

JT4BD Series 13 SEER 3 Phase Light Commercial R-410A High Efficiency Heat Pumps 3, 4, 5 Ton Capacities

The JT4BD Series of heat pumps offers exceptional performance with environmentally friendly R-410A refrigerant. The heat pump, when combined with our engineered coils or air handlers, offers a full line of quality, split system heating and cooling equipment. Units are ideally sized for slab or rooftop mounting in light commercial applications.

FEATURES and BENEFITS

- **Durable, Attractive Cabinet** – Designed using galvanized steel with a polyester urethane finish. The 950 hour salt spray finish resists corrosion 50% better than comparable units.
- **Composite Base Pan** – Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- **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.
- **Permanently Lubricated Motor** – A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Full Service Valves** – These brass valves are easily accessible and simplify servicing of the refrigeration system.
- **Time / Temperature Defrost** – A reliable, industry standard control offers various time settings to meet any type climate.
- **Removable Top Grille Assembly** – Allows ease of service from the top without disconnecting fan motor leads.
- **Liquid Line Filter Drier** – Included with unit, field installed.
- **One Piece Top/Orifice** – Designed for maximum airflow and quiet operation.
- **High Pressure Switch** – Protects against abnormally high system pressures. Auto-reset feature prevents nuisance service visits.
- **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.
- **Five Minute Restart Time Delay** – When the unit shuts down, a five minute delay keeps the unit from restarting, eliminating the highest cause for compressor failure.
- **Suction Accumulator and Crankcase Heat** – 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.
- **Complete metal wrapper** – Protects the unit coil from being damaged.
- **Warranty** – One year commercial parts, 5 year compressor warranty.



MODEL IDENTIFICATION CODES

EX: JT4BD-036CA

JT

4

B

D

-

036

C

JS - Air Conditioner
JT - Heat Pump

Generation 1, 2, 3, etc.

Product
Identifier

BD = Braze 13 SEER

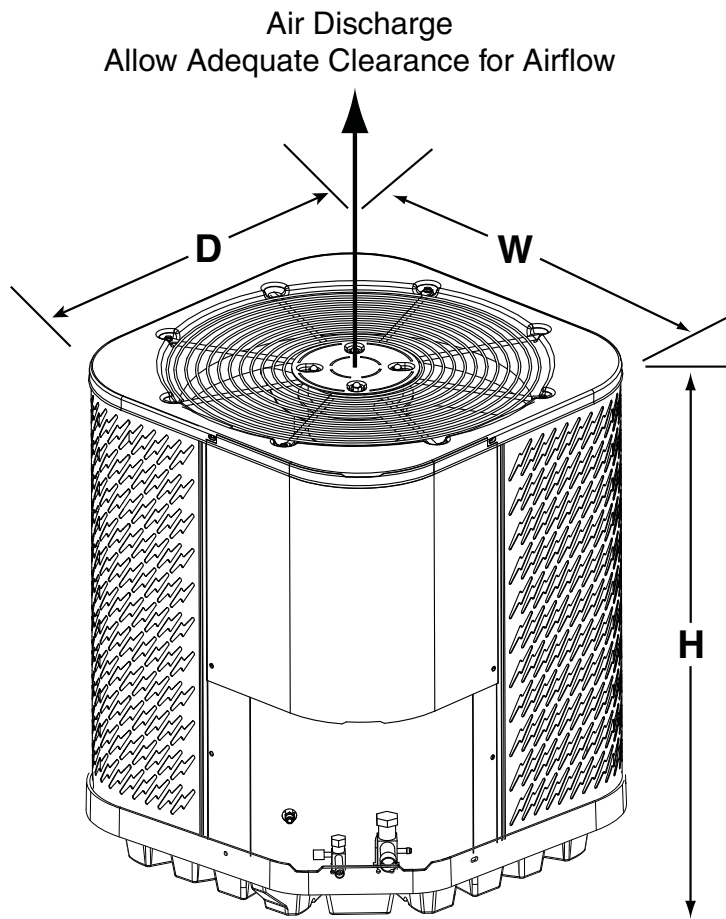
Nominal
Capacity
(000) BTU

Electrical Code
C = 208/230-60-3
D = 460-60-3

DIMENSIONS

HEAT PUMP OUTDOOR SECTION

JT4BD	036C/D	048C/D	060C/D
H	43	43	43
W	30-3/4	30-3/4	30-3/4
D	30-3/4	30-3/4	30-3/4



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

13 SEER — High Efficiency — Three Phase

Model No. JT4BD-			036C	048C	060C	036D	048D	060D
Electrical Data	Volts-Cycles-Phase (1)		208/230-60-3	208/230-60-3	208/230-60-3	460-60-3	460-60-3	460-60-3
	Total Amps		11.4	15.1	17	6.4	6.9	8.4
	Delay Fuse Max. (2)		20	30	35	15	15	15
	Min. Circuit Ampacity		14.1	18.5	20.9	7.8	8.5	10.4
Component Data	Coil	Area	25.4	25.4	25.4	25.4	25.4	25.4
		Rows-FPI	1-20	2-16	2-16	2-16	2-16	2-16
		Tube Dia.	3/8 O.D.	3/8 O.D.	3/8 O.D.	3/8 O.D.	3/8 O.D.	3/8 O.D.
	Fan Motor	Type	PSC	PSC	PSC	PSC	PSC	PSC
		Amps	1.0	1.4	1.4	0.6	0.7	0.7
		HP	1/4	1/4	1/4	1/5	1/4	1/4
	Fan Blade	Dia.-#Blades	24 in. - 3	24 in. - 3	24 in. - 3	24 in. - 3	24 in. - 3	24 in. - 3
		SCFM	3300	3800	3800	3300	3800	3800
	Compressor Data*	RLA	10.4	13.7	15.6	5.8	6.2	7.7
		LRA	73	83.1	110	38	41	52
Refrigerant Suction Line-Length/O.D. (all length of liquid line are 3/8" O.D.)		0-24 ft.	3/4"	7/8"	7/8"	7/8"	7/8"	
		25-39 ft.	7/8"	7/8"	1-1/8" (3)	1-1/8" (3)	1-1/8" (3)	1-1/8" (3)
		40-75 ft.	7/8"	7/8"	1-1/8" (3)	1-1/8" (3)	1-1/8" (3)	1-1/8" (3)
Refrigerant Charge (R-410A) in ounces for outdoor unit, indoor unit and 15' linset.			168	248	248	166	248	248
Weight Approximate (lbs.)		Net	181	280	290	290	290	290
		Ship	190	295	305	305	305	305

(1) Operating voltage range: 198v minimum - 253v maximum

(2) HACR type circuit breakers may be used

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

ACCESSORIES

COPPER WIRE SIZE — AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit Ampacity
200	150	100	50	
6	8	10	14	15
4	6	8	12	20
4	6	8	10	25
4	4	6	10	30
3	4	6	8	35
3	4	6	8	40
2	3	4	6	45
2	3	4	6	50

Wire Size based on N.E.C. for 60° type copper conductors.

Low Ambient Kit	918837
Low Pressure Switch	913551
Mammoth logo kit for GB5 air handlers and single phase package equipment	904196
Fan Delay Kit	911758
High Wind Kit	920900

SYSTEM HEATING & COOLING CAPACITIES

13 SEER — High Efficiency — Three Phase

Outdoor Unit	With This Coil + TDR							
Model Number JT4BD	Indoor TXV Coil + TDR	Cooling Btuh	SEER	EER	Heating Capacity BTUH @ 47°F	HSPF	COP	SCFM
036(C,D)	C6B(A,H)-X36(C,U)-(B,C)+TDR	35,600	13	12	36,000	8.0	3.6	1100
048(C,D)	C6B(A,H)-X48(C,U)-(C,D)+TDR	47,500	13	11.75	46,500	8.0	3.4	1675
060(C,D)	C6B(A,H)-X60(C,U)-C+KG7(*)-C+(*)SHE	57,500	13	12.2	54,500	8.0	3.4	1850
060(C,D)	C6B(A,H)-X60(C,U)-C+KG7T(*)-C	57,500	13	12.2	54,500	8.0	3.4	1850

Outdoor Unit	With This Air Handler								
Model Number JT4BD	GB5BM	Cooling Btuh	SEER	EER	Heating Capacity BTUH @ 47°F	HSPF	COP	Nominal CFM	Indoor Orifice (if required)
036(C/D)	X36K-(A,B)	35,400	13	11.8	36,000	8.0	3.5	1200	.073
048(C/D)	X48K-B	48,000	13	12.0	48,000	8.0	3.5	1600	.080
060(C/D)	X60K-C	59,000	13	11.7	58,000	8.0	3.4	1750	.089

See current AHRI Directory for certified combinations and ratings.

www.ahridirectory.org



226D-0609

O'Fallon, MO

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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. (06/09)