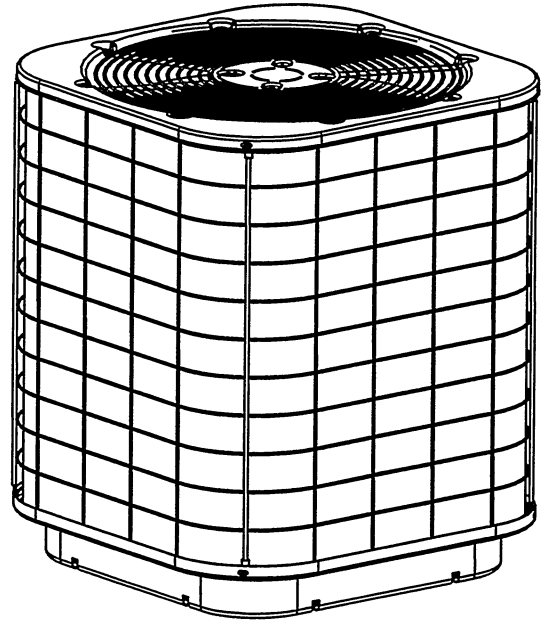

TECHNICAL SPECIFICATIONS

T3BC Series Extra High Efficiency Heat Pumps 12 SEER Residential System 1-1/2 – 5 Ton Capacity

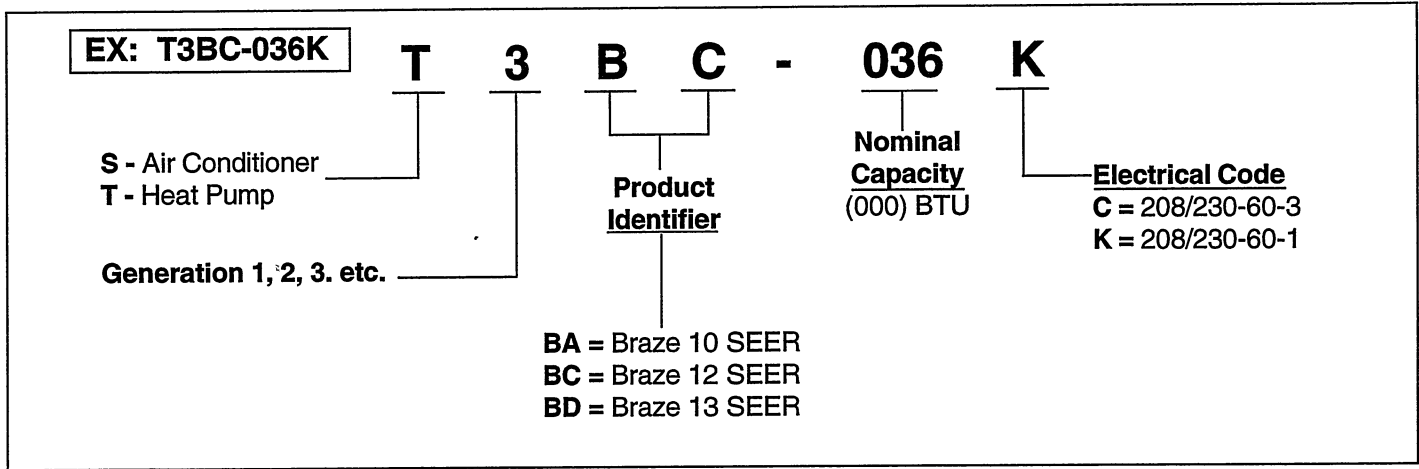
The T3BC Series of heat pumps offers exceptional performance from a small, compact package. The heat pump, when combined with our engineered coils or air handlers, offers a full line of quality, split system heating and cooling equipment. Units are ideally sized for slab or rooftop mounting in single, multifamily, and light commercial applications.

FEATURES and BENEFITS

- **Designed using galvanized steel** – with a polyester urethane coat finish. The 950 hour salt spray finish 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.
- **Plastic Coated Coil Guard** – A wire guard that will never rust and protects the units coil from being damaged by balls, lawnmowers, etc.
- **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.
- **Hail Guard** – Plastic mesh protects coil from hail damage.
- **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.
- **2-1/2" Pedestal Base** – The sturdy base keeps the bottom of the coil out of harms way. Secondly, the base has weep holes along the edge to allow the water from the defrosting coil and rain to flow away from the unit.
- **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. All 12 seer H.P. have scroll compressors.
- **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.
- **6 Year Limited All Parts Warranty** – The best in the industry and has proven to be a major benefit to the consumer.

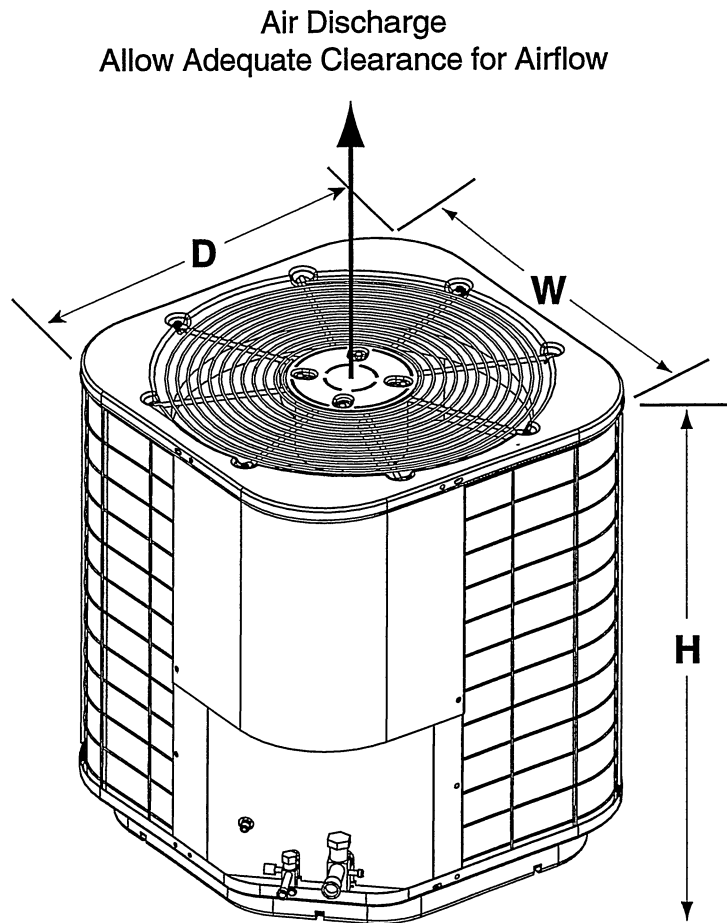


MODEL IDENTIFICATION CODES



DIMENSIONS HEAT PUMP OUTDOOR SECTION

T3BC	018	024	030	036	042	048	060
H	26 1/2	30 1/2	34 1/2	38 1/2	42 1/2	38 1/2	42 1/2
W	30 1/2	30 1/2	30 1/2	30 1/2	30 1/2	30 1/2	30 1/2
D	30 1/2	30 1/2	30 1/2	30 1/2	30 1/2	30 1/2	30 1/2



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

12 SEER — High Efficiency — Single Phase

Model No. T3BC		018	024	030	036	042	048	060	
Electrical	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	
Data	Total Amps	9.7	11.6	13.6	17.4	19.4	20.7	30.3	
	Delay Fuse Max. (2)	20	20	25	35	40	40	60	
	Min. Circuit Ampacity	11.8	14.2	16.6	21.4	23.9	25.5	37.5	
Component Data	Coil	Area	15.3	17.9	20.4	23.0	25.5	23.0	25.5
		Rows-FPI	1-18	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.	3/8 O.D.
	Fan Motor	Type	PSC	PSC	PSC	PSC	PSC	PSC	PSC
		Amps	1.4	1.4	1.4	1.4	1.5	1.5	1.5
		Watts-HP	245	245	245	245	300	300	300
	Fan Blade	Dia.-#Blades	24 in. - 2	24 in. - 2	24 in. - 2	24 in. - 2	24 in. - 3	24 in. - 3	24 in. - 3
		SCFM	3300	3300	3300	3300	4000	4000	4000
	Compressor Data*	RLA	8.3	10.2	12.2	16.0	17.9	19.2	28.8
		LRA	47	56	67	88	104	137	169
Refrigerant Suction Line- Length/O.D. (Liq. Line All Lengths - 3/8" O.D.)	15 - 24 ft.	5/8" (3)	5/8" (3)	3/4"	3/4"	3/4"	7/8"	7/8"	
	25 - 39 ft.	3/4"	3/4"	3/4"	3/4"	7/8" (4)	7/8"	1 1/8" (5)	
	40 - 75 ft.	3/4"	3/4"	3/4"	7/8" (4)	7/8" (4)	7/8"	1 1/8" (5)	
Refrigerant Charge R-22 Ounces	(Outdoor unit, Indoor Unit, 15' Line Set)	107	112	133	146	162	240	264	
Weight Approximate (lbs.)	Net	162	170	178	188	204	253	282	
	Ship	174	182	190	200	216	265	294	

* Values shown are most severe and may vary slightly depending on the make of compressor supplied.

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

(2) HACR type circuit breakers may be used.

(3) Requires 3/4" to 5/8" reducer from unit to line.

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

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

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.

Snow Stand

Plastic-coated, molded wire stand which elevates units 7-1/4" above ground level.

913145 - (018 through 060) Shipped six (6) per box.

Outdoor Thermostat - 913235

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

Fan Delay Kit (TDR)

911758 - 80-second fan delay

COPPER WIRE SIZE — AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit
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° type copper conductors.

SYSTEM HEATING & COOLING CAPACITIES

12 SEER — Extra High Efficiency — Single Phase

Outdoor Unit	Indoor Unit							
Model Number T3BC-	Model Number C3BA-	Cooling Btuh	SEER	Heating Btuh@47°	Heating Btuh@17°	HSPF	Nominal SCFM	Required Indoor Orifice
018K	036C/U-A (2)	18,200	12.0	18,000	9,800	7.1	675	.057 (1)
024K	036C/U-A (2)	24,000	12.0	22,400	12,800	7.2	700	.065 (1)
024K	030C/U-B	24,000	12.0	22,400	12,800	7.2	700	.065 (1)
030K	036C/U-A+TDR (2)	28,600	12.0	28,400	16,200	7.6	900	.067 (3)
030K	036C/U-B+TDR (2)	28,600	12.0	28,400	16,200	7.6	900	.067 (3)
036K	042C/U-B	34,600	12.0	34,600	19,700	7.6	1100	.077 (1)
042K	048C/U-B+TDR (2)	40,500	12.0	40,500	23,100	7.6	1300	.085 (1)
042K	048C/U-C+TDR	40,500	12.0	40,500	23,100	7.6	1300	.085 (1)
048K	060C/U-C (2)	48,000	12.0	48,000	27,400	7.6	1600	.093 (3)
060K	060C-C+TDR (2)	57,000	12.0	57,000	32,800	7.6	1700	.099 (1)

Outdoor Unit	Indoor Unit							
Model Number T3BC-	Model Number B3B(M,V)-	Cooling Btuh	SEER	Heating Btuh@47°	Heating Btuh@17°	HSPF	Nominal SCFM	Required Indoor Orifice
018K	030K-A	18,200	12.0	17,600	9,800	7.1	675	.057 (1)
024K	030K-A	24,000	12.0	22,400	12,800	7.2	700	.065 (1)
024K	030K-B	24,000	12.0	22,400	12,800	7.2	700	.065 (1)
030K	030K-A+TDR	28,600	12.0	28,400	16,200	7.6	900	.067 (1)
030K	036K-B+TDR	28,600	12.0	28,400	16,200	7.6	900	.067 (1)
036K	042K-B	34,600	12.0	34,600	19,700	7.6	1100	.077 (1)
042K	048K-B+TDR	40,500	12.0	40,500	23,100	7.6	1300	.085 (1)
048K	060K-C	48,000	12.0	48,000	27,400	7.6	1600	.093 (1)
060K	060K-C+TDR	57,500	12.0	58,000	32,800	7.6	1700	.099 (1)

- (1) Field supplied.
- (2) Available as C3BH multi-position
- (3) Factory Installed

See the current ARI Directory for certified combinations and ratings.



As an Energy Star Partner, NORDYNE has determined that our selected products meet the Energy Star guidelines for energy efficiency.



CERTIFICATION APPLIES ONLY
WHEN THE COMPLETE
SYSTEM IS LISTED
WITH ARI

327A-0600 (Replaces 327A-1299)

St. Louis, MO

NORDYNE

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. (06/00)