

QUICK REFERENCE DATA

NT4BD Series - Residential Split System Heat Pump

MODEL NUMBER: NT4BD –			018K	024K	030K	036K	042K	048K	060K
Electrical Data	Volts-Cycles-Phase (1)		208/230-60-1						
	Total Amps		10	14.4	15.1	17.6	19.3	23.2	27.6
	Delay Fuse Max. (2)		20	30	30	35	40	45	50
	Min. Circuit Ampacity		12.2	17.8	18.6	21.8	23.8	28.6	34.2
Condenser Data	Coil	Area	17.5	20.3	22.8	25.4	22.8	25.4	25.4
		Rows-FPI	1-20	1-20	1-20	1-20	2-16	2-16	2-16
		Tube Dia	3/8" O.D.						
	Fan Motor	Type	PSC						
		Amps	1.0	1.0	1.0	1.0	1.4	1.4	1.4
		Watts-HP	0.25						
	Fan Blade	Dia-# Blades	24"- 2						
		SCFM	3000	3200	3300	3400	3700	3800	3800
	Compressor Data	RLA	9	13.4	14.1	16.6	17.9	21.8	26.2
		LRA	48	58.3	73	79	112	117	134
Refrigerant suction line O.D NOTE: Liquid line is 3/8" O.D. for entire length.		0-24 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	7/8"
		25-39 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (3)
		40-75 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (3)
Refrigerant charge R-410A in ounces for outdoor unit & 15' lineset.			98	130	140	158	243	240	248
Approximate Weight (lbs.)		Net	166	171	176	181	247	280	290
		Ship	175	180	185	190	260	295	305

(1) Operating Voltage Range: 187v min. — 253v max.

(2) HACR Type Circuit Breakers may be used.

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

Table 1. Electrical Specifications & Physical Data

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
2	3	4	6	55
1	2	3	4	60

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

Table 2. Copper Wire Size

Thermostat Wire Gauge	Recommended T-Stat Wire Unit to T-Stat (Length in FT)	
	2-Wire (Heating)	5-Wire (Heating/Cooling)
24	55	25
22	90	45
20	140	70
18	225	110

Table 3. Thermostat Wire Gauge

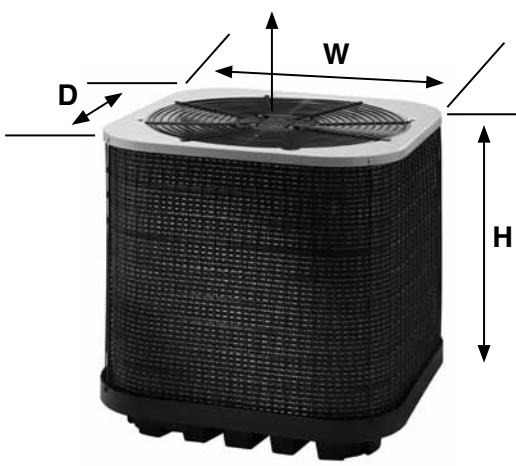
DO NOT OBSTRUCT TOP OF UNIT Allow adequate clearance for airflow			
			
MODEL NUMBER NT4BD –	HEIGHT (H)	WIDTH (W)	DEPTH (D)
018K	31"	30 3/4"	30 3/4"
024K	35"	30 3/4"	30 3/4"
030K	39"	30 3/4"	30 3/4"
036K	43"	30 3/4"	30 3/4"
042K	39"	30 3/4"	30 3/4"
048K	43"	30 3/4"	30 3/4"
060K	43"	30 3/4"	30 3/4"

Table 4. Unit Dimensions

Instructions:

1. Find the column for the model of outdoor unit that is being installed.
2. Find the row for the model of the indoor unit that is being installed.
3. Find the cell in the table in which this row and column meet. In this cell the appropriate orifice / TXV and charge addition for this match are listed. If the text in this cell is BOLD, then a change of orifice is necessary.
4. If a change in restrictor is necessary, then the appropriate restrictor will already be supplied with the outdoor unit.

Examples:

- For the NT4BD-018K / B5BMM024K-B match, the restrictor will need to be changed to the .053" and 14 ounces of additional charge will need to be added. (CHANGE IN CHARGE AND ORIFICE)
- For the NT4BD-048K / B6EMMX48K-C match, the appropriate TXV is the 669852 and no additional charge is necessary. (NO CHANGES ARE NECESSARY)

ID Restrictor Installed With ID Unit	MODEL NUMBER: NT4BD –		018K	024K	030K	036K	042K	048K	060K
	ID Restrictor Supplied With OD Unit		0.053	0.055				0.079	0.087
	OD Restrictor Installed with OD Unit		0.035	0.041	0.048	0.055	0.055	0.060	0.068
	Outdoor Unit BOM Charge (Oz.)		98	130	140	158	243	240	248
	MODELS		SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ)					
	B4VM								
	B4VM-X24K-A	669564	669564 / 14	669564 / 8	--	--	--	--	--
	B4VM-X24K-B	669564	669564 / 14	669564 / 8	--	--	--	--	--
	B4VM-X30K-A	669565	--	--	669565 / 5	--	--	--	--
	B4VM-X30K-B	669565	--	--	669565 / 5	--	--	--	--
	B4VM-X36K-B	669566	--	--	--	669566 / 8	--	--	--
	B4VM-X48K-B	669568	--	--	--	--	669568 / 0	--	--
	B4VM-X48K-C	669568	--	--	--	--	669568 / 0	669568 / 8	--
	B4VM-X60K-C	669578	--	--	--	--	--	--	669578 / 0
	GB5BM-0								
	GB5BM-024K-A	0.055	0.053 / 14	0.055 / 8	--	--	--	--	--
	GB5BM-024K-B	0.055	0.053 / 14	0.055 / 8	--	--	--	--	--
	GB5BM-030K-A	0.065	--	--	0.065 / 5	--	--	--	--
	GB5BM-030K-B	0.065	--	0.055 / 8	0.065 / 5	--	--	--	--
	GB5BM-036A-B	0.073	--	--	--	0.073 / 8	--	--	--
	GB5BM-036K-B	0.073	--	--	--	0.073 / 8	--	--	--
	GB5BM-042K-B	0.077	--	--	--	--	0.077 / 0	--	--
	GB5BM-048K-C	0.080	--	--	--	--	--	0.080 / 8	--
	GB5BM-060K-C	0.089	--	--	--	--	--	--	0.089 / 0
	GB5BMMO								
	GB5BMM024K-A	0.055	0.053 / 14	0.055 / 0	--	--	--	--	--
	GB5BMM024K-B	0.055	0.053 / 14	0.055 / 0	--	--	--	--	--
	GB5BMM030K-A	0.062	--	--	0.062 / 0	--	--	--	--
	GB5BMM030K-B	0.062	--	--	0.062 / 0	--	--	--	--
	GB5BMM036K-B	0.067	--	--	--	0.067 / 0	--	--	--
	GB5BMM042K-B	0.074	--	--	--	--	0.074 / 5	--	--
	GB5BMM048K-B	0.079	--	--	--	--	--	0.079 / 8	--
	GB5BMM048K-C	0.079	--	--	--	--	--	0.079 / 8	--
	GB5BMM060K-C	0.087	--	--	--	--	--	--	0.087 / 0
	B5BM-X								
	B5B(M,V)-X24K-A	669564	669564 / 14	669564 / 8	--	--	--	--	--
	B5B(M,V)-X24K-B	669564	669564 / 14	669564 / 8	--	--	--	--	--
	B5B(M,V)-X30K-A	669565	--	--	669565 / 5	--	--	--	--
	B5B(M,V)-X30K-B	669565	--	669565 / 8	669565 / 5	--	--	--	--
	B5B(M,V)-X36K-B	669566	--	--	--	669566 / 8	--	--	--
B5B(M,V)-X42K-B	669567	--	--	--	--	669567 / 0	--	--	
B5B(M,V)-X48K-B	669568	--	--	--	--	--	669568 / 8	--	
B5B(M,V)-X48K-C	669568	--	--	--	--	--	669568 / 8	--	
B5B(M,V)-X60K-C	669578	--	--	--	--	--	--	669578 / 0	

NOTES:

- The charges listed are only valid for the standard 15' lineset.
- Numbers listed as 0.*** are restrictor diameters, while numbers listed as 669*** are TXV part numbers.

Table 5. Restrictor or TXV / Charge Addition (Oz)

Instructions:

1. Find the column for the model of outdoor unit that is being installed.
2. Find the row for the model of the indoor unit that is being installed.
3. Find the cell in the table in which this row and column meet. In this cell the appropriate orifice / TXV and charge addition for this match are listed. If the text in this cell is BOLD, then a change of orifice is necessary.
4. If a change in restrictor is necessary, then the appropriate restrictor will already be supplied with the outdoor unit.

Examples:

- For the NT4BD-018K / B5BMM024K-B match, the restrictor will need to be changed to the .053" and 14 ounces of additional charge will need to be added. (CHANGE IN CHARGE AND ORIFICE)
- For the NT4BD-048K / B6EMMX48K-C match, the appropriate TXV is the 669852 and no additional charge is necessary. (NO CHANGES ARE NECESSARY)

ID Restrictor Installed With ID Unit	MODEL NUMBER: NT4BD –		018K	024K	030K	036K	042K	048K	060K
	ID Restrictor Supplied With OD Unit		0.053	0.055				0.079	0.087
	OD Restrictor Installed with OD Unit		0.035	0.041	0.048	0.055	0.055	0.060	0.068
	Outdoor Unit BOM Charge (Oz.)		98	130	140	158	243	240	248
	MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ)						
	B5BW								
	GB5BW-024K(*)	0.057 [†]	0.050 / 14	0.057 / 8	--	--	--	--	--
	GB5BW-030K(*)	0.063 [#]	0.050 / 14	0.057 / 8	0.065 / 5	--	--	--	--
	B6BMMO								
	B6BMM024K-A	0.055	0.053 / 14	0.055 / 0	--	--	--	--	--
	B6BMM024K-B	0.055	0.053 / 14	0.055 / 0	--	--	--	--	--
	B6BMM030K-A	0.062	--	--	0.062 / 0	--	--	--	--
	B6BMM030K-B	0.062	--	--	0.062 / 0	--	--	--	--
	B6BMM036K-B	0.067	--	--	--	0.067 / 0	--	--	--
	B6BMM042K-B	0.074	--	--	--	--	0.074 / 5	--	--
	B6BMM048K-B	0.079	--	--	--	--	--	0.079 / 8	--
	B6BMM048K-C	0.079	--	--	--	--	--	0.079 / 8	--
	B6BMM060K-C	0.087	--	--	--	--	--	--	0.087 / 0
	B6EM								
	B6EMMX24K-A	669564	669564 / 0	669564 / 0	--	--	--	--	--
	B6EMMX24K-B	669564	669564 / 0	669564 / 0	--	--	--	--	--
	B6EMMX30K-A	669565	--	--	669565 / 9	--	--	--	--
	B6EMMX30K-B	669565	--	--	669565 / 9	--	--	--	--
	B6EMMX36K-B	669566	--	--	--	669566 / 3	--	--	--
	B6EMMX42K-B	669567	--	--	--	--	669567 / 0	--	--
	B6EMMX48K-C	669852	--	--	--	--	669852 / -32 [†]	669852 / 0	--
	B6EMMX60K-C	669578	--	--	--	--	--	--	669578 / 5
	C5								
	C5(Q,D)A-X25U-B	669564	669564 / 14	669564 / 8	--	--	--	--	--
	C5(Q,D)A-X30U-B	669565	--	--	669565 / 5	--	--	--	--
	C5(Q,D)A-X36U-B	669566	--	--	--	669566 / 8	--	--	--
	C5(Q,D)A-X37U-B	669566	--	--	--	669566 / 8	--	--	--
	C6								
	C6B(A,H)-X24(C,U)-A	669564	669564 / 14	669564 / 8	--	--	--	--	--
	C6B(A,H)-X24(C,U)-B	669681	669681 / 14	669681 / 8	--	--	--	--	--
	C6B(A,H)-X30(C,U)-A	669565	--	--	669565 / 5	--	--	--	--
	C6B(A,H)-X30(C,U)-B	669682	--	--	669682 / 5	--	--	--	--
	C6B(A,H)-X30(C,U)-C	669682	--	--	669682 / 5	--	--	--	--
	C6B(A,H)-X35(C,U)-B	669683	--	--	--	669683 / 8	--	--	--
	C6B(A,H)-X36(C,U)-B	669683	--	--	--	669683 / 8	--	--	--
	C6B(A,H)-X36(C,U)-C	669683	--	--	--	669683 / 8	--	--	--
	C6B(A,H)-X42(C,U)-B	669684	--	--	--	--	669684 / 0	--	--
	C6B(A,H)-X42(C,U)-C	669684	--	--	--	--	669684 / 0	--	--
	C6B(A,H)-X42(C,U)-D	669684	--	--	--	--	669684 / 0	--	--
	C6B(A,H)-X47(C,U)-C	669852	--	--	--	--	--	669852 / 8	--
	C6B(A,H)-X48(C,U)-C	669852	--	--	--	--	--	669852 / 8	--
C6B(A,H)-X48(C,U)-D	669852	--	--	--	--	--	669852 / 8	--	

NOTES:

- The charges listed are only valid for the standard 15' lineset.
- Numbers listed as 0.*** are restrictor diameters, while numbers listed as 669*** are TXV part numbers.
- ‡ This is a charge reduction. Remove 32 ounces from the initial charge that came with the unit.
- † The GB5BW-024K unit is supplied with an extra 0.050 restrictor for use with the T4BD-018K.
- # The GB5BW-030K unit is supplied with extra 0.050, 0.057, and 0.065 restrictors.

Table 5. Restrictor or TXV / Charge Addition (Oz) - Continued

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Specifications & illustrations subject to change without notice or incurring obligations.
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