

Base 13 Air Conditioner with R-22 Refrigerant 24ABR3 Preliminary Product Fact Sheet



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The Carrier Base 13 Air Conditioner with R-22 refrigerant, Model 24ABR3, is available in 1.5—5 ton nominal sized units.

It features:

Energy Efficiency

13 SEER/11 EER

Sound

Sound level as low as 76

Reliability, Quality and Toughness

Energy efficient compressors

Field-installed 8 cu. in. filter drier

Front-seating service valves

Internal pressure relief valve

Internal thermal overload

Baked-on powder paint

Applications

Long-line – up to 250 ft. total equivalent length

Low ambient (down to -20°F) with accessory kit

Additional Models

Dense grille factory-installed option on 24ABR3G

3-phase models: 24ABR3030-060-5

24ABR3036-060-6

24ABR3036-060-1

Limited Warranty

Standard 5-year limited warranty on all parts and 5-year limited warranty on compressor

Base Series



24ABR3

AVAILABILITY

First Order: September 15, 2005

First Available: February 13, 2006

TESTED COMBINATION RATINGS

UNIT SIZE	INDOOR MODEL	MIN CAPACITY BTUH	STANDARD RATING (SEER)	EER
18	CARVP18	17200	13	11
24	CARVP24	22400	13	11
30	CARVP30	28000	13	11
36	CARVP36	33800	13	11
42	CARVP42	40000	13	11
48	CARVP48	46000	13	11
60	CARVP60	57000	13	11

PHYSICAL DATA

UNIT SIZE	Width	Depth	Height	Approx Weight	Liquid Line Req.	Vapor Line Req.	Price
18	25-3/4	25-3/4	28-3/8	146	3/8	5/8	
24	25-3/4	25-3/4	28-3/8	150	3/8	5/8	
30	25-3/4	25-3/4	31-3/4	169	3/8	3/4	
36	31-1/4	31-1/4	28-7/8	184	3/8	3/4	
42	31-1/4	31-1/4	39-1/8	220	3/8	7/8	
48	35	35	35-3/4	259	3/8	7/8	
60	35	35	45-7/8	269	3/8	1-1/8	

MODEL NOMENCLATURE

2	4	A	B	R	3	3	6	A	0	0	3
Product Series	Product Family	Tier	Major Series	SEER	Cooling Capacity	Variations	Open	Open	Voltage		
24=AC	A=RES AC	B=Base	R=R22	3=13 SEER		A=Standard	0=Not Defined	0=Not Defined	1=575-3		
									3=208/230-1		
									5=208/230-3		
									6=460-3		

STANDARD FEATURES

Feature	18	24	30	36	42	48	60
13 SEER	X	X	X	X	X	X	X
Field Installed 8 cu. in. Filter Drier	X	X	X	X	X	X	X
Front Seating Service Valves	X	X	X	X	X	X	X
Internal Pressure Relief Valve	X	X	X	X	X	X	X
Internal Thermal Overload	X	X	X	X	X	X	X
Long Line capability	X	X	X	X	X	X	X
Low Ambient capability with Kit	X	X	X	X	X	X	X

ELECTRICAL DATA

Unit Size-Series	VOLTAGE-PHASE	Oper Volts		Compressor		Fan	MCA	60C Min	75C Min	60C Max	75C Max	Max Fuse
		Max	Min	LRA	RLA	FLA		Wire Size	Wire Size	Length (Ft)	Length (Ft)	Ckt Bkr Amps
18	208/230-1	253	197	40.3	7.7	0.5	10.1	14	14	78	74	15
24				54.0	10.4	0.75	13.8	14	14	57	54	20
30				68.0	14.1	1.1	18.7	14	14	42	40	30
36				77.0	14.4	1.4	19.1	12	12	65	62	30
42				104.0	19.2	1.4	25.4	10	10	79	75	40
48				137.0	20.2	1.2	26.4	10	10	76	72	40
60	208/230-3	253	197	150.0	22.4	1.2	32.9	8	8	94	90	50
30				75.0	10.6	1.4	14.7	14	14	62	59	20
36				77.0	11.4	1.4	15.7	14	14	58	55	20
42				90.0	13.4	1.4	18.2	14	14	50	48	25
48				91.0	15.1	1.4	20.2	12	12	71	68	30
60				123.0	17.3	1.4	23.0	12	12	63	60	40
36	460-3	506	414	33.0	5.1	0.8	7.2	14	14	253	240	15
42				42.0	6.2	0.8	8.6	14	14	211	201	15
48				46.0	6.4	0.8	8.7	14	14	209	199	15
60				67.0	8.0	0.8	10.8	14	14	168	160	20
36	575-3	633	518	35.0	4.1	0.8	7.4	14	14	250	238	15
48				40.0	5.8	0.8	8.2	14	14	222	211	15
60				50.0	7.1	0.8	9.8	14	14	186	176	15

1. Permissible limits of the voltage range at which unit will operate satisfactorily.
2. If wire is applied at ambient greater than 30°C (86°F), consult Table 310-16 of the NEW (ANSI/NFPA 70). The ampacity of nonmetallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C (140°F) conductors, per the NEC (ANSI/NFPA 70) Article 336-26. If other than uncoated (non-plated), 60 or 75°C (140 or 167°F) insulation, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (ANSI/NFPA 70).
3. Length shown is as measured 1 way along wire path between unit and service panel for voltage drop not to exceed 2%.
4. Time-delay fuse.

FLA – Full Load Amps
LRA – Locked Rotor Amps
MCA – Minimum Circuit Amps
RLA – Rated Load Amps

NOTES:

1. Control circuit is 24-v on all units and requires external power source.
2. Copper wire must be used from service disconnect to unit.
3. All motors and compressors contain internal overload protection.

All data contained herein is preliminary and subject to change without notice.

