

TABULAR DATA SHEET

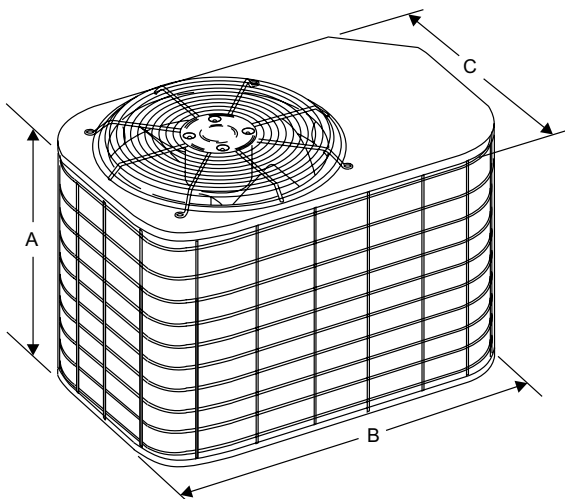
Outdoor Split System Heat Pump 1 Thru 5 Tons

MODELS: CPBD018* THRU 060*
13 SEER – R-410A

PHYSICAL AND ELECTRICAL DATA

MODEL	CPBD018FS1	CPBD024FS1	CPBD30FS1	CPBD036FS1	CPBD042FS1	CPBD048FS1	CPBD060FS1
Unit Supply Voltage	208-230V, 1 ϕ , 60Hz						
Normal Voltage Range ¹	187 to 252						
Minimum Circuit Ampacity	8.6	11.8	14.8	19.9	28.4	31.0	37.5
Max. Overcurrent Device Amps ²	20	20	25	30	50	50	60
Min. Overcurrent Device Amps ³	15	15	15	20	30	35	40
Compressor Type	Recip	Recip	Recip	Recip	Scroll	Scroll	Scroll
Compressor Amps	Rated Load	6.1	8.2	10.1	14.7	21.5	28.8
	Locked Rotor	47	48	60	83	105	150
Crankcase Heater	Yes	Yes	Yes	Yes	No	No	No
Fan Motor Amps	Rated Load	0.5	0.5	0.8	1.5	1.5	1.5
	Fan Diameter Inches	22	22	22	22	22	24
Fan Motor	Rated HP	1/15	1/15	1/8	1/4	1/4	1/4
	Nominal RPM	850	850	1075	850	850	850
	Nominal CFM	2000	2000	2500	3500	3500	3700
Coil	Face Area Sq. Ft.	15.7	18.3	21.0	23.6	23.6	27.0
	Rows Deep	1	1	1	1	1	2
	Fin / Inches	22	22	22	22	22	18
Liquid Line Set OD (Field Installed)	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Vapor Line Set OD (Field Installed)	3/4	3/4	3/4	3/4	7/8	7/8	7/8
Unit Charge (Lbs. - Oz.) ⁴	6 - 1	8 - 7	9 - 7	9 - 13	9 - 13	11 - 9	15 - 13
Charge Per Foot, Oz.	0.62	0.62	0.62	0.62	0.67	0.67	0.67
Operating Weight Lbs.	172	184	196	208	208	225	250

1. Rated in accordance with ARI Standard 110, utilization range "A".
2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.
3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.
4. The Unit Charge is correct for the outdoor unit, matched indoor coil and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in length multiplied by the per foot value. If line exceeds 25 feet, you may refer to publications software 036-68001-001 for proper line sizing.



All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.

Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A ¹	B	C	Liquid	Vapor
018	27	37	27	3/8"	3/4"
024	31	37	27		
030	35	37	27		
036	39	37	27		
042	39	37	27		
048	38	43	32	7/8"	
060	34	43	32		

1. Including Fan Guard.

R-410A SYSTEM CHARGING PROCEDURE

Additional R-410A Charge / TXV Size for Various Matched Systems							
Outdoor Unit	CPBD018FS1	CPBD024FS1	CPBD30FS1	CPBD036FS1	CPBD042FS1	CPBD048FS1	CPBD060FS1
Required TXV	1TVM901	1TVM903	1TVM903	1TVM4C1	1TVM4C1	1TVM4D1	1TVM906
Factory R-410A Charge, lbs-oz	6 - 1	8 - 7	9 - 7	9 - 13	9 - 13	11 - 9	15 - 13
Indoor Coil ^{1,2}	TXV Kit ^{3,4} Additional Charge, Oz						
FC/MC/PC/UC18A	901+0	-	-	-	-	-	-
FC/MC/PC/UC18B	901+0	-	-	-	-	-	-
FC/MC/PC/UC35B	-	903+0	-	-	-	-	-
FC/MC/PC/UC35C	-	903+0	-	-	-	-	-
FC/MC/PC/UC48C	-	-	903+0	4C + 0	4C + 0	-	-
FC/MC/PC/UC48D	-	-	903+0	4C + 0	4C + 0	-	-
FC/MC/PC/UC60C	-	-	-	-	-	4D + 0	-
FC/MC/PC/UC60D	-	-	-	-	-	4D + 0	-
FC/MC62D	-	-	-	-	-	-	906 + 0
HC18A	901+0	-	-	-	-	-	-
HC36B	-	903+0	-	-	-	-	-
HC42C	-	-	903+0	4C + 0	4C + 0	-	-
HC60D	-	-	-	-	-	4D + 0	-
HD36B	-	903+0	-	-	-	-	-
HD48C	-	-	903+0	4C + 0	4C + 0	-	-
HD60D	-	-	-	-	-	4D + 0	-
AHP18B	901+0	-	-	-	-	-	-
AHP30B	-	903+0	-	-	-	-	-
AHP36C	-	-	903+0	4C + 0	-	-	-
AHP42C	-	-	-	4C + 0	4C + 0	-	-
AHP/SHP48D	-	-	-	-	-	4D + 0	-
AHP/SHP60D	-	-	-	-	-	4D + 0	-
AV24B	901+0	-	-	-	-	-	-
AV36C	-	903+0	903+0	4C + 0	-	-	-
AV48D/SV48D	-	-	-	-	4C + 0	4D + 0	-
AV60D/SV60D	-	-	-	-	4C + 0	4D + 0	-

FOOTNOTES:

1. Systems matched with furnace or air handlers not equipped with blower-off delays may require blower Time Delay Kit 2FD06700224.
2. These orifices are factory mounted in the flow device of each indoor coil.
3. A TXV kit must be used with these coils to obtain system performance (4A, 4B, 4C, and 4D indicate 1TVM series).
4. If no TXV is listed, the indoor coil has the correct valve factory-installed.

PROCEDURES:

1. Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and 15 feet of interconnecting line tubing.
2. Verify the orifice size and the additional charge required for the specific evaporator coil in the system using the above table.
3. Additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in the table above.
4. Permanently mark the unit nameplate with the total system charge. Total System Charge = Base charge (as shipped) + adder for evaporator + adder for line set.
5. If the orifice in the evaporator was changed, verify the evaporator nameplate has been marked with the correct orifice/TXV size.

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