

# QUICK REFERENCE DATA

## DS4BD Series Residential Split System Air Conditioner

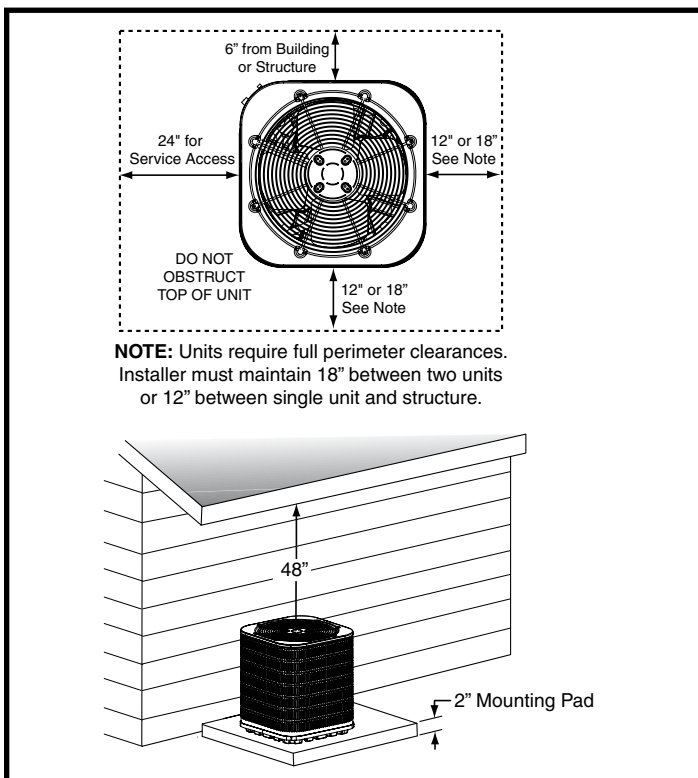
MODEL NUMBER: DS4BD-			018KB	024KB	030KB	036KB	042KB	048KB	060KB
Electrical Data	Volts-Cycles Phase (1)		208 / 230 - 60 - 1						
	Total Amps		9.3	13.5	14.8	18.0	19.4	23.2	27.8
	Delay Fuse Max. (2)		20	25	30	35	40	50	60
	Min. Circuit Ampacity		11.6	16.7	18.3	22.2	23.9	28.7	34.4
Component Data	Coil	Area	8.3	8.3	10.0	10.0	15.3	15.3	17.9
		Rows-FPI	1-18						
		Tube Dia.	Micro-Channel						
	Fan Motor	Type	PSC						
		Amps	0.35	0.7	0.7	1.4	1.5	1.5	1.5
		HP	0.05	0.1	0.1	0.25	0.25	0.25	0.25
	Compressor Data	RLA	9.0	12.8	14.1	16.6	17.9	21.8	26.4
		LRA	48.0	58.3	73.0	79.0	112.0	117.0	134.0
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"	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"	3/4"	7/8" (3)	7/8"	7/8"	1-1/8" (4)
REFRIGERANT CHARGE R-410A in ounces for outdoor unit & 15' Lineset. (5)			40.4	46.0	40.0	51.0	81.0	76.0	105.6
APPROXIMATE WEIGHT (LBS.)		Net	109	125	138	140	179	179	188
		Ship	114	130	144	146	187	187	197

- (1) Operating Voltage Range: 187v 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 7/8" to 1-1/8" 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.

**Table 1. Electrical Specifications & Physical Data**

Wire Gauge	Recommended Maximum Wire Length (FT) from Unit to Thermostat
22	45
20	70
18	115
16	180

**Table 2. Control Wiring (24V)**



**Figure 1. Clearance Requirements**

Model DS4BD Shown			
MODEL NUMBER	HEIGHT (H)	WIDTH (W)	DEPTH (D)
DS4BD-018KB	23 1/2"	22 3/4"	22 3/4"
DS4BD-024KB	23 1/2"	22 3/4"	22 3/4"
DS4BD-030KB	27 1/2"	22 3/4"	22 3/4"
DS4BD-036KB	27 1/2"	22 3/4"	22 3/4"
DS4BD-042KB	27 1/2"	30 3/4"	30 3/4"
DS4BD-048KB	27 1/2"	30 3/4"	30 3/4"
DS4BD-060KB	31 1/2"	30 3/4"	30 3/4"

**Table 3. 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 DS4BD-030KB / C5(B,D)A-X30U-B match, the appropriate TXV is the 669565 and 36 ounces of charge will need to be added. (**CHANGE IN CHARGE**)
- For the DS4BD-024KB / C8(B,D)AM01830U-B match, the appropriate restrictor is the .055 and no additional charge needs to be added. (**CHANGE IN RESTRICTOR**)

ID Restrictor Installed With ID Unit	Model Number: DS4BD		018KB	024KB	030KB	036KB	042KB	048KB	060KB
	ID Restrictor Supplied With OD Unit:		0.048	0.055	--	--	--	--	--
	Outdoor Unit BOM Charge (Oz.)		40.4	46	40	51	81	76	105.6
	MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM)						
	C5								
	C5(B,D)A-X25U-B	669564	669564 (30 / 525)	669564 (24 / 700)	--	--	--	--	--
	C5(B,D)A-X30U-B	669565	--	--	669565 (36 / 950)	--	--	--	--
	C5(B,D)A-X37U-B	669566	--	--	--	669566 (21 / 1100)	--	--	--
	C5(B,D)A-X42U-B	669567	--	--	--	--	669567 (12 / 1275)	--	--
	C8								
	C8(B,D)AM01830U-B	0.061	0.048 (0 / 535)	0.055 (0 / 705)	0.061 (0 / 960)	--	--	--	--
	C8(B,D)AM036U-B	0.067	--	--	--	0.067 (0 / 1190)	--	--	--
	CM4B								
	CM4B-53U	TXV	--	--	--	--	TXV (0 / 1250)	--	--
	CM4B-54U	TXV	--	--	--	--	--	TXV (0 / 1450)	TXV (0 / 1450)
	CM4B-56U	TXV	--	--	--	--	--	TXV (10 / 1500)	TXV (0 / 1600)

**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 4. Restrictor or TXV / Charge Addition (Oz)**