

JT4BF-KA/B Series

Ultra High Efficiency Heat Pump 16 SEER Residential System 2 - 5 Ton Capacity

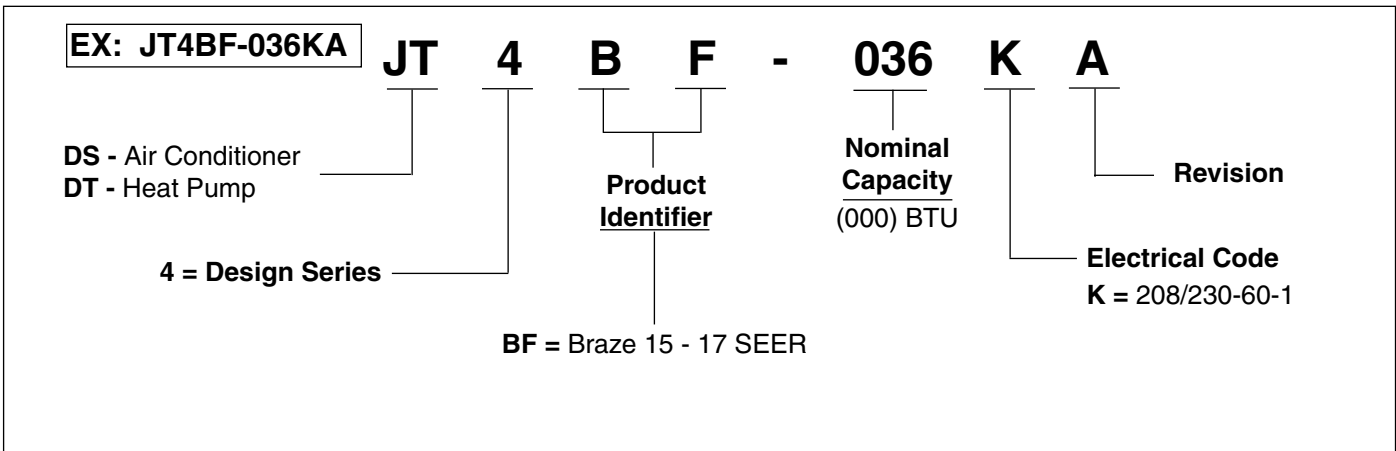
The JT4BF-KA/B Series of heat pumps offers exceptional performance as well as environmental protection. These models, when matched with our variable speed air handlers or variable speed equipped gas furnaces, offer a line of high quality heat pump systems rated up to 16 SEER and 9 HSPF.



FEATURES and BENEFITS

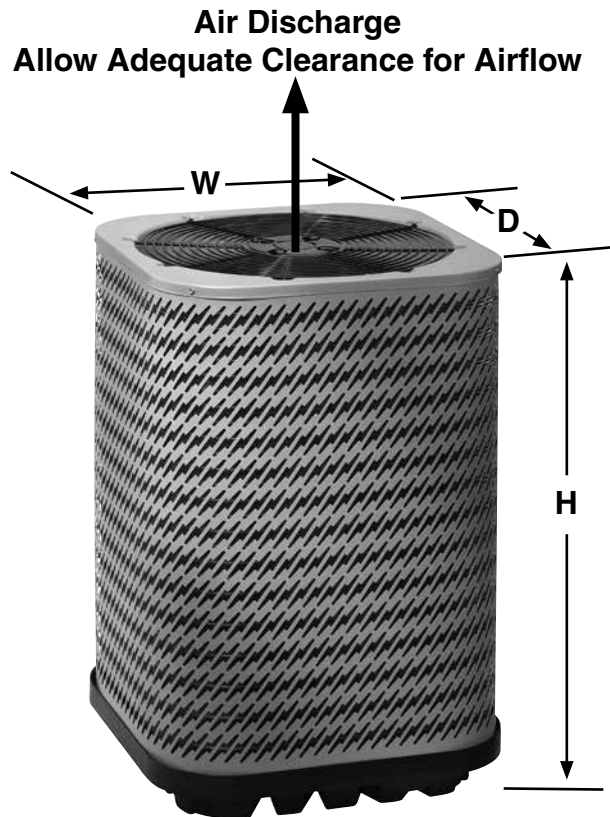
- **Copeland Scroll UltraTech™ Compressor:** The Ultra Tech Compressor operates with 2 stages of heating and cooling capacities to provide superior comfort and efficiency. Copeland's proven and simple design equates to years of comfort and reliability for the homeowner with virtually silent operation.
- **Durable, Attractive Cabinet:** Designed using galvanized steel with a polyester urethane finish. The 950 hour salt spray finish is 1.5 mil thick and resists corrosion 50% better than comparable units.
- **Composite Base Pan:** Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- **Demand Defrost:** Provides additional energy savings in heating by defrosting only when necessary.
- **Copper Tube / Aluminum Fin Coils:** Both indoor and outdoor coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **Complete Metal Wrapper:** Durable metal guard protects the coil from yard hazards and extreme weather.
- **Removable Top Grille Assembly:** Allows ease of service from the top without disconnecting fan motor leads.
- **Low Pressure Switch:** Loss of charge protection ensures long compressor life. Auto-reset feature prevents nuisance service visits.
- **High Pressure Switch:** Protects against abnormally high system pressures. Auto-reset feature prevents nuisance service visits.
- **Liquid Line Filter Drier:** Included with unit, field installed.
- **One Piece Top/Orifice:** Designed for maximum airflow and quiet operation.
- **Common Suction Service Port:** This port allows the contractor to read the suction pressure in all modes of operation without removing any panels, saving time and increasing serviceability.
- **Three Minute Restart Time Delay:** When the unit shuts down, a three minute delay keeps the unit from restarting, eliminating the highest cause for compressor failure.
- **Suction Accumulator:** Protection from liquid flood back and future compressor failures.
- **Hot Gas Muffler:** Reduces compressor noise and vibration.
- **Easy Compressor and Control Access:** Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit.

MODEL IDENTIFICATION CODES



DIMENSIONS HEAT PUMP OUTDOOR SECTION

JT4BF	024KB	036KA	048KA	060KA
H	43 1/2	43 1/2	43 1/2	43 1/2
W	31	31	31	31
D	31	31	31	31



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

16 SEER — Ultra High Efficiency — Single Phase

Model Number JT4BF			024KB	036KA	048KA	060KA
Electrical Data	Volts-Cycles-Phase (1)		208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
	Total Amps		11.4	17.9	24.0	25.9
	Delay Fuse Max. (2)		20	35	50	50
	Min. Circuit Ampacity		14.0	22.1	29.3	31.7
Condenser Data	Coil	Area	25.4	25.4	25.4	25.4
		Rows-FPI	1-20	2-18	2-18	2-18
		Tube Dia	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.
	Fan Motor	Type	PSC	PSC	BLDC	BLDC
		Speeds	2	2	2	2
		Amps	1.3	1.3	2.9	2.9
		HP	1/4	1/4	1/3	1/3
	Fan Blade	Dia-# Blades	24"- 2	24"- 2	24"- 2	24"- 2
		SCFM	3600	4000	4000	4000
	Compressor Data	RLA	10.3	16.6	21.1	23.0
LRA		52	82	96	118	
Refrigerant suction line O.D.(all length of liquid line are 3/8" O.D.)		0-24 ft.	3/4"	7/8" (4)	7/8"	7/8"
		25-39 ft.	7/8"	1-1/8" (3)	1-1/8" (3)	1-1/8" (3)
		40-75 ft.	7/8"	1-1/8" (3)	1-1/8" (3)	1-1/8" (3)
Refrigerant charge in ounces for outdoor unit, indoor unit and 15' lineset. (5)			211	243	272	272
Weight Approximate (lbs.)		Net	253	277	277	301
		Ship	265	289	289	313
Sound Ratings db			75	76	76	78

(1) Operating voltage range: 187V minimum - 253 V maximum.

(2) HACR type circuit breakers may be used.

(3) Requires 1-1/8 to 7/8" reducer from unit to lineset.

(4) Use of a 3/4" lineset will result in approximately 2% loss in capacity.

(5) Additional charge for line sets above 15 feet. Values based on suction line as follows with 3/8" liquid line.

a) 3/4" = 0.6 oz per additional foot.

b) 7/8" = 0.7 oz per additional foot.

c) 1 1/8" = 0.8 oz per additional foot.

ACCESSORIES - Condensing Unit

Start Assist Kit - 912933

Provides additional starting torque for the compressor motor when operating with low line voltage or high operating temperatures.

Extreme Wind Condition Mounting Kit - 920900

Snow Stand Kit - 920636

SYSTEM HEATING AND COOLING CAPACITIES

16 SEER — Ultra High Efficiency — Single Phase

With this Coil										
Outdoor Unit Number JT4BF	Indoor Unit Number C6B(A,H)-	Cooling				Indoor CFM		Heating		
		Low Speed Capacity (Btu/h)	High Speed Capacity (Btu/h)	SEER	EER	Low Speed SCFM	High Speed SCFM	Low Speed Capacity (Btu/h)	High Speed Capacity (Btu/h)	HSPF
024KB	X26(C,U)-B+MB7(E,V)M	18000	24000	16	13.0	640	850	18000	24000	9.0
036KA	X36(C,U)-B+MB7(E,V)M	25000	36000	16	12.5	900	1250	24000	36000	8.5
036KA	X36(C,U)-C+MB7(E,V)M	25000	36000	16	12.5	900	1250	24000	36000	8.5
048KA	X48(C,U)-C+MB7(E,V)M	34000	48000	16	12.5	1140	1700	31000	46000	9.0
060KA	X60(C,U)-C+MB7(E,V)M	41000	55000	16	11.65	1200	1800	37000	52500	8.5

With this Air Handler										
Outdoor Unit Number JT4BF	Indoor Unit Number B6VMA-	Cooling				Indoor CFM		Heating		
		Low Speed Capacity (Btu/h)	High Speed Capacity (Btu/h)	SEER	EER	Low Speed SCFM	High Speed SCFM	Low Speed Capacity (Btu/h)	High Speed Capacity (Btu/h)	HSPF
024KB	X24KB	18000	24000	16	13.0	640	850	18000	24000	9.0
036KA	X36KB	25000	36000	16	12.5	900	1250	24000	36000	8.5
048KA	X48KC	34000	48000	16	12.5	1140	1700	31000	46000	9.0
060KA	X60KC	41000	55000	16	11.65	1200	1800	37000	52500	8.5

Air handlers and coils used in tables are designed and manufactured by Nortek Global HVAC.

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



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 (10/2017)