City of Portland, Maine - Building or Use Permit Application

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

Permit No:	Issue Date:	CBL:
07-0805		003 B004006

Location of Construction:	Owner Name: Apt #2	Owner Address:	Phone:
49 MORNING ST	JENKINS FLOYD RONALD JR	49 MORNING ST # 2	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Portland Airconditioning, Inc.	205 Lincoln St. S. Portland	2077674567
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		HVAC	R-6

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
Eight residential condominium dwelling units	Eight residential condominium dwelling units in building - install a bryant Gas Furnace	$120.00	$9,487.00	1

FIRE DEPT: ☐ Approved ☐ Denied

N/A

Signature: Greg Cross

INSPECTION:
Use Group: R2 Type: 5B
IBC2003
STATE of ME GAS Reqs

Signature:

Proposed Project Description:
install a bryant Gas Furnace

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied

Signature: Date:

Permit Taken By:	Date Applied For:
ldobson	07/02/2007

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
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..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland Same use	☐ Variance	☑ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐	☐ Denied	☐ Denied
Date: 7/5/07	Date:	Date:

PERMIT ISSUED
JUL 16 2007
CITY OF PORTLAND

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

PERMIT ISSUED
JUL 16 2007
CITY OF PORTLAND

003 B 004002

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 49 Morning Street Use of Building residence Date 7/2/07

Name and address of owner of appliance Jenkins 49 Morning St Portland.

General Contractor is M.R. Brewer

Installer's name and address Portland Aircondtioning Inc

40 Manson Libby Rd Scarborough Telephone 885-1256

Location of appliance:

- ☐ Basement
- ☒ Floor
- ☐ Attic
- ☐ Roof

Type of Fuel:

- ☒ Gas
- ☐ Oil
- ☐ Solid

Appliance Name: Bryant

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 # PNT434
- ☐ Other

Type of Chimney:

- ☐ Masonry Lined
  Factory built
- ☐ Metal
  Factory Built U.L. Listing #
- ☒ Direct Vent
  Type Sched 40 PVC UL#

DEPT. OF BUILDING INSPECTION
JUL 2 2007
RECEIVED

Type of Fuel Tank

- ☐ Oil
- ☒ Gas

Size of Tank N/A

Number of Tanks N/A

Distance from Tank to Center of Flame _____ **feet.**

Cost of Work: $ 9,487.00

Permit Fee: $ 100.00

Approved

Fire:

Ele.:

Bldg.:

Approved with Conditions

- ☐ See attached letter or requirement

Inspector's Signature Date Approved

Signature of Installer

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

City of Portland, Maine - Building or Use Permit

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Permit No:	Date Applied For:	CBL:
07-0805	07/02/2007	003 B004006

Location of Construction:	Owner Name:	Owner Address:	Phone:
49 MORNING ST	JENKINS FLOYD RONALD JR	49 MORNING ST # 2	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Portland Airconditioning, Inc.	205 Lincoln St. S. Portland	(207) 767-4567
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		HVAC	

Proposed Use:	Proposed Project Description:
Eight residential condominium dwelling units in building - install a bryant Gas Furnace	install a bryant Gas Furnace

Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 07/05/2007

Note: **Ok to Issue:** ☑

Dept: Building **Status:** Approved with Conditions **Reviewer:** Tom Markley **Approval Date:** 07/16/2007

Note: **Ok to Issue:** ☑

1) The installation must comply with the State of Maine Gas Regulations.

2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approrval prior to work.

Dept: Fire **Status:** Not Applicable **Reviewer:** Capt Greg Cass **Approval Date:**

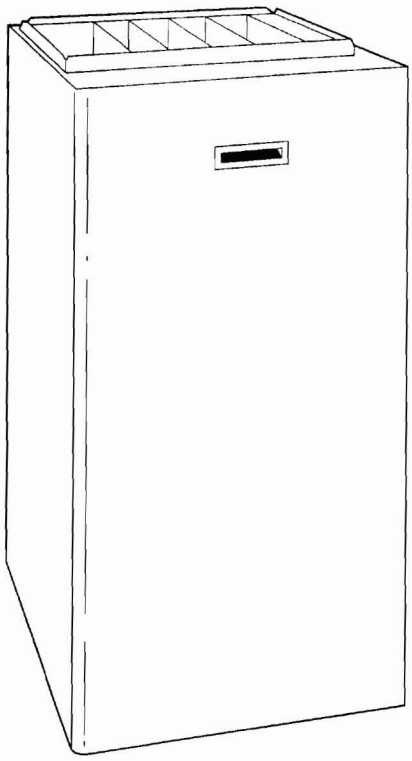
Note: **Ok to Issue:** ☐

340AAV
4-Way Multipoise Fixed-Capacity Condensing Gas Furnace

Sizes 040 thru 140

bryant

Product Data



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The model 340AAV Multipoise Condensing Furnace is specifically designed to meet the needs of the new construction market. This high-efficiency furnace utilizes a unique 4-way multipoise design and compact size to fit where other furnaces will not. The model 340AAV can be installed in any of 4 positions including horizontally in attics or crawlspaces, freespace formerly used as a utility or furnace room. Except the 140 size, all sizes of the model 340AAV can be installed in a manufactured (mobile) home when the optional kit is used. With the exception of the 180 size, all sizes can be installed with 2-pipe or 1-pipe venting. The 140 size can be installed only as a 2-pipe system. Sidewall or through-the-roof venting options and the use of PVC pipe eliminate the need for dedicated chimneys or chaseways to facilitate furnace venting. Time-saving installation features yield a very cost effective way to provide new home buyers with a high-efficiency and high-quality home comfort system.

FEATURES

Primary Heat ExchangersÑThis design accelerates heat transfer and extracts heat that conventional heat exchangers waste up the flue. The primary heat exchanger is made of aluminized steel for corrosion resistance.

Combustion Air and VentilationÑThe 340AAV advanced design allows Schedule 40PVC, PVC-DWV, SDR-21 PVC, SDR-26 PVC (not approved in Canada), ABS-DWV, or ABS-DWV 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.

Flow-Through Secondary Heat ExchangersÑEach 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 dependable performance. The heat exchanger is positioned in the furnace to extract additional heat from the combustion products regardless of furnace orientation.

Perfect Light™ IgniterÑBryantÕs unique SiN igniter is not only physically robust but it is also electrically robust. It is capable of running at line voltage and does not require complex voltage regulators as do other brands. This unique feature further enhances the reliability of 340AAV gas furnace and continues BryantÕs tradition of technology leadership and innovation in providing a reliable and durable product.

WarrantyÑ20 Year Warranty on the heat exchanger; 20 years in other residential and commercial applications. Five year limited warranty on entire unit.

Control CenterÑThe printed-circuit board and all internal wiring are factory installed. Convenient terminals permit quick-connection of a thermostat and air conditioning control circuits. Connections for a humidifier and air cleaner are also provided.

4-Way Multipoise DesignÑAllows a model 340AAV to be installed in an upflow, downflow, or horizontal orientation.

The model 340AAV is available in 12 heat/airflow combinations, and when combined with the 4-way design, allows for 48 different applications. Factory configured for upflow application, this furnace can easily be made ready for downflow or horizontal installations.

Direct or Non-direct VentingÑThe 340AAV can be installed as a 1 pipe/Non-Direct vent or 2 pipe/Direct vent furnace except the 140 size which can be installed as 2-pipe only. This provides added flexibility to meet diverse installation needs.

Insulated CasingÑFoil-faced insulation in the heat exchanger section cuts heat loss. The casing also has the required openings for left- or right-side connection of gas, electric, drain, and vent connections.

CertificationsÑThe 340AAV units are CSA (A.G.A./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. A CSA (A.G.A./C.G.A.) listed gas conversion kit is required to convert furnace for use with propane gas. The model 340AAV meets California Air Quality Management District emission requirements. Except for the 140 size unit, all 340AAV models can be installed in a manufactured (mobile) home when the optional kit is used, and in elevations up to 10,000 ft (140 size unit limitation of 7,000 ft).

Quality RegistrationÑThe 340AAV is engineered and manufactured under an ISO 9001 registered quality system.

CLEARANCE TO COMBUSTIBLES

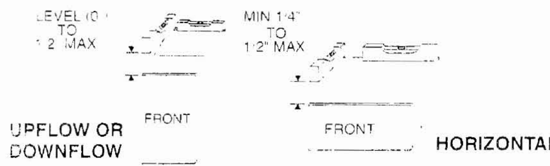
INSTALLATION

This forced air furnace is equipped for use with natural gas at altitudes 0 - 10,000 ft (0 - 3,050m), except 140 size Furnaces are only approved for altitudes 0 - 7,000 ft. (0 - 2,135m).
An accessory kit, supplied by the manufacturer, shall be used to convert to propane gas use or may be required for some natural gas applications.
This furnace is for indoor installation in a building constructed on site. This furnace may be installed in a manufactured (mobile) home when stated on rating plate and using factory authorized kit.
This furnace may be installed on combustible flooring in alcove or closet at minimum clearance from combustible material.
This appliance requires a special venting system. Refer to the installation instructions for parts list and method of installation. This furnace is for use with schedule-40 PVC, PVC-DWV, CPVC, or ABS-DWV pipe, and must not be vented in common with other gas-fired appliances. Construction through which vent/air intake pipes may be installed is maximum 24 inches (600 mm), minimum 3/4 inches (19 mm) (including roofing materials).

Cette fournaise ‡ air pulsÈ est équipée pour utilisation avec gaz naturel et altitudes comprises entre 0 - 3,050m (0-10,000 pi), exceptÈ queles fournaises de [illegible] taille sont pour altitudes comprises entre 0 - 2,135m (0 - 7,000 pi).
Utiliser une trousse de conversion fournie par le fabricant pour passer au gaz propane ou pour certaines installations au gaz naturel.
Cette fournaise ‡ air pulsÈ est pour installation ‡ l'intÉrieur dans un bâtiment construit sur place. Cette fournaise ‡ air pulsÈ peut Ítre installÈe dans une maison prÉfabriquÈe (maison mobile) si prescrit par la plaque signalétique et si l'on utilise une trousse specifiÉe par le fabricant.
Cette fournaise peut Ítre installée sur un plancher combustible dans un enfoncement ou un placard en observant les dÉgagements minimums avec les matÉriaux combustibles.
Cet appareil nÉcessite un systÈme d'évacuation spÉcial. La mÉthode d'installation et la liste des piÈces nÉcessaires figurent dans les instructions d'installation. Cette fournaise doit s'utiliser avec la tuyauterie des nomenclatures 40 PVC, PVC-DWV, CPVC, ou ABS-DWV et elle ne peut pas Ítre ventillÈe conjointment avec d'autres appareils ‡ gaz. ...aisseur de la construction au travers de laquelle il est possible de faire passer les tuyaux d'aÉration (admission/Évacuation): 24 po (600 mm) maximum, 3/4 po (19 mm) minimum (y compris la toiture).

For upflow and downflow applications furnace must be installed level, or pitched within 1/2" of level. For a horizontal application, the furnace must be pitched minimum 1/4" to maximum of 1/2" forward for proper drainage. See Installation Manual for IMPORTANT unit support details on horizontal applications.

Pour des applications de flux ascendant ou descendant, la fournaise doit Ítre installÈe de niveau ou inclinÈe ‡ pas plus de 1/2" du niveau. Pour une application horizontale, la fournaise doit Ítre inclinÈe entre ... et maximum 1/2" du niveau pour le drainage appropriÈ. En cas d'installation horizontale, consulter les renseignements IMPORTANTS sur le support dans le manuel d'installation.



MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION

ALL POSITIONS:

★ Minimum front clearance for service 30 inches (762mm).
ÜÜ 140 size furnaces require 1 inch back clearance to combustible materials.

DOWNFLOW POSITIONS:

Ü For installation on combustible floors only when installed on special base No. KGASB0201ALL, Coil Assembly, Part No. ... or Coil Casing, Part No. KCAKC.

HORIZONTAL POSITIONS:

Line contact is permissible only between lines formed by intersections of top and two sides of furnace jacket, and building joists, studs, or framing.
ß Clearance shown is for air inlet and air outlet ends.
ÿ 120 and 140 size furnaces require 1 inch bottom clearance to combustible materials.

DÉGAGEMENT MINIMUM ... ÉLÉMENTS DE CONSTRUCTION COMBUSTIBLES

POUR TOUS LES POSITIONS:

★ DÈgagement avant minimum ... pour l'entretien.
ÜÜ Pour les fournaises de 140 taille ... dÉgagement des matÉriaux combustibles est requis au-arriere.

POUR LA POSITION COURANT ...

Ü Pour l'installation sur le plancher combustible seulement quand on utilise la base spÉciale piÈce n° KGASB0201ALL, l'ensemble serpentin piÈce n° CD5 ou CK5, ou le carter de serpentin piÈce n° KCAKC.

POUR LA POSITION HORIZONTAL

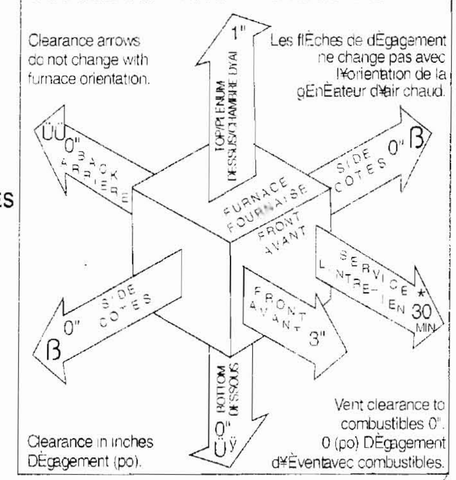
Le contact n'est permis qu'entre les lignes formÈes par les intersections du dessus et des deux cÙtÈs de la chemise de la fournaise, et des solives, des montants ou de la charpente du bâtiment.
ß La distance indiquÈe concerne l'extrÉmitÉ du tuyau d'arrivÈe d'air et l'extrÉmitÉ du tuyau de sortie d'air.
ÿ Pour les fournaises de 120 et 140 taille ... po (25mm) dÉgagement des matÉriaux combustibles est requis au-dessous.

This furnace is approved for UPFLOW, DOWNFLOW and HORIZONTAL installations.

Cette fournaise est approuvÈe pour l'installation HORIZONTALE et la circulation d'air VERS LE HAUT et VERS LE BAS.

Clearance arrows do not change with furnace orientation.

Les flÈches de dÉgagement ne change pas avec l'orientation de la gÉnÉrateur d'air chaud.



Clearance in inches
DÉgagement (po).

Vent clearance to combustibles 0".
0 (po) DÉgagement d'Évent avec combustibles.

324999-201 REV. D (LIT TOP)

A02148

MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

CERTIFIED

ISO 9001:2000

REGISTERED

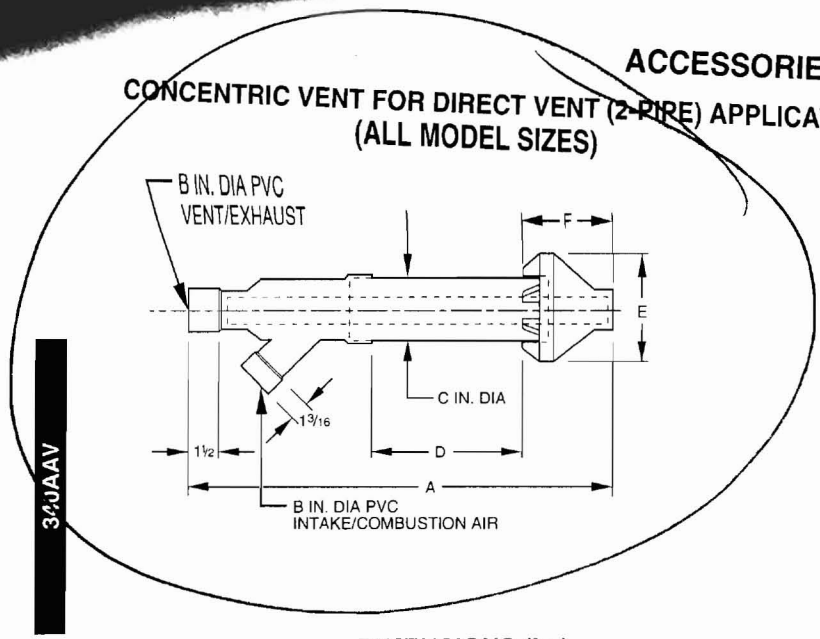
As an ENERGY STAR ... Bryant Heating & Cooling ... determined that this ... meets the ENERGY STAR guidelines for energy efficiency.

REGISTERED QUALITY SYSTEM
These products are engineered and manufactured under an ISO 9001 registered quality system.

340AAV

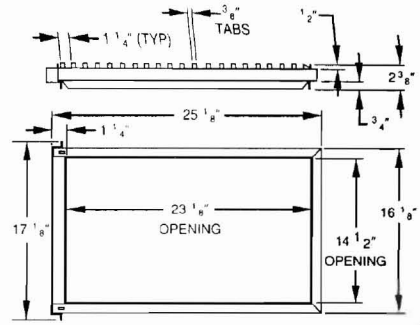
ACCESSORIES

CONCENTRIC VENT FOR DIRECT VENT (2-PIPE) APPLICATION (ALL MODEL SIZES)



34UAAV

SIDE FILTER RACK*



* Accepts one 16 x 25 x 1 in. filter.

DIMENSIONS (In.)

PART NO.	A*	B	C	D†	E	F
KGAVT0501CVT	33-3/8	2	3-1/2	16-5/8	6-1/4	5-3/4
KGAVT0601CVT	38-7/8	3	4-1/2	21-1/8	7-3/8	6-1/2

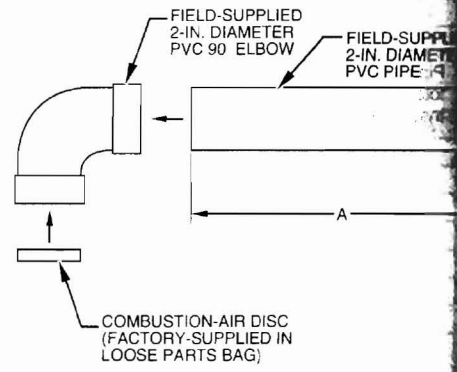
* Dimension A will change accordingly as dimension D is lengthened or shortened.
† Dimension D may be lengthened to 60 in. maximum. Dimension D may also be shortened by cutting the pipes provided in the kit to 12 in. minimum.

NOTE: See furnace installation instructions when venting multiple furnaces near each other.

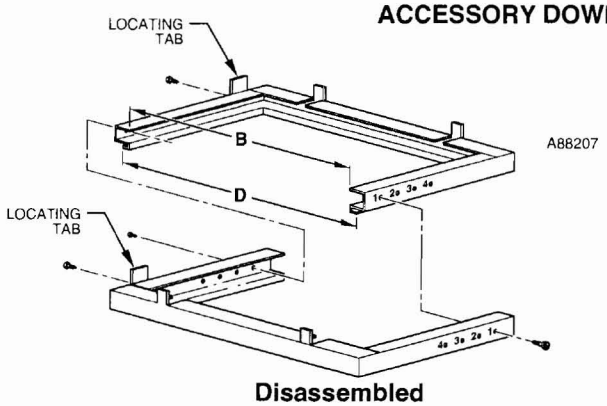
LENGTH OF STRAIGHT PIPE PORTION OF COMBUSTION AIR INLET PIPE ASSEMBLY (IN.)

CASING WIDTH	A
17-1/2	8-1/2 ± 1/2
21	10-1/2 ± 1/2
24-1/2	12 ± 1/2

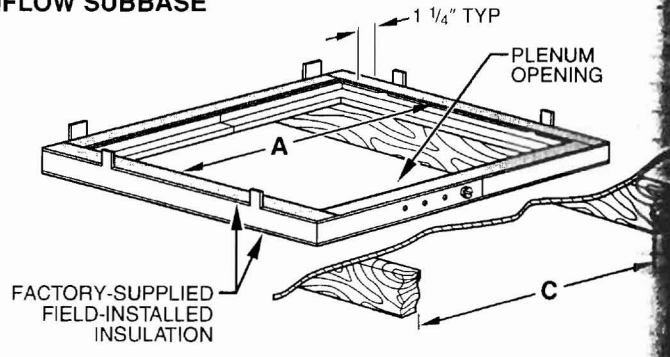
Combination-Air Pipe for Non-Direct Vent (Application (Sizes 040 Through 120 On



ACCESSORY DOWNFLOW SUBBASE



Disassembled



Assembled

FURNACE CASING WIDTH	FURNACE IN DOWNFLOW APPLICATION	PLENUM OPENING*		FLOOR OPENING		HOLE NO. FOR WIDTH ADJUSTMENT
		A	B	C	D	
17-1/2	Furnace with or without Cased Coil Assembly or Coil Box	15-1/8	19	16-3/4	20-3/8	3
21	Furnace with or without Cased Coil Assembly or Coil Box	18-5/8	19	20-1/4	20-3/8	2
24-1/2	Furnace with or without Cased Coil Assembly or Coil Box	22-1/8	19	23-3/4	20-3/8	1

* The plenum should be constructed 1/4 in. smaller in width and depth than the plenum dimensions shown above.