

TECHNICAL SPECIFICATIONS

JT5BD Series

High Efficiency Heat Pumps 13+ SEER Residential System 1.5 - 5 Ton Capacity

The JT5BD Series of heat pumps offers exceptional performance. The heat pump, when combined with our engineered coils or air handlers, offers a line of quality, split system heating and cooling equipment. The JT5BD is rated at 13 SEER and 8.0 HSPF when matched with our air handlers. Units are ideally sized for slab or rooftop mounting.



WARRANTY

- This product offers a 5-year parts warranty.
- 5-year compressor warranty

FEATURES and BENEFITS

- **Composite Base Pan:** Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- **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.
- **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.
- **Complete Metal Wrapper:** Protects the units coil from being damaged.
- **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.
- **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.
- **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:** 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

EX: JT5BD-036K

JS - Air Conditioner
JT - Heat Pump

Generation 1, 2, 3. etc.

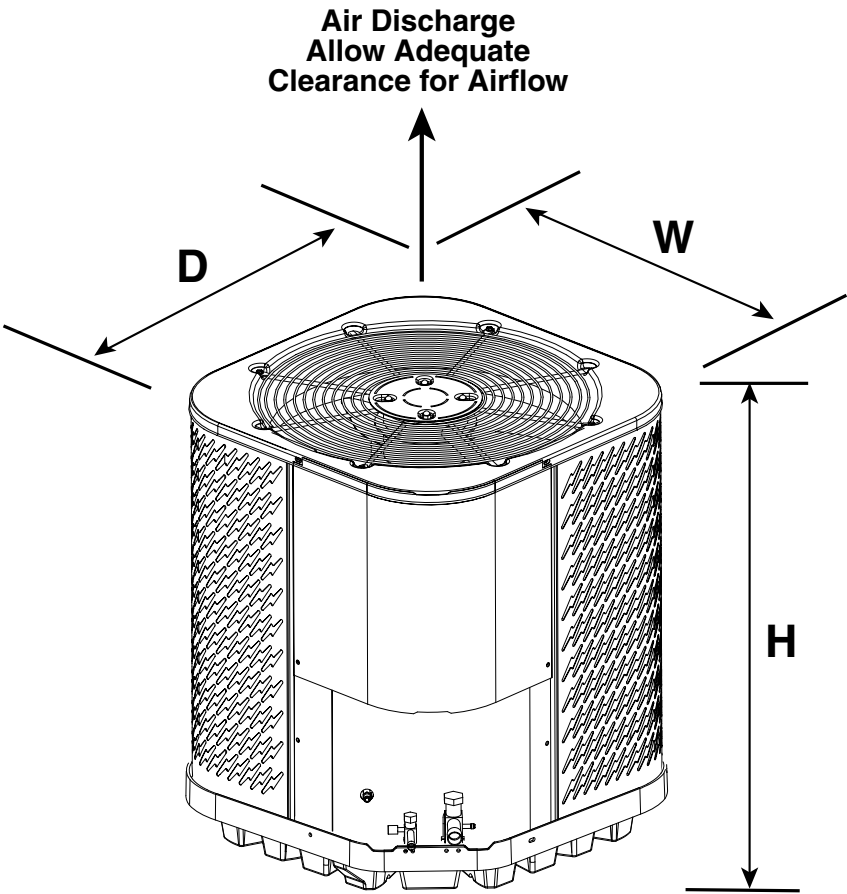
Product Identifier
BD = Braze 13 SEER

Nominal Capacity
(000) BTU

Revision
Electrical Code
K = 208/230-60-1

DIMENSIONS
HEAT PUMP OUTDOOR SECTION

JT5BD	018K	024KA	030KA	036K	042K	048K	060K
H	27	27	39	43	39	43	43
W	30-3/4	30-3/4	30-3/4	30-3/4	30-3/4	30-3/4	30-3/4
D	30-3/4	30-3/4	30-3/4	30-3/4	30-3/4	30-3/4	30-3/4



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

13+ SEER —Ultra High Efficiency — Single Phase

Model Number JT5BD-		018K	024KA	030KA	036K	042K	048K	060K
Electrical Data	Volts-Cycles-Phase (1)	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
	Total Amps	9.9	11.8	14.6	15.7	17.5	19.7	26.4
	Delay Fuse Max. (2)	20	25	30	30	35	40	50
	Min. Circuit Ampacity	12.1	14.5	18.0	19.4	21.6	24.3	32.6
Component Data	Coil	Area	15.17	15.17	22.88	25.42	22.88	25.42
		Rows-FPI	1 - 18	1 - 18	1 - 20	1 - 20	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	0.91	0.91	1.00	1.00	1.4	1.4
		HP	1/8	1/8	1/4	1/4	1/4	1/4
	Fan Blade	Dia-#						
		Blades	24" - 3	24" - 3	24" - 3	24" - 3	24" - 3	24" - 3
		SCFM	2370	2370	3000	3000	4000	4000
	Compressor Data	RLA	8.3	10.8	13.4	15.3	19.2	25.3
		LRA	40.3	56	68	87	112	146
Refrigerant suction line- Length/O.D. (Liq. Line All Lengths - 3/8" O.D.)	0-24 ft.	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"
	25-39 ft.	3/4"	3/4"	3/4"	7/8" (3)	7/8"	7/8"	1-1/8" (4)
	40-75 ft.	3/4"	3/4"	7/8" (3)	7/8" (3)	7/8"	1-1/8" (4)	1-1/8" (4)
Refrigerant charge in ounces (Outdoor unit, Indoor Unit 15' Line Set)		93	96	144	155	248	248	268
Weight	Net	166	171	190	204	252	276	285
	Approximate (lbs.) Ship	175	180	200	215	265	290	300

(1) Operating Voltage Range: 198v min. - 253v max.

(2) HACR type circuit breakers may be used.

(3) Requires 7/8" to 3/4" reducer from line to unit.

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

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.

Outdoor Thermostat - 913852

Two-stage logic provides ability to lock out electric strips down to balance point.

Time Delay Relay Kit (TDR) - 918476

Extreme Wind Condition Mounting Kit - 920900

Snow Stand Kit - 920636

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.

SYSTEM COOLING CAPACITIES

13 SEER — High Efficiency — Single Phase

Outdoor Unit	Indoor TXV Coil + TDR	Cooling Capacity BTUH	SEER	EER	Heating Capacity BTUH @47 F	HSPF	SCFM
018K	C6B(A,H)-T24(C,U)-A + MB6BM	18000	13.0	12.9	17500	8	600
018K	C6B(A,H)-T24(C,U)-B + MB6BM	18000	13.0	12.3	17500	8	600
024KA	C6B(A,H)-T24(C,U)-A + MB6BM	24000	13.0	12.2	22400	8	770
024KA	C6B(A,H)-T24(C,U)-B + MB6BM	24000	13.0	11.8	22400	8	770
030KA	C6B(A,H)-T30(C,U)-A + MB6BM	28000	13.0	11.7	28000	8	800
030KA	C6B(A,H)-T30(C,U)-B + MB6BM	28000	13.0	11.7	28000	8	800
036K	C6B(A,H)-T36(C,U)-B + MB6BM	35000	13.0	12	34200	8	1150
036K	C6B(A,H)-T36(C,U)-C + MB6BM	35000	13.0	11.7	34800	8	1150
042K	C6B(A,H)-T42(C,U)-B + MB6BM	40000	13.0	12	40000	8	1350
042K	C6B(A,H)-T42(C,U)-C + MB6BM	40000	13.0	12	40000	8	1350
048K	C6B(A,H)-T48(C,U)-C + MB6BM	47500	13.0	12	46000	8	1625
048K	C6B(A,H)-T48(C,U)-D + MB6BM	47500	13.0	12	46000	8	1625
060K	C6B(A,H)-T60(C,U)-C + MB6EM	57000	13.0	11.6	56500	7.9	1840

Outdoor Unit	Indoor TXV Coil + TDR	Cooling Capacity BTUH	SEER	EER	Heating Capacity BTUH @47 F	HSPF	SCFM
018K	C6B(A,H)-T24(C,U)-A + TDR	18000	13.0	12.5	16800	7.9	585
024KA	C6B(A,H)-T24(C,U)-A + TDR	24000	13.0	11.6	22200	7.8	750
030KA	C6B(A,H)-T30(C,U)-A + TDR	28000	13.0	11.6	27400	7.8	1000
036K	C6B(A,H)-T36(C,U)-B + TDR	35000	13.0	11.85	35600	8	1150
042K	C6B(A,H)-T42(C,U)-B + TDR	40000	13.0	11.95	40000	8	1350
048K	C6B(A,H)-T48(C,U)-C + TDR	47000	13.0	12.1	45500	8	1625

Outdoor Unit	Indoor TXV Air Handler GB5B(M,V)-	Cooling Capacity BTUH	SEER	EER	Heating Capacity BTUH @47 F	HSPF	SCFM
018K	T24K-A	18,000	13.0	12.4	17,700	7.8	600
018K	T24K-B	18,000	13.0	12.4	17,800	8.0	600
024KA	T24K-A	22,000	13.0	11.8	22,000	7.7	750
024KA	T24K-B	22,000	13.0	11.8	22,000	8.0	750
030KA	T30K-A	29,000	13.0	12.1	28,000	8.0	870
030KA	T30K-B	29,000	13.0	12.1	28,600	8.0	870
036K	T36K-B	35,400	13.0	11.7	36,000	8.0	1,140
042K	T42K-B	40,000	13.0	11.8	40,000	8.0	1,350
048K	T48K-C	45,500	13.0	11.3	47,500	8.0	1,500
060K	T60K-C	57,000	13.0	11.6	60,000	8.0	1,600

Air handlers and coils used in tables are designed and manufactured by NORDYNE.



GENERAL TERMS OF LIMITED WARRANTY

NORDYNE will furnish a replacement for any part of this product which fails in normal use and service within the first five years of installation, in accordance with the terms of the warranty.

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

NORDYNE
COMPLETE COMFORT. GENUINE VALUE.

8000 Phoenix Parkway | O'Fallon MO 63368-3827

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