

## TECHNICAL SPECIFICATIONS

# JT5BD Series

## High Efficiency R22 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.



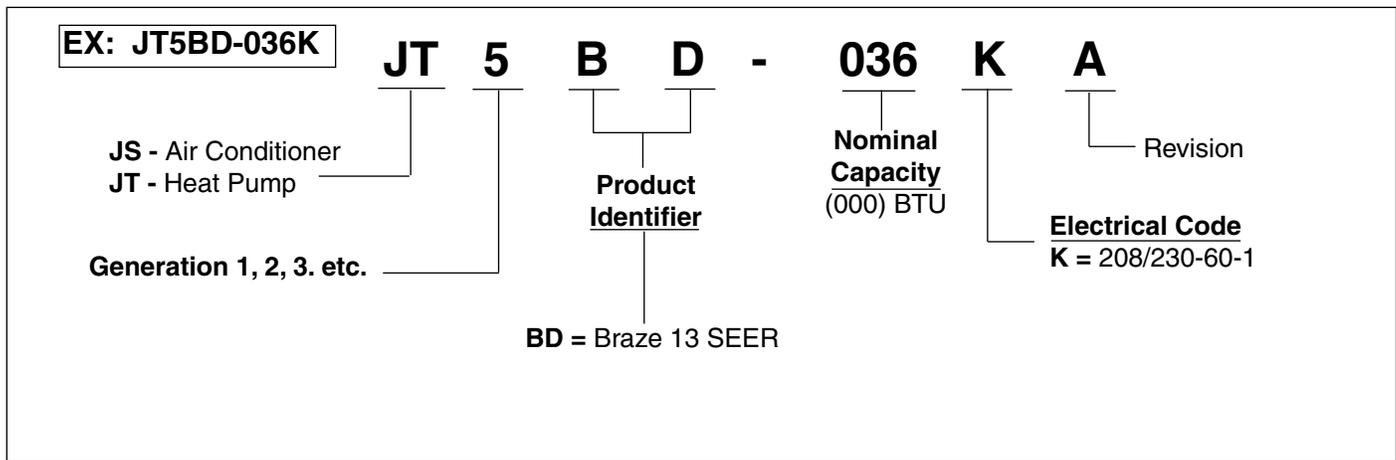
## WARRANTY

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

## FEATURES and BENEFITS

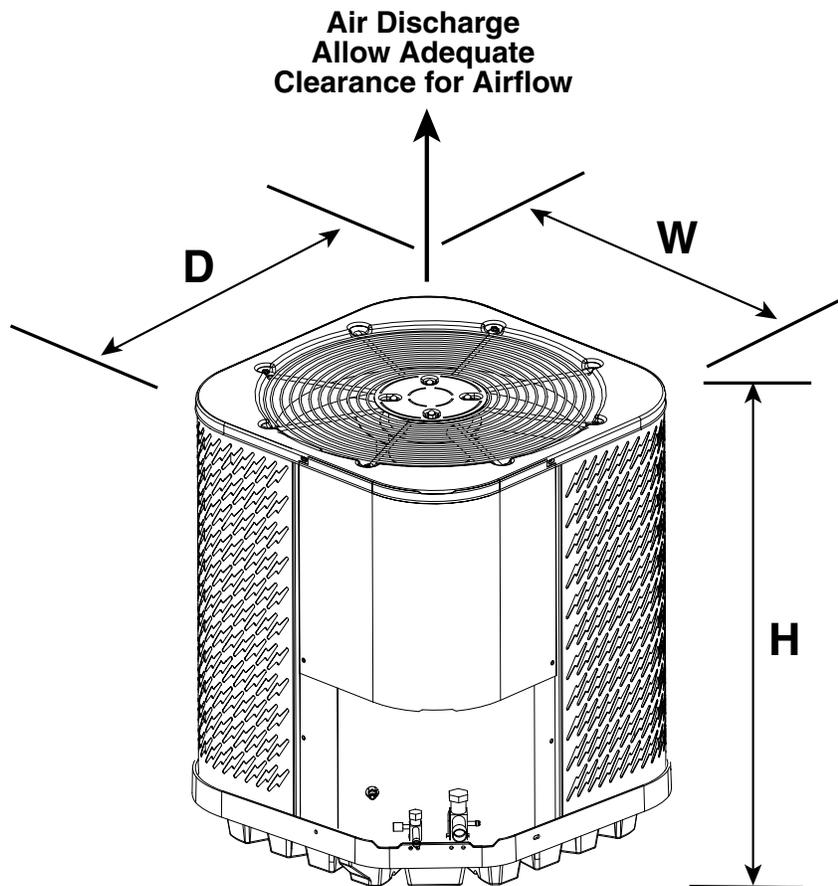
- **Composite Base Pan:** Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- **Durable, Attractive Cabinet:** Designed using galvanized steel with a polyester urethane finish. The 950 hour salt spray finish is 1.5 mil thick and resists corrosion 50% better 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.
- **Heat Pump:** Shipped with dry nitrogen charge.

# MODEL IDENTIFICATION CODES



## 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	25.42
		Rows-FPI	1 - 18	1 - 18	1 - 20	1 - 20	2 - 16	2 - 16	2 - 16
		Tube Dia	3/8" O.D.	3/8" O.D.					
	Fan Motor	Type	PSC	PSC	PSC	PSC	PSC	PSC	PSC
		Amps	0.91	0.91	1.00	1.00	1.00	1.4	1.4
		HP	1/8	1/8	1/4	1/4	1/4	1/4	1/4
	Fan Blade	Dia-# Blades	24" - 3	24" - 3	24" - 3	24" - 3	24" - 3	24" - 3	24" - 3
		SCFM	2370	2370	3000	3000	3000	4000	4000
	Compressor Data	RLA	8.3	10.8	13.4	15.3	19.2	19.8	25.3
		LRA	40.3	56	68	87	112	105	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)	
Weight Approximate (lbs.)	Net	166	171	190	204	252	276	285	
	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.

(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.

### 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

# SYSTEM COOLING CAPACITIES

## 13+ SEER —High Efficiency — Single Phase

Model Number	Coil Model Number	Cooling Capacity	SEER	EER	Heating Capacity BTUH @ 47F	HSPF	SCFM
JT5BD-018K	GB5B(M,V)-024K-B+LLS	18000	13	12.4	17800	8	600
JT5BD-024KA	GB5BM-025K-B+LLS	24000	13	12.4	22400	7.95	750
JT5BD-030KA	GB5BM-030K-B+LLS	29000	13	12.1	28600	8	870
JT5BD-036K	GB5B(M,V)-036K-B+LLS	35400	13	11.66	36000	8	1140
JT5BD-042K	GB5B(M,V)-042K-B+LLS	40000	13	11.84	40000	8	1350
JT5BD-048K	GB5B(M,V)-049K-C+LLS	45500	13	11.32	44000	8	1500
JT5BD-060K	GB5B(M,V)-060K-C+LLS	56000	13	11.6	56000	7.8	1600



### 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**

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