B6VMAX Series

Air Handler with TXV
13-19 SEER Residential System
18,000 - 60,000 Btuh (Heat Pump & Air Conditioner)
R-410A Refrigerant

The B6VMAX Series of air handlers, when combined with our heat pump or air conditioner, offers a full line of quality, split system heating and cooling equipment.
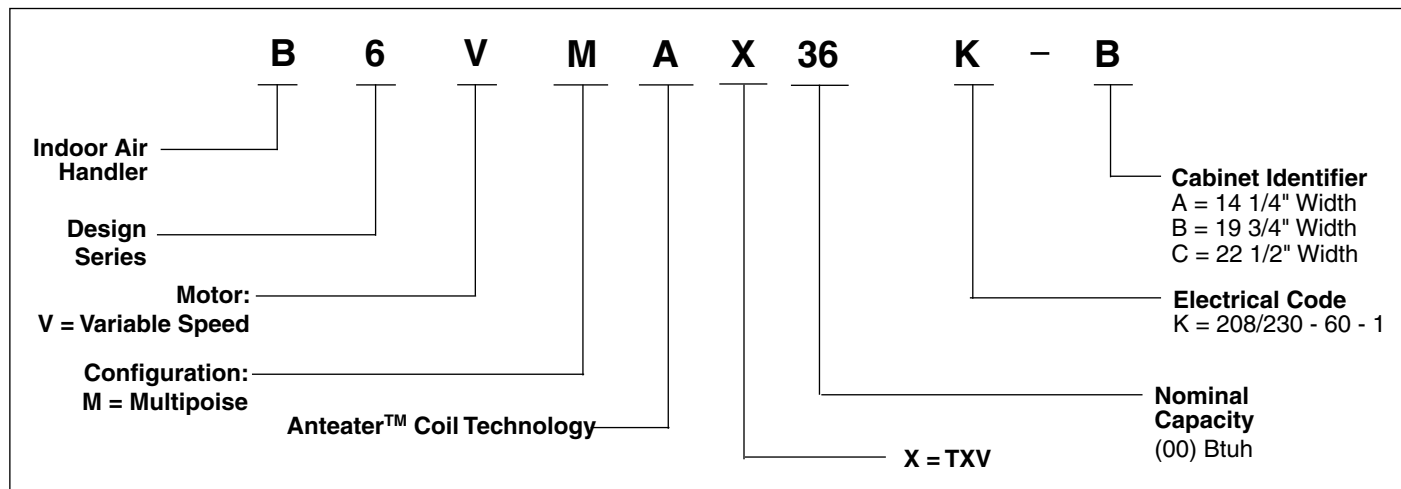
FEATURES and BENEFITS

- **Energy Efficient Variable Speed ECM Motor:** Advanced technology provides 16 field-selectable cooling airflows and automatically sets heating airflows based on the amount of installed heat.
- **Quiet Blower Operation:** Extra quiet and smooth blower on and off cycles.
- **Constant airflow:** Motor automatically adjusts to different static loads.
- **Reduced air stratification:** This results in improved air quality by optimizing humidity removal and filtration capabilities.
- **Multi-poised:** Can be used in horizontal, upflow, downflow and vertical applications.
- **Built in Filter Rack:** makes the air handler easy to service.
- **Plug-in Heater Kit:** Available in 5 kw through 30 kw (Not for use in 115 Volt units)
- **Circuit Board:** Incorporating blower time delay relay, low voltage terminal strip, and heat-strip sequencing.
- **Breaker Accessibility:** Breaker accessible from the front of the unit when heater is applied.
- **Plastic Drain Pan:** Provides corrosion resistance.
- **Durable Cabinet:** Galvanized steel with a polyurethane finish. The finish will endure 950 hours of salt spray and resist corrosion 50% better than comparable units.
- **Designed to meet the requirements 610.2.A.2:** Meets Florida building code requirements for air leakage.
- **Thermal Expansion Valve:** Factory installed externally equalized thermal expansion valve provides precise refrigerant control under varying load conditions.
- **Cabinet Insulation:** 1" insulation with an R-value of 4.2 contributes to quiet operation and prevents cabinet sweating in difficult applications.
- **Anteater™ Coil Technology:** Copper alloy with zinc additives to stop formicary corrosion.

WARRANTY

– This product carries a 5-year all parts warranty. When installed with a matched outdoor unit, the air handler will carry the outdoor system warranty. See current warranty document or visit our consumer web site for warranty details.

MODEL IDENTIFICATION CODE

B 6 V M A X 36 K – B

- Indoor Air Handler — B
- Design Series — 6
- Motor: V = Variable Speed
- Configuration: M = Multipoise
- Anteater™ Coil Technology — A
- X = TXV
- Nominal Capacity (00) Btuh — 36
- Electrical Code K = 208/230 - 60 - 1
- Cabinet Identifier
  A = 14 1/4" Width
  B = 19 3/4" Width
  C = 22 1/2" Width

ACCESSORIES

Accessory Kit Description	Cabinet Size			Part Number
	A	B	C	
Downflow Adaptor Kit	X			917342
		X		919321
			X	919322
Single Circuit Adaptor for 2 Circuit Breakers	X	X	X	913874
Single Circuit Adaptor for 3 Circuit Breakers	n/a	n/a	X	913556

240v Single-Phase Electric Heater Kits

Nominal KW	Matched Units								Part Number	
	24K-A	24K-B	30K-A	30K-B	36K-B	42K-B	48K-C	60K-C	With Circuit Breakers	Without Circuit Breakers
5	X	X	X	X	X	X	X	X	904407	904406
8	X	X	X	X	X	X	X	X	904409	904408
10	X	X	X	X	X	X	X	X	904412	904411
15	X	X	X	X	X	X	X	X	904414	n/a
20	n/a	X	n/a	X	X	X	X	X	904416	n/a
25	n/a	n/a	n/a	n/a	n/a	n/a	X	X	921609	n/a
30	n/a	n/a	n/a	n/a	n/a	n/a	X	X	921610	n/a

240v Three-Phase Electric Heater Kits

Nominal KW	Matched Units								Part Number	
	24K-A	24K-B	30K-A	30K-B	36K-B	42K-B	48K-C	60K-C	With Circuit Breakers	Without Circuit Breakers
9	X	X	X	X	X	X	X	X	904410	n/a
15	X	X	X	X	X	X	X	X	904415	n/a

SPECIFICATIONS

Model B6VMAX	24K-A	24K-B	30K-A	30K-B	36K-B	42K-B	48K-C	60K-C
Refrigerant Flow Control	TXV	TXV	TXV	TXV	TXV	TXV	TXV	TXV
Maximum Available Auxiliary Heat (kw)	15	20	15	20	20	20	30	30
Nominal Blower Size (D X W)	10 x 6	11 x 8	10 x 6	11 x 8	11 x 8	11 x 8	11 x 10	11 x 10
Variable Speed Motor HP	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
Filter Size	12 x 20 x 1	18 x 20 x 1	12 x 20 x 1	18 x 20 x 1	18 x 20 x 1	18 x 20 x 1	20 x 20 x 1	20 x 20 x 1
Approximate Shipping Weight (lbs.)	91	120	91	111	140	140	170	170

NOTES: See current AHRI Directory for certified combinations and ratings.
www.ahridirectory.org

DIMENSIONS

Models B6VMAX	Height	Width	Refrigerant Connections		Filter Size	Supply Air Duct Dimensions
			Suction Dia.	Liquid Dia.		
24K-A	43 1/2	14 1/4	3/4	3/8	12 x 20 x 1	12 7/8 x 12 3/4
24K-B	49 1/2	19 3/4	7/8	3/8	18 x 20 x 1	12 7/8 x 18 1/4
30K-A	43 1/2	14 1/4	3/4	3/8	12 x 20 x 1	12 7/8 x 12 3/4
30K-B	43 1/2	19 3/4	3/4	3/8	18 x 20 x 1	12 7/8 x 18 1/4
36K-B	49 1/2	19 3/4	7/8	3/8	18 x 20 x 1	12 7/8 x 18 1/4
42K-B	49 1/2	19 3/4	7/8	3/8	18 x 20 x 1	12 7/8 x 18 1/4
48K-C	56	22 1/2	7/8	3/8	20 x 20 x 1	12 7/8 x 21
60K-C	56	22 1/2	7/8	3/8	20 x 20 x 1	12 7/8 x 21

DIMENSIONS

3/4"   **3/4"**

3/4"

13"

Ø **1 1/8" K.O. (typ.)**

Ø **1 7/8" K.O.**

"A"

1 1/4"

1 5/8"

1 7/8"

1 1/4"

3 1/4"

2 5/8"

1 7/8"

Ø **1 1/8" K.O. (typ.)**

3 5/8"

5 5/8"

Ø **1 3/4" K.O. (typ.)**

DETAIL "D"

1 1/8"

Ø **7/8" K.O.**

1 7/8"

"H"

3 1/4"

2 1/4"

SUCTION

LIQUID

15 1/4"

13"

"W"

22"
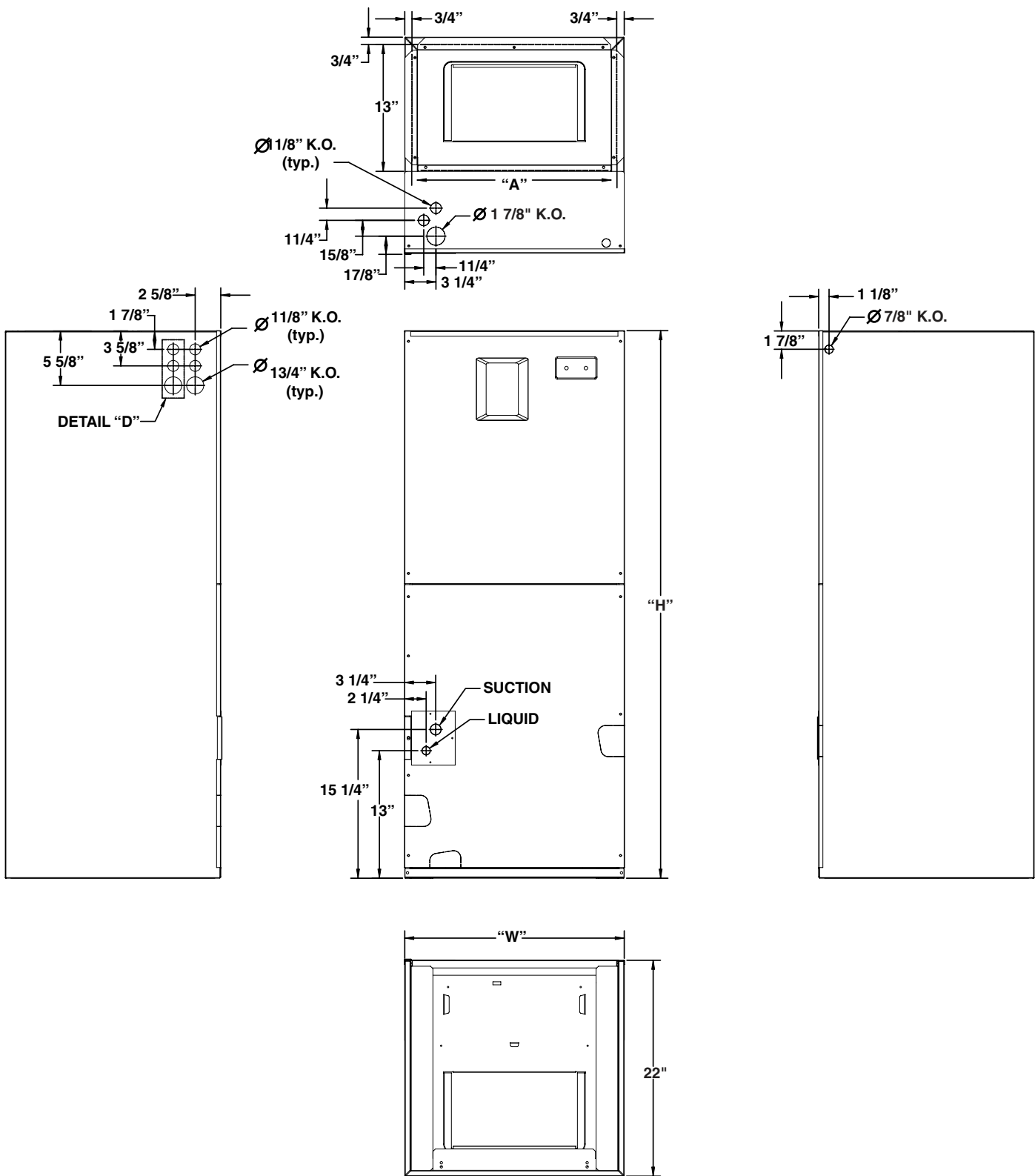
ELECTRICAL DATA

Cabinet	Capacity	Model Number H6HK-	Voltage 240								Voltage 208							
			Min. Circuit Amp.				Maximum Over-current Rating				Min. Circuit Amp.				Maximum Over-current Rating			
			Circuit A	Circuit B	Circuit C	Single Circuit	Circuit A	Circuit B	Circuit C	Single Circuit	Circuit A	Circuit B	Circuit C	Single Circuit	Circuit A	Circuit B	Circuit C	Single Circuit
A	24/30	None	4.5	-	-	4.5	15.0	-	-	15.0	4.8	-	-	4.8	15.0	-	-	15.0
		005H-XX	29.5	-	-	29.5	30.0	-	-	30.0	26.4	-	-	26.4	30.0	-	-	30.0
		008H-XX	44.1	-	-	44.1	45.0	-	-	45.0	39.1	-	-	39.1	40.0	-	-	40.0
		010H-XX	54.5	-	-	54.5	60.0	-	-	60.0	48.1	-	-	48.1	50.0	-	-	50.0
		015H-XX	54.5	25.0	-	68.1	60.0	30.0	-	80.0	48.1	21.7	-	69.8	50.0	25.0	-	70.0
		009Q-XX	-	-	-	31.6	-	-	-	35.0	-	-	-	28.2	-	-	-	30.0
		015Q-XX	-	-	-	47.8	-	-	-	50.0	-	-	-	42.3	-	-	-	45.0
B	24/30/ 36/42	None	4.5	-	-	4.5	15.0	-	-	15.0	4.8	-	-	4.8	15.0	-	-	15.0
		005H-XX	29.5	-	-	29.5	30.0	-	-	30.0	26.4	-	-	26.4	30.0	-	-	30.0
		008H-XX	44.1	-	-	44.1	45.0	-	-	45.0	39.1	-	-	39.1	40.0	-	-	40.0
		010H-XX	54.5	-	-	54.5	60.0	-	-	60.0	48.1	-	-	48.1	50.0	-	-	50.0
		015H-XX	54.5	25.0	-	68.1	60.0	30.0	-	80.0	48.1	21.7	-	69.8	50.0	25.0	-	70.0
		020H-XX	54.5	50.0	-	104.5	60.0	60.0	-	110.0	48.1	43.3	-	91.4	50.0	45.0	-	100.0
		009Q-XX	-	-	-	31.6	-	-	-	35.0	-	-	-	28.2	-	-	-	30.0
		015Q-XX	-	-	-	47.8	-	-	-	50.0	-	-	-	42.3	-	-	-	45.0
C	48/60	None	6.3	-	-	6.3	15.0	-	-	15.0	6.8	-	-	6.8	15.0	-	-	15.0
		005H-XX	31.3	-	-	31.3	35.0	-	-	35.0	28.4	-	-	28.4	30.0	-	-	30.0
		008H-XX	45.8	-	-	45.8	50.0	-	-	50.0	41.1	-	-	41.1	45.0	-	-	45.0
		010H-XX	56.3	-	-	56.3	60.0	-	-	60.0	50.1	-	-	50.1	60.0	-	-	60.0
		015H-XX	56.3	25.0	-	81.3	60.0	30.0	-	90.0	50.1	21.7	-	71.8	60.0	25.0	-	80.0
		020H-XX	56.3	50.0	-	106.3	60.0	60.0	-	110.0	50.1	43.3	-	93.4	60.0	45.0	-	100.0
		025H-XX	56.3	50.0	25.0	131.3	60.0	60.0	60.0	150.0	50.1	43.3	21.7	115.1	60.0	45.0	45.0	125.0
		030H-XX	56.3	50.0	50.0	156.3	60.0	60.0	60.0	175.0	50.1	43.3	43.3	136.8	60.0	45.0	45.0	150.0
		009Q-XX	-	-	-	33.3	-	-	-	35.0	-	-	-	30.2	-	-	-	35.0
		015Q-XX	-	-	-	49.6	-	-	-	50.0	-	-	-	44.3	-	-	-	45.0

AIRFLOW SELECTION FOR VARIABLE SPEED MODELS

	Cooling Airflow						Heating Airflow		
	A/B Switch Setting 0 = OFF, 1 = ON	**COOL Switch Setting** 0 = OFF, 1 = ON				**Airflow (CFM)**	**A/B Switch Setting** 0 = OFF, 1 = ON	**Heater Kit Installed (KW)**	**Airflow (CFM)**
		5	**6**	**7**	**8**				
B6VM A-cabinet	0	0	0	0	0	525	0	0	600
	0	0	0	0	1	560	0	5	800
	0	0	0	1	0	600	0	8	1000
	0	0	0	1	1	625	0	10	1000
	0	0	1	0	0	700	0	15	1300
	0	0	1	0	1	750	0	20	n/a
	0	0	1	1	0	800	0	25	n/a
	0	0	1	1	1	850	0	30	n/a
	0	1	0	0	0	875			
	0	1	0	0	1	890			
	0	1	0	1	0	930			
	0	1	0	1	1	950			
	0	1	1	0	0	1000			
	0	1	1	0	1	1050			
	0	1	1	1	0	1125			
	0	1	1	1	1	1200			

	Cooling Airflow						Heating Airflow		
	A/B Switch Setting 0 = OFF, 1 = ON	**COOL Switch Setting** 0 = OFF, 1 = ON				**Airflow (CFM)**	**A/B Switch Setting** 0 = OFF, 1 = ON	**Heater Kit Installed (KW)**	**Airflow (CFM)**
		5	**6**	**7**	**8**				
B6VM B-cabinet	1	0	0	0	0	525	1	0	700
	1	0	0	0	1	560	1	5	900
	1	0	0	1	0	600	1	8	1100
	1	0	0	1	1	650	1	10	1100
	1	0	1	0	0	700	1	15	1300
	1	0	1	0	1	750	1	20	1500
	1	0	1	1	0	800	1	25	n/a
	1	0	1	1	1	850	1	30	n/a
	1	1	0	0	0	875			
	1	1	0	0	1	950			
	1	1	0	1	0	1050			
	1	1	0	1	1	1150			
	1	1	1	0	0	1250			
	1	1	1	0	1	1350			
	1	1	1	1	0	1400			
	1	1	1	1	1	1600			

	Cooling Airflow						Heating Airflow		
	A/B Switch Setting (* = either 0 or 1)	**COOL Switch Setting** 0 = OFF, 1 = ON				**Airflow (CFM)**	**A/B Switch Setting** (* = either 0 or 1)	**Heater Kit Installed (KW)**	**Airflow (CFM)**
		5	**6**	**7**	**8**				
B6VM C-cabinet	*	0	0	0	0	1100	*	0	800
	*	0	0	0	1	1200	*	5	1000
	*	0	0	1	0	1250	*	8	1200
	*	0	0	1	1	1300	*	10	1200
	*	0	1	0	0	1350	*	15	1400
	*	0	1	0	1	1400	*	20	1600
	*	0	1	1	0	1450	*	25	1800
	*	0	1	1	1	1500	*	30	2000
	*	1	0	0	0	1550			
	*	1	0	0	1	1600			
	*	1	0	1	0	1650			
	*	1	0	1	1	1700			
	*	1	1	0	0	1750			
	*	1	1	0	1	1800			
	*	1	1	1	0	1900			
	*	1	1	1	1	2000			

NOTES:
- Airflow values listed are for 240V operation. For 208V operation, multiply A & B cabinet values by .95; for C-cabinet values mulitply by .90
- When matched with two-stage outdoor units the airflow on low (Y1 or W1) input only will be 70% of the values shown in this table.

COOLING AIRFLOW SETTINGS

A-CABINET

CFM	5	6	7	8	NOMINAL CAPACITY			
					1.5 TON	2 TON	2.5 TON	3 TON
525	0	0	0	0	1.5 TON			
560	0	0	0	1				
600	0	0	1	0				
625	0	0	1	1				
700	0	1	0	0		2 TON		
750	0	1	0	1				
800	0	1	1	0				
850	0	1	1	1				
875	1	0	0	0			2.5 TON	
890	1	0	0	1				
930	1	0	1	0				
950	1	0	1	1				
1000	1	1	0	0				
1050	1	1	0	1				3 TON
1125	1	1	1	0				
1200	1	1	1	1				

SWITCH SETTINGS (1 = ON, 0 = OFF)

B-CABINET

CFM	5	6	7	8	NOMINAL CAPACITY				
					1.5 TON	2 TON	2.5 TON	3 TON	3.5 TON / 4 TON
525	0	0	0	0	1.5 TON				
560	0	0	0	1					
600	0	0	1	0					
650	0	0	1	1					
700	0	1	0	0		2 TON			
750	0	1	0	1					
800	0	1	1	0					
850	0	1	1	1			2.5 TON		
875	1	0	0	0					
950	1	0	0	1					
1050	1	0	1	0				3 TON	
1150	1	0	1	1					
1250	1	1	0	0					3.5 TON
1350	1	1	0	1					
1400	1	1	1	0					4 TON
1600	1	1	1	1					

SWITCH SETTINGS (1 = ON, 0 = OFF)

C-CABINET

CFM	5	6	7	8	NOMICAL CAPACITY			
					3 TON	3.5 TON	4 TON	5 TON
1100	0	0	0	0	3 TON			
1200	0	0	0	1				
1250	0	0	1	0		3.5 TON		
1300	0	0	1	1				
1350	0	1	0	0				
1400	0	1	0	1			4 TON	
1450	0	1	1	0				
1500	0	1	1	1				
1550	1	0	0	0				5 TON
1600	1	0	0	1				
1650	1	0	1	0				
1700	1	0	1	1				
1750	1	1	0	0				
1800	1	1	0	1				
1900	1	1	1	0				
2000	1	1	1	1				

SWITCH SETTINGS (1 = ON, 0 = OFF)

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HRAI
✓MEMBER COMPANY

GENERAL TERMS OF LIMITED WARRANTY

Nortek Global HVAC, LLC will furnish a replacement for any part of this product which fails in normal use and service within the terms and conditions of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the Nortek Global HVAC, LLC warranty department for a copy.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A (1È/2015)

838D-1212 (Replaces 838D-0612)