	3.5	1000	34.5	25.0	0.72	1.63	43.1	21.2	2.0
80	6.0	2.2	5.1	850	41.1	2.33	33.1	114.7	5.16	4.0	850	30.5	21.2	0.69	1.86	36.9	16.4	2.6
				1000	42.5	2.31	34.6	109.3	5.38	3.7	1000	31.7	23.6	0.74	1.92	38.3	16.5	2.8
	7.0	2.9	6.7	850	43.4	2.42	35.1	117.3	5.25	4.1	850	31.4	21.4	0.68	1.80	37.5	17.4	2.5
				1000	44.9	2.40	36.7	111.6	5.48	3.8	1000	32.6	23.8	0.73	1.85	38.9	17.6	2.7
	8.0	3.6	8.3	850	44.7	2.46	36.3	118.7	5.33	4.3	850	31.7	22.0	0.69	1.76	37.7	18.0	2.3
				1000	46.2	2.42	37.9	112.8	5.60	3.9	1000	33.0	24.4	0.74	1.82	39.2	18.2	2.5
90	6.0	2.1	5.0	850	45.2	2.47	36.8	119.3	5.37	4.5	850	29.2	20.9	0.72	2.05	36.2	14.2	3.3
				1000	46.8	2.43	38.6	113.4	5.65	4.2	1000	30.2	23.3	0.77	2.10	37.4	14.4	3.5
	7.0	2.8	6.5	850	48.1	2.58	39.3	122.4	5.47	4.6	850	30.0	21.2	0.71	1.99	36.8	15.1	3.1
				1000	49.8	2.53	41.1	116.1	5.76	4.3	1000	31.2	23.5	0.75	2.04	38.1	15.3	3.3
	8.0	3.4	8.0	850	49.6	2.61	40.7	124.0	5.56	4.8	850	30.9	21.9	0.71	1.95	37.6	15.8	2.8
				1000	51.3	2.55	42.6	117.5	5.90	4.4	1000	31.5	23.7	0.75	2.00	38.3	15.8	3.2
100	6.0	2.1	4.8	Operation not recommended							Operation not recommended							
	7.0	2.7	6.2								850	28.7	20.8	0.72	2.25	36.4	12.8	3.8
											1000	29.7	23.1	0.78	2.28	37.5	13.0	4.1
	8.0	3.3	7.7								850	29.1	20.8	0.72	2.21	36.6	13.1	3.5
											1000	30.0	23.0	0.77	2.25	37.7	13.4	3.9
110	6.0	2.0	4.6								Operation not recommended							
	7.0	2.6	6.0								850	27.5	20.5	0.75	2.51	36.0	11.0	4.6
											1000	28.2	22.8	0.81	2.53	36.8	11.2	5.0
	8.0	3.2	7.4								850	27.7	20.2	0.73	2.46	36.2	11.3	4.3
											1000	28.5	22.3	0.78	2.49	37.0	11.4	4.7
120	6.0	1.9	4.4								Operation not recommended							
	7.0	2.5	5.8								850	27.0	20.4	0.75	2.80	36.5	9.7	5.5
											1000	27.5	22.1	0.80	2.87	37.3	9.6	6.0
	8.0	3.1	7.1								850	27.2	20.4	0.75	2.70	36.4	10.1	5.1
											1000	27.8	22.1	0.79	2.79	37.3	10.0	5.5

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Performance Data cont.

030 - Dual Capacity with Variable Speed ECM Low Speed (900 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	5.0	2.0	4.6	Operation not recommended							Operation not recommended							
	6.0	2.8	6.5															
	7.0	3.5	8.0	600	14.2	1.49	9.2	92.0	2.80	1.9								
				800	14.5	1.42	9.7	86.8	2.99	1.7								
30	5.0	1.9	4.5	Operation not recommended							Operation not recommended							
	6.0	2.7	6.3	600	16.0	1.39	11.3	94.7	3.37	2.1	600	24.5	17.0	0.70	0.58	26.5	42.2	-
				800	16.5	1.44	11.6	89.1	3.36	1.9	800	24.9	18.6	0.75	0.61	27.0	40.7	-
	7.0	3.4	7.8	600	16.5	1.52	11.3	95.5	3.18	2.1	600	24.6	17.0	0.69	0.56	26.5	43.8	-
				800	16.8	1.45	11.9	89.4	3.40	1.9	800	25.2	18.6	0.74	0.59	27.2	42.7	-
40	5.0	1.9	4.3	Operation not recommended							Operation not recommended							
	6.0	2.6	6.1	600	19.0	1.42	14.2	99.3	3.92	2.3	600	26.0	17.7	0.68	0.66	28.2	39.3	-
				800	19.6	1.45	14.6	92.7	3.96	2.1	800	26.4	19.3	0.73	0.69	28.8	38.2	-
	7.0	3.3	7.5	600	19.4	1.43	14.5	99.9	3.96	2.4	600	26.2	17.7	0.68	0.64	28.4	40.8	-
				800	20.0	1.47	15.0	93.1	4.00	2.2	800	26.8	19.3	0.72	0.67	29.0	39.9	-
50	5.0	1.8	4.2	600	21.2	1.42	16.4	102.8	4.40	2.5	600	26.1	16.7	0.64	0.78	28.7	33.5	1.1
				800	21.9	1.43	17.0	95.3	4.47	2.3	800	27.4	18.5	0.68	0.82	30.2	33.6	1.2
	6.0	2.6	5.9	600	22.0	1.45	17.1	104.0	4.45	2.6	600	26.6	16.9	0.63	0.73	29.1	36.4	1.0
				800	22.7	1.47	17.7	96.3	4.54	2.4	800	28.0	18.7	0.67	0.77	30.6	36.4	1.1
	7.0	3.2	7.3	600	22.5	1.46	17.5	104.7	4.51	2.7	600	26.9	18.0	0.67	0.71	29.3	37.6	0.9
				800	23.2	1.48	18.2	96.9	4.59	2.5	800	28.3	20.0	0.71	0.75	30.9	37.7	1.1
60	5.0	1.8	4.1	600	23.0	1.44	18.1	105.4	4.68	2.9	600	24.9	16.5	0.66	0.91	28.1	27.3	1.4
				800	23.7	1.45	18.8	97.4	4.80	2.7	800	26.2	18.4	0.70	0.95	29.4	27.4	1.5
	6.0	2.5	5.7	600	24.0	1.48	19.0	107.0	4.76	3.0	600	25.5	16.7	0.66	0.87	28.5	29.4	1.3
				800	24.8	1.49	19.7	98.7	4.88	2.7	800	26.7	18.6	0.69	0.90	29.8	29.6	1.4
	7.0	3.1	7.1	600	24.6	1.49	19.5	107.9	4.82	3.1	600	25.8	17.6	0.68	0.85	28.7	30.4	1.2
				800	25.4	1.50	20.3	99.4	4.96	2.8	800	27.1	19.6	0.72	0.89	30.1	30.6	1.3
70	5.0	1.7	3.9	600	24.7	1.46	19.8	108.2	4.97	3.3	600	23.8	16.4	0.69	1.05	27.4	22.7	1.8
				800	27.5	1.52	21.7	101.8	5.30	3.0	800	25.7	19.0	0.74	1.06	29.0	24.2	1.9
	6.0	2.4	5.5	600	26.0	1.51	20.9	110.2	5.06	3.4	600	24.4	16.6	0.68	1.01	27.9	24.3	1.7
				800	26.9	1.51	22.3	101.1	5.22	3.1	800	25.5	18.4	0.72	1.04	29.2	24.5	1.8
	7.0	3.0	6.8	600	26.7	1.53	21.5	111.2	5.13	3.5	600	24.7	17.2	0.70	0.98	28.0	25.2	1.5
				800	27.6	1.52	22.4	101.9	5.32	3.2	800	25.8	19.1	0.74	1.02	29.3	25.3	1.7
80	5.0	1.6	3.8	600	28.0	1.49	23.0	113.3	5.52	3.7	600	22.8	16.1	0.71	1.23	27.0	18.5	2.3
				800	29.0	1.48	24.0	103.6	5.76	3.4	800	23.7	17.9	0.76	1.27	28.0	18.7	2.5
	6.0	2.3	5.4	600	29.6	1.55	24.4	115.8	5.61	3.8	600	23.4	16.3	0.70	1.19	27.5	19.7	2.2
				800	30.7	1.53	25.4	105.5	5.86	3.5	800	24.4	18.1	0.74	1.22	28.5	19.9	2.4
	7.0	2.9	6.6	600	30.5	1.57	25.2	117.1	5.70	4.0	600	23.7	16.7	0.71	1.16	27.6	20.3	2.0
				800	31.6	1.55	26.3	106.5	5.98	3.6	800	24.7	18.5	0.75	1.20	28.7	20.5	2.2
90	5.0	1.6	3.7	600	31.3	1.52	26.1	118.3	6.04	4.2	600	21.8	15.8	0.73	1.41	26.6	15.4	3.0
				800	32.4	1.50	27.3	107.5	6.35	3.9	800	22.5	17.6	0.78	1.45	27.5	15.6	3.2
	6.0	2.2	5.2	600	33.3	1.59	27.9	121.3	6.14	4.3	600	22.4	16.0	0.71	1.37	27.1	16.3	2.8
				800	34.5	1.56	29.1	109.9	6.48	4.0	800	23.2	17.8	0.76	1.41	28.1	16.5	3.0
	7.0	2.8	6.4	600	34.3	1.61	28.8	123.0	6.25	4.5	600	22.2	15.4	0.69	1.34	26.8	16.6	2.5
				800	35.5	1.57	30.1	111.1	6.63	4.1	800	23.5	17.9	0.76	1.38	28.2	17.0	2.9
100	5.0	1.5	3.5	Operation not recommended							Operation not recommended							
	6.0	2.2	5.0								600	20.9	15.4	0.74	1.60	26.4	13.1	3.5
											800	21.6	17.1	0.79	1.63	27.2	13.3	3.8
	7.0	2.7	6.1								600	21.2	15.4	0.73	1.58	26.5	13.4	3.2
											800	21.9	17.0	0.78	1.60	27.3	13.7	3.6
110	5.0	1.5	3.4								Operation not recommended							
	6.0	2.1	4.8								600	19.5	14.8	0.76	1.83	25.7	10.6	4.3
											800	20.0	16.4	0.82	1.85	26.3	10.8	4.7
	7.0	2.6	5.9								600	19.7	14.6	0.74	1.80	25.8	10.9	4.0
											800	20.2	16.1	0.80	1.82	26.4	11.1	4.4
120	5.0	1.4	3.3								Operation not recommended							
	6.0	2.0	4.6								600	18.2	14.3	0.78	2.01	25.1	9.1	5.2
											800	18.6	15.5	0.83	2.07	25.6	9.0	5.7
	7.0	2.5	5.7								600	18.4	14.3	0.78	1.95	25.1	9.4	4.8
											800	18.8	15.5	0.82	2.01	25.7	9.4	5.4

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Performance Data cont.

036 - Dual Capacity with Variable Speed ECM High Speed (1250 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	5.0	1.3	3.0	Operation not recommended							Operation not recommended							
	7.0	2.8	6.5															
	9.0	4.0	9.2	1050	24.8	2.15	17.5	91.9	3.38	2.8								
				1250	25.4	2.14	18.1	88.8	3.48	2.5								
30	5.0	1.2	2.9	Operation not recommended							Operation not recommended							
	7.0	2.7	6.3	1050	28.1	2.12	20.9	94.8	3.88	2.9	1050	32.5	22.4	0.69	1.09	36.3	29.8	-
				1250	28.9	2.19	21.5	91.4	3.87	2.7	1250	33.1	24.5	0.74	1.15	37.0	28.8	-
	9.0	3.9	8.9	1050	28.8	2.22	21.2	95.4	3.80	3.0	1050	32.7	22.4	0.69	1.06	36.3	30.9	-
				1250	29.5	2.21	22.0	91.9	3.91	2.8	1250	33.5	24.5	0.73	1.11	37.3	30.2	-
40	5.0	1.2	2.8	Operation not recommended							Operation not recommended							
	7.0	2.6	6.1	1050	31.5	2.20	24.0	97.8	4.20	3.4	1050	38.0	25.9	0.68	1.35	42.5	28.2	-
				1250	32.5	2.24	24.8	94.1	4.24	3.1	1250	38.7	28.3	0.73	1.41	43.5	27.4	-
	9.0	3.7	8.7	1050	32.1	2.22	24.6	98.3	4.25	3.5	1050	38.2	25.9	0.68	1.31	42.7	29.3	-
				1250	33.2	2.27	25.4	94.6	4.29	3.1	1250	39.1	28.3	0.72	1.37	43.8	28.6	-
50	5.0	1.2	2.7	1050	33.7	2.22	26.1	99.7	4.45	3.6	1050	41.2	26.7	0.65	1.68	46.9	24.5	1.7
				1250	34.7	2.25	27.0	95.7	4.52	3.3	1250	43.3	29.7	0.68	1.77	49.3	24.5	1.8
	7.0	2.6	5.9	1050	34.9	2.27	27.2	100.8	4.51	3.7	1050	42.0	27.0	0.64	1.58	47.4	26.6	1.6
				1250	36.0	2.30	28.2	96.7	4.59	3.4	1250	44.2	30.0	0.68	1.66	49.9	26.7	1.8
	9.0	3.6	8.4	1050	35.7	2.29	27.9	101.5	4.57	3.8	1050	42.4	28.8	0.68	1.54	47.7	27.5	1.5
				1250	36.8	2.32	28.9	97.3	4.65	3.5	1250	44.7	32.0	0.72	1.62	50.2	27.6	1.7
60	5.0	1.1	2.6	1050	37.3	2.29	29.4	102.9	4.77	4.1	1050	39.1	26.3	0.67	1.87	45.5	20.9	2.1
				1250	38.5	2.31	30.6	98.5	4.89	3.8	1250	41.0	29.2	0.71	1.96	47.7	21.0	2.2
	7.0	2.5	5.7	1050	38.9	2.36	30.9	104.3	4.85	4.2	1050	40.1	26.6	0.66	1.78	46.1	22.5	2.0
				1250	40.2	2.37	32.1	99.8	4.97	3.9	1250	42.0	29.5	0.70	1.85	48.3	22.6	2.1
	9.0	3.5	8.1	1050	39.9	2.38	31.8	105.2	4.91	4.3	1050	40.5	28.0	0.69	1.74	46.4	23.3	1.8
				1250	41.2	2.39	33.0	100.5	5.05	4.0	1250	42.5	31.1	0.73	1.82	48.6	23.4	2.0
70	5.0	1.1	2.5	1050	40.9	2.36	32.8	106.1	5.07	4.7	1050	37.1	25.9	0.70	2.07	44.2	18.5	2.6
				1250	42.8	2.42	34.5	101.7	5.18	4.3	1250	39.1	29.7	2.12	2.17	46.5	18.0	2.8
	7.0	2.4	5.5	1050	43.0	2.44	34.7	107.9	5.16	4.8	1050	38.1	26.2	0.69	1.98	44.8	19.2	2.4
				1250	44.4	2.44	36.1	102.9	5.33	4.4	1250	39.7	29.0	0.73	2.05	46.7	19.4	2.6
	9.0	3.4	7.9	1050	44.1	2.47	35.7	108.9	5.23	5.0	1050	38.5	27.3	0.71	1.93	45.1	19.9	2.3
				1250	45.6	2.46	37.2	103.8	5.43	5.6	1250	40.2	30.2	0.75	2.01	47.1	20.0	2.5
80	5.0	1.1	2.5	1050	44.8	2.46	36.4	109.5	5.34	5.2	1050	35.6	25.7	0.72	2.29	43.4	15.6	3.2
				1250	46.4	2.44	38.0	104.3	5.57	4.8	1250	37.1	28.5	0.77	2.36	45.1	15.7	3.4
	7.0	2.3	5.4	1050	47.4	2.55	38.6	111.8	5.43	5.3	1050	36.6	26.0	0.71	2.20	44.2	16.6	3.0
				1250	49.0	2.53	40.3	106.3	5.67	4.9	1250	38.1	28.8	0.76	2.27	45.9	16.8	3.3
	9.0	3.3	7.6	1050	48.7	2.59	39.9	113.0	5.52	5.5	1050	37.0	26.6	0.72	2.16	44.4	17.1	2.8
				1250	50.4	2.55	41.7	107.3	5.79	5.1	1250	38.6	29.5	0.77	2.23	46.1	17.3	3.1
90	5.0	1.0	2.4	1050	48.7	2.55	40.0	112.9	5.59	5.9	1050	34.2	25.4	0.74	2.50	42.7	13.7	4.0
				1250	50.4	2.52	41.8	107.3	5.87	5.4	1250	35.4	28.3	0.80	2.56	44.1	13.8	4.3
	7.0	2.2	5.2	1050	51.7	2.67	42.6	115.6	5.68	6.0	1050	35.2	25.8	0.73	2.43	43.5	14.5	3.7
				1250	53.6	2.62	44.6	109.7	5.99	5.6	1250	36.5	28.6	0.78	2.49	45.0	14.7	4.1
	9.0	3.2	7.3	1050	53.4	2.71	44.1	117.1	5.78	6.2	1050	35.8	26.4	0.74	2.38	43.9	15.0	3.5
				1250	55.2	2.64	46.2	110.9	6.13	5.8	1250	36.9	28.8	0.78	2.44	45.2	15.1	3.9
100	5.0	1.0	2.3	Operation not recommended							Operation not recommended							
	7.0	2.2	5.0								1050	33.4	25.4	0.76	2.72	42.7	12.3	4.6
											1250	34.5	28.2	0.82	2.76	44.0	12.5	5.0
	9.0	3.1	7.1								1050	33.8	25.4	0.75	2.67	42.9	12.6	4.4
											1250	34.9	28.1	0.80	2.72	44.2	12.9	4.8
110	5.0	1.0	2.2								Operation not recommended							
	7.0	2.1	4.8								1050	31.7	25.1	0.79	3.01	42.0	10.5	5.6
											1250	32.6	27.9	0.86	3.03	42.9	10.7	6.1
	9.0	2.9	6.8								1050	32.0	24.7	0.77	2.96	42.1	10.8	5.2
											1250	32.9	27.3	0.83	2.99	43.1	11.0	5.8
120	5.0	0.9	2.1								Operation not recommended							
	7.0	2.0	4.6								1050	29.6	24.5	0.83	3.35	41.0	8.8	6.8
											1250	30.1	26.6	0.88	3.43	41.9	8.8	7.4
	9.0	2.8	6.5								1050	29.9	24.5	0.82	3.24	40.9	9.2	6.3
											1250	30.5	26.6	0.87	3.34	41.9	9.1	7.0

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Performance Data cont.

036 - Dual Capacity with Variable Speed ECM Low Speed (1050 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	4.0	1.2	2.7	Operation not recommended							Operation not recommended							
	6.0	2.5	5.7															
	8.0	3.8	8.8	900	17.2	1.58	11.9	87.7	3.20	2.4								
				1050	17.5	1.60	12.0	85.4	3.21	2.2								
30	4.0	1.1	2.6	Operation not recommended							Operation not recommended							
	6.0	2.4	5.5	900	19.7	1.62	14.2	90.3	3.56	2.3	900	28.3	18.1	0.64	0.81	31.0	35.1	-
				1050	20.3	1.67	14.6	87.9	3.55	2.1	1050	28.7	19.8	0.69	0.85	31.6	33.9	-
	8.0	3.7	8.5	900	20.4	1.67	14.7	91.0	3.58	2.4	900	28.4	18.1	0.64	0.78	31.1	36.4	-
				1050	20.7	1.69	14.9	88.3	3.59	2.2	1050	29.1	19.8	0.68	0.82	31.9	35.5	-
40	4.0	1.1	2.5	Operation not recommended							Operation not recommended							
	6.0	2.3	5.3	900	22.6	1.94	15.9	93.2	3.40	2.5	900	30.0	20.4	0.68	0.89	33.1	33.7	-
				1050	23.3	1.99	16.5	90.5	3.43	2.3	1050	30.6	22.3	0.73	0.94	33.8	32.7	-
	8.0	3.6	8.3	900	23.0	1.96	16.3	93.7	3.44	2.6	900	30.3	20.4	0.67	0.87	33.2	35.0	-
				1050	23.8	2.01	16.9	90.9	3.47	2.4	1050	31.0	22.3	0.72	0.91	34.0	34.2	-
50	4.0	1.1	2.5	900	24.5	2.22	17.0	95.2	3.24	2.6	900	30.2	20.6	0.68	1.03	33.7	29.5	0.9
				1050	25.3	2.25	17.6	92.3	3.29	2.4	1050	31.8	22.9	0.72	1.08	35.5	29.5	1.0
	6.0	2.2	5.2	900	25.4	2.27	17.7	96.1	3.28	2.7	900	30.9	20.8	0.68	0.97	34.2	31.9	0.9
				1050	26.2	2.30	18.4	93.1	3.34	2.5	1050	32.4	23.1	0.71	1.01	35.9	32.0	1.0
	8.0	3.5	8.0	900	26.0	2.29	18.2	96.7	3.33	2.8	900	31.1	22.2	0.71	0.94	34.4	33.0	0.8
				1050	26.8	2.32	18.9	93.6	3.39	2.5	1050	32.8	24.7	0.75	0.99	36.2	33.1	0.9
60	4.0	1.0	2.4	900	26.8	1.88	20.4	97.6	4.17	2.9	900	28.9	20.5	0.71	1.19	33.0	24.3	1.3
				1050	27.7	1.90	21.2	94.4	4.28	2.6	1050	30.3	22.8	0.75	1.24	34.5	24.4	1.3
	6.0	2.2	5.0	900	28.0	1.94	21.4	98.8	4.24	3.0	900	29.6	20.7	0.70	1.13	33.4	26.2	1.2
				1050	28.9	1.95	22.3	95.5	4.35	2.7	1050	31.0	23.0	0.74	1.17	35.0	26.4	1.3
	8.0	3.4	7.7	900	28.7	1.96	22.0	99.5	4.30	3.0	900	29.9	21.9	0.73	1.10	33.6	27.2	1.1
				1050	29.7	1.97	22.9	96.1	4.42	2.8	1050	31.4	24.3	0.77	1.15	35.3	27.3	1.2
70	4.0	1.0	2.3	900	29.1	1.55	23.9	100.0	5.52	3.2	900	27.6	20.4	0.74	1.35	32.2	20.5	1.7
				1050	30.4	1.67	24.7	96.8	5.34	2.9	1050	29.0	23.4	0.81	1.46	34.0	19.9	1.8
	6.0	2.1	4.9	900	30.6	1.60	25.2	101.5	5.62	3.3	900	28.3	20.7	0.73	1.29	32.7	21.9	1.6
				1050	31.6	1.60	26.2	97.9	5.81	3.0	1050	29.5	22.9	0.77	1.34	34.1	22.1	1.8
	8.0	3.2	7.5	900	31.4	1.62	25.9	102.3	5.70	3.4	900	28.6	21.5	0.75	1.26	32.9	22.7	1.5
				1050	32.5	1.61	27.0	98.7	5.92	3.1	1050	29.9	23.8	0.80	1.31	34.4	22.8	1.7
80	4.0	1.0	2.2	900	32.1	1.60	26.7	103.0	5.88	3.6	900	26.2	20.1	0.77	1.56	31.5	16.8	2.4
				1050	33.2	1.59	27.8	99.3	6.14	3.3	1050	27.2	22.4	0.82	1.61	32.7	16.9	2.6
	6.0	2.0	4.7	900	34.0	1.66	28.3	105.0	5.99	3.7	900	26.9	20.4	0.76	1.51	32.0	17.9	2.3
				1050	35.1	1.65	29.5	101.0	6.25	3.4	1050	28.0	22.6	0.81	1.55	33.3	18.0	2.5
	8.0	3.1	7.2	900	35.0	1.69	29.2	106.0	6.08	3.8	900	27.2	20.9	0.77	1.48	32.2	18.4	2.1
				1050	36.2	1.66	30.5	101.9	6.38	3.5	1050	28.3	23.2	0.82	1.52	33.5	18.6	2.3
90	4.0	0.9	2.2	900	35.1	1.65	29.4	106.1	6.22	4.0	900	24.7	19.9	0.80	1.77	30.8	13.9	3.2
				1050	36.3	1.63	30.8	102.0	6.54	3.7	1050	25.6	22.1	0.86	1.82	31.8	14.1	3.4
	6.0	2.0	4.5	900	37.3	1.73	31.4	108.4	6.32	4.2	900	25.5	20.1	0.79	1.72	31.3	14.8	3.0
				1050	38.6	1.70	32.8	104.1	6.67	3.8	1050	26.4	22.3	0.85	1.77	32.4	15.0	3.3
	8.0	3.0	7.0	900	38.5	1.75	32.5	109.6	6.43	4.3	900	26.1	20.9	0.80	1.71	31.9	15.3	2.8
				1050	39.8	1.71	34.0	105.1	6.82	4.0	1050	26.7	22.5	0.84	1.73	32.6	15.4	3.1
100	4.0	0.9	2.1	Operation not recommended							Operation not recommended							
	6.0	1.9	4.4								900	24.0	19.6	0.82	1.98	30.8	12.1	4.1
											1050	24.8	21.8	0.88	2.01	31.7	12.3	4.5
	8.0	2.9	6.7								900	24.3	19.6	0.81	1.95	30.9	12.4	0.8
											1050	25.1	21.7	0.86	1.98	31.8	12.7	4.2
110	4.0	0.9	2.0								Operation not recommended							
	6.0	1.8	4.2								900	22.6	19.1	0.85	2.25	30.2	10.0	5.2
											1050	23.2	21.2	0.92	2.26	30.9	10.2	5.7
	8.0	2.8	6.5								900	22.8	18.8	0.83	2.21	30.3	10.3	4.8
											1050	23.4	20.8	0.89	2.23	31.0	10.5	5.4
120	4.0	0.8	1.9								Operation not recommended							
	6.0	1.7	4.0								900	21.3	18.6	0.88	2.55	29.9	8.4	6.5
											1050	21.6	20.2	0.93	2.61	30.6	8.3	7.0
	8.0	2.7	6.2								900	21.4	18.6	0.87	2.46	29.8	8.7	6.0
											1050	21.9	20.2	0.92	2.54	30.6	8.6	6.7

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Performance Data cont.

042 - Dual Capacity with Variable Speed ECM High Speed (1350 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	5.0	1.5	3.5	Operation not recommended							Operation not recommended							
	8.0	3.6	8.4															
	11.0	5.7	13.3	1100	29.3	2.38	21.2	94.7	3.61	4.1								
				1300	29.5	2.33	21.6	91.0	3.71	3.7								
30	5.0	1.5	3.4	Operation not recommended							Operation not recommended							
	8.0	3.5	8.1	1100	32.7	2.32	24.8	97.5	4.14	4.3	1100	39.5	27.5	0.70	1.41	44.4	28.0	-
				1300	33.6	2.39	25.5	93.9	4.13	3.9	1300	40.2	30.1	0.75	1.49	45.2	27.0	-
	11.0	5.6	12.9	1100	34.1	2.46	25.7	98.7	4.06	4.4	1100	39.7	27.5	0.69	1.37	44.4	29.0	-
				1300	34.3	2.41	26.1	94.4	4.17	4.0	1300	40.7	30.1	0.74	1.44	45.6	28.3	-
40	5.0	1.4	3.3	Operation not recommended							Operation not recommended							
	8.0	3.4	7.9	1100	37.1	2.43	28.8	101.2	4.47	4.7	1100	42.7	28.9	0.68	1.59	48.1	26.8	-
				1300	38.2	2.49	29.8	97.2	4.51	4.3	1300	43.5	31.6	0.73	1.67	49.1	26.0	-
	11.0	5.4	12.5	1100	37.8	2.46	29.5	101.9	4.51	4.9	1100	43.0	28.9	0.67	1.54	48.3	27.8	-
				1300	39.1	2.51	30.5	97.8	4.56	4.4	1300	44.0	31.6	0.72	1.62	49.5	27.2	-
50	5.0	1.4	3.2	1100	40.1	2.50	31.6	103.7	4.71	5.1	1100	43.5	27.5	0.63	1.85	49.8	23.4	2.5
				1300	41.3	2.53	32.6	99.4	4.78	4.7	1300	45.7	30.6	0.67	1.95	52.4	23.5	2.6
	8.0	3.3	7.7	1100	41.5	2.55	32.8	105.0	4.77	5.3	1100	44.4	27.8	0.63	1.75	50.4	25.4	2.3
				1300	42.9	2.59	34.0	100.5	4.86	4.8	1300	46.7	30.9	0.66	1.83	52.9	25.5	2.5
	11.0	5.2	12.1	1100	42.5	2.58	33.7	105.7	4.83	5.4	1100	44.8	29.7	0.66	1.70	50.6	26.3	2.1
				1300	43.8	2.61	34.9	101.2	4.92	5.0	1300	47.2	33.0	0.70	1.79	53.3	26.4	2.4
60	5.0	1.3	3.1	1100	44.4	2.57	35.6	107.4	5.06	5.7	1100	43.8	28.2	0.65	2.05	50.8	21.3	3.0
				1300	45.8	2.59	37.0	102.7	5.19	5.3	1300	45.9	31.4	0.68	2.15	53.2	21.4	3.2
	8.0	3.2	7.4	1100	46.4	2.65	37.4	109.1	5.14	5.9	1100	44.8	28.6	0.64	1.95	51.4	22.9	2.8
				1300	47.9	2.66	38.8	104.1	5.27	5.4	1300	46.9	31.7	0.68	2.03	53.8	23.1	3.0
	11.0	5.1	11.7	1100	47.5	2.67	38.4	110.0	5.21	6.1	1100	45.2	30.1	0.67	1.90	51.7	23.7	2.6
				1300	49.1	2.69	39.9	105.0	5.36	5.6	1300	47.5	33.4	0.70	1.99	54.2	23.8	2.9
70	5.0	1.3	3.0	1100	35.4	2.65	26.4	99.8	3.92	6.4	1100	44.0	29.0	0.66	2.36	52.1	17.5	3.8
				1300	49.2	2.69	40.0	105.0	5.36	6.0	1300	47.0	33.6	0.71	2.43	54.7	19.3	4.0
	8.0	3.1	7.2	1100	51.3	2.74	41.9	113.2	5.49	6.6	1100	45.2	29.3	0.65	2.16	52.6	20.9	3.5
				1300	53.0	2.74	43.6	107.7	5.67	6.1	1300	47.1	32.5	0.69	2.23	55.2	21.1	3.8
	11.0	4.9	11.3	1100	52.6	2.77	43.2	114.3	5.56	6.8	1100	45.6	30.5	0.67	2.10	52.8	21.7	3.3
				1300	54.4	2.76	45.0	108.7	5.78	6.3	1300	47.7	33.8	0.71	2.19	55.3	21.8	3.6
80	5.0	1.3	2.9	1100	50.0	2.68	40.9	112.1	5.46	7.2	1100	42.4	28.4	0.67	2.52	51.0	16.9	4.8
				1300	51.8	2.66	42.7	106.9	5.70	6.7	1300	44.1	31.5	0.71	2.59	53.0	17.0	5.1
	8.0	3.0	6.9	1100	52.9	2.79	43.4	114.5	5.56	7.5	1100	43.6	28.7	0.66	2.43	51.9	18.0	4.5
				1300	54.7	2.76	45.3	109.0	5.80	6.9	1300	45.4	31.8	0.70	2.50	53.9	18.2	4.8
	11.0	4.7	10.9	1100	54.4	2.83	44.8	115.8	5.64	7.7	1100	44.1	29.4	0.67	2.38	52.2	18.5	4.1
				1300	56.3	2.79	46.8	110.1	5.92	7.1	1300	45.9	32.6	0.71	2.45	54.3	18.7	4.6
90	5.0	1.2	2.8	1100	51.3	2.72	42.0	113.2	5.53	88.1	1100	40.8	27.7	0.68	2.78	50.3	14.7	6.0
				1300	53.1	2.68	44.0	107.9	5.82	7.5	1300	42.3	30.8	0.73	2.85	52.0	14.9	6.4
	8.0	2.9	6.7	1100	54.5	2.84	44.9	115.9	5.63	8.4	1100	42.1	28.1	0.67	2.70	51.3	15.6	5.6
				1300	56.5	2.79	47.0	110.2	5.93	7.8	1300	43.6	31.2	0.71	2.77	53.1	15.8	6.1
	11.0	4.6	10.5	1100	56.3	2.88	46.4	117.4	5.72	8.6	1100	43.1	28.7	0.67	2.64	52.1	16.3	5.2
				1300	58.2	2.81	48.6	111.5	6.07	8.0	1300	44.1	31.4	0.71	2.71	53.3	16.3	5.8
100	5.0	1.2	2.7	Operation not recommended							Operation not recommended							
	8.0	2.8	6.4								1100	39.9	27.6	0.69	3.05	50.3	13.1	6.9
											1300	41.2	30.7	0.75	3.09	51.7	13.3	7.5
	11.0	4.4	10.2								1100	40.3	27.6	0.68	2.99	50.5	13.5	6.4
											1300	41.6	30.5	0.73	3.04	52.0	13.7	7.2
110	5.0	1.1	2.6								Operation not recommended							
	8.0	2.7	6.2								1100	37.7	27.2	0.72	3.39	49.3	11.1	8.5
											1300	38.7	30.2	0.78	3.42	50.4	11.3	9.2
	11.0	4.2	9.8								1100	38.1	26.8	0.70	3.33	49.4	11.4	7.9
											1300	39.1	29.6	0.76	3.37	50.6	11.6	8.8
120	5.0	1.1	2.5								Operation not recommended							
	8.0	2.6	5.9								1100	32.8	26.0	0.79	3.77	45.7	8.7	10.3
											1300	33.4	28.2	0.84	3.86	46.6	8.6	11.1
	11.0	4.1	9.4								1100	33.1	26.0	0.78	3.65	45.5	9.1	9.5
											1300	33.8	28.2	0.83	3.76	46.6	9.0	10.6

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Performance Data cont.

042 - Dual Capacity with Variable Speed ECM Low Speed (1350 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	4.0	0.9	2.2	Operation not recommended							Operation not recommended							
	6.0	2.1	4.9															
	8.0	3.3	7.6	900	19.5	1.79	13.4	90.0	3.19	3.7								
				1100	19.9	1.78	13.8	86.8	3.28	3.3								
30	4.0	0.9	2.1	Operation not recommended							Operation not recommended							
	6.0	2.0	4.7	900	21.5	1.72	15.6	92.1	3.66	3.9	900	31.2	22.1	0.71	0.86	34.1	36.1	-
				1100	22.4	1.77	16.3	88.8	3.71	3.4	1100	31.7	24.2	0.76	0.91	34.8	34.8	-
	8.0	3.2	7.4	900	23.3	1.82	17.1	94.0	3.75	3.8	900	31.3	22.1	0.71	0.84	34.2	37.4	-
				1100	23.8	1.81	17.6	90.0	3.85	3.3	1100	32.1	24.2	0.75	0.88	35.1	36.5	-
40	4.0	0.9	2.0	Operation not recommended							Operation not recommended							
	6.0	2.0	4.6	900	25.0	1.75	19.0	95.7	4.19	4.1	900	33.4	23.4	0.70	0.98	36.7	34.1	-
				1100	25.9	1.78	19.8	91.8	4.25	3.7	1100	34.0	25.5	0.75	1.03	37.5	33.1	-
	8.0	3.1	7.1	900	26.3	1.79	20.2	97.1	4.31	4.2	900	33.6	23.4	0.69	0.95	36.9	35.4	-
				1100	27.3	1.83	21.0	92.9	4.38	3.8	1100	34.4	25.5	0.74	1.00	37.8	34.6	-
50	4.0	0.9	2.0	900	27.5	1.78	21.5	98.3	4.54	4.3	900	34.8	23.5	0.67	1.13	38.7	30.9	1.6
				1100	28.4	1.80	22.2	93.9	4.62	3.9	1100	35.8	26.0	0.73	1.00	39.2	35.8	1.7
	6.0	1.9	4.4	900	28.5	1.78	22.4	99.3	4.70	4.4	900	35.1	23.6	0.67	1.10	38.9	32.0	1.5
				1100	29.3	1.80	23.2	94.7	4.78	4.1	1100	36.1	26.1	0.72	1.12	39.9	32.2	1.6
	8.0	3.0	6.9	900	29.8	1.82	23.6	100.7	4.81	4.7	900	35.7	24.2	0.68	1.09	39.4	32.8	1.4
				1100	30.7	1.84	24.4	95.8	4.89	4.2	1100	36.7	26.8	0.73	1.11	40.5	33.1	1.5
60	4.0	0.8	1.9	900	31.5	1.81	25.3	102.4	5.09	4.8	900	33.3	22.7	0.68	1.32	37.8	25.3	2.3
				1100	32.3	1.83	26.0	97.2	5.18	4.4	1100	34.3	25.2	0.73	1.34	38.8	25.6	2.4
	6.0	1.9	4.3	900	32.8	1.81	26.6	103.7	5.30	5.0	900	33.6	22.9	0.68	1.28	38.0	26.3	2.1
				1100	33.5	1.82	27.3	98.2	5.39	5.1	1100	34.6	25.3	0.73	1.31	39.0	26.5	2.3
	8.0	2.9	6.7	900	33.9	1.85	27.6	104.9	5.37	4.7	900	34.2	23.4	0.69	1.27	38.5	26.9	1.9
				1100	34.7	1.86	28.3	99.2	5.46	5.3	1100	35.2	26.0	0.74	1.30	39.6	27.1	2.2
70	4.0	0.8	1.8	900	35.4	1.85	29.1	106.4	5.61	5.0	900	31.9	22.0	0.69	1.50	37.0	21.2	3.0
				1100	35.6	1.86	29.3	100.0	5.61	5.5	1100	33.5	24.9	0.74	1.63	38.2	20.6	3.1
	6.0	1.8	4.2	900	37.0	1.84	30.7	108.0	5.88	5.0	900	32.2	22.1	0.69	1.46	37.2	22.0	2.8
				1100	37.7	1.84	31.4	101.7	5.99	5.6	1100	33.1	24.5	0.74	1.49	38.6	22.1	3.0
	8.0	2.8	6.5	900	37.9	1.88	31.5	109.0	5.90	5.2	900	32.7	22.7	0.69	1.45	37.6	22.5	2.6
				1100	38.6	1.88	32.2	102.5	6.02	6.0	1100	33.6	25.1	0.75	1.48	39.1	22.7	2.8
80	4.0	0.8	1.8	900	39.6	1.88	33.2	110.8	6.18	5.5	900	31.0	21.8	0.70	1.73	36.9	17.9	4.2
				1100	40.2	1.87	33.8	103.8	6.30	6.2	1100	31.8	24.1	0.76	1.77	37.9	18.0	4.4
	6.0	1.7	4.0	900	41.5	1.87	35.2	112.7	6.52	6.3	900	31.3	21.9	0.70	1.69	37.0	18.5	3.9
				1100	42.0	1.85	35.7	105.4	6.64	5.8	1100	32.1	24.3	0.76	1.72	38.0	18.7	4.2
	8.0	2.7	6.3	900	42.1	1.91	35.6	113.3	6.47	6.4	900	31.8	22.5	0.71	1.67	37.5	19.0	3.6
				1100	42.6	1.89	36.1	105.8	6.60	6.0	1100	32.7	24.9	0.76	1.71	38.5	19.1	4.0
90	4.0	0.7	1.7	900	43.8	1.91	37.3	115.1	6.73	6.5	900	30.1	21.6	0.72	1.96	36.8	15.3	5.4
				1100	44.2	1.89	37.8	107.2	6.87	6.4	1100	30.9	23.9	0.77	2.00	37.7	15.5	5.7
	6.0	1.7	3.9	900	46.1	1.89	39.6	117.4	7.14	6.6	900	30.3	21.8	0.72	1.91	36.9	15.9	5.0
				1100	46.4	1.87	40.0	109.0	7.28	6.9	1100	31.2	24.1	0.77	1.95	37.8	16.0	5.5
	8.0	2.6	6.0	900	46.3	1.93	39.7	117.6	7.03	7.0	900	30.8	21.9	0.71	1.91	37.3	16.1	4.7
				1100	46.5	1.90	41.0	109.1	7.17	6.6	1100	31.7	24.7	0.78	1.93	38.3	16.4	5.2
100	4.0	0.7	1.7	Operation not recommended							Operation not recommended							
	6.0	1.6	3.7								900	27.3	21.0	0.77	2.20	34.8	12.4	6.1
											1100	28.0	23.2	0.83	2.24	35.7	12.5	6.6
	8.0	2.5	5.8								900	27.7	21.5	0.78	2.18	35.2	12.7	5.8
											1100	28.5	23.8	0.84	2.23	36.1	12.8	6.6
110	4.0	0.7	1.6								Operation not recommended							
	6.0	1.6	3.6								900	24.2	20.2	0.83	2.49	32.7	9.7	7.2
											1100	24.9	22.3	0.90	2.54	33.6	9.8	8.2
	8.0	2.4	5.6								900	24.6	20.7	0.84	2.47	33.1	10.0	6.9
											1100	25.3	22.9	0.91	2.52	33.9	10.0	7.8
120	4.0	0.7	1.5								Operation not recommended							
	6.0	1.5	3.5								900	22.1	20.4	0.92	2.85	31.8	7.8	8.9
											1100	22.5	22.1	0.98	2.92	32.5	7.7	9.1
	8.0	2.3	5.4								900	22.3	20.4	0.91	2.75	31.7	8.1	8.5
											1100	22.8	22.1	0.97	2.84	32.5	8.0	9.6

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Performance Data cont.

048 - Dual Capacity with Variable Speed ECM High Speed (1550 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	6.0	1.4	3.2	Operation not recommended							Operation not recommended							
	9.0	2.8	6.5															
	12.0	4.2	9.7	1350	33.3	2.92	23.4	92.8	3.35	4.7								
				1550	33.4	2.85	23.7	90.0	3.43	4.2								
30	6.0	1.4	3.2	Operation not recommended							Operation not recommended							
	9.0	2.7	6.3	1350	36.6	2.82	26.9	95.1	3.80	4.9	1350	43.5	26.1	0.60	1.86	49.8	23.4	-
				1550	37.6	2.91	27.7	92.5	3.79	4.5	1550	44.2	28.5	0.64	1.95	50.9	22.6	-
	12.0	4.1	9.5	1350	38.3	3.01	28.0	96.3	3.73	5.0	1350	43.7	26.1	0.60	1.80	49.9	24.3	-
				1550	38.4	2.94	28.4	92.9	3.83	4.6	1550	44.8	28.5	0.64	1.89	51.2	23.7	-
40	6.0	1.3	3.1	Operation not recommended							Operation not recommended							
	9.0	2.6	6.1	1350	41.8	2.94	31.8	98.7	4.17	5.6	1350	47.8	30.4	0.64	2.01	54.6	23.8	-
				1550	43.1	3.00	32.9	95.7	4.21	5.2	1550	48.6	33.2	0.68	2.11	55.8	23.1	-
	12.0	4.0	9.2	1350	42.6	2.97	32.5	99.2	4.21	5.8	1350	48.1	30.4	0.63	1.95	54.8	24.7	-
				1550	44.0	3.03	33.7	96.3	4.26	5.3	1550	49.2	33.2	0.67	2.04	56.2	24.1	-
50	6.0	1.3	3.0	1350	45.4	2.98	35.2	101.1	4.46	6.1	1350	49.4	31.5	0.64	2.27	57.1	21.8	2.7
				1550	46.7	3.02	36.4	97.9	4.53	5.6	1550	52.0	35.0	0.67	2.39	60.1	21.8	2.9
	9.0	2.6	5.9	1350	47.0	3.05	36.6	102.3	4.52	6.3	1350	50.4	31.9	0.63	2.14	57.7	23.6	2.5
				1550	48.5	3.09	38.0	99.0	4.60	5.8	1550	53.0	35.4	0.67	2.24	60.7	23.6	2.7
	12.0	3.8	8.9	1350	48.1	3.08	37.6	103.0	4.58	6.5	1350	50.9	34.0	0.67	2.09	58.0	24.4	2.3
				1550	49.6	3.12	39.0	99.6	4.66	5.9	1550	53.6	37.8	0.71	2.19	61.1	24.5	2.6
60	6.0	1.2	2.9	1350	49.9	3.11	39.3	104.2	4.71	6.9	1350	48.2	31.7	0.66	2.49	56.7	19.3	3.2
				1550	51.5	3.13	40.8	100.8	4.83	6.4	1550	50.5	35.2	0.70	2.60	59.4	19.4	3.4
	9.0	2.5	5.7	1350	52.1	3.19	41.2	105.8	4.78	7.1	1350	49.3	32.0	0.65	2.37	57.4	20.8	3.0
				1550	53.8	3.21	42.9	102.1	4.91	6.6	1550	51.7	35.5	0.69	2.47	60.1	20.9	3.2
	12.0	3.7	8.6	1350	53.4	3.23	42.4	106.6	4.85	7.3	1350	49.8	33.8	0.68	2.31	57.7	21.5	2.7
				1550	55.2	3.24	44.1	102.9	4.99	6.7	1550	52.3	37.5	0.72	2.42	60.5	21.6	3.1
70	6.0	1.2	2.8	1350	54.4	3.23	43.4	107.3	4.94	7.9	1350	47.0	31.8	0.68	2.72	56.3	17.5	3.9
				1550	56.2	3.27	45.0	103.6	5.04	7.3	1550	49.8	36.8	0.74	2.87	59.5	17.4	4.2
	9.0	2.4	5.5	1350	57.2	3.33	45.9	109.3	5.03	8.1	1350	48.2	32.2	0.67	2.60	57.1	18.5	3.7
				1550	59.1	3.33	47.7	105.3	5.20	7.5	1550	50.3	35.7	0.71	2.69	59.6	18.7	4.0
	12.0	3.6	8.3	1350	58.7	3.37	47.2	110.3	5.10	8.4	1350	48.7	33.5	0.69	2.54	57.4	19.2	3.4
				1550	60.7	3.36	49.2	106.3	5.29	7.7	1550	50.9	37.1	0.73	2.64	59.9	19.3	3.8
80	6.0	1.2	2.7	1350	57.4	3.32	46.1	109.4	5.07	8.7	1350	44.9	32.0	0.71	3.01	55.2	14.9	5.1
				1550	59.4	3.29	48.2	105.5	5.29	8.1	1550	46.7	35.6	0.76	3.11	57.3	15.0	5.4
	9.0	2.3	5.4	1350	60.7	3.45	48.9	111.6	5.15	9.0	1350	46.1	32.4	0.70	2.91	56.1	15.9	4.7
				1550	62.8	3.42	51.1	107.5	5.38	8.3	1550	48.0	35.9	0.75	2.99	58.2	16.0	5.1
	12.0	3.5	8.0	1350	62.5	3.50	50.5	112.8	5.23	9.3	1350	46.6	33.2	0.71	2.85	56.4	16.4	4.4
				1550	64.6	3.45	52.8	108.6	5.50	8.6	1550	48.6	36.8	0.76	2.94	58.6	16.5	4.9
90	6.0	1.1	2.6	1350	60.4	3.41	48.7	111.4	5.18	9.7	1350	42.8	32.2	0.75	3.31	54.1	12.9	6.3
				1550	62.5	3.36	51.1	107.4	5.45	9.0	1550	44.3	35.8	0.81	3.39	55.9	13.1	6.7
	9.0	2.2	5.2	1350	64.2	3.57	52.0	114.0	5.27	10.0	1350	44.1	32.7	0.74	3.22	55.0	13.7	5.9
				1550	66.5	3.50	54.5	109.7	5.56	9.3	1550	45.7	36.2	0.79	3.30	56.9	13.9	6.4
	12.0	3.4	7.7	1350	66.2	3.62	53.9	115.4	5.36	10.3	1350	45.2	33.3	0.74	3.20	56.1	14.1	5.5
				1550	68.5	3.53	56.5	110.9	5.69	9.6	1550	46.2	36.5	0.79	3.23	57.2	14.3	6.1
100	6.0	1.1	2.5	Operation not recommended							Operation not recommended							
	9.0	2.2	5.0								1350	41.2	31.8	0.77	3.59	53.5	11.5	7.5
											1550	42.6	35.3	0.83	3.65	55.0	11.7	8.1
	12.0	3.2	7.5								1350	41.7	31.7	0.76	3.53	53.7	11.8	7.0
											1550	43.1	35.1	0.81	3.59	55.3	12.0	7.7
110	6.0	1.0	2.4								Operation not recommended							
	9.0	2.1	4.8								1350	38.5	30.9	0.80	3.97	52.0	9.7	9.3
											1550	39.5	34.3	0.87	4.00	53.1	9.9	10.1
	12.0	3.1	7.2								1350	38.8	30.4	0.78	3.90	52.1	10.0	8.7
											1550	39.9	33.6	0.84	3.94	53.3	10.1	9.6
120	6.0	1.0	2.3								Operation not recommended							
	9.0	2.0	4.6								1350	37.1	29.3	0.79	4.40	52.1	8.4	11.3
											1550	37.7	31.8	0.84	4.51	53.1	8.4	12.2
	12.0	3.0	6.9								1350	37.4	29.3	0.78	4.26	51.9	8.8	10.5
											1550	38.2	31.8	0.83	4.39	53.2	8.7	11.6

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Performance Data cont.

048 - Dual Capacity with Variable Speed ECM Low Speed (1350 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	5.0	1.1	2.4	Operation not recommended							Operation not recommended							
	8.0	2.3	5.4															
	11.0	3.6	8.4	1150	22.0	2.23	14.4	87.7	2.89	4.1								
				1350	22.1	2.22	14.5	85.2	2.92	3.7								
30	5.0	1.0	2.4	Operation not recommended							Operation not recommended							
	8.0	2.3	5.3	1150	24.4	2.13	17.2	89.7	3.37	4.2	1150	32.9	25.0	0.76	1.07	36.6	30.8	-
				1350	25.5	2.19	18.0	87.5	3.41	3.8	1350	33.5	27.3	0.82	1.13	37.3	29.7	-
	11.0	3.5	8.1	1150	27.0	2.25	19.3	91.7	3.52	4.3	1150	33.1	25.0	0.75	1.04	36.6	31.9	-
				1350	27.1	2.24	19.5	88.6	3.55	3.9	1350	33.9	27.3	0.81	1.09	37.6	31.1	-
40	5.0	1.0	2.3	Operation not recommended							Operation not recommended							
	8.0	2.2	5.1	1150	29.2	2.18	21.7	93.5	3.92	4.5	1150	36.4	26.7	0.73	1.23	40.6	29.6	-
				1350	30.2	2.22	22.6	90.7	3.98	4.2	1350	37.1	29.1	0.78	1.29	41.5	28.7	-
	11.0	3.4	7.9	1150	30.7	2.23	23.1	94.8	4.04	4.7	1150	36.7	26.7	0.73	1.20	40.8	30.7	-
				1350	31.8	2.28	24.0	91.8	4.10	4.2	1350	37.6	29.1	0.77	1.25	41.8	30.0	-
50	5.0	1.0	2.2	1150	32.7	2.23	25.1	96.3	4.30	4.8	1150	39.1	27.1	0.69	1.43	44.0	27.3	1.6
				1350	33.7	2.26	26.0	93.1	4.37	4.4	1350	40.2	30.0	0.75	1.35	44.8	29.8	1.7
	8.0	2.1	4.9	1150	33.9	2.23	26.3	97.3	4.45	4.9	1150	39.4	27.2	0.69	1.40	44.2	28.3	1.5
				1350	34.9	2.26	27.2	93.9	4.53	4.5	1350	40.5	30.1	0.74	1.42	45.4	28.5	1.6
	11.0	3.3	7.7	1150	35.5	2.28	27.7	98.5	4.55	5.1	1150	40.1	27.9	0.70	1.38	44.8	29.0	1.4
				1350	36.5	2.31	28.6	95.0	4.63	4.6	1350	41.2	30.9	0.75	1.41	46.0	29.2	1.5
60	5.0	0.9	2.2	1150	37.2	2.27	29.4	99.9	4.80	5.2	1150	38.5	27.1	0.70	1.64	44.1	23.5	2.3
				1350	38.1	2.29	30.3	96.1	4.88	4.8	1350	39.6	30.0	0.76	1.67	45.3	23.7	2.4
	8.0	2.1	4.8	1150	38.7	2.27	30.9	101.1	5.00	5.4	1150	38.9	27.2	0.70	1.60	44.3	24.3	2.1
				1350	39.6	2.28	31.8	97.1	5.08	5.0	1350	39.9	30.1	0.75	1.63	45.5	24.5	2.3
	11.0	3.2	7.4	1150	40.0	2.32	32.1	102.2	5.06	5.5	1150	39.5	27.9	0.71	1.58	44.9	24.9	1.9
				1350	40.9	2.33	33.0	98.1	5.14	5.1	1350	40.6	30.9	0.76	1.62	46.1	25.1	2.2
70	5.0	0.9	2.1	1150	41.6	2.31	33.7	103.5	5.27	5.8	1150	37.9	27.1	0.71	1.85	44.3	20.5	3.0
				1350	39.1	2.20	31.6	96.8	5.21	5.4	1350	38.3	30.6	0.80	2.11	45.5	18.2	3.1
	8.0	2.0	4.6	1150	43.4	2.30	35.5	104.9	5.52	6.0	1150	38.3	27.2	0.71	1.80	44.4	21.3	2.8
				1350	44.2	2.30	36.3	100.3	5.63	5.5	1350	39.4	30.1	0.77	1.84	45.6	21.4	3.0
	11.0	3.1	7.2	1150	41.4	2.33	33.5	103.3	5.21	6.1	1150	38.9	27.9	0.72	1.79	45.0	21.8	2.8
				1350	45.3	2.35	37.3	101.1	5.65	5.7	1350	40.0	30.9	0.77	1.82	46.2	22.0	3.1
80	5.0	0.9	2.0	1150	46.3	2.35	38.3	107.3	5.77	6.5	1150	36.0	26.6	0.74	2.16	43.4	16.7	4.4
				1350	47.0	2.34	39.0	102.2	5.88	6.0	1350	37.0	29.4	0.80	2.20	44.5	16.8	4.6
	8.0	1.9	4.5	1150	48.6	2.34	40.6	109.1	6.09	6.7	1150	36.3	26.7	0.74	2.10	43.5	17.3	4.1
				1350	49.1	2.32	41.2	103.7	6.21	6.1	1350	37.3	29.6	0.79	2.14	44.7	17.4	34.4
	11.0	3.0	6.9	1150	49.2	2.39	41.1	109.6	6.05	6.9	1150	36.9	27.4	0.74	2.08	44.0	17.7	3.8
				1350	49.8	2.37	41.7	104.1	6.17	6.3	1350	38.0	30.4	0.80	2.13	45.2	17.9	4.2
90	5.0	0.8	1.9	1150	51.1	2.39	42.9	111.1	6.26	7.2	1150	34.1	26.1	0.77	2.47	42.5	13.8	5.9
				1350	51.5	2.36	43.4	105.3	6.39	6.7	1350	35.0	28.9	0.83	2.52	43.6	13.9	6.2
	8.0	1.9	4.3	1150	53.7	2.37	45.6	113.3	6.64	7.4	1150	34.4	26.3	0.76	2.41	42.6	14.3	5.5
				1350	54.1	2.34	46.1	107.1	6.78	6.9	1350	35.3	29.1	0.82	2.45	43.7	14.4	5.9
	11.0	2.9	6.7	1150	54.0	2.42	45.7	113.4	6.54	7.7	1150	34.8	27.3	0.78	2.38	42.9	14.6	5.1
				1350	54.2	2.38	46.2	107.2	6.67	7.1	1350	35.9	29.8	0.83	2.43	44.2	14.8	5.6
100	5.0	0.8	1.9	Operation not recommended							Operation not recommended							
	8.0	1.8	4.2								1150	31.5	25.6	0.81	2.77	40.9	11.4	7.1
											1350	32.4	28.4	0.88	2.82	42.0	11.5	7.7
	11.0	2.8	6.4								1150	32.0	26.3	0.82	2.75	41.4	11.7	6.6
											1350	32.9	29.1	0.88	2.80	42.5	11.8	7.3
110	5.0	0.8	1.8								Operation not recommended							
	8.0	1.7	4.0								1150	28.6	25.0	0.87	3.14	39.3	9.1	9.0
											1350	29.4	27.7	0.94	3.20	40.3	9.2	9.6
	11.0	2.7	6.2								1150	29.1	25.7	0.88	3.11	39.7	9.4	8.2
											1350	29.9	28.4	0.95	3.17	40.7	9.4	8.9
120	5.0	0.7	1.7								Operation not recommended							
	8.0	1.7	3.8								1150	24.7	22.4	0.91	3.59	36.9	6.9	10.5
											1350	25.1	24.3	0.97	3.68	37.7	6.8	11.3
	11.0	2.6	5.9								1150	24.9	22.4	0.90	3.47	36.7	7.2	9.9
											1350	25.4	24.3	0.96	3.58	37.6	7.1	11.0

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Performance Data cont.

060 - Dual Capacity with Variable Speed ECM High Speed (1800 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	8.0	2.7	6.2	Operation not recommended							Operation not recommended							
	12.0	4.9	11.4															
	16.0	7.3	16.8	1500	31.2	3.44	19.5	89.3	2.66	5.2								
				1800	32.3	3.47	20.5	86.6	2.73	4.7								
30	8.0	2.6	6.0	Operation not recommended							Operation not recommended							
	12.0	4.8	11.0	1500	38.2	3.65	25.7	93.5	3.06	5.5	1500	52.1	37.7	0.72	2.23	59.7	23.4	-
				1800	39.7	3.75	27.0	90.4	3.11	5.1	1800	52.9	41.2	0.78	2.35	60.9	22.5	-
	16.0	7.0	16.3	1500	40.9	3.81	27.9	95.2	3.15	5.8	1500	52.3	37.7	0.72	2.16	59.7	24.2	-
				1800	42.3	3.84	29.2	91.8	3.23	5.2	1800	53.6	41.2	0.77	2.27	61.3	23.6	-
40	8.0	2.5	5.9	Operation not recommended							Operation not recommended							
	12.0	4.6	10.7	1500	47.5	3.89	34.3	99.3	3.58	6.1	1500	59.3	40.4	0.68	2.62	68.2	22.6	-
				1800	49.2	3.96	35.7	95.3	3.64	5.7	1800	60.4	44.2	0.73	2.74	69.7	22.0	-
	16.0	6.8	15.8	1500	50.1	3.98	36.5	100.9	3.69	6.6	1500	59.7	40.4	0.68	2.54	68.4	23.5	-
				1800	51.8	4.06	38.0	96.6	3.74	6.0	1800	61.1	44.2	0.72	2.66	70.1	23.0	-
50	8.0	2.5	5.7	1500	54.9	4.12	40.9	103.9	3.91	6.9	1500	65.0	41.3	0.63	3.09	75.5	21.0	3.8
				1800	56.7	4.18	42.4	99.1	3.97	6.4	1800	66.8	45.7	0.68	1.00	70.2	23.3	4.0
	12.0	4.5	10.4	1500	56.9	4.12	42.8	105.1	4.04	7.2	1500	65.6	41.5	0.63	3.01	75.8	21.8	3.6
				1800	58.6	4.18	44.3	100.1	4.11	6.6	1800	67.4	45.9	0.68	3.07	77.9	22.0	3.9
	16.0	6.6	15.3	1500	59.5	4.22	45.1	106.8	4.14	7.4	1500	66.7	42.6	0.64	2.98	76.8	22.3	3.3
				1800	61.3	4.27	46.7	101.5	4.21	6.8	1800	68.5	47.1	0.69	3.04	78.9	22.5	3.7
60	8.0	2.4	5.5	1500	65.0	4.43	49.9	110.1	4.30	7.8	1500	62.8	40.1	0.64	3.38	74.3	18.5	4.6
				1800	66.6	4.46	51.4	104.3	4.37	7.2	1800	64.5	44.4	0.69	3.45	76.3	18.7	4.9
	12.0	4.3	10.0	1500	67.6	4.42	52.5	111.7	4.48	8.1	1500	63.3	40.3	0.64	3.30	74.6	19.2	4.3
				1800	69.2	4.45	54.0	105.6	4.56	7.4	1800	65.1	44.6	0.69	3.36	76.5	19.4	4.7
	16.0	6.4	14.8	1500	70.0	4.52	54.5	113.2	4.53	8.5	1500	64.4	41.3	0.64	3.27	75.5	19.7	4.0
				1800	71.6	4.55	56.0	106.8	4.61	7.6	1800	66.2	45.8	0.69	3.33	77.5	19.9	4.4
70	8.0	2.3	5.3	1500	75.1	4.75	58.9	116.3	4.64	8.9	1500	60.5	38.9	0.64	3.68	73.1	16.5	5.6
				1800	74.7	4.61	59.0	108.4	4.75	8.2	1800	62.5	43.5	0.70	3.94	75.2	15.9	6.0
	12.0	4.2	9.7	1500	78.4	4.73	62.2	118.4	4.86	9.2	1500	61.1	39.1	0.64	3.58	73.3	17.0	5.3
				1800	79.8	4.72	63.7	111.1	4.95	8.4	1800	62.8	43.3	0.69	3.65	75.9	17.2	5.7
	16.0	6.2	14.3	1500	80.4	4.83	63.9	119.6	4.88	9.5	1500	62.1	40.1	0.65	3.55	74.2	17.5	4.9
				1800	81.8	4.82	65.4	112.1	4.97	8.7	1800	63.8	44.4	0.70	3.62	76.2	17.6	5.4
80	8.0	2.2	5.1	1500	82.7	5.04	65.5	121.0	4.81	9.8	1500	58.0	38.5	0.66	4.04	71.8	14.3	7.3
				1800	83.8	5.01	66.7	113.1	4.90	9.1	1800	59.6	42.6	0.71	4.12	73.7	14.5	7.7
	12.0	4.1	9.4	1500	86.6	5.01	69.5	123.5	5.07	10.2	1500	58.5	38.7	0.66	3.94	72.0	14.9	6.8
				1800	87.6	4.97	70.7	115.1	5.17	9.4	1800	60.2	42.9	0.71	4.02	73.9	15.0	7.4
	16.0	6.0	13.8	1500	87.8	5.11	70.4	124.2	5.04	10.5	1500	59.5	39.7	0.67	3.90	72.8	15.2	6.3
				1800	88.8	5.07	71.5	115.7	5.14	9.6	1800	61.2	44.0	0.72	3.98	74.7	15.4	7.0
90	8.0	2.1	5.0	1500	90.2	5.34	72.0	125.7	4.95	10.9	1500	55.5	38.1	0.69	4.41	70.5	12.6	9.3
				1800	90.9	5.27	73.0	116.8	5.06	10.0	1800	57.0	42.2	0.74	4.49	72.4	12.7	9.8
	12.0	3.9	9.0	1500	94.9	5.29	76.8	128.6	5.26	111.2	1500	56.0	38.3	0.68	4.30	70.7	13.0	8.6
				1800	95.5	5.22	77.6	119.1	5.36	10.4	1800	57.6	42.4	0.74	4.38	72.5	13.1	9.4
	16.0	5.8	13.3	1500	95.3	5.40	76.9	128.8	5.17	11.6	1500	58.1	39.4	0.68	4.17	72.3	13.9	8.0
				1800	95.7	5.31	77.8	119.2	5.28	10.8	1800	58.5	43.5	0.74	4.34	73.3	13.5	8.9
100	8.0	2.1	4.8	Operation not recommended							Operation not recommended							
	12.0	3.8	8.7								1500	53.2	37.5	0.70	4.77	69.5	11.1	10.5
											1800	54.7	41.5	0.76	4.86	71.2	11.2	11.4
	16.0	5.6	12.9								1500	54.1	38.4	0.71	4.73	70.2	11.4	9.8
											1800	55.6	42.6	0.77	4.82	72.0	11.5	10.9
110	8.0	2.0	4.6								Operation not recommended							
	12.0	3.6	8.4								1500	50.4	36.6	0.73	5.25	68.2	9.6	13.2
											1800	51.7	40.6	0.78	5.35	70.0	9.7	14.5
	16.0	5.4	12.4								1500	51.2	37.6	0.73	5.20	68.9	9.8	12.4
											1800	52.6	41.6	0.79	5.30	70.7	9.9	13.8
120	8.0	1.9	4.4								Operation not recommended							
	12.0	3.5	8.1								1500	48.4	33.3	0.69	5.90	68.6	8.2	16.0
											1800	49.3	36.1	0.73	6.05	70.0	8.1	17.4
	16.0	5.1	11.9								1500	48.9	33.3	0.68	5.71	68.3	8.6	14.8
											1800	49.9	36.1	0.72	5.89	70.0	8.5	16.5

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Performance Data cont.

060 - Dual Capacity with Variable Speed ECM Low Speed (1500 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	6.0	1.9	4.3	Operation not recommended							Operation not recommended							
	10.0	3.7	8.7															
	14.0	5.7	13.3	1250	25.2	2.77	15.7	88.6	2.66	4.1								
				1500	26.2	2.76	16.8	86.2	2.78	3.8								
30	6.0	1.8	4.2	Operation not recommended							Operation not recommended							
	10.0	3.6	8.4	1250	29.6	2.74	20.2	91.9	3.17	4.1	1250	44.8	32.4	0.72	1.38	49.5	32.3	-
				1500	30.8	2.81	21.2	89.0	3.21	3.7	1500	45.5	35.4	0.78	1.46	50.5	31.2	-
	14.0	5.6	12.9	1250	31.5	2.89	21.6	93.3	3.19	4.2	1250	45.0	32.4	0.72	1.34	49.6	33.5	-
				1500	32.8	2.88	23.0	90.2	3.34	3.8	1500	46.1	35.4	0.77	1.41	50.9	32.7	-
40	6.0	1.8	4.1	Operation not recommended							Operation not recommended							
	10.0	3.5	8.2	1250	35.5	2.81	25.9	96.3	3.70	4.6	1250	46.8	32.8	0.70	1.55	52.1	30.3	-
				1500	36.7	2.87	27.0	92.7	3.76	4.1	1500	47.7	35.8	0.75	1.62	53.2	29.4	-
	14.0	5.4	12.5	1250	37.4	2.88	27.6	97.7	3.81	4.7	1250	47.2	32.8	0.69	1.50	52.3	31.4	-
				1500	38.7	2.94	28.7	93.9	3.86	4.3	1500	48.3	35.8	0.74	1.57	53.6	30.7	-
50	6.0	1.7	3.9	1250	40.0	2.89	30.1	99.6	4.06	4.8	1250	47.8	31.7	0.66	1.76	53.8	27.2	1.9
				1500	41.2	2.93	31.2	95.4	4.13	4.4	1500	49.1	35.1	0.71	1.74	55.1	32.5	2.0
	10.0	3.4	7.9	1250	41.4	2.89	31.5	100.7	4.20	5.0	1250	48.2	31.9	0.66	1.71	54.1	28.2	1.8
				1500	42.6	2.92	32.7	96.3	4.27	4.6	1500	49.6	35.3	0.71	1.75	55.5	28.4	1.9
	14.0	5.2	12.1	1250	43.3	2.95	33.2	102.1	4.30	5.2	1250	49.0	32.7	0.67	1.70	54.8	28.9	1.6
				1500	44.6	2.99	34.4	97.5	4.37	4.8	1500	50.4	36.2	0.72	1.73	56.3	29.1	1.8
60	6.0	1.7	3.8	1250	46.0	2.95	36.0	104.1	4.57	5.6	1250	45.9	31.3	0.68	2.03	52.8	22.6	2.6
				1500	47.2	2.97	37.0	99.1	4.65	5.0	1500	47.2	34.6	0.73	2.07	54.3	22.8	2.8
	10.0	3.3	7.6	1250	47.9	2.94	37.8	105.5	4.77	5.6	1250	46.3	31.5	0.68	1.98	53.1	23.4	2.5
				1500	49.0	2.96	38.9	100.2	4.85	5.2	1500	47.6	34.8	0.73	2.02	54.5	23.6	2.7
	14.0	5.1	11.7	1250	49.5	3.01	39.3	106.7	4.82	5.8	1250	47.1	32.3	0.68	1.96	53.8	24.0	2.3
				1500	50.7	3.03	40.3	101.3	4.91	5.3	1500	48.4	35.7	0.74	2.00	55.2	24.2	2.5
70	6.0	1.6	3.7	1250	52.0	3.01	41.8	108.5	5.06	6.2	1250	44.0	30.8	0.70	2.31	51.9	19.1	3.7
				1500	53.5	3.07	43.0	103.0	5.11	5.7	1500	44.2	34.3	0.78	2.57	53.0	17.2	3.9
	10.0	3.2	7.4	1250	54.3	3.00	44.1	110.2	5.31	6.5	1250	44.4	31.0	0.70	2.25	52.1	19.8	3.4
				1500	55.3	3.00	45.1	104.2	5.41	5.9	1500	45.6	34.3	0.75	2.29	53.5	19.9	3.7
	14.0	4.9	11.3	1250	55.7	3.07	45.3	111.3	5.33	6.7	1250	45.1	31.8	0.70	2.23	52.7	20.3	3.2
				1500	56.7	3.06	46.3	105.0	5.43	6.1	1500	46.4	35.2	0.76	2.27	54.1	20.4	3.5
80	6.0	1.5	3.6	1250	58.5	3.07	48.0	113.3	5.58	6.9	1250	41.8	30.0	0.72	2.66	50.9	15.7	5.1
				1500	59.3	3.06	48.8	106.6	5.68	6.4	1500	42.9	33.3	0.77	2.71	52.2	15.8	5.4
	10.0	3.1	7.1	1250	61.3	3.05	50.9	115.4	5.88	7.2	1250	42.2	30.2	0.72	2.59	51.0	16.3	4.8
				1500	62.0	3.03	51.7	108.3	6.00	6.7	1500	43.3	33.4	0.77	2.64	52.4	16.4	5.2
	14.0	4.7	10.9	1250	62.2	3.12	51.5	116.0	5.84	7.4	1250	42.9	31.0	0.72	2.57	51.6	16.7	4.4
				1500	62.8	3.09	52.3	108.8	5.96	6.8	1500	44.1	34.3	0.78	2.62	53.0	16.8	4.9
90	6.0	1.5	3.4	1250	64.9	3.13	54.2	118.1	6.07	7.8	1250	39.6	29.3	0.74	3.02	49.9	13.1	6.8
				1500	65.5	3.10	54.9	110.4	6.19	7.2	1500	40.7	32.4	0.80	3.08	51.2	13.2	7.2
	10.0	3.0	6.9	1250	68.3	3.11	57.7	120.6	6.44	8.1	1250	39.9	29.4	0.74	2.94	49.9	13.6	6.4
				1500	68.7	3.06	57.8	112.4	6.57	7.4	1500	41.0	32.6	0.79	3.00	51.4	13.7	6.9
	14.0	4.6	10.5	1250	68.6	3.17	57.8	120.8	6.34	8.3	1250	40.6	30.6	0.75	2.88	50.4	14.1	5.9
				1500	68.9	3.12	58.3	112.5	6.47	7.8	1500	41.7	33.4	0.80	2.97	51.8	14.0	6.6
100	6.0	1.4	3.3	Operation not recommended							Operation not recommended							
	10.0	2.9	6.6								1250	36.9	28.6	0.77	3.36	48.4	11.0	8.3
											1500	38.0	31.6	0.83	3.43	49.7	11.1	8.9
	14.0	4.4	10.2								1250	37.6	29.3	0.78	3.33	48.9	11.3	7.7
											1500	38.6	32.5	0.84	3.40	50.2	11.4	8.5
110	6.0	1.4	3.2								Operation not recommended							
	10.0	2.8	6.4								1250	34.0	27.8	0.82	3.78	46.9	9.0	10.4
											1500	34.9	30.7	0.88	3.85	48.1	9.1	11.3
	14.0	4.2	9.8								1250	34.5	28.5	0.82	3.75	47.3	9.2	9.7
											1500	35.5	31.5	0.89	3.82	48.5	9.3	10.7
120	6.0	1.3	3.1								Operation not recommended							
	10.0	2.7	6.1								1250	28.0	25.9	0.92	4.25	42.5	6.6	12.6
											1500	28.6	28.1	0.98	4.36	43.4	6.6	13.6
	14.0	4.1	9.4								1250	28.3	25.9	0.91	4.11	42.3	6.9	11.7
											1500	28.9	28.1	0.97	4.24	43.4	6.8	12.9

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Performance Data cont.

072 - Dual Capacity with Variable Speed ECM High Speed (2200 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	12.0	3.3	7.6	Operation not recommended							Operation not recommended							
	15.0	4.7	10.8															
	18.0	6.2	14.3	1850	44.7	4.47	29.5	92.4	2.93	7.9								
				2200	45.6	4.42	30.5	89.2	3.02	7.1								
30	12.0	3.2	7.4	Operation not recommended							Operation not recommended							
	15.0	4.5	10.5	1850	54.0	4.53	38.6	97.0	3.49	8.3	1850	62.0	42.7	0.69	2.98	72.1	20.8	-
				2200	55.6	4.67	39.6	93.4	3.49	7.6	2200	63.0	46.7	0.74	3.13	73.7	20.1	-
	18.0	6.0	13.9	1850	55.6	4.77	39.3	97.8	3.42	8.5	1850	62.3	42.7	0.69	2.89	72.1	21.6	-
				2200	56.7	4.72	40.6	93.9	3.52	7.7	2200	63.8	46.7	0.73	3.03	74.1	21.1	-
40	12.0	3.1	7.1	Operation not recommended							Operation not recommended							
	15.0	4.4	10.2	1850	61.8	4.72	45.7	100.9	3.84	9.2	1850	68.4	46.7	0.68	3.31	79.7	20.7	-
				2200	63.7	4.82	47.3	96.8	3.87	8.4	2200	69.7	51.0	0.73	3.47	81.6	20.1	-
	18.0	5.8	13.5	1850	63.0	4.76	46.8	101.6	3.88	9.5	1850	69.0	46.7	0.68	3.21	79.9	21.5	-
				2200	65.1	4.87	48.5	97.4	3.92	8.6	2200	70.5	51.0	0.72	3.36	82.0	21.0	-
50	12.0	3.0	6.9	1850	67.2	4.79	50.8	103.6	4.11	9.9	1850	71.1	46.1	0.65	3.82	84.1	18.6	4.3
				2200	69.2	4.86	52.6	99.1	4.17	9.2	2200	74.8	51.2	0.68	4.02	88.5	18.6	4.5
	15.0	4.3	9.9	1850	69.6	4.90	52.9	104.8	4.16	10.2	1850	72.6	46.6	0.64	3.60	84.9	20.2	4.0
				2200	71.8	4.97	54.9	100.2	4.24	9.4	2200	76.4	51.8	0.68	3.78	89.2	20.2	4.3
	18.0	5.7	13.1	1850	71.2	4.94	54.3	105.6	4.22	10.5	1850	73.3	49.8	0.68	3.51	85.3	20.9	3.7
				2200	73.4	5.01	56.3	100.9	4.29	9.6	2200	77.2	55.3	0.72	3.69	89.8	20.9	4.1
60	12.0	2.9	6.7	1850	75.5	5.03	58.3	107.8	4.40	11.1	1850	70.2	46.3	0.66	4.18	84.5	16.8	5.5
				2200	78.0	5.06	60.7	102.8	4.51	10.3	2200	73.6	51.5	0.70	4.37	88.5	16.9	5.5
	15.0	4.1	9.6	1850	78.9	5.17	61.3	109.5	4.47	11.5	1850	71.9	46.8	0.65	3.97	85.4	18.1	4.9
				2200	81.5	5.21	63.7	104.3	4.59	10.6	2200	75.3	52.0	0.69	4.14	89.4	18.2	5.3
	18.0	5.5	12.7	1850	80.8	5.23	63.0	110.5	4.53	11.8	1850	72.6	49.3	0.68	3.88	85.8	18.7	4.5
				2200	83.5	5.25	65.6	105.1	4.66	10.9	2200	76.2	54.8	0.72	4.05	90.0	18.8	5.0
70	12.0	2.8	6.5	1850	35.4	5.27	17.4	87.7	1.97	12.5	1850	69.4	46.5	0.67	4.54	84.8	17.5	6.6
				2200	89.4	5.38	71.0	107.6	4.87	11.6	2200	74.5	54.4	0.73	4.50	89.5	16.6	6.9
	15.0	4.0	9.2	1850	88.3	5.45	69.7	114.2	4.75	12.9	1850	71.1	47.0	0.66	4.35	86.0	16.4	6.1
				2200	91.1	5.45	72.5	108.4	4.90	11.9	2200	74.2	52.1	0.70	4.50	89.9	16.5	6.6
	18.0	5.3	12.2	1850	90.5	5.51	71.7	115.3	4.81	13.3	1850	71.9	48.9	0.68	4.24	86.3	17.0	5.7
				2200	93.6	5.49	74.9	109.4	5.00	12.3	2200	75.1	54.2	0.72	4.41	90.1	17.0	6.3
80	12.0	2.7	6.3	1850	91.5	5.51	72.7	115.8	4.86	13.9	1850	67.0	46.1	0.69	4.97	83.9	13.5	8.4
				2200	94.7	5.47	76.1	109.9	5.08	12.8	2200	69.7	51.3	0.74	5.12	87.1	13.6	8.9
	15.0	3.9	8.9	1850	96.8	5.73	77.2	118.4	4.95	14.3	1850	68.8	46.7	0.68	4.79	85.2	14.4	7.8
				2200	100.1	5.68	80.7	112.1	5.17	13.2	2200	71.6	51.8	0.72	4.93	88.5	14.5	8.4
	18.0	5.1	11.8	1850	99.6	5.81	79.8	119.8	5.03	14.7	1850	69.6	47.8	0.69	4.69	85.6	14.8	7.2
				2200	103.0	5.72	83.5	113.4	5.28	13.6	2200	72.5	53.0	0.73	4.84	88.9	15.0	8.0
90	12.0	2.6	6.0	1850	99.1	5.76	79.5	119.6	5.05	15.4	1850	64.7	45.8	0.71	5.39	83.0	12.0	10.5
				2200	102.6	5.67	83.3	113.2	5.31	14.3	2200	66.9	50.8	0.76	5.52	85.8	12.1	11.1
	15.0	3.7	8.6	1850	105.3	6.01	84.8	122.7	5.13	15.9	1850	66.6	46.3	0.70	5.24	84.4	12.7	9.8
				2200	109.1	5.91	88.9	115.9	5.41	14.7	2200	69.0	51.4	0.74	5.37	87.4	12.9	10.6
	18.0	4.9	11.4	1850	108.7	6.10	87.8	124.4	5.22	16.4	1850	68.5	47.7	0.70	4.96	85.4	13.8	9.1
				2200	112.4	5.95	92.1	117.3	5.54	15.2	2200	69.8	51.8	0.74	5.26	87.7	13.3	10.1
100	12.0	2.5	5.8	Operation not recommended							Operation not recommended							
	15.0	3.6	8.3								1850	63.1	45.7	0.72	5.85	83.1	10.8	12.2
											2200	65.2	50.7	0.78	5.94	85.5	11.0	13.2
	18.0	4.8	11.0								1850	63.8	45.6	0.71	5.75	83.4	11.1	11.3
											2200	65.9	50.5	0.77	5.84	85.8	11.3	12.5
110	12.0	2.4	5.6								Operation not recommended							
	15.0	3.5	8.0								1850	59.7	45.1	0.75	6.47	81.8	9.2	14.9
											2200	61.4	50.1	0.82	6.51	83.6	9.4	16.1
	18.0	4.6	10.6								1850	60.4	44.5	0.74	6.35	82.0	9.5	13.8
											2200	62.0	49.1	0.79	6.42	83.9	9.7	15.3
120	12.0	2.3	5.4								Operation not recommended							
	15.0	3.3	7.7								1850	55.7	43.7	0.78	7.17	80.2	7.8	18.0
											2200	56.7	47.4	0.84	7.36	81.8	7.7	19.5
	18.0	4.4	10.2								1850	56.2	43.7	0.78	6.94	79.9	8.1	16.7
											2200	57.4	47.4	0.83	7.16	81.8	8.0	18.5

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Performance Data cont.

072 - Dual Capacity with Variable Speed ECM Low Speed (1700 cfm)

EWT °F	Flow Rate GPM	WPD		HEATING - EAT 70°F							COOLING - EAT 80/67 °F							
		PSI	FT/HD	Airflow CFM	HC MBtu/h	Power kW	HE MBtu/h	LAT °F	COP	HWC Mbtu/h	Airflow CFM	TC Mbtu/h	SC Mbtu/h	S/T Ratio	Power kW	HR Mbtu/h	EER	HWC Mbtu/h
20	10.0	2.3	5.4	Operation not recommended							Operation not recommended							
	13.0	3.5	8.1															
	16.0	5.0	11.6	1400	34.5	3.52	22.5	92.8	2.87	5.9								
				1700	34.8	3.48	22.9	89.0	2.93	5.3								
30	10.0	2.3	5.3	Operation not recommended							Operation not recommended							
	13.0	3.4	7.9	1400	36.8	3.40	25.2	94.3	3.17	5.5	1400	49.8	34.1	0.69	1.73	55.7	28.8	-
				1700	38.3	3.49	26.4	90.9	3.22	4.7	1700	50.6	37.3	0.74	1.82	56.8	27.8	-
	16.0	4.9	11.3	1400	40.4	3.62	28.0	96.7	3.27	5.0	1400	50.1	34.1	0.68	1.68	55.8	29.9	-
				1700	40.8	3.58	28.6	92.2	3.34	5.7	1700	51.3	37.3	0.73	1.76	57.3	29.1	-
40	10.0	2.2	5.1	Operation not recommended							Operation not recommended							
	13.0	3.3	7.6	1400	43.7	3.51	31.7	98.9	3.65	6.5	1400	55.3	37.3	0.67	1.94	61.9	28.6	-
				1700	45.2	3.57	33.0	94.6	3.71	5.9	1700	56.4	40.7	0.72	2.03	63.3	27.8	-
	16.0	4.7	11.0	1400	46.1	3.59	33.8	100.5	3.76	6.7	1400	55.8	37.3	0.67	1.88	62.2	29.7	-
				1700	47.7	3.66	35.2	96.0	3.82	6.1	1700	57.0	40.7	0.71	1.97	63.7	29.0	-
50	10.0	2.1	4.9	1400	48.8	3.61	36.5	102.3	3.97	6.8	1400	59.5	38.6	0.65	2.20	67.0	27.0	2.3
				1700	50.4	3.66	37.9	97.4	4.03	6.3	1700	61.1	42.8	0.70	1.00	64.5	28.1	2.4
	13.0	3.2	7.4	1400	50.6	3.61	38.2	103.4	4.10	7.0	1400	60.0	38.9	0.65	2.15	67.3	27.9	2.1
				1700	52.1	3.66	39.6	98.4	4.17	6.4	1700	61.7	43.0	0.70	2.19	69.2	28.2	2.3
	16.0	4.6	10.6	1400	52.9	3.70	40.3	105.0	4.20	7.2	1400	61.0	39.8	0.65	2.13	68.3	28.7	2.0
				1700	54.5	3.74	41.7	99.7	4.27	6.6	1700	62.7	44.1	0.70	2.17	70.1	28.9	2.2
60	10.0	2.1	4.8	1400	56.1	3.73	43.3	107.1	4.40	7.5	1400	56.7	37.7	0.66	2.54	65.4	22.3	3.2
				1700	57.5	3.76	44.6	101.3	4.48	6.9	1700	58.3	41.7	0.71	2.59	67.2	22.5	3.4
	13.0	3.1	7.2	1400	58.3	3.73	45.6	108.6	4.58	7.7	1400	57.2	37.9	0.66	2.48	65.7	23.1	3.0
				1700	59.7	3.75	46.9	102.5	4.67	7.1	1700	58.8	41.9	0.71	2.53	67.5	23.3	3.2
	16.0	4.4	10.3	1400	60.3	3.81	47.3	109.9	4.64	7.9	1400	58.2	38.8	0.67	2.46	66.6	23.7	2.8
				1700	61.7	3.83	48.6	103.6	4.72	7.3	1700	59.8	43.0	0.72	2.51	68.3	23.9	3.1
70	10.0	2.0	4.6	1400	63.2	3.86	50.1	111.8	4.80	8.3	1400	54.0	36.7	0.68	2.89	63.8	18.7	4.4
				1700	65.6	3.85	52.5	105.7	4.99	7.7	1700	56.0	41.8	0.75	3.00	65.8	18.7	4.6
	13.0	3.0	6.9	1400	66.0	3.84	52.9	113.7	5.03	8.5	1400	54.5	36.9	0.68	2.81	64.1	19.4	4.1
				1700	67.2	3.84	54.1	106.6	5.13	7.9	1700	56.0	40.9	0.73	2.87	66.2	19.5	4.4
	16.0	4.3	9.9	1400	67.7	3.93	54.3	114.8	5.05	8.8	1400	55.4	37.9	0.68	2.79	64.9	19.9	3.8
				1700	68.9	3.92	55.5	107.5	5.15	8.1	1700	56.9	41.9	0.74	2.84	66.6	20.0	4.2
80	10.0	1.9	4.5	1400	70.9	3.98	57.3	116.9	5.22	9.2	1400	51.6	35.9	0.69	3.29	62.8	15.7	6.2
				1700	71.9	3.96	58.4	109.2	5.32	8.5	1700	53.0	39.7	0.75	3.35	64.5	15.8	6.6
	13.0	2.9	6.7	1400	74.3	3.95	60.8	119.2	5.51	9.5	1400	52.1	36.1	0.69	3.20	63.0	16.3	5.8
				1700	75.2	3.92	61.8	111.0	5.62	8.8	1700	53.5	39.9	0.75	3.26	64.7	16.4	6.3
	16.0	4.2	9.6	1400	75.4	4.04	61.6	119.8	5.47	9.8	1400	52.9	37.0	0.70	3.17	63.8	16.7	5.4
				1700	76.2	4.00	62.5	111.5	5.58	9.1	1700	54.4	41.0	0.75	3.24	65.4	16.8	6.0
90	10.0	1.9	4.3	1400	78.6	4.10	64.6	122.0	5.62	10.3	1400	49.2	35.0	0.71	3.69	61.8	13.4	8.0
				1700	79.3	4.05	65.4	113.2	5.73	9.5	1700	50.6	38.8	0.77	3.76	63.4	13.5	8.5
	13.0	2.8	6.5	1400	82.7	4.06	68.8	124.7	5.96	10.6	1400	49.7	35.2	0.71	3.59	61.9	13.8	7.5
				1700	83.2	4.01	69.5	115.3	6.08	9.8	1700	51.1	39.0	0.76	3.66	63.6	13.9	8.1
	16.0	4.0	9.3	1400	83.0	4.15	68.9	124.9	5.87	11.0	1400	50.2	35.9	0.72	3.55	62.3	14.1	6.9
				1700	83.4	4.08	70.1	115.4	5.99	10.2	1700	51.9	40.0	0.77	3.63	64.3	14.3	7.7
100	10.0	1.8	4.2	Operation not recommended							Operation not recommended							
	13.0	2.7	6.2								1400	46.7	34.4	0.74	4.11	60.7	11.4	10.0
											1700	48.0	38.1	0.79	4.19	62.3	11.5	10.9
	16.0	3.9	8.9								1400	47.5	35.3	0.74	4.07	61.4	11.7	9.3
											1700	48.8	39.1	0.80	4.15	63.0	11.8	10.4
110	10.0	1.7	4.0	Operation not recommended							Operation not recommended							
	13.0	2.6	6.0								1400	43.7	33.6	0.77	4.62	59.5	9.5	12.7
											1700	45.0	37.2	0.83	4.71	61.0	9.5	13.8
	16.0	3.7	8.6								1400	44.5	34.4	0.77	4.58	60.1	9.7	11.8
											1700	45.7	38.1	0.83	4.67	61.6	9.8	13.1
120	10.0	1.7	3.8								Operation not recommended							
	13.0	2.5	5.8								1400	41.6	34.2	0.82	5.29	59.7	7.9	15.8
											1700	42.4	37.1	0.88	5.43	60.9	7.8	17.1
	16.0	3.6	8.2								1400	42.0	34.2	0.81	5.12	59.5	8.2	14.6
											1700	42.9	37.1	0.86	5.28	60.9	8.1	16.3

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Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

YORK®

Revision Guide

Pages:	Description:	Date:	By:
	Guide Creation	June 27, 2024	SW/MA
3	Updated physical data table	24 July 2024	MA

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