

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 06-1056	Issue Date: PERMIT ISSUED JUL 27 2006	CBL: 037 FC05001
-----------------------	--	---------------------

Location of Construction: 28 PREBLE ST	Owner Name: EARL APARTMENTS LLC	Owner Address: 104 GRANT ST	Phone: 207 767 4367
Business Name:	Contractor Name: Portland Airconditioning, Inc.	Contractor Address: 205 Lincoln St. S. Portland	Phone: 207 767 4367
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: CITY OF PORTLAND

Past Use: Commercial	Proposed Use: Commercial install a Bryant 4 way furnace direct vent	Permit Fee: \$150.00	Cost of Work: \$12,400.00	CEO District: 1
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied TO WIPA 58	INSPECTION: Use Group: Heating Type: 7/25/06 Signature: <i>[Signature]</i>	

Proposed Project Description:
Install a Bryant 4 way furnace direct vent

Signature: *Greg L...* Signature: *[Signature]*
 PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)
 Action: Approved Approved w/Conditions Denied
 Signature: _____ Date: _____

Permit Taken By: dmartin	Date Applied For: 07/19/2006	Zoning Approval	
-----------------------------	---------------------------------	------------------------	--

1. 2. Building permits do not include plumbing, septic or electrical work. 3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: _____	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: _____
--	---	---	---

CERTIFICATION

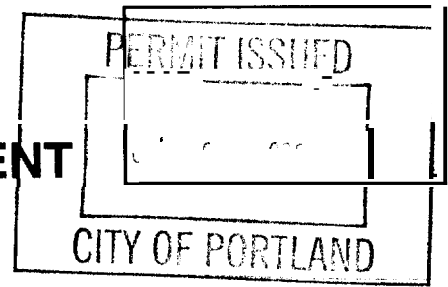
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL _____ Use of Building grocery/deli Date 7/12/11
 Name and address of owner of appliance Port Property Management
28 Probek Street Portland, ME
 Installer's name and address Portland Airconditioning, Inc
40 Manson Lake Road Scarborough ME Telephone 207 885 1256

Location of appliance:

- Basement
- Floor
- Attic
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Birant

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
- Solid Fuel # _____
- Oil # _____
- Gas # PNT 439
- Other _____

Type of Chimney:

- Masonry Lined
Factory built _____
- Metal
Factory Built U.L. Listing # _____
- Direct Vent
Type Concentric UL# A2883

Type of Fuel Tank

- Oil
- Gas natural

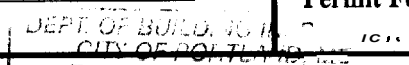
Size of Tank _____

Number of Tanks N/A

Distance from Tank to Center of Flame N/A feet..

Cost of Work: \$ 12,400 HVAC

Permit Fee: \$ _____



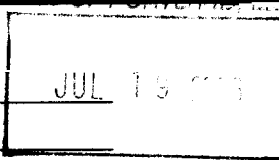
Approved

Approved with Conditions

Fire: _____

Ele.: _____

Bldg.: _____



See attached letter or requirement

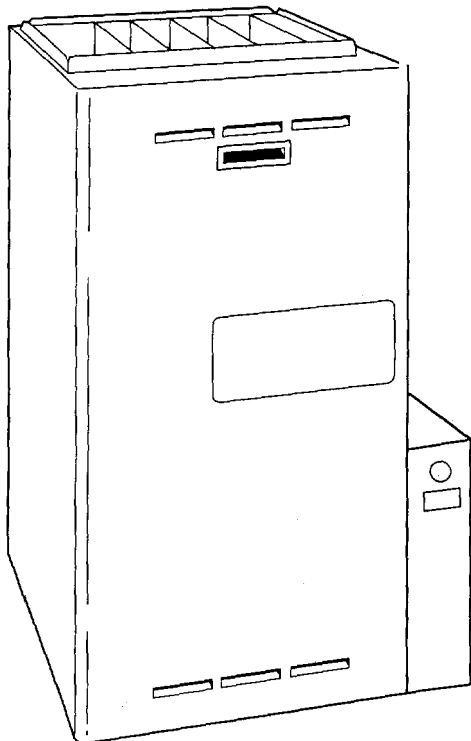
Inspector's Signature _____

Date Approved _____

Signature of Installer _____



High-Efficiency 4-Way Multipoise 350MAV
Direct-Vent
Condensing Gas Furnace Sizes 040 thru 140



Utilizing the extensive resources available to Bryant, a new standard of excellence has been achieved with the model 350MAV Plus 90™ 4-Way Multipoise Furnace.

The model 350MAV was designed around requirements established by customer focus groups. The result is a unique 4-way multipoise condensing furnace with features like no other product in its class. The 350MAV builds on the many Bryant successes in the furnace industry and establishes a new standard for all high-efficiency gas furnaces.

FEATURES

4-Way Multipoise Design—Allows a 350MAV model to be installed in an upflow, downflow, or horizontal orientation. Factory configured for upflow applications. Simple changes in the drain connections are all it takes to change to any of the 3 other possible positions.

The model 350MAV is available in 12 heat/airflow combinations, and when combined with the 4-way design, allows for 48 different applications.

Media Filter Cabinet—Enhanced indoor air quality in your home is made easier with our media filter cabinet—a standard accessory on all Deluxe furnaces. When installed as a part of your system, this cabinet allows for easy and convenient addition of a Bryant high-efficiency air filter.

Sealed combustion (Direct-Vent) System—Enclosed burner assembly isolates operating noise without the expense of sound deadening devices. The sealed combustion (direct-vent) system brings outdoor air directly into the combustion chamber, reducing

infiltration of cold air into the structure and reducing heat loss.

3-Pass Primary Heat Exchangers—This design accelerates heat transfer and extracts heat that conventional heat exchangers waste up the flue. The weld-free primary heat exchangers are made of aluminized steel for corrosion resistance.

Flow-Through Secondary Heat Exchangers—Each cell is laminated with our patented Everlastic™ polypropylene for greater resistance to corrosion. This breakthrough in heating technology helps extend the life of the furnace for years of trouble-free Plus 90 performance. The heat exchanger is positioned in the furnace to extract additional heat from the combustion products regardless of furnace orientation.

Warranty—Limited Lifetime Warranty on the heat exchangers for the lifetime of the original owner in single family residence; 20-year limited warranty in other residential and commercial applications. Contact your dealer for details. Three-year limited warranty on microprocessor control, hot surface ignitor, and inducer motor.

Monoport Inshot Burners—Produce precise air-to-gas mixture which gives a clean burn. The large monoport on the inshot or injection-type burners seldom, if ever, needs cleaning.

Microprocessor Control Center—The printed-circuit board and all internal wiring are factory installed. Convenient terminals permit quick-connection of a thermostat, a humidifier, an air cleaner, and air conditioning control circuits.

The control has adjustable blower off delay switches. As an added feature, the control has a built-in status indicator and self-test feature. The status indicator flashes to indicate a problem condition and assists the servicer in diagnosis. The self-test feature allows for a complete check of the major components in only seconds.

Combustion Air and Ventilation—The 350MAV advanced design allows Schedule 40 PVC, PVC-DWV, SDR-21 PVC, SDR-26 PVC (not approved in Canada), ABS-DWV, or ABS-F628 Schedule 40 pipe to bring outdoor air into the furnace for combustion. The extracted heat lowers the temperature of the combustion products to a point (typically below 115°F) that any of the approved types of pipe can also be used for venting combustion products outside the structure. The combustion-air and vent pipes can terminate through a side wall or through the roof when using 1 of our approved vent termination kits.

Fully-Insulated Casing—Foil-faced insulation in the heat exchanger section cuts heat loss, and insulation in the blower section reduces noise levels. The casing also has the required openings for left- or right-side connection of gas, electric, drain, and vent connections.

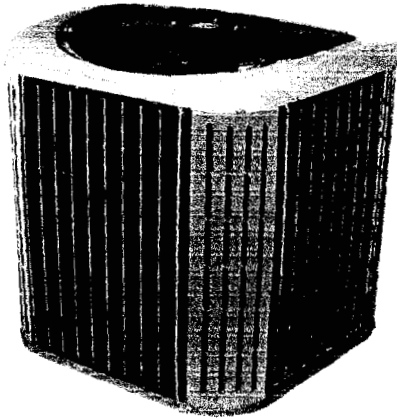
Certifications—The 350MAV units are A.G.A. and C.G.A. design certified for use with natural and propane gases, as well as GAMA efficiency rating certified. The furnace is factory-shipped for use with natural gas. An A.G.A./C.G.A. listed gas conversion kit is required to convert furnace for use with propane gas. The model 350MAV meets the California Air Quality Management District emission requirements. Except for the 140 size unit, all 350MAV models can be installed in a manufactured (mobile) home when the optional kit is used.

Quality Registration—The 350MAV is engineered and manufactured under an ISO 9001 registered quality system.

24ABR3 Base 13 Air Conditioner with R-22



SUBJECT TO CHANGE WITHOUT NOTICE



Carrier Base 13 Air Conditioner with R-22 Refrigerant, Model 24ABR3, is available in 1.5-5 ton, single phase, nominal-sized units. This model is also available in 2.5-5 ton 208/230v 3 phase, 3-5 ton 460v 3-phase, and 3-5 ton 575v 3 phase. (1Q2007)

STANDARD FEATURES

Energy Efficiency

- 13 SEER / 11 EER Nominal

Sound

- Sound as low as 76 dBA

Reliability, Quality and Durability

- Scroll Compressor
- Field-installed Filter Drier
- Front-seating Service Valves
- Internal Pressure-Relief Valve
- Internal thermal overload
- Baked-on powder paint

Optional Features

- Dense Grille factory option (24ABR3--G)
- 3-phase models available

LIMITED WARRANTY

- Single-phase limited warranty: 5 years on parts and 5 years on compressor
- Three-phase limited warranty: 1 year on parts and 5 years on compressor



Title:
ISO.FHG
Creator:
FreeHand 9.0
Preview.
This EPS picture v
with a preview inc

As an Energy Star® Partner, Carrier Corporation has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

Refer to the combination ratings in Product Data for system combinations that meet Energy Star guidelines.

ODS CATALOG ORDERING NO.	NOMINAL COOLING SIZE (Btu x 1,000)	VOLTS-PHASE (60 HZ)	OPERATING VOLTAGE RANGE	PACKAGED DIMENSIONS (IN.) D X W X H*†	APPROX SHIP WT (LB)†	PRICE
24ABR318A003	18	208-230-1	197-253	27 X 27 X 32	146	
24ABR324A003	24			27 X 27 X 36	146	
24ABR330A003	30			33 X 33 X 29	155	
24ABR336A003	36			33 X 33 X 36	178	
24ABR342A003	42			33 X 33 X 43	220	
24ABR348A003	48			36 X 36 X 46	242	
24ABR360A003	60			36 X 36 X 36	274	
24ABR330A005	30	208/230-3	187-253	33 X 33 X 29	155	
24ABR336A005	36			33 X 33 X 36	178	
24ABR342A005	42			33 X 33 X 43	220	
24ABR348A005	48			36 X 36 X 46	242	
24ABR360A005	60			36 X 36 X 36	274	
24ABR336A006	36	460-3	414-506	33 X 33 X 36	178	
24ABR342A006	42			33 X 33 X 43	220	
24ABR348A006	48			36 X 36 X 46	242	
24ABR360A006	60			36 X 36 X 36	274	
24ABR336A001‡	36	575-3	518-633	33 X 33 X 36	178	
24ABR342A001‡	42			33 X 33 X 43	220	
24ABR348A001‡	48			36 X 36 X 46	242	
24ABR360A001‡	60			36 X 36 X 36	274	

* All units are individually skidded for shipment.

† Weight and height may vary by series. See PD for actual weights and dimensions by series. Height shown is maximum.

‡ 575 volt models - first availability 1Q2007.

SUPERSEDE DATE: 4/21/2008

Catalog No. 0524ABR3-4PP

Page 1
EFFECTIVE DATE: 6/23/2008

OPTIONAL EXTENDED WARRANTIES	NET PRICE
Labor Only (excludes Compressor Parts, includes Compressor Labor and Condenser Coil) = 2nd through 5th year	
2nd through 10th year Labor with 6th through 10th year Parts	
Compressor Parts Only—6th through 10th year	
2nd through 5th year Compressor Labor Only	
2nd through 10th year Compressor Labor with 6th–10th year Parts	
Parts Only (excludes Compressor, includes Condenser Coil) - 6th through 10th year	

NOTES:

Eligible Carrier Thermostat, Electronic Air Cleaner, Humidifier, Strip Heater, and TXV covered under the above warranties at NO ADDITIONAL CHARGE when included with registration of an entire air conditioner system. Purchase within 5 years from date of installation.

ACCESSORIES

DESCRIPTION	PART NO.	USED WITH	PRICE
Evaporator Freeze Thermostat	KAAFT0101AAA	All	
Time-Delay Relay	KAATD0101TDR	All	
Low-Ambient Pressure Switch	KSALA0201R22	All	
MotorMaster® Low-Ambient Controller	KSALA0601AAA	All 230v	
MotorMaster® Low-Ambient Controller	KSALA0701AAA	All 460v	
Ball-Bearing Motor Fan (230v) (RCD)	HC32GE234	18	
	HC34GE239	24	
	HC38GE227	30	
	HC40GE226	36-42	
	HC40GE228	48-60	
Ball-Bearing Motor Fan (460v) (RCD)	HC38GE462*	36	
	HC40GE466	42	
	HC40GE467	48-60	
Fan Blade* (use with 460v Ball Bearing Motor Fan)	LA01RA324	36	
Start Assist—Capacitor/Relay Type	KSAS1501AAA	18, 24, 36-60 230v 1 Phase	
	KSAS1701AAA	30 230v 1 Phase	
Cycle Protector	KSACY0101AAA	All	
Support Feet	KSASF0101AAA	All	
Start Assist—PTC	KAACS0201PTC	All	
Liquid-Line Solenoid Valve	KAALS0101LLS	All	
Winter Start Control	KAAWS0101AAA	All	
Low-Pressure Switch	KAALP0201R22	All	
High-Pressure Switch	KSAMI0301R22	All	
Crankcase Heater	KAACH1201AAA	42, 48 230v	
	KAACH1301AAA	42, 48 460v and 575v	
	KAACH1401AAA	18-36 230v	
	KAACH1501AAA	36 460v and 575v	
	Standard	60	
TXV—Hard-Shutoff (R-22)	KSATX0601HSO	18-42	
	KSATX0701HSO	48	
	KSATX1001HSO	60	
Compressor Sound Blanket	KSASH0601COP	42-48	
	KSASH1801COP	18-36	
	KSASH2101COP	60	

* Fan blade change-out is required.

UNIT SIZE SERIES	18-30	24-31	30-31	36-31	42-30	48-31	60-32/33
Operating Weight (lb)	124	124	133	150	192	206	239
Shipping Weight (lb)	146	146	155	178	220	242	274
REFRIGERANT	R-22						
						7.73	9.25/10.13
	Vertical						
Air Qty (CFM)	1880	2200	2725	3170	3165	4050	4050
Motor HP	1/12	1/10	1/5	1/5	1/4	1/4	1/4
Motor RPM	1100	1100	1100	1100	1100	800	800
Face Area (Sq ft)	11.49	11.49	13.13	15.09	21.56	22.63	30.18
Fins per in.	25	25	25	25	25	25	25
Rows	1	1	1	1	1	1	1
Circuits	3	3	4	4	5	6	8
VALVE CONNECT. (In. ID)	5/8	5/8	3/4	3/4	7/8	7/8	7/8
	3/8"						
REFRIGERANT TUBES* (In. OD)							
Vapor (0-80 Ft Tube Length)	5/8	5/8	3/4	3/4	7/8	7/8	1-1/8
Liquid (0-80 Ft Tube Length)	3/8"						

* For tubing sets between 80 and 200 ft. horizontal or 20 ft. vertical differential, consult the Loodline Guideline.

24ABR3

VAPOR LINE SIZING AND COOLING CAPACITY LOSS 1-STAGE AIR CONDITIONER APPLICATIONS

LONG LINE APPLICATION: An application is considered "Long line" when the total equivalent tubing length exceeds 80 ft or when there is more than 20 Ft vertical separation between indoor and outdoor units. These applications require additional accessories and system modifications for reliable system operation. The maximum allowable total equivalent length is 250ft. The maximum vertical separation is 200 Ft when outdoor

unit is above indoor unit, and up to 60 Ft when the outdoor unit is below the indoor unit. Refer to Accessory Usage Guideline below for required accessories. See Long-Line Application Guideline for required piping and system modifications. Also, refer to the table below for the acceptable vapor tube diameters based on the total length to minimize the cooling capacity loss.

Unit Nominal Size (Btuh)	Acceptable Liquid Line Diameter OD (in.)	Acceptable Vapor Line Diameter OD (in.)	Cooling Capacity Loss (%) Total Equivalent Line Length (ft)										
			Standard Application			Long Line Application Requires Accessories							
			25	50	80	90	100	125	150	175	200	225	250
18000 R-22 AC	3/8	5/8	1	1	2	2	3	3	4	5	5	5	7
		3/4	0	1	1	1	1	2	2	2	2	2	3
24000 R-22 AC	3/8	5/8	1	2	3	3	5	5	7	8	9	10	12
		3/4	0	1	1	1	2	2	3	3	3	3	4
30000 R-22 AC	3/8	3/4	1	1	2	2	3	3	4	5	5	5	7
		7/8	0	1	1	1	1	2	2	2	3	3	3
36000 R-22 AC	3/8	3/4	1	2	3	3	4	5	5	6	7	8	9
		7/8	1	1	1	1	2	2	3	3	4	4	5
42000 R-22 AC	3/8	7/8	1	1	2	2	2	3	4	4	5	5	6
48000 R-22 AC	3/8	7/8	1	2	2	2	3	4	5	5	6	7	8
60000 R-22 AC	3/8	7/8	1	2	3	3	5	6	7	8	9	10	11
		1 1/8	0	1	1	1	1	2	2	2	3	3	3

Standard Length = 80 Ft or less total equivalent length

Applications in this area may have height restrictions that limit allowable total equivalent length, when outdoor unit is below indoor unit. See