## **ET5BD Series**

## High Efficiency Heat Pumps 13+ SEER Residential System 1.5 - 5.0 Ton Capacity

The ET5BD 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 ET5BD is rated at 13 SEER and 8.0 HSPF when matched with our air handlers.



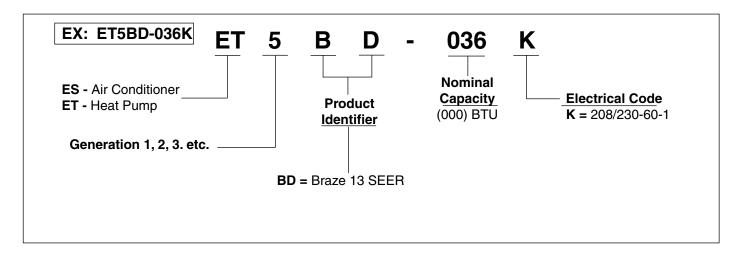
## **WARRANTY**

- This product offers a 10-year all-parts warranty.
- This product offers a 1-year Quality Pledge to replace the unit if the compressor fails within the first year of operation, to the original owner, when installed a matched indoor air handler or indoor coil.
- Consumer product registration required to receive this extended warranty and Quality Pledge. See current warranty document or visit our consumer web site listed on the back of this document for warranty details.

#### **FEATURES and BENEFITS**

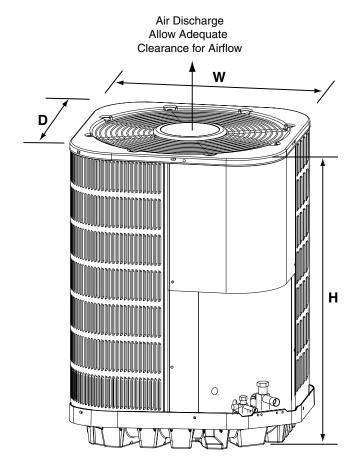
- Quality Compressor: State of the art Copeland scroll compressor is standard equipment.
- **Durable, Attractive Cabinet:** Designed using galvanized steel with a polyester urethane finish. The 950 hour salt spray finish is 1.5 mil thick and resists corrosion 50% better than comparable units.
- Composite Base Pan: Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- 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.
- Louvered Condenser Guard: Durable metal guard protects the coil from yard hazards and extreme weather.
- Time / Temperature Defrost: A reliable, industry standard control offers various time settings to meet any type climate.
- RemovableTop Grille Assembly: Allows ease of service from the top without disconnecting fan motor leads.
- **Swept-Wing Fan Blade:** Designed to significantly reduce unwanted noise.
- Low Pressure Switch: Loss of charge protection ensures long compressor life. Auto-reset feature prevents nuisance service visits.
- 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**



# DIMENSIONS HEAT PUMP OUTDOOR SECTION

ET5BD	018K	024K	030K	036K	042K	048K	060K
Н	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 — High Efficiency — Single Phase

Model	Number E	T5BD-	018K	024K	030K	036K	042K	048K	060K
	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
Electrical	Total Amps	Total Amps		11.8	13.2	15.7	17.5	19.7	26.4
Data	Delay Fuse I	Max. <i>(2)</i>	20	25	25	30	35	40	50
	Min. Circuit A	Ampacity	12.1	14.5	16.2	19.4	21.6	24.3	32.6
		Area	15.17	15.17	22.88	25.42	22.88	25.42	25.42
	Coil	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.	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.
		Туре	PSC	PSC	PSC	PSC	PSC	PSC	PSC
C = m = m = m +	Fan Motor	Amps	0.91	0.91	1.00	1.00	1.00	1.4	1.4
Component		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	RLA	10	12	14	16.4	18.4	20.4	28
	Data	LRA	41	54	67	83	95	109	148
Refrigerant	suction line-	0-24 ft.	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"
	(Liq. Line All	25-39 ft.	3/4"	3/4"	3/4"	7/8" <i>(3)</i>	7/8"	7/8"	1-1/8" <i>(4)</i>
Lengths - 3/	8″ O.D.)	40-75 ft.	3/4"	3/4"	7/8" <i>(3)</i>	7/8" <i>(3)</i>	7/8"	208/230-60-1 19.7 40 24.3 25.42 2 - 16 3/8" O.D. PSC 1.4 1/4 24" - 3 4000 20.4 109 7/8"	1-1/8" <i>(4)</i>
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	e (lbs.)	Ship	175	180	200	215	265	290	300

<sup>(1)</sup> Operating Voltage Range: 198v min. — 253v max.

## **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 - 913235

Two-stage logic provides ability to lock out electric strips down to balance point and bring on in stages.

#### Time Delay Relay Kit (TDR) - 911758

	COPPER WIRE SIZE — AWG (1% Voltage Drop)								
Supply Wire Length-Feet   Supply Circui									
200	150	100	50	Ampacity					
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  $60^{\circ}$  type copper conductors.

<sup>(2)</sup> HACR Type Circuit Breakers may be used.

<sup>(3) 7/8&</sup>quot; to 3/4" reducer required.

<sup>(4) 1 1/8&</sup>quot; to 7/8" reducer required.

### SYSTEM HEATING & COOLING CAPACITIES

### 13+ SEER — High Efficiency — Single Phase

Outdoor	Indoor	Cooling Capacity			Heating Capacity		
Unit	TXV Coil + TDR	BTUH	SEER	EER	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	12.9	17500	8	600
024K	C6B(A,H)-T24(C,U)-A + MB6BM	24000	13.0	12.2	22400	8	770
024K	C6B(A,H)-T24(C,U)-B + MB6BM	24000	13.0	12.2	22400	8	770
030K	C6B(A,H)-T30(C,U)-A + MB6BM	28000	13.0	11.7	28000	8	800
030K	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	35600	8	1150
036K	C6B(A,H)-T36(C,U)-C + MB6BM	35000	13.0	12	35600	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	8	1840
060K	C6B(A,H)-T60(C,U)-D + MB6EM	57000	13.0	11.6	56500	8	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	17200	8	585
024K	C6B(A,H)-T24(C,U)-A + TDR	24000	13.0	11.6	22200	8	750
030K	C6B(A,H)-T30(C,U)-A + TDR	28000	13.0	11.6	27800	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 B5B(M,V)-	Cooling Capacity BTUH	SEER	EER	Heating Capacity BTUH @47 F	HSPF	SCFM
018K	T24K-A		13.0	12.4	17.800	8.0	600
UIBN	124N-A	18,000	13.0	12.4	17,800	8.0	600
018K	T24K-B	18,000	13.0	12.4	17,800	8.0	600
024K	T24K-A	22,000	13.0	11.8	22,000	8.0	750
024K	T24K-B	22,000	13.0	11.8	22,000	8.0	750
030K	T30K-A	29,000	13.0	12.1	28,600	8.0	870
030K	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

The ratings shown above are for the highest sales volume combination. Additional ratings, including mix-matches may be found in the current edition of the AHRI Directory of Certified Unitary Equipment. Verification of ratings not printed in the current edition of the Directory may be obtained online at the AHRI website, www.ahridirectory.org.











#### **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 ten 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.

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Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A (08/2009)